



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 19, 1984

Phillips Oil Co.
P. O. Box 2920
Casper, WY 82602

RE: Federal Well Site A#1
Change Order #84-351

Gentlemen:

Please accept this letter as the Department of Environmental Quality authorization of the "Change Order" submittal received 7/13/84.

If additional information is needed, please feel free to contact this office.

Very truly yours,

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

Ed Baruth, P.E.
Northwest District Supervisor

EB:den

cc: Jake Strohman, DEQ/WQD Cheyenne
File #84-351

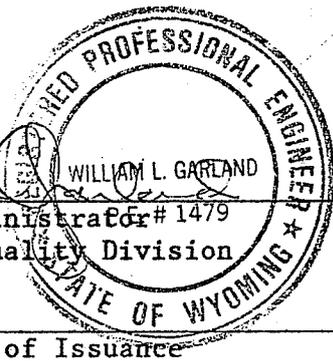
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

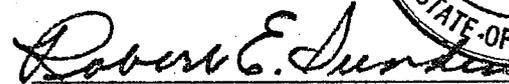
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division

July 31, 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 ON PERMIT *

1. This permit is issued as a temporary authorization to utilize three holding tanks for domestic sanitary wastes at the referenced location. The tanks are to be removed after activity at the well site is completed.
2. Before the system is backfilled, the applicant is to contact Mr. Ray Price, the Fremont County Planner, for his inspection of the system. Contact Mr. Price a minimum of 48 hours prior to the time you wish to have the installation inspected.

EB:dcn

10-25

PERMIT TO CONSTRUCT

Permit No. 84-352RR

New
 Renewal
 Modified

Shirley Basin Rest Area
(Name of Facility)

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

Wyoming Highway Department

c/o Gary Brown

P.O. Box 1708

Cheyenne, WY 82001

to construct, install, or modify a wastewater collection and evaporative/containment ponds facility according to the procedures and conditions of the application No. 84-352RR. The facility is located in Section 11, T28N, R80W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

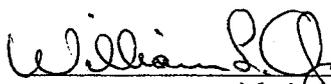
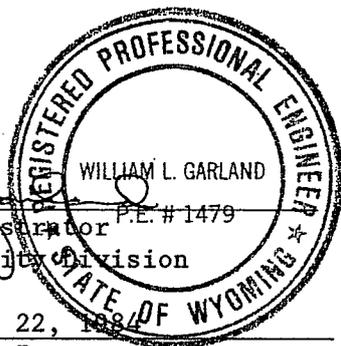
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:


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



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

October 22, 1984
Date of Issuance

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

cc: Timothy R. Conner
Banner Associates, Inc.
P.O. Box 550
Laramie, WY 82070

Review of Plans and Specifications

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

PROJECT: Shirley Basin Rest Area, Carbon Co.

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

APPLICANT: Gary Brown, WY Highway Dept.
P.O. Box 1708, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 84-352R

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

DATE OF REVIEW: August 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

This is to acknowledge receipt of your August 6, 1984 reply. The responses are acceptable but we are awaiting the final plan revisions in order to authorize this project.

7-31-88

Review of Plans and Specifications

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

PROJECT: Shirley Basin Rest Area, Carbon Co.

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

APPLICANT: Gary Brown, WY Highway Dept.
P.O. Box 1708, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 84-352

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

DATE OF REVIEW: July 30, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The location of water lines need to be shown on the sewer profiles
2. The sewage collection system to the 5 trailer pads needs to be authorized.
3. The slope between manhole #4 and manhole #5 is incorrect.
4. The septic tank manholes (or cleanouts) should be extended to the ground surface to facilitate cleaning and inspection.
5. If the sanitary wastes are to be used for land application, a permit is necessary from our department.
6. I question the need for the new pond for the R.O. and brine wastewater based on the following reasons:
 - a. The available area of 90,000 sq. ft. is only 5% different than the required area of 94,600 sq. ft.
 - b. A safety factor of 1.25 (80%) has been used in the evaporation rate. Reduced from 49 inches to 39.4 inches.
 - c. For small stock ponds, an evaporation rate of 56 inches could be used.
 - d. A design depth of 15 inches is very conservative in a 5-6 foot deep cell. A design depth of even 21 inches would give adequate evaporation area.
 - e. If Table 1 on page 4 of the design information was carried out, all 5 ponds would be dried up within 13 months.
 - f. The only redeeming factor is that wastewater with a high TDS has a lower evaporation rate but to what degree is not known.

7. The standards require that facultative lagoons for domestic wastes be designed to maintain a minimum of 2 feet of water in the primary cell. The domestic sewage lagoon has less than 2 feet most of the year.

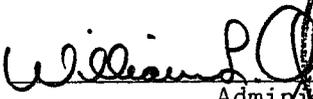
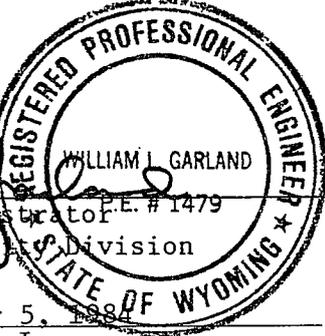
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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AUTHORIZED BY:


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

October 5, 1984
Date of Issuance


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

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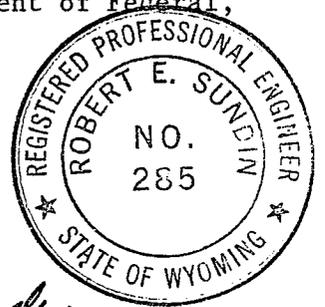
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AUTHORIZED BY:



William R. Garland
Administrator
Water Quality Division
P.E. # 1479
October 9, 1984
Date of Issuance

A circular professional seal for William R. Garland, a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER", "WILLIAM R. GARLAND", "P.E. # 1479", and "STATE OF WYOMING" with two stars on either side.

Robert E. Sunder
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
Returned to Sheridan
9-20-84*

Application Number 84-353R and 84-354R

Date Submitted For Review 9-18-84

Name and Location of Facility BELLE AIR TANK BATTERY 2 RESERVOIR
BELLE AIR TANK BATTERY 3 RESERVOIR
T.47N + 48N R 71W Sec 3434
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 *9-20-84*

Approved *9/20/84*
(Date)

ajm
(Signed)
Groundwater Control Supervisor

Norma

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Belle Ayr Coal Mine
Tank Battery 2 Reservoir
Tank Battery 3 Reservoir
Butte Reservoir

ARCHITECT OR ENGINEER: AMAX Coal Company
Attention: Frank Ferris
P.O. Box 3003
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBERS: 84-353, 84-354, 84-360

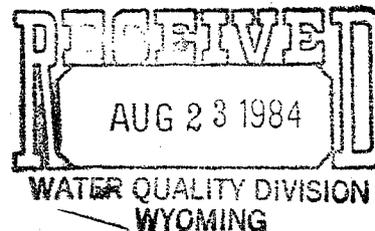
REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: August 22, 1984

ACTION: No Permits Issued

COMMENTS:

1. Although Applications to Construct for Tank Battery 2 and Tank Battery 3 Reservoirs were submitted, they were not accompanied by plans, specifications, or supporting information. Therefore, no Permits can be issued for them.
- 84-3602. Since Butte Reservoir is not intended to control runoff from disturbed areas or pit or process wastewater, no Permit to Construct is required.



8-30

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-355

SEDIMENT BA 37 RESERVOIR

(Name of Facility)

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

AMAX Coal Company

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a _____

coal mine disturbed area sediment control reservoir

_____ facility according to the procedures and conditions of the application No. 84-355. The facility is located in Sec. 29, T.48N., R.71W.

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

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

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

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

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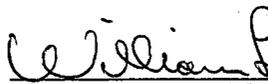
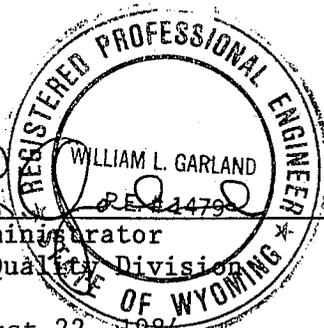
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

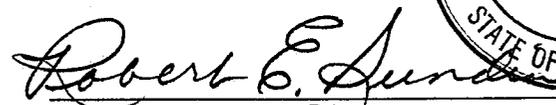
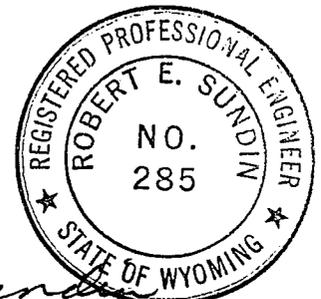
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AUTHORIZED BY:



WILLIAM L. GARLAND
P.E. #14479
Administrator
Water Quality Division
STATE OF WYOMING
August 22, 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.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-356

SEDIMENT BA 38 RESERVOIR

(Name of Facility)

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

AMAX Coal Company

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a _____

coal mine disturbed area sediment control reservoir

_____ facility according to the procedures and conditions of the

application No. 84-356. The facility is located in Sec. 34, T.48N., R.71W.

_____ in the County of Campbell,

in the State of Wyoming. This permit shall be effective for a period of five (5)

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

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

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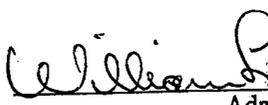
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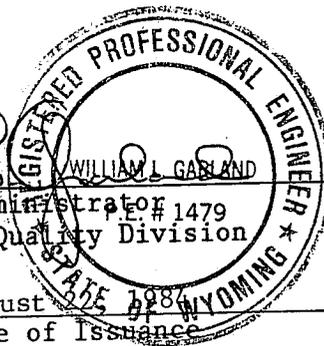
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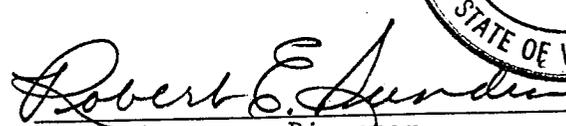
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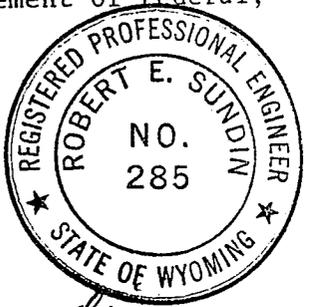
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AUTHORIZED BY:


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




Director
Dept. of Environmental Quality



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

8-30

PERMIT TO CONSTRUCT

New

Permit No. 84-357

Renewal

Modified

SEDIMENT BA 39 RESERVOIR

(Name of Facility)

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

AMAX Coal Company

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a _____

coal mine disturbed area sediment control reservoir

_____ facility according to the procedures and conditions of the application No. 84-357. The facility is located in Sec. 29, T.48N., R.72W.

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

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

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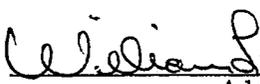
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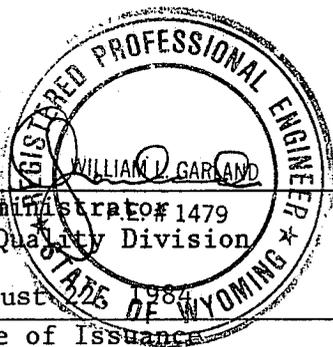
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
August 1984

Date of Issuance





Director
Dept. of Environmental Quality



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

8-20

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-358

SEDIMENT BA 40 RESERVOIR

(Name of Facility)

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

AMAX Coal Company

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a _____

coal mine disturbed area sediment control reservoir

_____ facility according to the procedures and conditions of the

application No. 84-358. The facility is located in Sec. 35, T.48N., R.71W.

_____ in the County of Campbell,

in the State of Wyoming. This permit shall be effective for a period of five (5)

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

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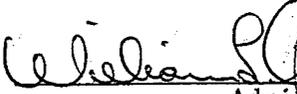
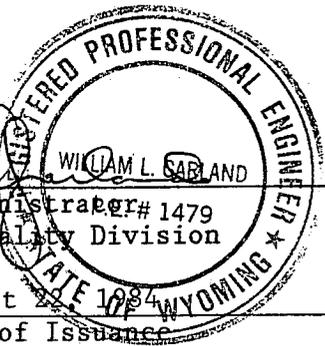
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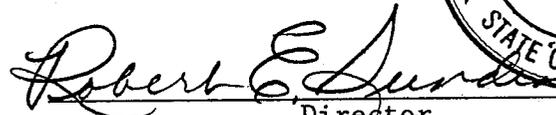
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August 2, 1984
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Director
Dept. of Environmental Quality


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

8-30

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-359

SEDIMENT BA 013 RESERVOIR
(Name of Facility)

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

AMAX Coal Company

P.O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a _____

coal mine disturbed area sediment control reservoir

_____ facility according to the procedures and conditions of the

application No. 84-359. The facility is located in _____

Sections 28 and 33, T.48N., R.71W.

_____ in the County of Campbell,

in the State of Wyoming. This permit shall be effective for a period of five (5)

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

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

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

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

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

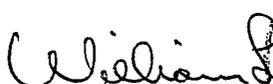
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

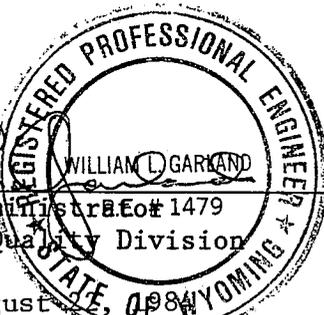
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

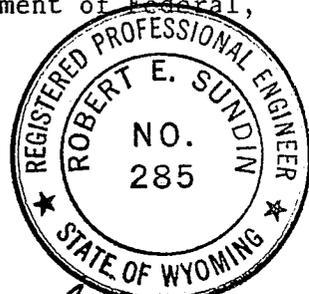
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARKAND
Administrator # 1479
Water Quality Division
August 1, 1984
Date of Issuance




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
Returned to Sender
8-7-84*

Application Number 84-353 → 84-360

Date Submitted For Review 8-7-84

Name and Location of Facility Belle Ayre Mine Reservoir

S 3, 34, 29, 35, 28, 33 T 48, R 71

S 3 T 47, R 71

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 Lennoy
Title Eng. Eval
Date 8-7-84

Approved 8/7/84
(Date)

9jm
(Signed)
Groundwater Control Supervisor

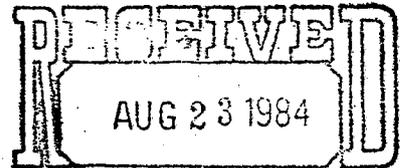
Norma

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Belle Ayr Coal Mine
Tank Battery 2 Reservoir
Tank Battery 3 Reservoir
Butte Reservoir

ARCHITECT OR ENGINEER: AMAX Coal Company
Attention: Frank Ferris
P.O. Box 3003
Gillette, Wyoming 82716



WATER QUALITY DIVISION
REFERENCE NUMBERS: 84-353, 84-354, 84-360

WATER QUALITY DIVISION
WYOMING

REVIEWING ENGINEER: Tom Mueller *TMM*

DATE OF REVIEW: August 22, 1984

ACTION: No Permits Issued

COMMENTS:

1. Although Applications to Construct for Tank Battery 2 and Tank Battery 3 Reservoirs were submitted, they were not accompanied by plans, specifications, or supporting information. Therefore, no Permits can be issued for them.

84-360 2. Since Butte Reservoir is not intended to control runoff from disturbed areas or pit or process wastewater, no Permit to Construct is required.

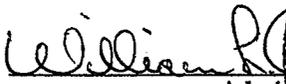
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

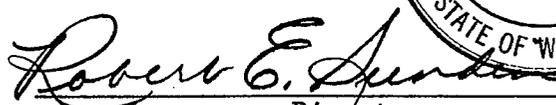
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
March 11, 1987
Date of Issuance


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

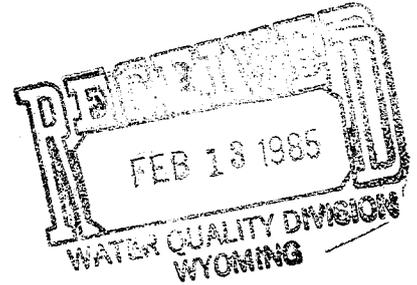
This permit does not supercede the requirements for obtaining any permit from local agencies.

Check Copy

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Powderhorn Subdivision

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

OWNER: Bob Steel
P. O. Box 2277
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: #84-361RR

REVIEWING EVALUATOR: Jeff Hermansky

Jeff Hermansky

DATE OF REVIEW: February 8, 1985

ACTION: **Not authorized.**

COMMENTS: Thank you for responding to my last review letter which was dated October 24, 1984. You responded to all my questions but the plan submitted for the lift station has left me with the following question and comments that must be addressed before a Permit to Construct can be issued:

1. It is not clear to me where the 8" overflow line located at elevation 7,171 near the top of the lift station terminates. Please show this line in plan and profile.
2. The bottom of all lift stations must be provided with hopper bottoms to eliminate potential "dead spots" where sludge can accumulate.
3. I am concerned that the 4" drain line between the wet and dry wells could cause flooding of the dry well if the pumps failed.

I would recommend the dry well drain to a gravel sump or back to the wet well with a 2" drain line and check valve. The end of the pipe should be screened to prevent the entrance of any object that could cause jamming of the check valve.

Please make the necessary changes and resubmit the plans so we can issue a permit. Feel free to contact either Jack Bedessem or 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

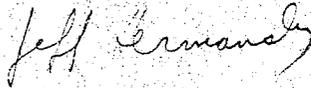
PROJECT: Powderhorn Subdivision

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

OWNER: Bob Steel
P. O. Box 2277
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: #84-361R

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: October 24, 1984

ACTION: **Not authorized.**

COMMENTS: I have taken a look at the plans that you sent to this office in response to my August 30, 1984 phone review. Your response does not address any of the items we discussed.

Once again, the following comments need to be addressed before a Permit to Construct can be issued:

1. Manhole number 8 is shown as a lift station on the plans. However, there are no plans, specifications or design of the lift station with your application. Please submit the lift station design data and detailed drawings and specifications.
2. We still have not received the letter from the Town of Pinedale that states that the Town will accept the sewage and provide water to the subdivision. They must also certify that their systems can handle the increased demands of the subdivision.
3. It seems that the water line material list for Powderhorn Drive needs to be revised for stations 0+00, 2+44, 4+93, 5+61, and 9+88. The proper fittings need to be specified.

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

JH:dcn

AC

MEMORANDUM

TO: Plans #84-361
FROM: Jeff Hermansky
DATE: August 30, 1984
SUBJECT: Phone Review


WATER SUPPLY DIVISION
WYOMING

On August 30, 1984, I conducted a phone review of the Powderhorn Subdivision water and sewer systems with Phillip Essington of Rio Verde Engineering.

I made the following comments:

1. Manhole number 8 is shown as a lift station. Please submit the design of the lift station and a detail drawing.
2. A letter from the Town of Pinedale must be submitted. The letter must state that the Town will accept the sewage and provide water and certify that their systems can handle the increased demands of the subdivision.
3. I noted that the water line material list for Powderhorn Drive needs to be revised for stations 0+00, 2+44, 4+93, 5+61, and 9+88. The proper fittings need to be called out.

JH:dcn

AC

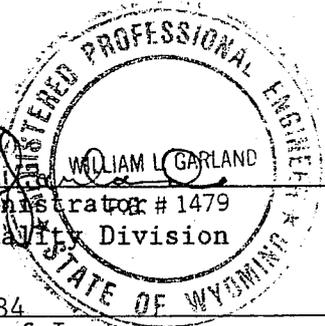
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

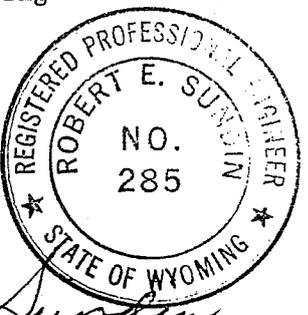
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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
September 17, 1984
Date of Issuance


Robert E. Surrency
Director
Dept. of Environmental Quality

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

JH:dcn

MEMORANDUM

TO: Plans #84-362
FROM: Jeff Hermansky *Jeff*
DATE: August 22, 1984
SUBJECT: Phone Review of Birch Creek Commercial Park

On August 22, 1984, I conducted a phone review of Birch Creek Commercial Park with Wayne Rosendahl.

I asked Wayne to supply 3 copies of the project specifications.

Wayne also told me that a section of pipeline shown on the drawings was already completed. The completed section was the boring under the highway and a 6" water line to the lot closest to the boring.

JH:dcn

e

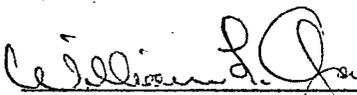
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

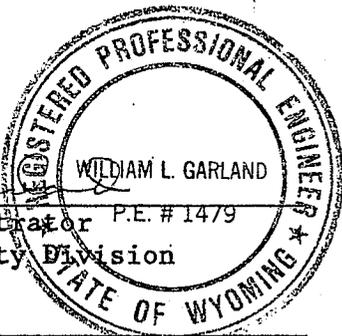
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



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




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


August 9, 1984

Date of Issuance

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

* CONDITION ON PERMIT *

Before backfilling the septic tank/leach field, the applicant is required to contact the Washakie County Planner's Office at 347-2741, Mr. Don Wolford, and arrange for his inspection of the improvements. Please allow Mr. Wolford a minimum of 48 hours prior notification.

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Worland Services

ENGINEER: Gene Roccabruna
P. O. Box 591
Greybull, WY 82426

OWNER: L. W. and Marion Shearer
1212 Robertson
P. O. Box 1270
Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: #84-363

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

DATE OF REVIEW: August 3, 1984

ACTION: **Not authorized.**

COMMENTS:

1. Please provide a cross section of the leach field which details the proximity to the local groundwater you list at 6.0+ feet. A 4 foot minimum vertical separation is required.
2. The maximum slope allowed on drain field piping is 3"/100 feet.
3. Our sizing requirements for commercial office buildings is 30 gal/day/employee. Please verify your sizing.

EB:dcn

AC

9-10-87

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-364RR

Seminole Mine #2, Ponds 7-1 and 7-2
(Name of Facility)

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

Arch Mineral Corp.

c/o Scott Palmer

P.O. Box 530

Hanna, WY 82327

to construct, install, or modify a sedimentation control facility according to the procedures and conditions of the application No. 84-364RR. The facility is located in Section 7, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

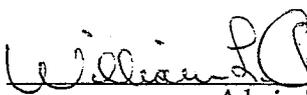
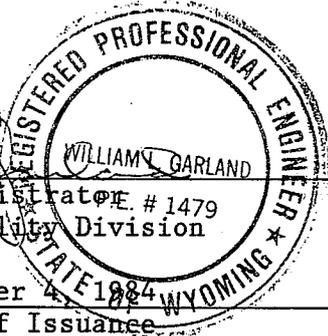
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

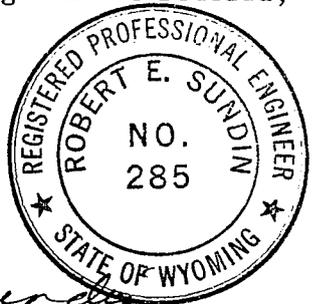
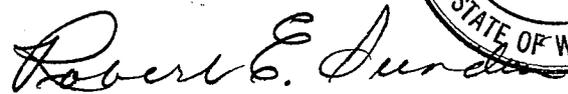
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



Administrator # 1479
Water Quality Division
September 4, 1984
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corp.
Box 530
Hanna, WY 82327

8-13-84

Review of Plans and Specifications

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

PROJECT: Seminole Mine #2, Sedimentation Pond 7-1 and 7-2, Carbon Co.

ARCHITECT OR ENGINEER: James Felber, Arch Mineral Corp.
Box 530, Hanna, WY 82327

APPLICANT: Arch Mineral Corp., Seminole #2 Mine
Box 530, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 84-364R

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

DATE OF REVIEW: August 8, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. I cannot figure out the calculations for determining the soil losses. Why was not the entire basin used in determining sediment yield? How was the 7 year yield obtained?
2. The pumping of any water from the pit into the sediment ponds require that those ponds be identified in the NPDES permit. Therefore you must make a formal request that both of these ponds be identified in the NPDES permit. Please contact Kathy Bauman.
3. Will there be any groundwater pumped into these ponds? If so, the design must include this additional capacity.

8-1-84

Review of Plans and Specifications

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

PROJECT: Seminole Mine #2, Sedimentation Pond 7-1 and 7-2, Carbon Co.

ARCHITECT OR ENGINEER: James Felber, Arch Mineral Corp.
Box 530, Hanna, WY 82327

APPLICANT: Arch Mineral Corp., Seminole #2 Mine
Box 530, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 84-364

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

DATE OF REVIEW: July 31, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A topographic map is necessary to determine the basin boundaries and slope steepness.
2. How was the basin area divided up so that one pond is for 497 acres and the other pond is for 583 acres? Does the effluent from pond #7-1 enter into pond #7-2 or does it by-pass it?
3. You have requested a discharge permit for pond #7-2. Does this pond receive any wastewater other than runoff for sediment control? If these ponds are only used for sediment control then they do not need to be identified in the discharge permit as they are covered under the overall mine permit. If these ponds do contain process water, then both ponds need to be permitted.

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.

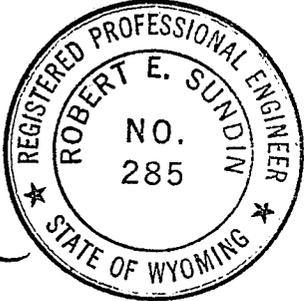
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


William L. Garland
Administrator
Water Quality Division
STATE OF WYOMING


Robert E. Sundin
Director
Dept. of Environmental Quality

August 24, 1984
Date of Issuance

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

xc: HNTB
P.O. Box 3478
Casper, WY 82602

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.

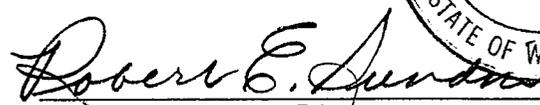
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:


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

January 16, 1985
Date of Issuance


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

Director
Dept. of Environmental Quality

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

xc: Rick Johnston
Gust & Johnston
2232 Del Range, Suite 203
Cheyenne, Wyoming 82009

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mule Creek Junction Rest Area
Septic Wastewater System

ARCHITECT OR ENGINEER: Wyoming Highway Department
Attention: Gary Brown, P.E.
5300 Bishop Blvd.
Cheyenne, Wyoming 82002-9019

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-366

REVIEWING ENGINEER: Tom Mueller *TJM*

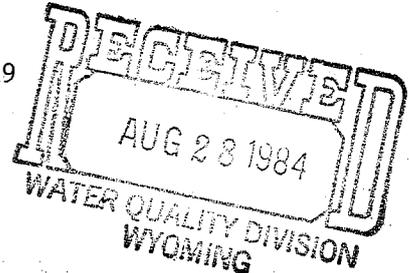
DATE OF REVIEW: August 27, 1984

ACTION: Not Authorized for Construction.

COMMENTS:

1. A septic tank, or other pretreatment unit, must be provided. Despite the fact that this system is intended for graywater only, the wastewater will contain sufficient particulate matter to threaten the integrity of the leach field if not removed. The leach field appears to have sufficient capacity for about 350 gallons per day, thus a 500 gallon septic tank will be necessary.

2. This office is unfamiliar with the recommended loadings for the Clivis Multrum models specified. Please provide some assurance that waste loadings will not cause problems in disposing of inadequately treated waste.



PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-367R

Septage Dump Station
(Name of Facility)

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

City of Laramie

P.O. Box C

Laramie, WY 82070

to construct, install, or modify a septage dump station facility according to the procedures and conditions of the application No. 84-367R. The facility is located in Section 29, 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.

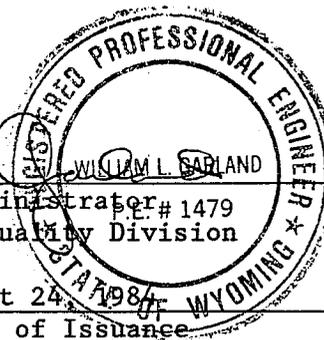
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

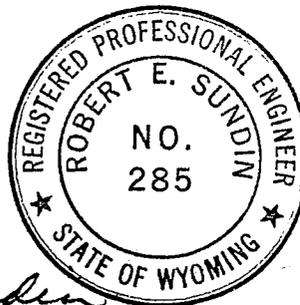
AUTHORIZED BY:


William L. Barland

Administrator # 1479
Water Quality Division

August 24, 1981

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: Wesley R. Bressler
City of Laramie
P.O. Box C
Laramie, WY 82070

8-7-84

Review of Plans and Specifications

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

PROJECT: Laramie Septage Dump Station, Albany Co.

ARCHITECT OR ENGINEER: Wesley R. Bressler, P.E., City of Laramie
P.O. Box C, Laramie, WY 82070

APPLICANT: City of Laramie
P.O. Box C, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 84-367

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

Theodore D. Coyer

DATE OF REVIEW: August 3, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans must be sealed or signed by Mr. Bressler.
2. Is the potable water line to the yard hydrant protected with a backflow preventer?

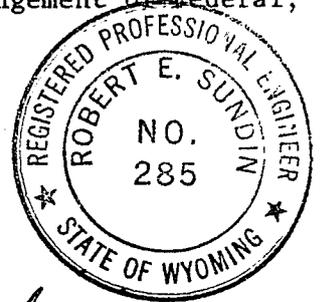
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:



William L. Garland
Admin. Stat. & E. # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
STATE OF WYOMING

Robert E. Sundin
Director
Dept. of Environmental Quality

October 18, 1984
Date of Issuance

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

* CONDITION ON PERMIT *

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

EB:dcn

cc: Ray Price, Fremont 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: Triangle C Ranch

ENGINEER: Energy, Research & Design Assoc.
P. O. Box 3177
Jackson, WY 83001

OWNER: Joe Pavlik
Triangle C Ranch
P. O. Box 691
Dubois, WY 82513

WATER QUALITY DIVISION REFERENCE NUMBER: #84-368

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

DATE OF REVIEW: August 6, 1984

ACTION: Not authorized.

COMMENTS:

1. The plans must be signed by a Wyoming registered professional engineer.
2. The slope of pipe in the leach field can be laid at a maximum slope of 3"/100 feet.
3. Please, at a minimum, verify in writing that separation distances from any property lines exceed ten feet.

EB:dcn

ABC

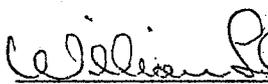
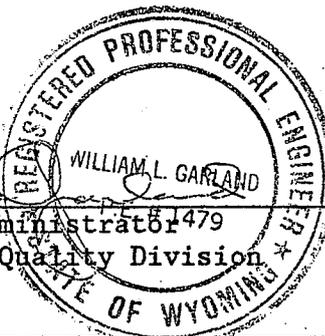
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

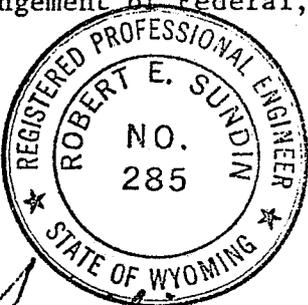
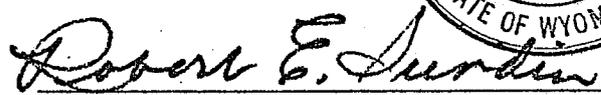
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



 WILLIAM L. GARLAND
 Administrator 1479
 Water Quality Division
 STATE OF WYOMING
 August 6, 1984
 Date of Issuance



 Director
 Dept. of Environmental Quality

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

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Clearview Acres "As Builts"

ENGINEER: Wayne Johnson
Johnson, Fermelia and Crank, Inc.
1515 Ninth Street
Rock Springs, WY 82501

OWNER: James L. Martin
P.O. Box 1540
Rock Springs, WY 82902

WATER QUALITY DIVISION REFERENCE NUMBER: 84-370RR

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: November 15, 1985

ACTION: **Not authorized.**

COMMENTS:

The "as built" drawings and written response received on September 11, 1985 have been reviewed for compliance with current DEQ/WQD design and construction standards (Chapters XI and XII). These drawings consist mainly of the sanitary sewer system serving the Clearview Acres Subdivision (approximately 250 connections).

Notice of Violation and Cease and Desist Order, Docket No. 1156-82 was issued on October 14, 1982. The first item of that Order requested that James L. Martin provide to this department, complete "as built" plans and specifications describing the modifications of the wastewater facilities at Clearview Acres Mobile Home Court. The modifications cited in the Notice of Violation and Cease and Desist Order refer to the sanitary sewer system and public water supply serving the North Trailer Camp (15 units) and the South Trailer Camp (32 units), located adjacent to Clearview Acres Subdivision.

On April 20 and 19, 1984 an Order and Stipulation, Docket No. C83-662 were signed, respectively. Item 5b of the Stipulation required that "as built" drawings of the existing sanitary sewer system lying within the Clearview Acres Subdivision and adjacent properties under the control of or serviced by Mr. James L. Martin be submitted to this department by May 1, 1984.

To date "as built" plans and specifications describing the modifications to the adjacent trailer camps have not been provided to this department. The following comments are a reiteration of my July 31, 1985 review of Clearview Acres Subdivision and a summary of the deficiencies.

ABC

Sanitary Sewer System

1. Existing pipe sizes are indicated on these updated drawings. Since Clearview Acres Subdivision is not a trailer court (mobile home park) sanitary sewers shall be at least 8 inch diameter, except 6 inch diameter sewers may be used in cul-de-sacs or other dead end locations where extensions are not possible. Refer to Water Quality Rules and Regulations (WQRR) Chapter XI, Section 9.

The plans identify five 4 inch dead end sewers located between Gookin-White Mountain County Road and Cottonwood Street. These dead end sewers (4-10 connections) are not considered to be service connections and therefore should be at least 6 inches diameter.

2. Most pipe materials and classifications have been identified on the drawings as ASTM D3034 SDR35. A note in red on sheet 3 of 16 of the plan-profile drawings indicates that 8 inch Orangebury pipe installed on Evergreen Street is to be replaced. However, the "as built" drawings indicate 8 inch ASTM D3034 SDR35. Clarify.

3. The integrity of the existing sewer lines should be evaluated. As the system currently exists, performance testing (infiltration/exfiltration) may not be feasible. If and when the system gets upgraded performance testing should be conducted.

The installation of additional manholes and cleanouts should allow for exfiltration tests to be conducted.

As recommended in your response, a TV survey may also be beneficial.

4. Sewer lines and services shall be buried at sufficient depth to protect from freezing and frost heave. The plans indicate that cover over most of the sewer lines ranges from 5 to 9 feet. It appears that two areas may have cover of less than 4 feet - the Roller Rink and Plain View Drive.

5. Manholes need to be located at all changes in pipe size, vertical and horizontal alignment, pipe intersections and the end of lines. Also, the maximum acceptable manhole spacing for pipe sizes of 15 inches or less is 400 feet. At least 25 manholes and numerous cleanouts should be installed throughout the subdivision.

6. Since no details or water line locations are provided, the separation between water and sewer cannot be evaluated. Refer to WQRR Chapter XI, Section 9 for acceptable separation distances.

Review of Plans & Specs.

Ref. No. 84-370RR

Page Three

7. WWQRR stipulate that not more than two mobile homes shall be served by a sanitary sewer service connection of at least 4 inches, provided a cleanout is installed on the main service pipe. Also, only one mobile home shall be served by a sanitary sewer service riser. According to your response, service lines will be replaced to comply with standards.

8. The water and sewer risers shall terminate at least four inches above grade, be protected and located at least 5 feet apart. Compliance with applicable WQRR shall be required regardless of ownership.

9. According to the "as built" drawings, the slopes of the sanitary sewer lines appear to comply with the WQRR.

10. Details of the sanitary sewer appurtenances (i.e. manholes, cleanouts, services, risers, etc.) should be included with the "as built" drawings.

Clearview Acres Water System

According to the "as built" drawings and onsite inspections, the water system serving Clearview Acres consists of: approximately 5 water wells, storage tanks, distribution system, water valves and fire hydrants. It appears that the main water system is common to the subdivision, commercial area, and two trailer camps.

If the water system is to be evaluated for integrity and compliance with WQRR (Chapter XII), the concerns listed under item nine of my July 31, 1985 review letter still need to be addressed.

If you have questions concerning the above comments, please feel free to contact me.

JB/jw

copy: Jake Strohman, DEQ/WQD, Cheyenne
Weldon Caldbeck, AG's office
File (5)

Norwa



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 1, 1985

Wayne Johnson
Johnson, Fermelia & Crank, Inc.
1515 Ninth Street
Rock Springs, WY 82902

RE: Clearview Acres and A & K Trailer Park (84-370R)
Sweetwater County, Wyoming

Dear Mr. Johnson:

"As Built" plans were submitted to this department for Clearview Acres and A & K Trailer Park as required by Notice of Violation and Orders issued in 1982. The plans have been reviewed for compliance with current Water Quality Rules and Regulations (Chapters XI and XII - Design and Construction Standards).

The plans describing Clearview Acres consist mainly of the sanitary sewer system. The plans describing A & K Trailer Park consist of both the water and sewer systems.

The attached review summarizes areas deficient of information and areas not in compliance with current standards. If you have any questions, please feel free to contact me.

Sincerely,

Jack Bedessem
Area III Supervisor

JB/jw
copy: Jake Strohman, DEQ/WQD, Cheyenne
Steve Jones, AG, Cheyenne
James L. Martin
Avelino Gutierrez
File (3)

ABC

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Clearview Acres and A & K Trailer Park
"As Builts"

ENGINEER: Wayne Johnson
Johnson, Fermelia and Crank, Inc.
1515 Ninth Street
Rock Springs, WY 82501

OWNER: James L. Martin and Avelino Gutierrez
P.O. Box 1540 226 Dickson
Rock Springs, WY 82902 Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 84-370R

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: July 31, 1985

ACTION: Not authorized.

COMMENTS:

"As Built" plans have been reviewed for compliance with current DEQ/WQD design and construction standards (Chapter XI and XII). The plans covering Clearview Acres consisted of only sanitary sewer system. The plans covering A & K Trailer Park consisted of both the water system and sanitary sewer system.

The "as builts" indicate only plan views. Profiles, details, construction and material specifications were not included. The following comments summarize our review:

A & K Trailer Park "As Built" Water and Sewer

1. Pipe material and classifications have not been identified. Acceptable pipe materials are referenced in Wyoming Water Quality Rules and Regulations. (WWQRR) Chapters XI and XII. Identify.
2. To evaluate the integrity of the water and sewer systems, the piping should be subjected to performance testing (pressure and leakage).
3. No profile views were included therefore slopes and protection have not been evaluated. Water and sewer lines shall be buried at a sufficient depth to protect from freezing and frost heave.
4. All sewer lines, except one, are identified as 6 inch. One 4 inch sewer line is indicated on the plans. WWQRR stipulate sanitary sewers for mobile home parks shall not be smaller than 6 inches and installed at slopes equal to or greater than 0.6%.

5. Manholes need to be located at all changes in pipe size, vertical and horizontal alignment, pipe intersections and the end of lines. At least 6 manholes and numerous cleanouts need to be installed.

6. Since no profiles or details have been provided, separation between water and sewers cannot be evaluated. The horizontal separation of water and sewer lines shall be at least 10 feet horizontally when the water line invert is less than 1.5 feet higher than the crown of the sewer line. The horizontal separation distance is approximately 5 feet between one set of water and sewer lines. Clarify and provide necessary details.

7. The water and sewer risers shall terminate at least four inches above grade, be protected and located at least 5 feet apart.

8. All water distribution and sewage collection lines are laid directly under the individual trailer spaces. This layout is not recommended because of accessibility and maintenance problems.

9. WWQRR stipulate that not more than two mobile homes shall be served by a sanitary sewer service connection of at least 4 inches, provided a clean out is installed on the main service pipe. Also, only one mobile home shall be served by a sanitary sewer service riser. Clarify and provide the necessary details.

10. The water supply source shall be capable of supplying the peak water demand or storage will need to be provided. The plans did not identify any water storage tanks. Clarify and provide the necessary demand criteria.

11. The distribution systems shall be of sufficient size to supply the required volume of water at a minimum pressure of 20 psi under all flow conditions. Including fire protection if provided with hydrants. All lines throughout the water system appear to be 2 inch. Clarify.

12. The mobile home park is supplied by three water wells which serve three separate distribution systems. For each system the pumps must be capable of meeting the maximum day demand with the largest pump-out of service.

13. Water wells and treatment facility details are not provided. Groundwater supplies shall provide disinfection equipment and connections as a minimum. Clarify and provide the necessary details.

14. Valving on water lines was not identified. Deadends should be minimized by looping. Where deadends occur hydrants or blowoffs need to be provided. Valves need to be identified on water mains so that inconvenience and sanitary hazards are minimized. Clarify and provide necessary details.

Clearview Acres Sanitary Sewer System

1. Actual pipe sizes are not provided on the plans. However, some slopes and manhole elevations are identified. Assuming 8 inch diameter sewers, the given slopes appear adequate. Sanitary sewer pipes for mobile home parks shall not be smaller than 6 inches. Identify.
2. Pipe material and classifications have not been identified. Acceptable pipe materials are referenced in Wyoming Water Quality Rules and Regulations (WWQRR) Chapters XI. Identify.
3. To evaluate the integrity of the sewer system the piping should be subjected to performance testing (infiltration, exfiltration, leakage).
4. Sewer lines and services shall be buried at sufficient depth to protect from freezing and frost heave. Some manhole and invert elevations were provided and it appears that the sewer cover ranges from 3.9 feet to 8.5 feet. In Wyoming, 4 feet of cover is generally not enough to completely protect from freezing.
5. Manholes need to be located at all changes in pipe size, vertical and horizontal alignment, pipe intersections and the end of lines. Also, the maximum acceptable manhole spacing for pipe sizes of 15 inches or less is 400 feet. At least 25 manholes (some cleanouts may be utilized) need to be installed throughout the subdivision.
6. Since no profiles, details or water lines are provided, separation between water and sewer lines cannot be evaluated. The horizontal separation of water and sewer lines shall be at least 10 feet horizontally when the water line invert is less than 1.5 feet higher than the crown of the sewer line.
7. WWQRR stipulate that not more than two mobile homes shall be served by a sanitary sewer service connection of at least 4 inches, provided a cleanout is installed on the main service pipe. Also, only one mobile home shall be served by a sanitary sewer service riser. Clarify and provide the necessary details.
8. The water and sewer risers shall terminate at least four inches above grade, be protected and located at least 5 feet apart.
9. The "as built" plans did not locate water lines, however several valve boxes, fire hydrants and wells were identified. Personnel from this department have observed water storage facilities (capacity unknown). The following concerns need to be addressed if the water system is to be evaluated:
 - a. The water supply source should be capable of supplying the peak water demand including fire protection. If the supply source cannot meet the peak demand plus fire protection, adequate storage facilities. The water storage facilities should be evaluated for compliance.

b. Pipe materials, sizes and classifications should be identified. The integrity of the pipelines should be evaluated by performance testing (pressure and leakage tests in accordance with AWWA C600).

c. The water system should be of sufficient size to supply the required volume of water at a minimum pressure of 20 psi, at ground level at all points in the distribution system, under all flow conditions.

d. The water source details are not provided. Groundwater supplies should provide disinfection equipment and connections as a minimum.

e. Valves on watermains should be installed in locations to minimize inconvenience and sanitary hazards. Deadends should be minimized by looping. Where deadends occur hydrants or blow offs need to be provided.

f. Water lines, hydrants, valve boxes, etc. should be located to protect from freezing, frost heave, traffic, etc. Also cross-control protection devices should be installed as needed.

This review addresses concerns about the compliance or adequacy of Clearview Acres and A & K Trailer Park water and sewerage systems. Water Quality Rules and Regulations, Chapters XI and XII can be referenced for more detail.

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

JB/jw

copy: Jake Strohman, DEQ/WQD, Cheyenne
Steve Jones, AG, Cheyenne
File (2)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Clearview Acres Sanitary Sewer Collection System "As Built"

ENGINEER: Johnson, Fermelia, and Crank, Inc.
Attention: Wayne Johnson
1515 Ninth Street
Rock Springs, WY 82901

OWNER: James L. Martin
P. O. Box 1540
Rock Springs, WY 82902

WATER QUALITY DIVISION REFERENCE NUMBER: #84-370

REVIEWING EVALUATOR: Jack Bedessen^{JB} and Jeff Hermansky

DATE OF REVIEW: August 2, 1984

ACTION: Not authorized.

COMMENTS: An initial review of Clearview Acres Sanitary Sewer System "As Built" plans has been completed. The submitted plans were extremely incomplete. The following items need to be addressed:

1. A completed Application for "Permit to Construct" form needs to be submitted. The applicant should not sign the form but should write "As Built" in the space provided.
2. Three complete sets of plans, specifications and design information need to be submitted. The plans and specifications need to be signed by a registered Wyoming Professional Engineer.
3. Profiles of all sewer lines need to be included with the plan views. The profiles should include any appurtenances, water line crossings, elevations, slopes, pipe material and sizes, etc.
4. Detail drawings are needed for all sewer appurtenances (manholes, cleanouts, easements, lift stations, etc.).
5. The plan views need to include the location of any appurtenances and the relation to water lines.
6. The specifications used in the construction of this sewer system need to be submitted. Include construction materials, installation procedures, performance and material testing.

Submit the required information to this office.

JB:dcn

cc: Jake Strohmman, DEQ/WQD Cheyenne
Steve Jones, Assistant Attorney General

ABC

8-7-84

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-371
Ref. No. 84-85R

Albin Sewage Lagoon
(Name of Facility)

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

Town of Albin

c/o AVI p.c.

1700 Westland Road

Cheyenne, WY 82001

to construct, install, or modify a sewage treatment lagoon facility according to the procedures and conditions of the application No. 84-371. The facility is located in Section 29, T17N, R60W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

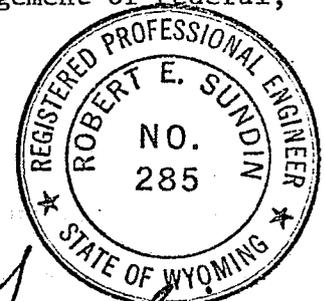
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator, P.E. # 1479
Water Quality Division
August 3, 1984
Date of Issuance



Director
Dept. of Environmental Quality

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

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



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

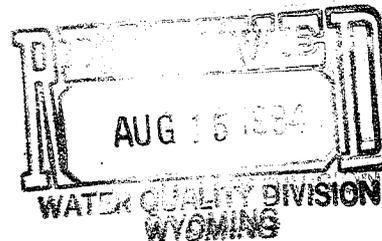
2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

August 14, 1984

Mary A. Bliszc
Thunder Basin Coal Company
P.O. Box 406
Wright, Wyoming 82732



Dear Mary:

I have reviewed the plans for Flood Control Structures FCS-B3 and FCS-G1 at Coal Creek Mine. According to my phone conversation with Bill Almos on August 14, 1984, the reservoirs will receive runoff from undisturbed areas. In addition, any effluent from the structures will flow to the mine pit and eventually be routed through an NPDES discharge point. For both of these reasons, no Permit to Construct is required from the Water Quality Division for the Flood Control Structures.

If you have any questions, please call me.

Sincerely,

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

Rich Ruyle
Environmental Engineer

RR:ls

Water Quality Division
Groundwater Section
Permit Application Review

*No comment,
Returned to Glen Dan
8-7-84*

Application Number

84-372

Date Submitted For Review

→ Coal Creek Mine

Name and Location of Facility

8-7-84

FCS-61 Reservoir

S 18-T46W R 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

Richard Lunn

Title

Eng. Liaison

Date

8-7-84

Approved

8/7/84

(Date)

ajm

(Signed)

Groundwater Control Supervisor

PERMIT TO CONSTRUCT

Permit No. 84-373

New

Renewal

Modified

East Jr. High School Sewage Pump Station
(Name of Facility)

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

Natrona County School District #1

970 N. Glenn Road

Casper, WY 82601

to construct, install, or modify a municipal wastewater pump station facility according to the procedures and conditions of the application No. 84-373. The facility is located in SE1/4 NE1/4 Section 10, 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.

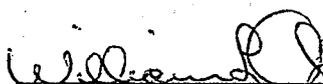
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

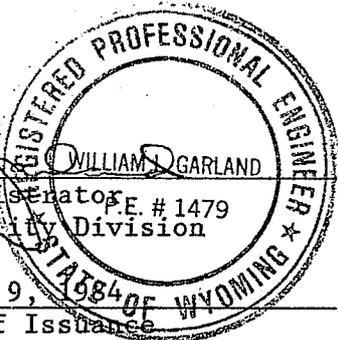
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

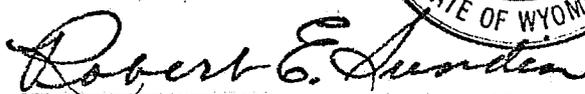
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

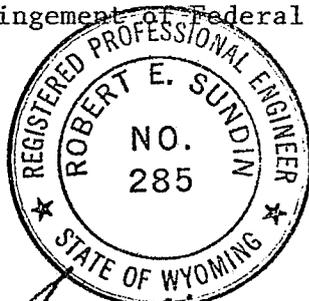
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM D. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 9, 1984
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: James M. Christensen
Dunham Associates
3167 Energy Lane
Casper, WY 82604

8-15-87

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-375
SEE CONDITIONS ATTACHED TO THIS PERMIT

Quealy Dome Field
(Name of Facility)

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

Chevron U.S.A., Inc.

P.O. Box 599

Denver, CO 80201

to construct, install, or modify a waste oil production pit facility according to the procedures and conditions of the application No. 84-375. The facility is located in T17N, R77W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of one year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

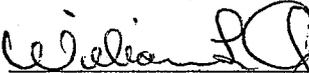
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

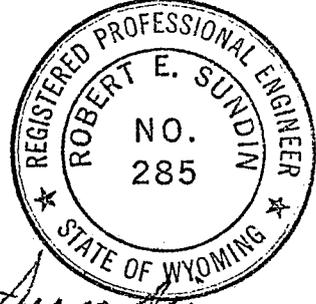
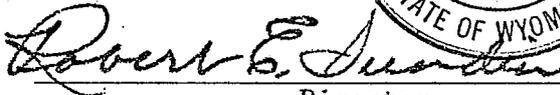
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



Administrat~~or~~ # 1479
Water Quality Division
August 9, 1984
Date of Issuance



Director
Dept. of Environmental Quality

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

This permit authorizes you to dispose of 4,000 cubic years of waste oil sludge-soil mix on the adjoining 5 miles of roads.

CONDITIONS TO PERMIT TO CONSTRUCT #84-375

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-376R

HOLDING TANKS FOR EXXON LABARGE GAS
 PROCESSING PROJECT AT SHUTE CREEK
 (Name of Facility)

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

Exxon Company, U.S.A.

P. O. Box 98

Frontier, WY 83121

to construct, install, or modify ~~xx~~ five temporary sewage holding tanks for use during construction of gas processing plant

_____ facility according to the procedures and conditions of the application No. 84-376R. The facility is located in _____

Section 14, T22N, R112W

_____ in the County of Lincoln,

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

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

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

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

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

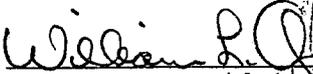
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

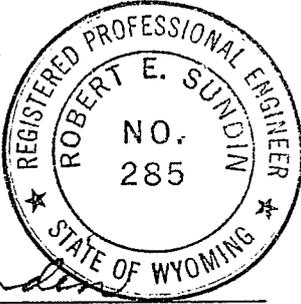
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


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



Director
Dept. of Environmental Quality


September 18, 1984
Date of Issuance

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

JH:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Exxon LaBarge Gas Processing Project at Shute Creek

ENGINEER: A.V.I. P.C. A.V.I. P.C.
1700 Westland Road P. O. Box 34
Cheyenne, WY 82001 LaBarge, WY 83123
Attention: Jon Anderson, P.E.

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

WATER QUALITY DIVISION REFERENCE NUMBER: #84-376

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: August 29, 1984

ACTION: Not authorized.

COMMENTS: I haven't been able to get in touch with you to discuss your application so I am writing this review letter.

As you know, there are a couple of areas in your design that do not meet the minimum standards. They are:

1. You need to provide for 7 days storage capacity in the holding tanks.
2. The tanks must be vented.
3. All holding tanks must be equipped with a high water level alarm.

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

JH:dcn

BC

PERMIT TO CONSTRUCT

New

Permit No. 84-377

Renewal

Modified

CARNEAL MOBILE HOME PARK
(Name of Facility)

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

Clint Carneal

P. O. Box 593

Worland, WY 82401

to construct, install, or modify a sewer collection and water distribution system for
hookup to Worland central systems

_____ facility according to the procedures and conditions of the

application No. 84-377. The facility is located in _____

_____ Section 25, 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 dur-

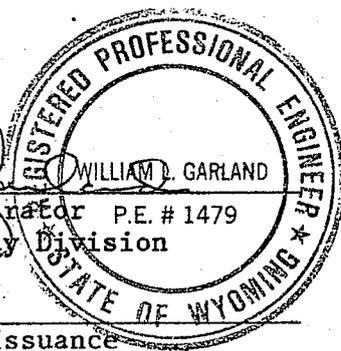
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

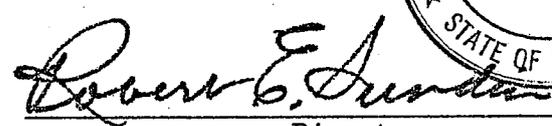
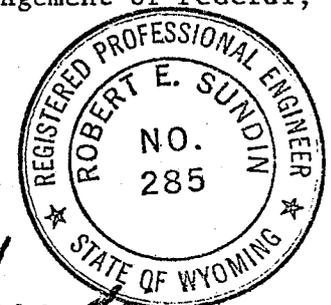
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


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



Director
Dept. of Environmental Quality


August 8, 1984
Date of Issuance

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

EB:dcn

8-15-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-378R
SEE SPECIAL CONDITION

R.D. Hayes Residence
(Name of Facility)

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

R.D. Hayes

4016 Happy Jack Road

Cheyenne, WY 82001

to construct, install, or modify a sanitary sewer service facility according to the procedures and conditions of the application No. 84-378R. The facility is located in Section 34, T14N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

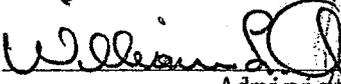
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

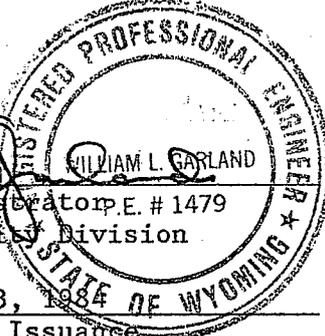
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 13, 1984
Date of Issuance




Robert E. Sundin
Director
Dept. of Environmental Quality



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

Condition to Permit to Construct #84-378R

Cleanouts shall be installed at 100 foot maximum intervals.

cc: Peter Abplanalp
Intermountain Professional Services, Inc.
2206 Pioneer Ave.
Cheyenne, WY 82001

Laramie County Environmental Health Unit
1700 Snyder Ave.
Cheyenne, WY 82001



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 10, 1984

Mr. R. D. Hayes
4016 Happy Jack Road
Cheyenne, WY 82001

RE: Sanitary Sewer Extension, DEQ/WQD Project No. 84-378

Dear Mr. Hayes:

We have received plans from your engineer for extension of your sanitary sewer service. However, we did not receive a commitment from you concerning the number of rooms in your mobile home that you use for bedrooms.

Before we can issue a "permit to construct" for the installation of the second mobile home on your property, we will need a letter from you stating that only two bedrooms will be used.

Please remember that a permit from us does not relieve you of your responsibility for obtaining other local permits if any are necessary.

If you have any questions about this, please feel free to contact this office at 777-7781.

Sincerely,

A handwritten signature in cursive script that reads "Theodore D. Coyer".

Theodore D. Coyer
Engineering Evaluator

TDC/nc

cc: Peter Abplanalp
Intermountain Professional Services, Inc.
2206 Pioneer Avenue
Cheyenne, WY 82001

8-15-89

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-379
SEE CONDITIONS ATTACHED TO THIS PERMIT

Federal 2-B
(Name of Facility)

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

Sohio Petroleum Co.

P.O. Box 30

Casper, WY 82602

to construct, install, or modify a drilling fluids reserve pit facility according to the procedures and conditions of the application No. 84-379. The facility is located in SE1/4 NW1/4 Section 2, T27N, R90W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of one year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

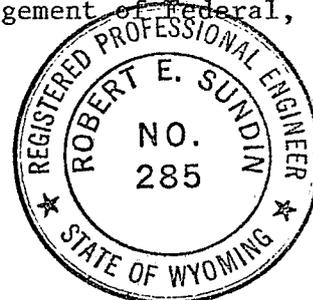
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

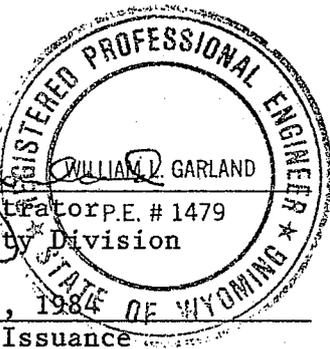
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 9, 1984
Date of Issuance

A circular professional seal for William L. Garland, a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge, "WILLIAM L. GARLAND" in the center, and "STATE OF WYOMING" around the bottom edge. There are small stars on either side of the state name.


Director
Dept. of Environmental Quality

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

cc: Roger Birk
BLM
P.O. Box 589
Lander, WY 82520

This permit authorizes you to dispose of 336,000 gallons of drilling fluid wastewater on the surrounding 20 acres, a total liquid application of 0.62 inches.

CONDITIONS TO PERMIT TO CONSTRUCT #84-379

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

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-380R
 SEE SPECIAL CONDITION

Sedimentation Ponds, SS1, SS2, SS3, SS4B & SS5
 (Name of Facility)

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

Star Aggregates, Inc.

P.O. Box 1437

Cheyenne, WY 82003

to construct, install, or modify sedimentation pond facilities according to the procedures and conditions of the application No. 84-380R. The facility is located in Sections 2, 11 and 14, T13N, R66W in the County of Laramie, in the State of Wyoming.

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

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

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

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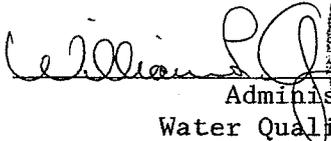
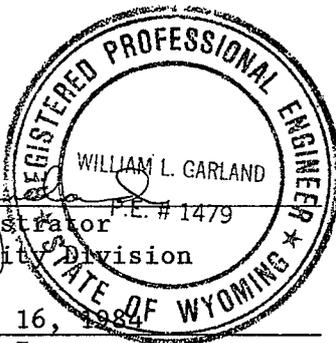
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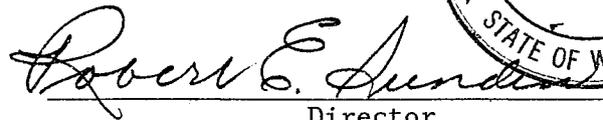
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


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

November 16, 1984
Date of Issuance


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

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

Condition to Permit to Construct #84-380R

Although these sedimentation ponds have been designed to contain the runoff from a 10 year, 24-hour precipitation event, they may discharge from smaller storm events of shorter duration. The applicant shall be aware that any discharge from these ponds which results from storm events smaller than the 10 year, 24-hour event, shall be monitored and shall meet the discharge limitations in the National Pollutant Discharge Elimination System Permit No. WY-0032751.

cc: Paul A. Rechard
Western Water Consultants
410 Grand Ave., Suite 213
Laramie, WY 82070

9-18-84

Review of Plans and Specifications

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

PROJECT: Sedimentation Ponds, SS1, SS2, SS3, SS4A, SS4B, SS5, Laramie Co.

ARCHITECT OR ENGINEER: Paul A. Richard, P.E., Western Water Consultants Inc.
410 Grand Ave., Suite 213, Laramie, WY 82070

APPLICANT: Star Aggregates, Inc.
P.O. Box 1437, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 84-380R

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

DATE OF REVIEW: September 14, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

I read with interest your recent response to my August 10, 1984 review of the sedimentation control ponds for this project. It prompted some further investigation into storm water runoff, from which I discovered some interesting information.

I again checked the NOAA's "precipitation-Frequency Atlas of the Western United States" Volume II - Wyoming to determine the 10 year-24 hour precipitation event which agrees with your 2.32 inches. I also checked the 10 year-6 hour event which is 2.0 inches. Since this storm would have the same probability of occurrence as the 10 year-24 hour event, I reasoned that they could occur on the same day. If this were true, then the 6 hour event would account for 86% of the total rain volume in the first 6 hours. Your "Incremental Percent" in your report assumes only 58%. Because of this, I checked with the Cheyenne office of the National Weather Service to determine the actual storm patterns for this area. I only looked at those storms which had an accumulative rainfall of 0.25 inches or more in any one hour of the storm.

Attached is a graph of the storm events I found. The points plotted are for the total rainfall in the previous hour. You should notice that the peak value of the storm occurred either in the first or second hour of the storm except for one storm. Of these storms, 70% of rain occurred during the peak hour, 24% in the second highest hour, 5% in the third hour, and 1% in the fourth hour. I believe this is a more realistic incremental percent than what was used in your design report. Therefore, the volume of the runoff should be recalculated taking into account local conditions.

1.5

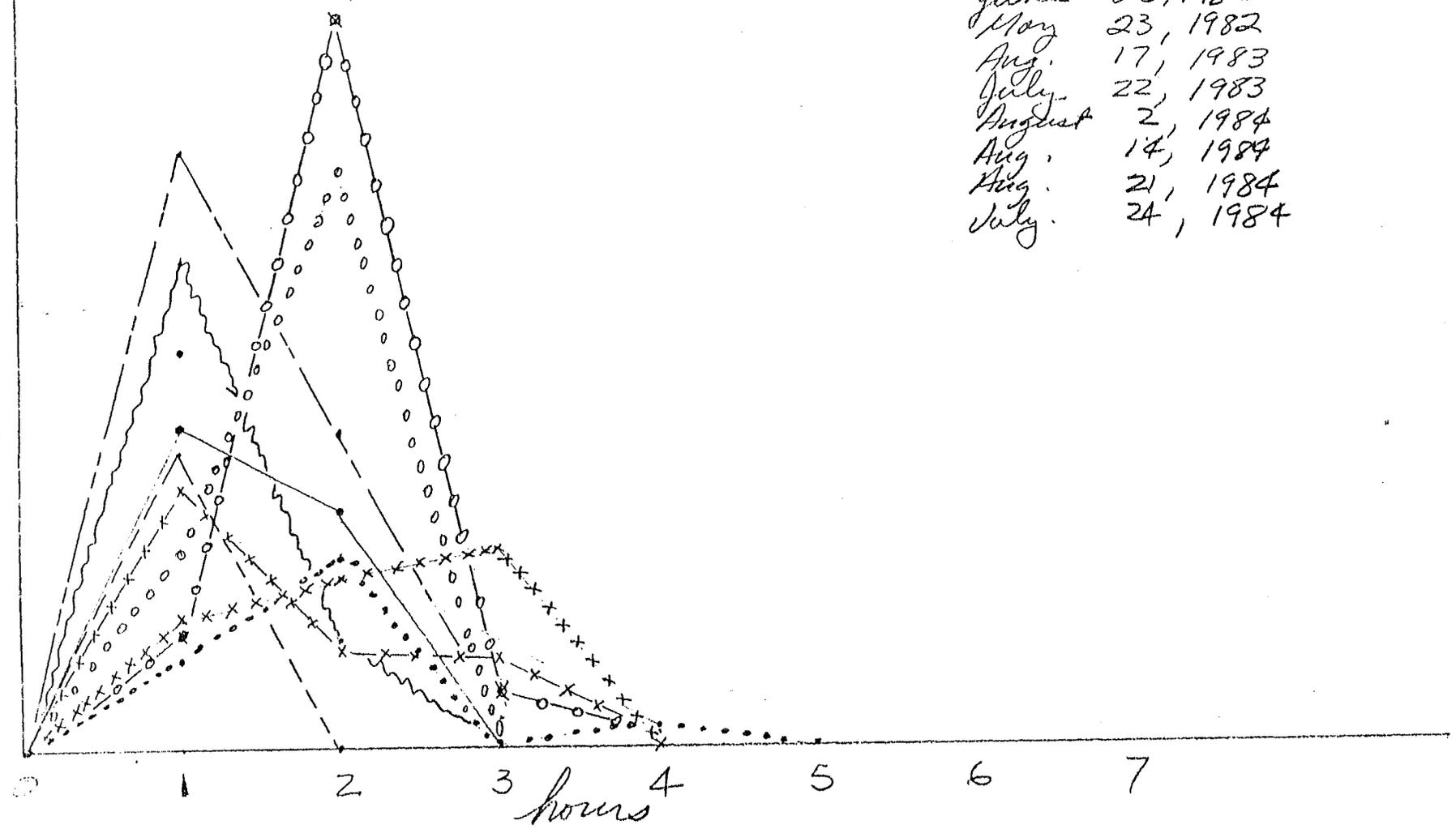
1.0

0.5

0

Rainfall for Cheyenne

- August 20, 1982
- June 25, 1982
- May 23, 1982
- Aug. 17, 1983
- July 22, 1983
- August 2, 1984
- Aug. 14, 1984
- Aug. 21, 1984
- July 24, 1984



8-17-84

Review of Plans and Specifications

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

PROJECT: Sedimentation Ponds, SS1, SS2, SS3, SS4A, SS4B, SS5, Laramie Co.

ARCHITECT OR ENGINEER: Paul A. Richard, P.E., Western Water Consultants Inc.
410 Grand Ave., Suite 213, Laramie, WY 82070

APPLICANT: Star Aggregates, Inc.
P.O. Box 1437, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 84-380

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

DATE OF REVIEW: August 10, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Based on the SCS National Engineering Handbook, Section 4, "Hydrology", Chapter 10, "Estimation of Direct Runoff From Storm Rainfall" with a curve number = 70 and a storm event of 2.3 inches, I estimated a runoff of 0.3 inches or 9.55 acre-feet. This is substantially higher than the 0.41 acre-feet you indicated in your report. Please check this.
2. At least one foot of freeboard must be provided for all ponds over two acres in surface area and six inches for all ponds under two acres.
3. A National Pollutant Discharge Elimination System permit must be obtained for these discharges. Application forms for that permit are enclosed. Please have them completed and returned to this office as soon as possible so the permit can be processed.

cc: John Wagner

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-381R
SEE SPECIAL CONDITION

Chuck Wagon Cafe
(Name of Facility)

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

Leona Berens

Chuck Wagon Cafe

P.O. Box 4

Centennial, WY 82055

to construct, install, or modify a holding tank facility according to the procedures and conditions of the application No. 84-381R. The facility is located in Section 3, T14N, R78W 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, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

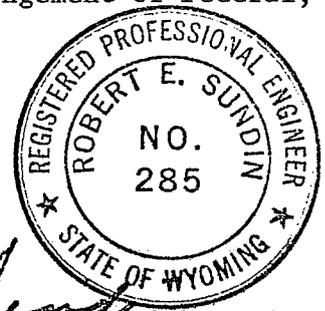
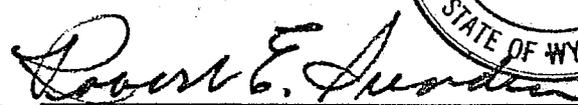
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



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



Director
Dept. of Environmental Quality

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

Condition to Permit to Construct

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

Tom Curren
Albany Co. Planning Office
405 Grand Ave.
Laramie, WY 82070
Telephone: 721-5288

cc: Donald R. Lamb, P.E.
Associated Engineers
609 South 2nd Street
Laramie, WY 82070

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-382R
SEE SPECIAL CONDITION

Cheyenne Round Top Water Treatment Plant - Chlorination Facilities
(Name of Facility)

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

Cheyenne Board of Public Utilities

Box 1469

Cheyenne, WY 82003

to construct, install, or modify a chlorination facilities for municipal water system facility according to the procedures and conditions of the application No. 84-382R.

The facility is located in Section 16, T14N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

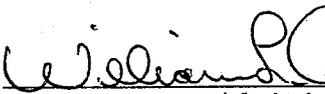
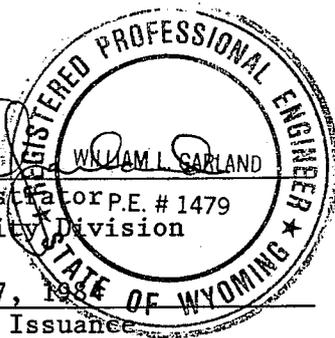
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

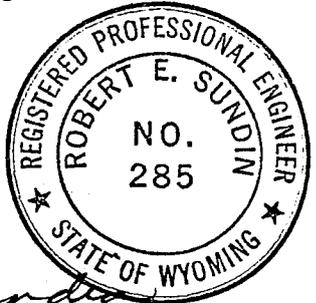
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 27, 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.

Condition to Permit to Construct #84-382R

A manual switch shall be located outside the personnel door to control the lights and exhaust fan to the chlorination room.

cc: Carroll Aamold
Cheyenne Board of Public Utilities
Box 1469
Cheyenne, WY 82003

Review of Plans and Specifications

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

PROJECT: Cheyenne Round Top Chlorination Facilities, Laramie Co.

ARCHITECT OR ENGINEER: Carroll Aamold, Cheyenne Board of Public Utilities
Box 1469, Cheyenne, WY 82003

APPLICANT: Cheyenne Board of Public Utilities
Box 1469, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: ~~84-388~~ 84-382

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

DATE OF REVIEW: August 13, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A design report is necessary stating the existing and design flow volumes. This would also include average daily flow, maximum daily flow, and peak flow. Chemical dosages, feed rates, controls, delivery, handling, and storage also need to be discussed.
2. The plans were not signed or sealed by a Wyoming professional engineer. Three copies are required of all submittals.
3. Specifications for piping, chlorinator, scales, leak detection, ventilation, controls, heating, etc. were not included. Specifications must include the type, size, strength, operating characteristics, construction and installation procedures, testing, etc. for all materials.
4. Inadequate information was supplied on the following items so that I could not evaluate whether the standards were met:
 - a. Controls on feed rates - proportional or constant
 - b. Cross-connection control
 - c. Respiratory safety equipment
 - d. Repair kits
 - e. Interior window with shatter-resistant glass
 - f. Panic hardware on door
 - g. Air intake location
 - h. Capacity of ventilation
 - i. Heating
 - j. Controls on personnel door switch and fan

12-4

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-383R

* CONDITION ON PERMIT *

LABARGE DEHYDRATION FACILITY
 SANITARY WASTE TREATMENT FACILITY

 (Name of Facility)

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

 Exxon Corporation
 Attention: T.J. Tibbitts
 P. O. Box 1600

 Midland, TX 79702

to construct, install, or modify a septic tank/leach field

_____ facility according to the procedures and conditions of the

application No. 84-383R. The facility is located in _____

Section 35, T28N, R114W

_____ in the County of Sublette,

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

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

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

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

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

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

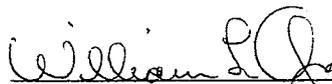
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

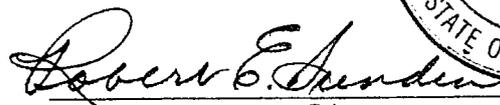
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



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

Director
Dept. of Environmental Quality


November 21, 1984

Date of Issuance

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

* CONDITION ON PERMIT *

This permit is issued with the following condition:

The permittee shall notify the Sublette County Planner of the day construction is scheduled to commence and the estimated completion date of this project. Final inspection of the installed system is required before backfilling. The Sublette County Planner, Janet Montgomery, can be contacted at:

P. O. Box 506
Pinedale, Wyoming 82941

of by calling 367-4375.

JH:dcn

MEMORANDUM

TO: Plans #84-383
FROM: Jeff Hermansky
DATE: September 13, 1984
SUBJECT: Office Review

JH

On September 13, 1984, I met with Greg Weeks of Exxon and John Cowen of Stearns Catalytic to discuss the on site wastewater treatment facility proposed for the LaBarge Project Field Dehydration Facility.

Greg, John and I discussed the following items:

1. Percolation tests must be run in the actual area of the proposed leach field. The test results submitted were too inconsistent and too far from the proposed field to be used for the design.
2. The percolation tests must be run in accordance with the percolation test procedure in Chapter XI. Slotted tubes should not be used in the holes.
3. The clean out manholes for the septic tank must extend to the surface.

JH:dcn

C

Norma

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

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION

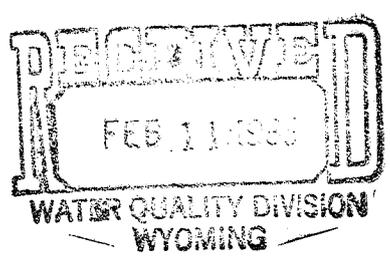
THOMAS J. TIBBITTS
REGULATORY AFFAIRS MANAGER

January 7, 1985

LaBarge Project
Sedimentation Control Facilities
Shute Creek Gas Plant

*84-384
Replaced
by
85-2*

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



Dear Mr. Bedessem:

Several changes in the LaBarge Project plans at the Shute Creek Gas Plant have resulted in redesign of the Sweetwater County expanded plant facilities. Thus, we request that you withdraw Permit No. 84-384 for the Sedimentation Pond and in its place consider the attached permit application for construction of sediment control facilities. These facilities also will be constructed in Section 18, T22N, R111W of Sweetwater County, Wyoming.

We are submitting a signed application for Sedimentation Pond No. 1 with three (3) copies of the application describing facility design criteria, construction and operation, and detailed plan drawings.

A State Engineer permit application is being prepared. In addition, National Pollutant Discharge Elimination System (NPDES) information to modify Permit No. 32701 has been sent to Mr. John Wagner of the Department of Environmental Quality. The modification is for Sedimentation Pond No. 1 (Discharge Point 005) to reflect changes in the flow volume and design.

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

GHS:a
Enclosure

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

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

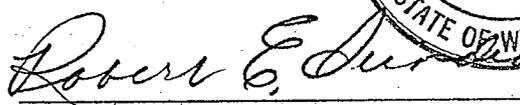
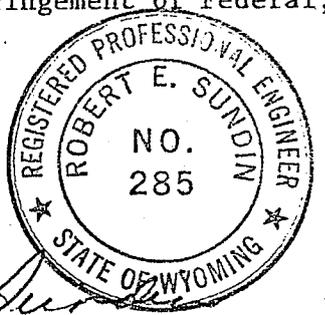
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


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

September 10, 1984
Date of Issuance


Director
Dept. of Environmental Quality


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

JH:dcn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-385R

* CONDITION ON PERMIT *

TOWN OF THAYNE WATER SYSTEM

(Name of Facility)

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

Town of Thayne

P. O. Box 298

Thayne, WY 83127

to construct, install, or modify a pump station, chlorination facility, trans-
mission pipeline, water storage tank, and supply pipeline

facility according to the procedures and conditions of the
application No. 84-385R. The facility is located in

Section 23, T34N, 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-

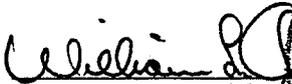
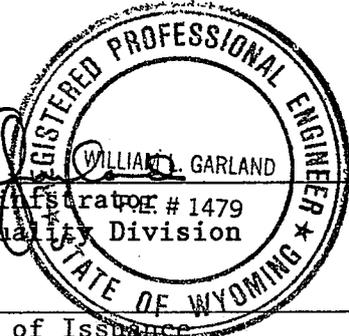
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

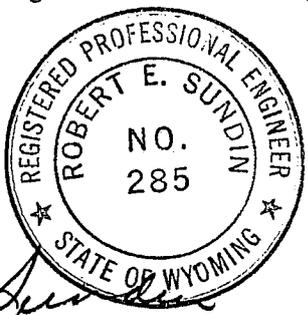
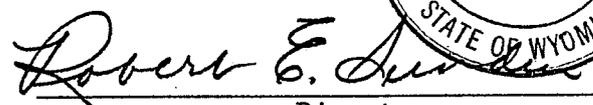
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



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



Director
Dept. of Environmental Quality

February 1, 1985

Date of Issuance

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

* CONDITION ON PERMIT *

Since the structural integrity and safety of the water storage tank is dependent upon the proper installation of the supporting piles, this permit is issued with the requirement that the pile driving operation be inspected full time by a qualified geotechnical engineer familiar with pile installation.

Following the completion of the pile driving, the pile driving logs must be submitted to this office.

JH:dcn



*Cheryl
Copy*
84-385R
ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 6, 1985



Mayor Petersen and Town Council
Town of Thayne
P. O. Box 298
Thayne, WY 83127

RE: Proposed Water System Improvements

Dear Mayor Petersen and Council:

This office has recently completed a review of plans and specifications for the Town's proposed water system improvements. A permit to construct these facilities has been issued and you should be receiving it shortly.

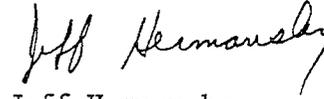
The permit to construct is conditioned with the requirement that the installation of the piles for the water storage tank be observed full time by a qualified geotechnical engineer. The pile driving logs must be submitted to this office upon completion of the pile driving operation. We felt that since the proper installation of the piles is critical to the structural integrity and safety of the storage tank, inspection should be conducted.

In addition to requiring pile inspection, I would strongly recommend that an engineering company be retained to conduct at least periodic inspections of other important aspects of the construction. Specifically, the concrete storage tank should be carefully inspected during construction. An experienced inspector should review the reinforcing bar placement before each major concrete pour.

When there is no professional inspection, the Town should have a representative checking on the entire construction project. He should be able to receive direction and advise from the engineer.

Please feel free to contact this office if you have any questions regarding this letter or specific questions during construction.

Sincerely,



Jeff Hermansky
Water Quality Evaluator

JH:dcn

xc: Jake Strohman, DEQ/WQD Cheyenne
Alan Edwards, DEQ/WQD Cheyenne
Harry Hughes, ARIX
Plans #84-385R

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Water Storage and Pump Station Improvements Project

ENGINEER: ARIX
609 East Madison, Suite 1
Riverton, WY 82501
Attention: Harry E. Hughes, P.E.

OWNER: Town of Thayne
P. O. Box 298
Thayne, WY 83127

WATER QUALITY DIVISION REFERENCE NUMBER: #84-385

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: September 4, 1984

ACTION: Not authorized.

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

1. What degree bend is to be used where the 10" water line connects to the existing tee in Dana Road?
2. It appears that the 10" water line is to be cased where it crosses under Dana Road. If this is true, please note this on the plan sheet.
3. A blowoff has been located at station 6+43 on the 10" line. Why isn't it located at station 4+70, which is the approximate low point for that section of line?
4. What happens to the west end of the 6" water transmission line?
5. What is the purpose of the 2" styrofoam cushions shown between the storage tank inlet, outlet, and drain pipe bends, and their thrust blocks?
6. After a contractor is selected, the shop drawings for the bolted steel storage tank must be submitted to this office for review.
7. Please submit the details or manufacturers drawings of the proposed chlorination building.

ABC

Review of Plans and Specifications

Thayne Water Storage and Pump Station Improvements Project #84-385

September 4, 1984

Page Two

8. Where is the booster pump station to be located?
9. Sheet 9 has not been included in the set of plans that were submitted.
10. Please submit 3 copies of the plan sheets and any additional information that must be submitted.
11. A detail of the proposed air release valve must be submitted.
12. Please submit the design basis and calculations for the water system and booster pumps.
13. Is the water line to be tested at least 1.5 times the maximum operating pressure of the line.
14. Please submit the basis of design and calculations for the storage tank foundation. Include any information that pertains to the piles.
15. A professional engineer licensed in Wyoming must sign the plan sheets.
16. Please complete and return the enclosed application form.

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

JH:dcn

Enclosure

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 11, 1985

Mr. James F. Mickelson
P. O. Box 190
Big Piney, WY 83113

RE: North Cottonwood Disposal Pit
(#84-386), Section 21, T33N,
R114W, Sublette County, Wyoming

Dear Mr. Mickelson:

As per Dave Little's January 5, 1985 letter, your application for "Permit to Construct" the above referenced disposal pit is being withdrawn. Find enclosed two of the three sets of plans you submitted. One set is being kept for our records.

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

Sincerely,

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

Jack Bedessem
Area III Supervisor

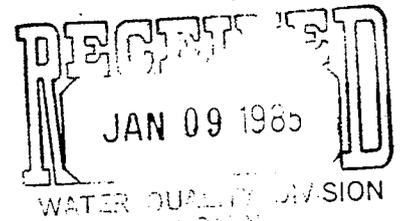
JB:dcn

Enclosures

cc: Cheyenne DEQ/WQD ✓
Dave Little
Keith McNinch
File (1)

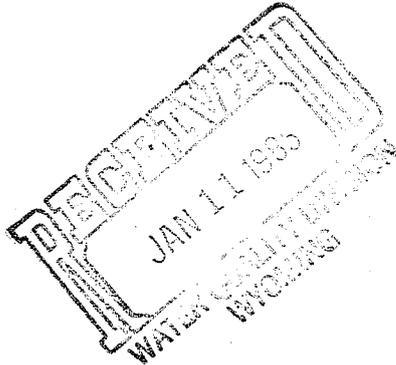
PW

DAVE LITTLE



LOCATION CONSTRUCTION AND RECLAMATION
Specializing in NTL 1 through 100

84-386



January 5, 1985

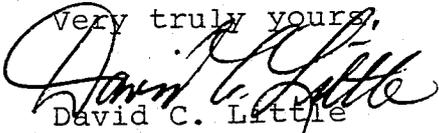
Department of Environmental Quality
Water Quality Division
210 Lincoln
Lander, Wyoming 82502
Attn: Mr Jack G. Bedessem

RE: North Cottonwood Disposal Pit

Dear Jack:

In regards to our phone conversation we donot plan to construct the above disposal pit, therefore we wish to cancel this application at this time.

Thanking you, I remain,

Very truly yours,

David C. Little

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: North Cottonwood Disposal Pit

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

OWNER: James F. Mickelson
P. O. Box 190
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: #84-386

REVIEWING EVALUATOR: Jack Bedessem *Ed Band Sr*

DATE OF REVIEW: September 21, 1984

ACTION: Not authorized.

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

1. The material which is to be used for lining the pond needs to be clarified. The general notes indicate clay or synthetic while the cover letter indicates a soil-bentonite material.
2. Chapter 11 Water Quality Rules and Regulations requires that:

"If the applicant cannot document that the facility poses no threat to groundwater and elects not to perform a subsurface study in accordance with Chapter III, Section 15 (a) and (b), then the groundwater shall be protected from contamination by the wastewater with a liner equivalent to three feet of soil having a permeability of 10^{-7} cm/sec or less. When an applicant performs a subsurface study, the requirement for the liner shall be determined based on the results of the study and the groundwater protection required."
3. If a synthetic liner is to be used, it is recommended that a (minimum 30 mil) reinforced chlorinated polyethylene material be used.
4. Detailed construction and/or installation specifications are needed for the excavation embankments and liner, including construction and final testing, certification, etc. Refer to Chapter 11 Part C, Section 30.
5. Because of this site's hydrogeological characteristics, a thorough groundwater monitoring/leak detection system is needed. A minimum of three downgradient and one

ABC

upgradient monitoring wells will be required or propose and detail a leak detection system.

6. The location and design of the monitoring wells should be determined based on the depth to groundwater and the direction of groundwater movement. From the detail, it appears that the monitoring well design is inappropriate for this site's hydrogeology. Refer to Chapter 11, Part F and/or contact Phil Pucel at 307-777-6183.
7. Propose in detail a groundwater monitoring program. Include sampling frequency, equipment, field procedures, water quality indicating parameters, reporting, etc.
8. Background water quality and potentiometric surface need to be established for this site. Background water quality should consist of the parameters listed in Chapter VIII Water Quality Rules and Regulations.
9. The profile sections indicate that portions of the dikes are to be constructed above the natural ground surface. The dikes should be keyed into the active soils. Address and detail provisions for keying the dikes.
10. Address erosion control and dike stabilization provisions for interior and exterior dikes. Refer to Chapter 11, Section 30, for requirements.
11. Grading around the site should be done in a manner such that runoff is diverted away from the ponds.
12. It is recommended that flagging be installed to discourage birds and waterfowl.
13. Information is needed concerning any water well within a 1 mile radius of the disposal site (i.e. use, static water level, depth of well, etc.).
14. Address the operation and responsibility of the proposed disposal pond.
 - (a) This application proposes to allow the disposal of wastewaters (reserve pit fluids and produced water) from oil and gas drilling operations. The disposal of hazardous or undesirable wastes must be prevented.
 - (b) Oil on the pond water surface will reduce the rate of evaporation. The oil will need to be periodically removed or skimmed.
 - (c) A log must be kept indicating the date, quantity, type and source of each load dumped at this facility.
 - (d) The owner of this type of facility needs to be aware that he/she is responsible for and subject to applicable Water Quality Rules, Regulations and penalties. This facility must provide adequate protection for waters of the State and this office will take appropriate actions to rectify the situation.

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

JB:dcn

cc: David Little
Phil Pucel, DEQ/WQD Cheyenne ✓

Water Quality Division
Groundwater Section
Permit Application Review

Returned to
Lander
9/25/84

Application Number 84-386

Date Submitted For Review Aug 9, 1984

Name and Location of Facility North Cottonwood Disposal Pit
T 33 N R 114 W Sec 21 SW NE
Sublette Co

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

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

Signed Phil Pucil

Title _____

Date 9-24-84

Approved 9/24/84
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem

FROM: Phil Pucel *Phil*

DATE: September 24, 1984

SUBJECT: North Cottonwood Disposal Pit, Application for Permit to Construct, #84-386, SW NE S21, T33N, R114W, Sublette Co.

Per our conversation of September 24, 1984, the following modifications are recommended:

1. One upgradient well and three downgradient wells will be installed at locations based upon the groundwater gradient which can be established upon data from testholes.
2. Background water quality will be established at all wells for the parameters listed in Water Quality Division Rules & Regulations, Chapter VIII.
3. The concrete seal detail for the monitor wells should be modified as detailed in Water Quality Division Rules & Regulations, Chapter XI.
4. A water quality sampling program will be delineated. The program description will include the protocol for sampling, preserving, and transporting water samples. Specific procedures are available from the compliance specialists.
5. The analytical results will be reported to DEQ/WQD monthly.
6. The on-site gravels may not be satisfactorily amended by the addition of bentonite. Any liner using bentonite or clay will be tested for the recommended permeabilities of Chapter XI.

84-387RR

WILLIAM H. SMITH & ASSOCIATES P.C.

SURVEYING CONSULTANTS

POST OFFICE BOX 820
GREEN RIVER, WYOMING 82935

550 EAST 2 NORTH
PHONE 307-875-3638

December 12, 1984

Department of Environment Quality
Water Quality Division
933 Main Street
Lander, Wyoming 82520

Attention: Jack Bedessem

Dear Mr. Bedessem:

*12/13/84
Cheryl Winkler
Called - Discussed
letter - Give permission
to begin disposal
land has fulfilled
6w monitoring next
month JB*

Exxon/McGinnis
Evaporation Pond
Permit 84-387 RR
WHS Job # 84063.000

Page 1 of 2

With reference to the Exxon/McGinnis Evaporation Pond earthwork construction, I have conducted a review of contract documents, plans and specifications, inspection reports, and moisture-density test results as well as visited the project location and would like to make the following comments.

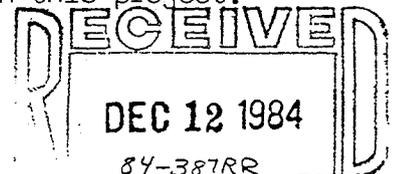
1. The Special Provisions of the Contract Documents prepared by CEI, Inc. for this project state that all work shall be in accordance with the Wyoming Highway Department's 1980 Specifications for Road and Bridge Construction. Section 203.10 of these specifications states, in part, that all embankment sections shall be constructed to not less than 95% of maximum density with moisture content within minus 4 to plus 2 percent of optimum as determined by AASHTO T99 methods "A" and "C", respectively.

Mr. Mark Bolten, Exxon Company, U.S.A., provided me with standard Proctor tests results representative of the majority of materials used in embankment construction on this project. These results yielded a maximum dry density of 118.8 pcf with an optimum water content of 12.9%.

Based upon this Proctor, the fourteen (14) nuclear moisture-density tests taken at various phases of embankment construction all indicate compaction in accordance with specification with two exceptions. One test taken November 1, 1984 fails density (92.6%) and another taken November 2, 1984 fails moisture (7.9%). It is my opinion that these two failures are isolated and not representative of the compactive effort undertaken on the project in general.

2. After reviewing the daily inspection reports prepared by Mr. Dell Norman, Northwest Inspection Services, I can comfortably conclude that adequate precautions to minimize embankment freezing during construction were undertaken and that sufficient compactive efforts were maintained by the contractor (Searle Brothers) on this project.

REGISTERED
WYOMING UTAH IDAHO
NEVADA NEW MEXICO ARIZONA
COLORADO



WATER QUALITY DIVISION
LANDER WYOMING

3. After visiting the McGinnis site, my overall opinion is that the earthwork construction on this project was and is adequate and, in general, of a high quality.
4. Since this pond is lined with an impervious material I feel there is little possibility of the main embankments on the easterly side of the pond becoming saturated. Surface runoff is handled adequately by channels that will direct storm flows away from these embankments. I would recommend, however, that should future samples taken from ground water monitoring wells indicate liner failure, all embankments should be closely inspected and cores taken if necessary to ascertain that these sections have not become saturated.

In conclusion, it is my opinion based upon the information furnished me by Exxon Company, U.S.A. and by my concurrent on-site inspection, that the earthwork construction phase of this project was completed in accordance with the plans and specifications as prepared by CEI, Inc. and I thereby certify said construction is in accordance with these plans and specifications.

If you have any questions please don't hesitate to call.

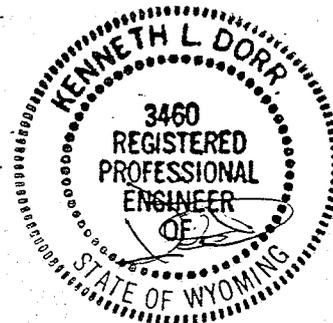
Sincerely,



Kenneth L. Dorr/P.E.
Wyo. P.E. No. 3460

KLD/lld

cc: Mark Bolten
Cheryl Winkler



POLY-AMERICA Inc.

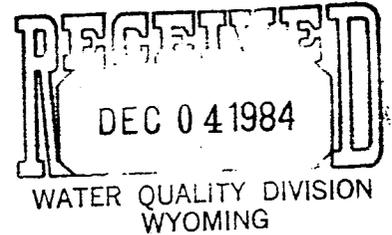
2000 W. Marshall Drive • Grand Prairie, Texas 75051

817/640-0640 • Dial Direct 800-527-3322 No Charge

84-387, 84-388

December 3, 1984

Mr. J. Bedessem
Department of Environmental Quality
Water Quality Department
933 Main St.
Lander, WY 82520



Dear Mr. Bedessem:

Poly-America's POLY-FLEX geomembrane material was installed per our direction and with our technical assistance.

Our Technical Representative was on hand for the installation of both the McGinnis and Pinedale sites owned by Exxon Chemical Company.

Thompson JB

The membrane was installed properly.

Sincerely,

Larry Aust

Larry Aust
Technical Director

*12/5/84
Letter from ~~Engineer~~
addressing construction
to be subm. Htd x 12/12/84
JB*

LA:cr

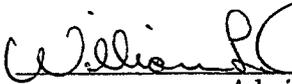
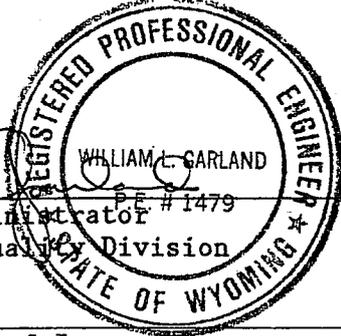
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

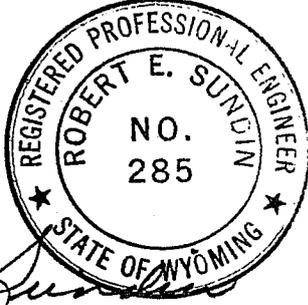
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



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



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

October 18, 1984
Date of Issuance

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

CONDITIONS OF PERMIT

1. No hazardous wastes as defined by the USEPA or State of Wyoming may be placed in this facility.
2. Background water quality sampling results and routine ground water monitoring results must be submitted immediately following the sampling event to: Tony Mancini, DEQ/Water Quality Division, Herschler Building, 122 West 25th Street, Cheyenne, Wyoming 82002.
3. The DEQ/Water Quality Division, Lander Office, 307-332-3144, must be contacted prior to reclamation of this facility. DEQ/Water Quality Division personnel may require waste quality evaluation, mitigation and/or stabilization measures.

JB:dcn

cc: Tony Mancini, DEQ/WQD Cheyenne
Exxon Company USA, Inc. - Cheryl Winkler, P. O. Box 1182, Big Piney, WY 83113
File (2)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

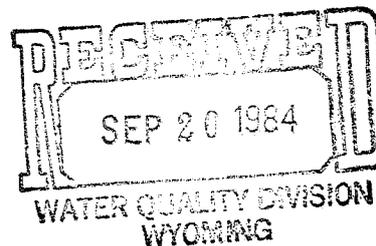
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Exxon-McGinnis Evaporation Pond

ENGINEER: Larry R. Thomas
CEI Consulting Engineers
P. O. Box 2000
Casper, WY 82602

OWNER: Exxon Company USA
Attention: Cheryl Winkler
P. O. Box 1182
Big Piney, WY 83113



WATER QUALITY DIVISION REFERENCE NUMBER: #84-387

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: September 14, 1984

ACTION: Not authorized.

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

1. The plans and specifications must be signed by a registered Wyoming Professional Engineer.
2. Construction specifications are needed for all phases of this project. This department does not recognize 1980 Specifications for Road and Bridge Construction. Include specifications for the frequency of testing (compaction, moisture, density) during earthwork. Refer to Water Quality Rules and Regulations Chapter 11, Section 30.
3. This department recommends the use of the 30 mil polyethelene liner rather than the polyvinyl chloride liner. Specifications are needed for the installation of this liner (i.e. bedding, bonding, testing, certification, guarantee, etc.).
4. Address the operation of this disposal pond:
 - (a) This application proposes to allow the disposal of waste drilling fluids (reserve pit fluids) from oil and gas drilling operations. The disposal of hazardous or undesirable wastes must be prevented.
 - (b) A log must be kept indicating the date, quantity, type, and source of each load dumped at this facility.

ABC

Review of Plans and Specifications
Exxon-McGinnis Evaporation Pond #84-387
September 14, 1984
Page Two

5. A groundwater monitoring program will be needed for this facility. Propose in detail a groundwater monitoring program (i.e. frequency, parameters, procedures, notification). Contact Thomas Williams or Dick Lennox (307-777-7781) concerning appropriate sample collection procedures.
6. One of the two groundwater seeps encountered in the area of the proposed pit was test boring #6. A third monitoring well should be placed northwest of test boring #6 so that background water quality can be determined and monitored. Background groundwater quality information will need to be submitted to this office before operations commence.
7. The geotechnical report indicates that the existing pits are seeping. This seepage needs to be identified. The identification or analyses of this seepage could be an important factor if test boring #7 is to be used as a monitoring well.
8. Written certification that the earthwork and liner installation was completed in accordance with the specification must be submitted by a Wyoming Professional Engineer, soils testing firm, and/or liner installation technician.
9. If an aeration system is to be installed at this disposal facility, plans and specifications for the system must be included with this application or application be made for an additional "Permit to Construct, Install or Modify."
10. Address and identify all existing water wells within a 1 mile radius. Include status, uses and static water level.

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

JB:dcn

cc: Dick Lennox, DEQ/WQD Cheyenne

Water Quality Division
Groundwater Section
Permit Application Review

Norma
Returned to
handler
8/29/84

Application Number 84-387

Date Submitted For Review 8-15-84

Name and Location of Facility EXXON LARGGE PROJECT
S21 T28N R 713 W
Sublette Co.
(McConnico Asp. Pit)

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 L. ...*
Title *Env. Eval*
Date *8-29-84*

Approved *8/29/84*
(Date)

gjm
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: A. J. Mancini, Groundwater Supervisor

FROM: R. J. Lennox, Engineering Evaluator

DATE: August 29, 1984

SUBJECT: Exxon Company USA LaBarge Project Well Field, McGinnis Evaporation Pit, S21, T28N, R113W, Sublette Co., WY, DEQ/WQD #84-387

1. I reviewed the subject material submitted under permit application No. 84-387 and have the following comments:
 - a. There was no permit application form with the subject material; therefore, I could not determine exactly what oil field or refining waste products would be placed in the evaporation pit.
 - b. Since one of the two groundwater seeps encountered in the area of the proposed pit was test boring #6, it is recommended that a third monitor well be installed. This third well should be placed to the northwest of test boring #6 on the north side of the pit. This third monitor well could then act as a background well should any leaks develop.
 - c. There is reference to the existing disposal pits and backfill stockpile causing seepage in the area of test boring #1. There was no indication of what this seepage is nor any indication as to whether or not any samples were taken. It is recommended that this information be provided and or the situation be clarified. This could be an important factor if test boring #7 is to be used as a monitor well.
2. All other groundwater concerns appear to have been met.

10-25-84

PERMIT TO CONSTRUCT

New

* CONDITIONS *

Permit No. 84-388RR

Renewal

Modified

EXXON/THOMPSON EVAPORATION POND

(Name of Facility)

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

Exxon Company U.S.A. Inc.

P. O. Box 3160

Midland, Texas 79702

to construct, install, or modify a waste drilling fluid evaporation/disposal pond and monitoring wells

facility according to the procedures and conditions of the

application No. 84-388RR. The facility is located in

Section 1, T29N, R114W

in the County of Sublette,

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

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

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

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

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

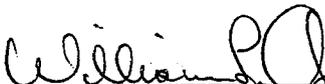
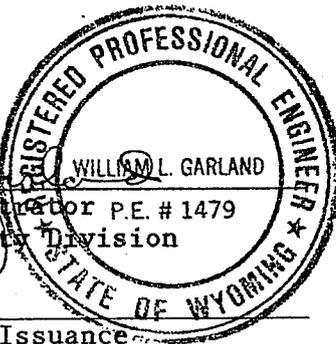
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

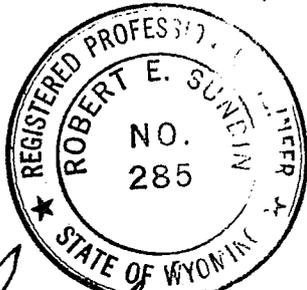
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


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



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


October 18, 1984

Date of Issuance

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

CONDITIONS OF PERMIT

1. No hazardous wastes as defined by the USEPA or State of Wyoming may be placed in this facility.
2. Background water quality sampling results and routine ground water monitoring results must be submitted immediately following the sampling event to: Tony Mancini, DEQ/Water Quality Division, Herschler Building-122 West 25th Street, Cheyenne, WY 82002.
3. The DEQ/Water Quality Division, Lander Office, 307-332-3144, must be contacted prior to reclamation of this facility. DEQ/Water Quality Division personnel may require water quality evaluation, mitigation and/or stabilization.

JB:dcn

cc: Tony Mancini, DEQ/WQD Cheyenne

Exxon Company USA, Inc. - Cheryl Winkler, P. O. Box 1182, Big Piney, WY 83113
File (2)



Flans

*Department of Environmental Quality
Water Quality Division*

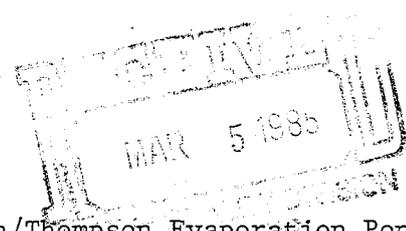
210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 26, 1985

Exxon Company, USA Inc.
P.O. Box 3160
Midland, TX 79702



Attention: T. J. Tibbits, Joe Glass, W. R. Shuck

RE: Exxon/Thompson Evaporation Pond
Sublette County, Wyoming
84-388RR

Dear Sirs:

On October 18, 1984 the Wyoming Department of Environmental Quality/Water Quality Division issued Permit No. 84-388RR to construct the Exxon/Thompson Evaporation Pond (Sec. 1, T.29N., R.114W.). The authorized construction specifications required embankment compaction to not less than 95% of maximum dry density and a moisture content within plus 2 to minus 4 percent of optimum.

This department has reviewed the report by Chen and Associates dated February 12, 1985. The report addresses data obtained in a geotechnical investigation of the pond embankment. Chen's report concludes that "The embankment as constructed does not contain continuous loose layers of fill. Based upon settlement and stability analyses, the embankment as constructed should perform satisfactorily for its intended purpose".

The data indicates that the embankment compaction is inconsistent and varies with depth. Based on this data, the Exxon/Thompson Evaporation Pond was not constructed in complete compliance with the authorized specifications.

Wyoming Water Quality Rules and Regulations Chapter III prohibits the construction of any facility in noncompliance with the terms and conditions of an issued permit. Construction not in complete compliance with the term and conditions, is a violation of the permit.

As per my February 25, 1985 tele-con with Joe Glass, the facility may be placed into operation, however if a failure occurs for any reason Exxon Company USA, Inc. will be held responsible and subject to penalties of the Wyoming Environmental Quality Act. Also, if a failure occurs this office must be notified immediately and appropriate mitigation measures implemented.

Exxon Company, USA Inc.
Exxon/Thompson Evaporation Pond
February 26, 1985
Page Two

Documentation regarding the construction of this facility will remain on record with this department. If you have any questions please feel free to contact me.

Sincerely,



Jack Bedessem
Area III Supervisor

JB:dlb

cc: Jake Strohman, DEQ/WQD Cheyenne
File (4)

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Exxon-Thompson Evaporation Pond

ENGINEER: Larry P. Thomas
CEI Consulting Engineers
P. O. Box 2000
Casper, WY 82602

OWNER: Exxon Company, USA
Attention: Cheryl Winkler
P. O. Box 3160
Midland, Texas 79702

WATER QUALITY DIVISION REFERENCE NUMBER: #84-388

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: September 14, 1984

ACTION: Not authorized.

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

1. Plans and specifications must be signed by a registered Wyoming Professional Engineer.
2. Construction specifications are needed for all phases of this project. This department does not recognize 1980 Specifications for Road and Bridge Construction. Include specifications for the testing (compaction, moisture, density) during earth-work. Refer to Water Quality Rules and Regulations, Chapter 11, Section 30.
3. This department recommends the use of the 30 mil polyethelene liner rather than the polyvinyl chloride liner. Specifications are needed for the installation of this liner (i.e. bedding, bonding, testing, certification, guarantee, etc.).
4. Address the operation of this disposal pond:
 - (a) This application proposes to allow the disposal of waste drilling fluids (reserve pit fluids) from oil and gas operations. The disposal of hazardous or undesirable wastes must be prevented.
 - (b) A log must be kept indicating the date, quantity, type and source of each load dumped at this facility.

ABC

Review of Plans and Specifications
Exxon-Thompson Evaporation Pond #84-388
September 14, 1984
Page Two

5. A monitoring program will be needed for the monitoring wells at this facility. Propose in detail a monitoring program (i.e. frequency, parameters, procedures, notification, etc.). Contact Thomas Williams or Phil Pucel (307-777-7781) concerning appropriate sample collection procedures.
6. Written certification that the earthwork and liner was completed in accordance with the specifications must be submitted by a Wyoming Professional Engineer, soils testing firm and/or liner installation technician.
7. If an aeration system is to be installed at this facility, plans and specifications for the system must be included with this application or application made for an additional "Permit to Construct, Install, or Modify."
8. Address and identify all existing water wells in a 1 mile radius. Include status, uses, and static water levels.
9. After reviewing the site geology, a minimum of three subsurface monitoring wells will be needed to effectively monitor for leakage. Also, it appears that the monitoring well detailed on Sheet D2 is inadequately developed to detect seepage. It is recommended that you contact Phil Pucel (307-777-7781) concerning placement and design of the subsurface monitoring wells.

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

JB:dcn

cc: Phil Pucel, DEQ/WQD Cheyenne

Returned to
Lander
9-13-84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-388

Date Submitted For Review Aug 9 1984

Name and Location of Facility Thompson Evaporation Pond
T 29N R 114 Sec 1
Sublette Co

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

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

Signed P. Puel

Title _____

Date 9-10-84

Approved 9/ /84
(Date)

AJM
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: File

FROM: Phil Pucel *phil*

DATE: September 12, 1984

SUBJECT: Robert Thompson Disposal Pit, Exxon Company, NE1/4 S1, T29N, R114W, Sublette Co., DEQ/WQD Ref. No. 84-388

Site Description

The Thompson Evaporation Pond proposed by Exxon Company, U.S.A. is located in Sublette County, Wyoming in Section 1, T29N, R114W. The pond will cover 8.5 acres of range land.

Site Geotechnical Investigation

Three boreholes were drilled within the proposed pond boundaries to a maximum depth of thirty feet. Groundwater was not reported in any of the logs and no information is reported on the depth or quality of groundwater in the area. No information was submitted on nearby groundwater users. The boreholes penetrated a 10-to-23 foot thick layer of damp to moist, dense to very dense, gravelly sandy silt, grading to a silty gravel. This terrace alluvium is underlain by gray to slightly greenish-gray, dry to damp, moderately hard, silty clay (1 to 4 feet thick). The clay layer is underlain by greenish-gray, dry to damp, hard mudstone (of the Wasatch Formation) which extends at least as deep as the boreholes. The proposed pond will have a synthetic wall liner or a compacted clay wall liner keyed into the claystone of the Wasatch Formation.

Monitor Well

The submittal proposes one monitor well to the south of the pond based upon surficial topography. The sketchy borehole data indicates an easterly dip in the bedrock topography at the site. However, the direction of movement of seepage will be governed by the permeability of the sands and gravels of the terrace alluvium. A single monitor well could hardly be expected to detect the seepage should it occur. Three wells are recommended (South, SE, and East) and two are considered the bare minimum.

Contingency Plan

What plans are conceived to mitigate the spread of contaminants should leakage occur?

Perimeter Dike Liner

The submittal proposes a 3-foot-thick layer of compacted clay tested to a permeability of 10 E-7 cm/sec or less, or a minimum 6-inch-thick layer of compacted clay treated with at least 5%, by weight, bentonite; or an impermeable PVC plastic membrane 32 mils thick. It is uncertain how effective the seal between the claystone and the dike liners will be. The PVC membrane liner is not recommended based on the August 28, 1984 memo by LeRoy Feusner. This memo states that at several facilities

in Wyoming the PVC pond lining material deteriorated causing a threat to groundwater quality. Most of the PVC failures usually relate to poor installation problems or inadequate design to protect the PVC from electromagnetic radiation in the ultraviolet range emanating from the sun. It further recommends a 30 mil reinforced chlorinated polyethylene liner. This recommendation does not prohibit the use of PVC, but both cover material and a leak detection system would be required when it is used.

Neighboring Wells

The closest wells to the pond, listed below, are outside the 1/4-mile area of review.

Well Information

<u>1/4-1/4</u>	<u>S</u>	<u>T</u>	<u>R</u>	<u>Permit</u>	<u>Well Depth</u>	<u>SWL</u>	<u>Use</u>
SW/SW	6	29N	113W	P39058W	10'	Flowing	DOM-STO
NE/NE	31	30N	113W	P5091	140'	-	DOM-STO
NE/NE	31	30N	113W	P5092	140'	-	DOM-STO

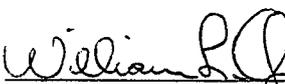
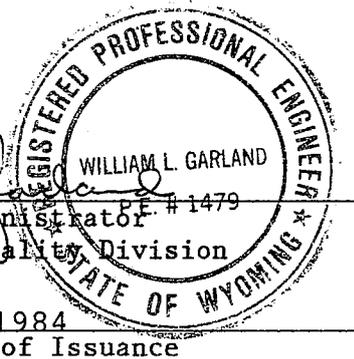
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division



Director
Dept. of Environmental Quality


September 5, 1984
Date of Issuance

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

JH:dcn

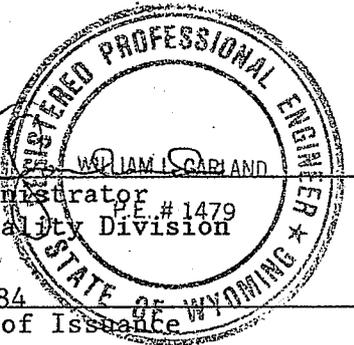
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

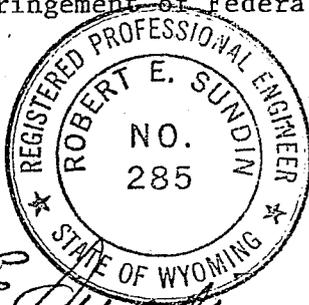
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
P.E. # 1479
STATE OF WYOMING
September 12, 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

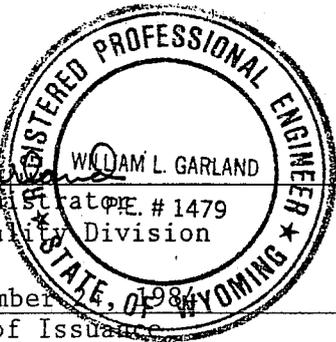
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

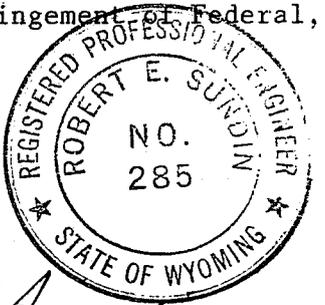
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge, "STATE OF WYOMING" around the bottom edge, and "WILLIAM L. GARLAND" in the center. Below the seal, the name "William L. Garland" is handwritten and underlined. Below the name, the text "Administrator # 1479" and "Water Quality Division" is printed. Below that, "September" is handwritten and underlined, followed by "Date of Issuance" printed.

WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division

September
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge, "STATE OF WYOMING" around the bottom edge, and "ROBERT E. SHERIDAN" in the center. Below the seal, the name "Robert E. Sheridan" is handwritten and underlined. Below the name, the text "Director" and "Dept. of Environmental Quality" is printed.

ROBERT E. SHERIDAN
Director
Dept. of Environmental Quality

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

xc: Donald L. Armstrong, Engineer
625 East Madison, #5
Riverton, WY 82501

9-26-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 25, 1984

Mr. Jim Willey
Engineering Incorporated
45 East Loucks, Suite 301
Sheridan, WY 82801

RE: City of Cheyenne, Wyoming, EPA Grant No. C560243-21, DEQ/WQD Ref. No. 84-392R, North Cheyenne and Sunnyside Sewer Collection System

Dear Mr. Willey:

This office has reviewed the revised plans and specifications for the subject project and your letter of September 18, 1984. These plans and specifications are considered approvable subject to the satisfactory resolution of the following items. The responses to some of our initial review comments indicates that there might be some misunderstanding as to what information was being requested. Those questions will be expanded on further to help identify the information needed. These questions are tied as much as possible to the questions on our first review response to provide continuity in the review.

Plans

- 15. The special provisions of the specifications indicates that the contractor would "be responsible for the service wye only". This seems to be in contradiction to the service installation detail on sheet 30 of the plans which indicates that the wye and riser would both be installed if the service lines were not installed. Also, the special provision section does not identify that the contractor would also provide the caps for the wye. No method of measurement and basis of payment paragraph was included with the special provision section. Is one necessary?
- 17. You indicated in your letter that service tees would be field located. This is, however, not indicated in the specifications. Consideration should be given to including information on this in the plans or specifications to inform the contractor that he will be required to coordinate this with the engineer or owner during construction.
- 24. Special provisions need to be taken to protect the 24-inch water line during construction. Also, this water line should be specially supported after construction to insure there will be no settling.

30. The specifications only include a section for Boring for crossings under streets or highways where excavation of the roadway is not permitted. It is assumed that the same material and installation specs would apply for the insulated sleeves but this should be noted for the contractor's information during bidding. The sleeves will be installed under the future channel improvements. There is no physical existing tie in the field for the contractor to use in locating and installing the sleeves. Consideration should be given to providing a note in the specifications to identify that the contractor will have to coordinate this in the field with the owner and engineer.
33. It is indicated in your letter that some soil borings will be available during bidding. If this information will be available to the contractor during bidding, it should be identified in the plans and specifications so the contractors know what information they can use to prepare their bid. For example, is there enough local knowledge about soil and groundwater conditions that the contractor can make a good bid? Do the soil borings provide this information? It is the intent on EPA funded projects to provide sufficient detail on the plans and specifications to allow the contractor to make a reasonable bid and eliminate change orders.

Specifications

3. A bid schedule was included but the bid schedule was not complete. The bid schedule will need to be completed and submitted. This is needed to identify all of the work proposed for this project. This will then be compared to the EPA eligible items under the collection sewer eligibility requirements. A determination on eligibility of the items covered could then be made.
7. A schedule of values is a projection of monthly billings through the contract period. The contractor would estimate his progress on the project and what he anticipates to be submitting for payment. This is used to project EPA outlay reimbursement requests.
9. The Highway Department specifications is a general document providing specifications for every anticipated type of construction. This includes utility installation, backfill, boring, etc. Many of these specifications are in conflict with the Wyoming Chapter XI regulations for sanitary sewers. It is therefore not feasible to include the Highway Department specifications by reference simply to cover possible unusual conditions. This office will not review the Highway Department specifications to determine which sections are in conflict with your project specifications. Reference cannot be made to the Highway Department specifications unless you identify and exclude any conflicting sections.
11. Fire insurance or acceptable all-risk insurance is required on EPA funded projects to protect material and construction already paid for by the owner. An example would be materials stored on site. Since fire would not be expected to be a major concern on utility installation projects, it may be more suitable to provide all-risk insurance coverage.

13. No contract time has been provided for this project. The Instruction to Bidders indicates that the contract time is an item to be provided by the bidder as part of his bid and that his contract time as submitted will be used as part of the determination on who will receive the bid. The contract time will need to be set by the owner and included as part of the bidding documents. Completing the project construction within the contract time is then addressed by the contractor as part of his bid and he agrees to complete the project within the specified time. A variable contract time will not be allowed. The EPA does not reimburse for engineering inspection expenses incurred after the completion of the contract time.
14. It is assumed from the response to this item that material testing such as backfill compaction testing will be included as part of a separate project covered under a SID and that no request for EPA reimbursement will be made for these services. Adequate records will still need to be maintained to demonstrate that the backfill is placed in accordance with the plans and specifications.
16. See comments under Plans, item 15, above.
17. It is unclear from your statement if gravel or asphalt restoration will be provided under this project or under a separate SID for which no EPA reimbursement will be requested. The question in our August 27, 1984 review letter has not been answered. It is unclear how a contractor will be able to make a definitive bid without the benefit of required gradation specifications and an indication on the plans where the differing types of surface restoration will be required. As an example, a contractor may bid on the basis of supplying 3-inch pit run gravel. If the engineer were to require a 3/4-inch minus gravel when the gradations are submitted, would the contractor be entitled to a change order? The measurement and payment section indicates that all surface restoration may be paid as asphalt pavement. A separation should be made between payment for gravel restoration, pavement restoration and seeding. The gradation and payment provisions should be expanded on to allow the contractors to make firm bids.
20. See comments on number 17 above.
21. The owner and engineer can set a reasonable pay width or quantity for surface restoration (gravel, asphalt or seeding and mulching) to match conditions expected to be encountered during construction. It is recommended however that a pay width be established for bidding purposes. This will tie the contractor to a definitive pay quantity for this item. If no limits are set, the contractor may not feel required to control his surface disturbance since he would be paid for restoring all surfaces that are disturbed. This could then result in material over-runs and requests for change orders. EPA will participate in all reasonable surface restoration necessary under the construction.
24. The plans and specifications indicate that all existing utilities will be located by the contractor. It is questioned if this is the best way to cover this in all cases. An example is noted of the 24-inch water line to be crossed on sheet 17. This is a major water line for which there will be

Mr. Jim Willey
September 25, 1984
Page 4

limited separation. Has the depth to this water line been verified? Any deviation in the location of the water line from that indicated could put these utilities in conflict. The sewer is laid at minimum grade and work around the water line will be difficult. A change in elevations could conceivably result in an extensive change order.

New Comments From Further Review

1. The Instructions to Bidders indicate that the contractor may not withdraw his bid for 30 days after bid opening. EPA reviews all bid packages after bid opening to check for such items as MBE/WBE participation. This review can take 30 days from the date the bid package is received. The specifications should be amended to provide the owner at least 60 days from bid opening to award the contract.
2. The specifications do not include any provisions for trench dewatering. Is groundwater anticipated to be encountered? If so, how would it be handled and disposed of, and are there any special conditions regarding laying pipe where groundwater is present?

The above comments will need to be satisfactorily addressed before the project may be advertised for bid. It should also be pointed out at this time that all engineering costs associated with the design up until the project is authorized for bidding are covered as part of the design allowance and not part of the reimbursement as construction services.

If you have any questions on the above, please contact me at (307) 777-6351.

Sincerely,

Alan Edwards

Alan Edwards
Engineering/Grants Evaluator

Theodore D. Coyer

Theodore D. Coyer, P.E.
Engineering Evaluator

GAE/TDC/nc

cc: Carroll Aamold, Cheyenne Board of Public Utilities, Box 1469, Cheyenne, WY 82003
Ted Coyer, DEQ/WQD, Cheyenne
Grant File



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 5, 1984

Mr. Jim Willey, P.E.
Engineering Inc.
45 East Loucks, Suite 301
Sheridan, WY 82801

RE: Sunnyside and North Cheyenne, DEQ/WQD Ref. No. 84-392, EPA Grant No. C560161-01, Occupational Health and Safety Review of Plans and Specifications

Dear Mr. Willey:

The need to address OSHA requirements in the subject plans and specifications was identified in our review comments. The OSHA offices have completed their review of the plans and specifications. Their comments are as follows:

1. Specifications, page 19, section (f) - After part 1926 -- code of Federal Regulations, add: Wyoming Occupational Health and Safety Rules and Regulations "General" and Wyoming Occupational Health and Safety Rules and Regulations for "Construction".
2. Safety and Health Programs - Paragraph 4, after Occupational Safety and Health Act 1970, add: and the Wyoming Occupational Health and Safety Act.

Since these comments are more specific than our review comments on this subject, please incorporate the necessary changes in your plans and specifications. If you have any questions, please contact me at (307) 777-7781.

Sincerely,

Alan Edwards

Alan Edwards
Engineer/Grants Evaluator

GAE/nc

cc: Carroll Aamold, City of Cheyenne
Grant File



THE STATE OF WYOMING

8-28-84
ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 27, 1984

Mr. Jim Willey
Engineering Incorporated
45 East Loucks, Suite 301
Sheridan, WY 82801

RE: North Cheyenne and Sunnyside Sewer Collection System, Cheyenne, Wyoming,
Plans and Specifications, EPA Grant No. C560161-01, DEQ/WQD Ref. No. 84-392

Dear Mr. Willey:

The plans and specifications for the subject project have been reviewed by this office and by Ted Coyer, the District Engineer. Our comments are as follows:

PLANS

1. For clarity, it is recommended that an index sheet be used on each sheet labelled as to whether it is for sewers in Sunnyside or North Cheyenne.
2. Bolder lines or other means of designating differences between existing, proposed and future sewers are needed. This can be confusing on several sheets. As an example, reference is made to sheet 2.
3. Rim elevations of manholes should be provided to give the contractor more information for bidding.
4. Road intersections are identified by stationing. Consideration should be given to numbering manholes and providing stationing. This is needed for clarity during bidding and construction.
5. Sheet reference or continuation numbers are not provided or are incorrect for all sheets.
6. Sheet 3 - The sewer line grade in Sunset above the existing manhole is shown as 0.4% but is scaled much greater than this.
7. Sheet 3 - Drop manholes are required where the change in elevation between two lines is greater than 24 inches. This is a general comment for all manholes. Drop manholes should be indicated on plans.
8. It should be clarified that footages shown on plans are from centerline of manhole to centerline of manhole.

9. The minimum horizontal separation distance between water and sewer lines of 10 feet should be shown on the plans.
10. Water line or other utility crossings are not shown on profile. See sheet 5 as an example. These should be shown with reference made to minimum vertical separation requirements between water and sewer lines.
11. Do the specifications or plans provide method of adjusting existing water lines if necessary?
12. Are existing utilities shown? If not, whose responsibility will it be to locate them? Is it anticipated to compensate the contractor separately for utility adjustments if existing utilities are not shown for bidding?
13. No match line is shown between sheets 7 and 8. The invert elevations for the manhole at Story and Sycamore do not agree between these sheets.
14. Sheet 8 - Is this line in Sycamore Court future or proposed?
15. A general note should be added in the plans or specifications that the future water and sewer lines are not included in this contract.
16. Sheet 9 - No match line is provided.
17. How will service tees be located in the field? Where is the contractor informed how many and where they will be installed?
18. Sheet 13 - What is the S.T. line shown on North College Drive? Is this storm sewer?
19. Sheet 13 - No matchline is provided.
20. Sheet 14 - Is it intended to decrease the slope of the sewer across manholes? See item number 26 below.
21. Sheet 15 - The grades as shown do not agree with the fall and length of run.
22. Sheet 16 - The size and length of the boring casing should be shown on the plans.
23. Sheet 16 - What utility easement is needed between North College Drive and Monroe?
24. Sheet 17 - Where does the 24" Water in Charles continue to?
25. Sheet 19 - No match line provided.
26. Sheet 20 - Will the significant changes in pipe slope create solids settling or cleaning problems?
27. Sheet 20 - The sewer slope of 0.89% appears to be incorrect based upon the sewer fall and run.

28. Sheet 23 - Is the Cleveland Street relocation proposed to be completed under this contract?
29. Sheet 24 - The line above MH 29.77 is indicated as existing whereas it is shown as proposed on sheet 25.
30. Sheet 26 - The size of the insulated sleeve should be indicated. How long is the sleeve and how will it be located in the field?
31. Sheet 27 - See comment number 30.
32. Sheet 30 - Details:
 - a. A boring detail should be provided indicating the method of installing the sewer line.
 - b. A detail for the insulated sleeve should be provided indicating how the sewer line and sleeve are to be installed.
33. Are any soil borings, logs or other information available for the contractor during bidding?
34. Is the sewer being constructed at sufficient depth to serve all houses by gravity? Since this is a conventional sewer system, EPA will not participate in lift pumps if the buildings cannot be served by gravity.

SPECIFICATIONS

1. The advertisement for bids was not included.
2. The Instruction to Bidders should reference to required federal guidelines such as MBE and WBE goals. See attached checklist for items to be included.
3. The bid form was not included.
4. A table of contents should be provided.
5. The bid sheets need to reference the nondiscrimination in employment provisions for his acknowledgment.
6. The current wage determination will need to be included in the specifications prior to bidding.
7. SC-5 - The contractor will also need to submit a schedule of values of work to be performed.
8. The covered area needs to be identified on page 2 of the Nondiscrimination in Employment section. For Wyoming, the minority goals are 7.5% and the female goals are 6.9%.
9. A copy of the Highway Department Specifications referenced on page SC-1 should be provided. The items that these specifications are intended to cover need to be identified.

10. The trenching specifications on page CP-2 should also reference the Wyoming OSHA requirements.
11. The specifications need to include fire insurance requirements. This can be provided in the form of all-risk insurance.
12. SC-2 - The party who shall furnish water for the work is not identified.
13. What is the contract time for this project?
14. How is materials testing such as compaction tests to be performed? Who will do this and how will it be paid?
15. SSM, page 7 of 10 - Section TE&B referred to in section A is not included.
16. Sanitary Sewer Services - The specifications indicate that services would be installed in accordance with the plans and drawings. The drawings however only provide connection details. Are services to be installed under this contract and, if so, where? EPA participation will be limited to the service wye or tee only for existing houses. The costs for sewer services will have to be paid through local funds.
17. Restoration, Finishing and Cleanup - How will surface restoration be covered as a pay item? The type of existing surfacing is not indicated on the plans. It is therefore not clear how the contractor will bid for this item. EPA will participate in those restoration costs directly associated with grant eligible sewer construction only.
18. Trench Excavation and Backfill - The plans call for select bedding materials to be placed around and above the sewer pipe. The specifications do not provide a material or placement specification for this item.
19. Boring - This section should be expanded to address the installation of the pipe or a detail included in the plans.
20. No gradation specifications or material specifications are included for gravel or pavement. Upon what basis will the engineer approve or not approve these materials?
21. Surface Restoration, Finishing and Cleanup - What is the pay width or area for these items? There is no limit given as to what these widths can be. A maximum width for payment purposes will need to be established for EPA reimbursement.
22. No specification is provided for the insulated sleeve. Material and installation specifications need to be included.
23. Concrete - It should be indicated what classes of concrete will be used for the intended purposes. For example, what class of concrete is specified for the manhole inverts and drop manholes.
24. The specifications should identify who is responsible for locating the existing utilities. These should be identified and included in the contractors bid prices.

Mr. Jim Willey
August 27, 1984
Page 5

Please review these comments and make the appropriate changes to the plans and specifications. Five sets of the revised plans and specifications will need to be forwarded for final review and approval. The application for permit to construct should be submitted with the revised plans and specifications. If you have any questions on the above, please contact me at (307) 777-6351.

Sincerely,



G. Alan Edwards
Engineer/Grants Evaluator

GAE/nc

cc: Carroll Aamold, City of Cheyenne, P.O. Box 1469, Cheyenne, WY 82003
Grant File



*Norma
file*

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 11, 1984

Mr. David Groy
Gordon & Associates, Inc.
11949 West Colfax Ave.
Denver, CO 80215

RE: GPC 84-393, Rock Springs Backfilling Project

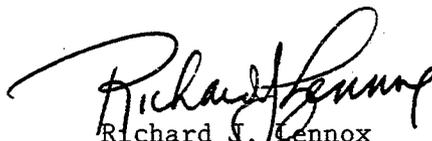
Dear Mr. Groy:

I have enclosed a marked up copy of your draft application for the referenced project permit. While there may appear to be a large number of red marks, your application is really not far from being complete and acceptable. Again, as I indicated in my letter of August 21, 1984, the main item is the lack of a listed permittee with accompanying signatures accepting responsibility for the successful conduct of the project.

I would prefer that each area within the project be listed separately along with a numbering system for the injection wells and monitor wells within these separate areas. I have no objection to issuing a single "generic" permit for the entire project but I would like to list the separate areas within the permit. This will become more critical should more than one contractor become involved, then a separate permit would be required for each new contractor.

Should you have any questions concerning my comments, please do not hesitate to contact me at (307) 777-7781. I anticipate that when you submit the additional information required, the permit issuance should proceed very rapidly. Please use the referenced GPC number, GPC 84-393, for future correspondence for this particular project.

Sincerely,


Richard J. Lennox
Engineering Evaluator

RJL/nc
Enclosures

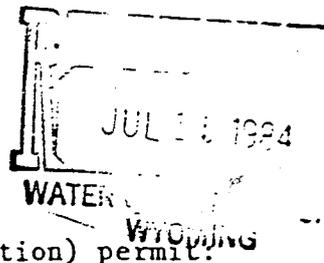
cc: File

Application for Wyoming
Groundwater Pollution Control Permit

For DEQ/WQD
Agency Application Number
Use GPC 84-393
Only

Department of Environmental Quality
Water Quality Division
Water Quality Rules and Regulations, Chapter IX (1980) and Chapter III (1976)

Submit three (3) copies of this application



PLEASE PRINT OR TYPE

1. This application is being made for a subsurface discharge (injection) permit:

- New Modification.

2. Name of facility Rock Spgs. Backfilling Project.

Location (1/4 1/4 Sec., T., R., Co.) SE 1/4 Section 26, W 1/2 Section 35 SW 1/4 Sec 36
All R. 105 W. T 19N. & N.E 1/4 sec 2 R 105 W. T 18.

ADDRESSES

Mailing address Subsided county

Telephone number if possible

Name and title responsible individual, address and telephone number if different from above

3. Facility/Discharge description:

- Discharge (injection) of commercial, municipal and industrial wastes

Kind(s) of waste _____

- Artificial recharge _____

- Miscellaneous discharge (injection)

Kind(s) of discharge Recharge of mine water mixed with inert sand.

4. Name, address and telephone number of operator:

Name Name of contractor?

Mailing address _____

will be required for permit to be issued. Therefore well probably be part of bidding process ie contractor must agree to terms of permitting process and sign to same.

Telephone number _____

Ownership status Land where backfilling well take place - as well as
mine property etc.

Status as Federal, State, private, public or other entity _____

Facility on Indian land (Yes or No) N/O.

5. Well installation and operation as proposed. The applicant shall submit:

ok a. Location map showing injection well(s) for which a permit is sought and the area of review. Within the area of review, the map must show the number/name and location of all producing wells, injection wells, abandoned wells, dry holes, surface bodies of water, springs, mines (surface and sub-surface), quarries, water wells and other pertinent surface features including residences and roads; faults, known or suspected. Only information of public record is required. As applicable, this map should also show and identify each intake and discharge structure and each waste treatment storage or disposal facility.

ok b. Topographic map, if available (may be combined with a., location map).

ok c. A tabulation of data on all wells within the area of review which penetrate into the proposed receiver. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion, water quality and use, and other relative data.

→ SHOULD BE MORE INFORMATION AVAILABLE THROUGH STATE ENGINEER'S OFFICE, CHEYENNE

ok d. Maps and cross sections indicating the general vertical and lateral limits of all underground sources of water within the area of review, their positions relative to the receiver and the direction of water movement, where known, in each underground source of usable water which may be affected by the proposed injection. Water with 10,000 mg/l or less TDS should be specifically identified.

ok e. Water quality information, including background water quality data.
what about Eadsen + Blair formation water quality ??

ok f. Maps and cross sections detailing the geologic structure of the local area.

ok g. Generalized maps and cross sections illustrating the regional geologic setting.

ok h. Name, description, depth, geology, hydrology and fluid chemistry of the receiver, from available information.

ok i. Operating data, including average and maximum discharge (injection) pressure, and average and maximum daily discharge (injection) rate and volume; dates operation will begin and end; and plans for well abandonment.
→ what about potential for fracturing ??

ok j. Source and the analysis of the chemical, physical, radiological and biological characteristics of discharge (injection) fluids.

Call on this. All you provided was a listing of permitted wells.

More specific information required here

again more details on procedures

N/A

k. Proposed formation testing program to obtain an analysis of the chemical, physical and radiological characteristics of, and other information on the receiver; and proposed stimulation program.

l. Proposed injection procedure.

N/A

m. Construction procedures including a cementing and casing program, logging procedures, deviation checks, and drilling, testing and coring program. Casing and cement used shall be designed for the life expectancy of the well.

Need to discuss your enclosure #5 in regards to WQR+R Chapter XI

n. Schematic or other appropriate drawings of the surface and subsurface construction details of the well.

? nothing submitted

o. Contingency plans to cope with all shut-ins or well failures so as to prevent migration of fluids into any underground source of drinking or otherwise usable water.

p. Plans (including maps) for meeting monitoring requirements, which are (at a minimum):

- The analysis of discharged (injected) fluids with sufficient frequency to yield representative data of their characteristics.
- Installation and use of continuous recording devices to monitor injection pressure, flow rate and volume, and the pressure on the annulus between the tubing and the long string of casing.
- The type, number and location of wells within the area of review to be used to monitor any migration of fluids into and pressure in the underground sources of drinking or otherwise usable water, the parameters to be measured and the frequency of monitoring.

? nothing submitted

q. Certification that the applicant has assured, through appropriate means, the resources necessary to close, plug or abandon the well as required.

r. Methods and procedures for inspection and failure detection.

→

s. Information which shows that the discharge (injection) can be controlled and will not migrate into other formations or to the surface; corrective action proposed for wells in the area of review which penetrate the receiver but are not properly completed or plugged.

N/A

t. Documentation to show that the discharge (injection) will not impair existing water supply sources or rights or be hazardous to public health or eliminate an opportunity to economically recover or store valuable minerals or groundwater in the receiver.

more specific

u. Listing of all State, Federal and other permits needed and status of each.

N/A

v. Relevant Specific Industrial Waste Characterizations (SIC) code(s).

N/A

w. Evaluation of alternative disposal practices and justification that subsurface discharge (injection) is the best alternative.

Nothing Submitted
Permit 7.

Information on fluid pressure, temperature, fracture pressure, and other physical and chemical characteristics of the receiver must be submitted before subsurface discharge (injection) will be authorized.

Well(s) must be constructed according to submitted specifications. Well completion and testing information must be submitted as required or requested by the Administrator.

N/A -8.

Wastes shall be discharged (injected) through tubing with packer set immediately above the discharge (injection) zone. Alternatives to packer may be allowed with written approval of the Administrator.

N/A

9. Well mechanical integrity must be proven (demonstrated) before subsurface discharge (injection) can commence, and at least once every five (5) years thereafter during the life of the well. A well has mechanical integrity if there is no significant leak in the casing, tubing or packer; and there is no significant movement of discharged (injected) fluid into an underground source of usable water through vertical channels adjacent to the well bore. The absence of leaks will be determined by an acceptable pressure test. The absence of significant fluid movement will be determined by the results and interpretation of appropriate geophysical logs(s), such as a cement-bond, temperature, noise or other log, or combination of logs; or another technique acceptable to the Administrator. The results of the initial mechanical integrity testing must be submitted and approved before a subsurface discharge can commence.

Permit

10. Subsurface discharge (injection) may not commence until and unless a GPC permit has been issued by the WQD and permit requirements concerning mechanical integrity testing have been satisfied.

11. Modification pursuant to Section 5 of the Rules and Regulations (Chapter IX) requires the submittal of required information to the Water Quality Division and Division/Department approval before the modification is implemented.

Need this
↓

12. All permit applications shall be signed as follows:

For a corporation: by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;

For a municipality, State, Federal or other public agency: by either a principal executive officer or ranking elected official.

13. Reports:

All reports required by permits and other requested information shall be signed by identified signatories in item 12, above, or by a duly authorized representative of that person.

A person is duly authorized if (1) the authorization is made in writing by a person identified as a signatory in item 7 above; (2) the authorization specifies either an individual or a position having responsibility for the overall operation of the facility or injection; and (3) the written authorization is submitted to the Division Administrator.

If an authorization is no longer accurate, a new authorization must be submitted.

14. Any person signing an application or a report or other submittal certifies as follows:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

read this

Printed name of person signing

Title

Date application signed

Signature of applicant

Information regarding our permit has been compiled in the following pages.

- 1. See application form.
- 2. See application form.
- 3. See application form.
- 4. See application form.

*ok as a generalized area map
but a more detailed map
showing well #'s etc should
be submitted*

5a. See enclosure #1. A base map has been made showing the fill areas where our slurry will be injected into the mine voids. We have also annotated on this map approximate locations of injection holes, monitor holes, water wells, and existing wells in the area.

*Wells should be numbered by area
under that reference can be made
to a specific well.*

5b. See enclosure #1.

5c. See enclosure #2 - The Wyoming State Engineers office has been contacted and a tabulation of existing wells in the area has been enclosed. *No data submitted.*

5d. See enclosure #3 - Cross sections and lithologic units are outlined for the Rock Springs area. The Rock Springs Formation produces the water we will be using. The Ericson and Blair Formations are above and below the Rock Springs Formation respectively. The Ericson Formation has potential for producing usable ground water. The Blair Formation produces little water, which is highly mineralized. Ground water should not be affected in either of these formations since we are recirculating ground water in the Rock Springs Formation.

5e. See enclosure #4 - A water sample was taken in the city of Rock Springs from the Rock Springs Formation and analyzed.

what about cross contamination from rock springs water into Ericson formation - this has not been addressed.

The results of the analyses are in enclosure #4.

5f. See enclosure #3 - Generally, Rock Springs is on the west flank of the Rock Springs uplift. The Rock Springs uplift is an anticlinal structure having an elongated shape and a north trending major axis. Strata on the flanks dip between 3° and 15° toward the adjacent structural lows.

Most ground water in the area is obtained from the Rock Springs, Ericson, or Almond Formations. These formations are composed mainly of fine to medium grained sandstones. The Rock Springs Formation yields from 2 to 600 gpm. (Welder & McGreevey, 1966.)

5i. Hydraulic backfilling utilizes a water slurry to suspend and transport granular fill material into a mine void. In a pumped slurry system, the slurry suspension is transported with high capacity pumps from a centralized plant, through a pipeline, and down the borehole. The system is completely closed from the mixing tank to the injection hole which allows the mixing/pumping plant to be situated at a remote location less sensitive to being disruptive by construction activities while minimizing activity at the injection hole which might be located in downtown Rock Springs. The pumped slurry system is a ~~low pressure~~ ^{low} pressure (for most of the period of filling, the pressure at the injection hole is less than atmospheric), high volume, high velocity system which uses the imparted pumping energy to maintain the fill in suspension and move it long distances.

As with past Bureau of Mines pumped slurry projects in the City of Rock Springs, the source of water for the presently proposed project will most likely be the mines themselves.

Wells will be located to minimize pumping distances and pumping heads while still achieving adequate pumping rates. Ideally, well locations will be in areas where filling is not planned to be done. In any event wells will be situated to take advantage of subsurface geology and mine configurations to prevent slurry from migrating back to the water pumps.

Pressure in the incoming waterline and pressure in the slurry line as it leaves the pump will be monitored. Slurry line pressure at the fill nozzle will be monitored to ensure that no excessive positive pressures are applied to the fill hole and to provide an indication of the onset of complete filling. Because of the sudden drop into the mine, pressures at the nozzle will normally be less than atmospheric. An increase in nozzle pressure indicates that the flow channels for the slurry are being shut off and the hole is close to refusal. Water alone will be run at this point to see if additional flow channels can be opened. As complete filling is approached alternate pumping of slurry and water until positive pressures can no longer be reduced will ensure that voids are filled as completely as possible. The plant itself should be equipped with a bypass to allow the mixing tank to be taken out of the system so that water alone can be pumped.

The slurry plants are being designed to pump 400 tons/hr., this translates into pumping approximately 4000 gal/min. of water. At this rate, with two separate plants, drawing water from two different coal seams, we roughly estimate the project to run from mid April through mid September or October 1985.

5j. No chemical, physical, radiological or biological impuri-

ties will be injected into the mine voids. Water from the mine will be pumped to the surface mixed with an inert sand to create a slurry mixture and pumped back underground. The sand itself is chemically stable and will not endanger the aquifer. The water from the mine will be recirculated, consequently, the chance of contaminating the ground water is very remote.

5l. See section 5i above.

5n. See enclosure #5.

5p.(3) As seen from the base map (enclosure #1) three to four monitor holes per injection hole will be used to monitor the migration of the sand slurry.

Hard to determine which monitor well will be used with each injection well — will all wells be in place prior to 1985

5s. Migration of the sand slurry will be limited to the injection ?? designated fill areas within the city. Migration of this slurry will be monitored through the monitoring boreholes with the aid of a downhole video camera. Once backfilling of the designated areas is complete the slurry system will be shut down or moved to another site. Migration of mine water will be limited to the existing mine water pool and its normal flow patterns.

5u. See enclosure #6 - Most of the permits in Enclosure #6 will be obtained in the name of the construction contractor. Information required to complete the application forms is currently being collected.

Maja Item - Contractor must be aware of what he is being permitted for.

8-23-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 21, 1984

Mr. David Groy
Gordson & Associates, Inc.
11949 West Colfax Ave.
Denver, CO 80215

RE: GPC 84-393, Rock Springs Backfilling Project

Dear Mr. Groy:

I called your office on Friday, August 10, 1984 and indicated that the preliminary Groundwater Pollution Control Permit application for the Rock Springs Backfilling Project was incomplete and therefore I needed to contact either you or Mr. Rich Moore. I was informed that a return call would be made as soon as either of you returned to Denver. Please be advised that a final review cannot be made unless a complete application is submitted.

One outstanding problem to date is the lack of a listed permittee. Normally, the responsible party to whom a permit of this nature is issued would be a major corporation, city or town, not an individual contractor. The permittee thus assumes responsibility that the conditions of the permit are adhered to. If your contractor desires that the permit be in his name then that contractor must be made aware of the requirements of such a permit and submit the application under his signature.

A review of the remaining material indicates other shortcomings which should be discussed prior to any additional drafts being submitted.

Please feel free to contact the undersigned at (307) 777-7781.

Sincerely,


Richard J. Lennox
Engineering Evaluator

RJL/nc

cc: A. J. Mancini
File

MEMORANDUM

TO: File

FROM: R. J. Lennox, Engineering Evaluator 

DATE: August 13, 1984

SUBJECT: Rock Springs Backfilling Project, Sweetwater Co., GPC 84-393

1. I telephoned the consulting engineer, Goodson & Associates Inc., on Friday, August 10, 1984 and indicated that the application was not complete.
2. Points-of-contact noted in application were not in office (Rich Moore and/or David Groy), therefore, I left message for either Mr. Moore or Mr. Groy to contact me week of August 13th.

cc: A. J. Mancini
Norma Coulson

8-21-84

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 84-395
SEE CONDITIONS ATTACHED TO THIS PERMIT

Hansen Federal A#1
(Name of Facility)

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

Phillips Oil Co.

P.O. Box 2920

Casper, WY 82602

to construct, install, or modify a drilling fluid reserve pit facility according to the procedures and conditions of the application No. 84-395. The facility is located in NW1/4 NE1/4 Section 12, T45N, R97W in the County of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of one year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

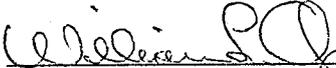
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

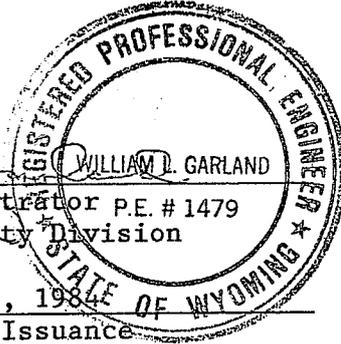
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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.

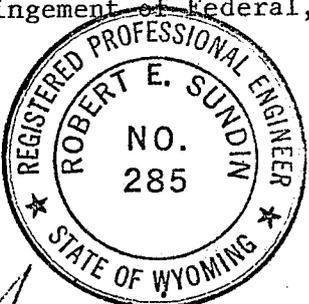
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 17, 1984
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: BLM
P.O. Box 665
Worland, WY 82401

This permit authorizes you to dispose of 189,000 gallons of drilling fluid wastewater on the adjoining 4 miles of road, a total liquid application of 0.72 inches.

CONDITIONS TO PERMIT TO CONSTRUCT #84-395

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

8-2-87

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-396
SEE CONDITIONS ATTACHED TO THIS PERMIT

West Gibson Draw Fed. B-1
(Name of Facility)

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

Phillips Petroleum Co.

P.O. Box 2920

Casper, WY 82602

to construct, install, or modify a drilling fluid reserve pit facility according to the procedures and conditions of the application No. 84-396. The facility is located in NE1/4 NE1/4 Section 12, T40N, R70W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of one year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

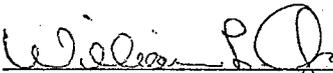
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

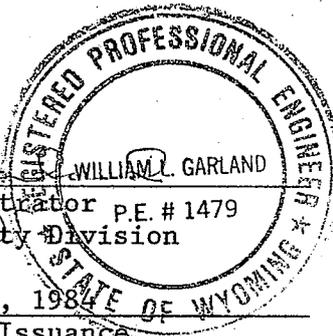
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

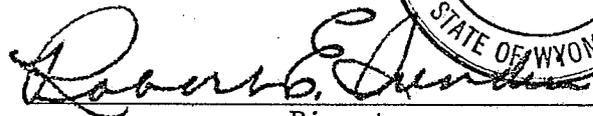
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

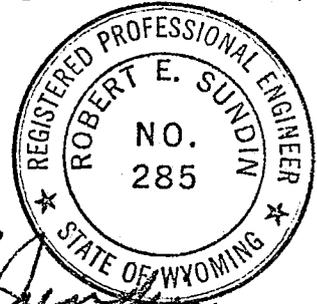
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 17, 1984
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Dick Bennin
U.S. Forest Service
809 South 9th Street
Douglas, WY 82633

This permit authorizes you to dispose of 294,000 gallons of drilling fluid wastewater on the adjoining 5 miles of road, a total liquid application of 0.89 inches.

CONDITIONS TO PERMIT TO CONSTRUCT #84-396

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

8-21-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-397
SEE CONDITIONS ATTACHED TO THIS PERMIT

Woody Creek Federal A#1
(Name of Facility)

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

Phillips Oil Co.

P.O. Box 2920

Casper, WY 82602

to construct, install, or modify a drilling fluid reserve pit facility according to the procedures and conditions of the application No. 84-397. The facility is located in NE1/4 SE1/4 Section 3, T39N, R70W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of one year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

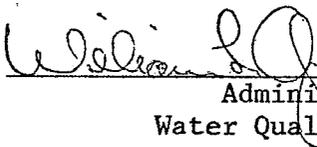
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

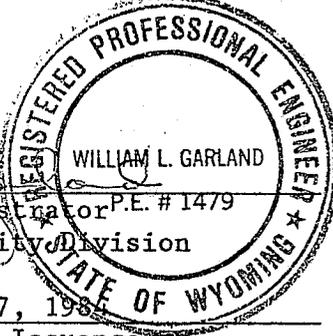
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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.

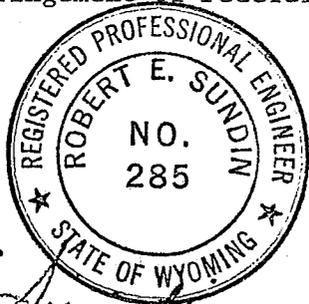
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 17, 1985
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Dick Bennin
U.S. Forest Service
809 South 9th Street
Douglas, WY 82633

This permit authorizes you to dispose of 462,000 gallons of drilling fluid wastewater on the adjoining 6 miles of road, a total liquid application of 1.17 inches.

CONDITIONS TO PERMIT TO CONSTRUCT #84-397

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-398
 Ref. No. 79-34R
 SEE SPECIAL CONDITION

Harvey Beilgard 4-Plex, Wastewater Treatment System
 (Name of Facility)

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

Harvey Beilgard
2800 Wolff Road, Apt. A
Gillette, WY 82716

to construct, install, or modify a soil absorption system facility according to the procedures and conditions of the application No. 84-398. The facility is located in Section 24, T49N, R72W in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

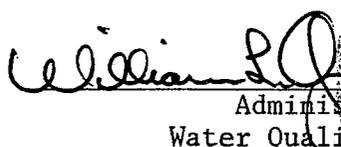
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

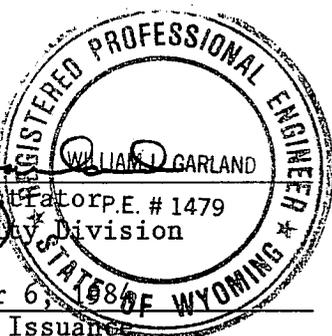
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

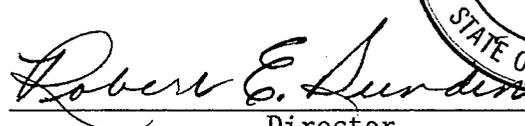
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

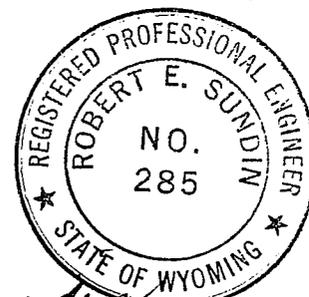
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM J. GARLAND
Administrator P.E. # 1479
Water Quality Division
September 6, 1988
Date of Issuance




Director
Dept. of Environmental Quality



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

Condition to Permit to Construct

The permittee shall notify the Campbell County Engineers 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:

Bill Flaherty
Campbell County Engineer
500 South Gillette Ave.
Gillette, WY 82716
Telephone: 682-1970

cc: Haug Engineering & Surveying
c/o Quality Services, Inc.
P.O. Box 2848
Gillette, WY 82716

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

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

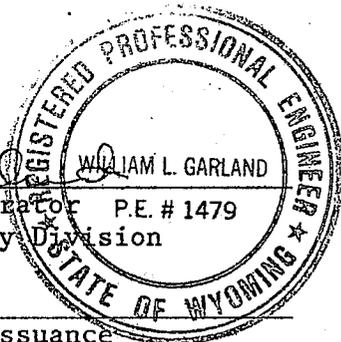
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

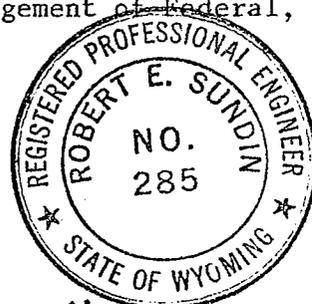
William L. Garland

Administrator P.E. # 1479
Water Quality Division



Robert E. Sundin

Director
Dept. of Environmental Quality



August 16, 1984

Date of Issuance

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

EB:dcn

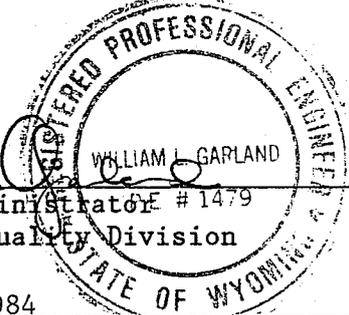
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

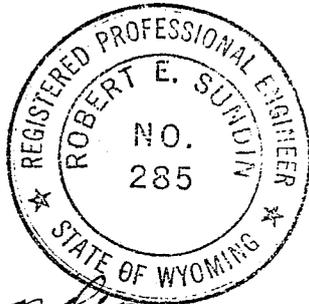
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


William J. Garland

Administrator # 1479
Water Quality Division
STATE OF WYOMING


Robert E. Sundin

Director
Dept. of Environmental Quality

September 18, 1984
Date of Issuance

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

* CONDITIONS ON PERMIT *

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

1. 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 City of Evanston's wastewater system.

The facility authorized by this permit can be operated until the City's system is made available. At that time, the facility must be abandoned and connection made to Evanston's system.

2. The permittee shall notify the Uinta County Sanitarian of the day construction is scheduled to commence and the estimated completion date of the project. Final inspection of the installed system is required before backfilling.

William Cates, the Uinta County Sanitarian, can be contacted at the Uinta County Annex in Evanston or by calling 789-9387.

JH:dcn

MEMORANDUM

TO: Plans #84-400
FROM: Jeff Hermansky *Jeff*
DATE: September 10, 1984
SUBJECT: Phone Review

On September 10, 1984, I conducted a phone review of Denny's Oilfield Rentals on-site facility with Lynn Schrauth of Uinta Engineering.

I made the following comments to Lynn:

1. The leach gravel in the proposed seepage pit must be between $\frac{1}{2}$ and $2\frac{1}{2}$ inches. Rocks up to 12 inches, as specified, are not permitted.
2. There must be a cleanout in any bend in the sewer line from the building to the septic tank.
3. What material is the sewer pipe to be?
4. The pipe in and out of the septic tank must be either cast iron or schedule 40 PVC.
5. How is the leach pit to be protected from parking or traffic?

JH:dcn

C