

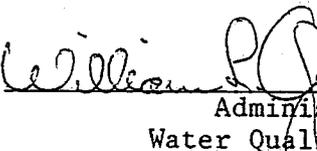
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

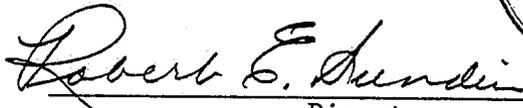
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


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


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

Director
Dept. of Environmental Quality

June 17, 1985
Date of Issuance

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

cc: Doyl Fritz
Western Water Consultants
2 North Main
Sheridan, WY 82801

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Antelope Coal Mine Sediment
Containment Ponds SCP-32 and SCP-33

ARCHITECT OR ENGINEER: Doyl Fritz
Western Water Consultants
2 North Main
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBERS: 85-285 and 85-301

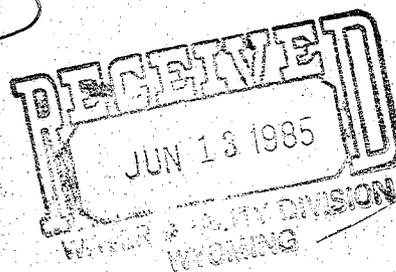
REVIEWING ENGINEER: Rich Ruyle

DATE OF REVIEW: June 11, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) Chapter XI of our regulations requires that sediment control facilities larger than 2 acre-feet have a spillway capable of passing the 25 year flood event. SCP-32 falls into this category. Please provide details of the spillway.
- 2.) Documentation is needed that the mine has the necessary equipment available for draining the ponds preceeding a storm event.



7-2

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 85-302R
SEE CONDITION ON BACK

MA 14542

Wyoming Law Enforcement Academy Driving Course Building
(Name of Facility)

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

State of Wyoming/DAFC

ATTN: Ed Samuelson

Emerson Building

Cheyenne, WY 82002

to construct, install, or modify a commercial subsurface treatment and disposal system facility according to the procedures and conditions of the application No. 85-302R. The facility is located in Section 6, T32N, R71W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

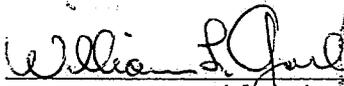
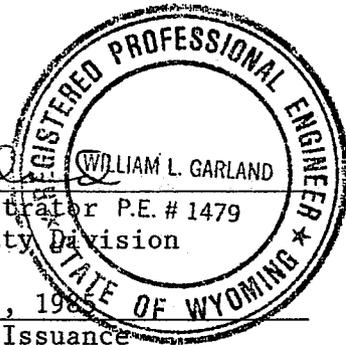
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

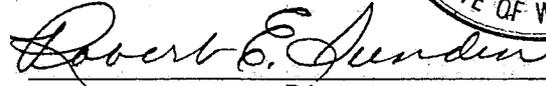
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



 WILLIAM L. GARLAND
 Administrator P.E. # 1479
 Water Quality Division
 June 27, 1985
 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 #85-302R

The permittee shall notify Debbi Standard, County Sanitarian, Converse County Health Department, 127 North 5th Street, Douglas, WY 82633, phone 358-2536, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: John Parks
 McFall-Konkel & Kimball
 500 E. 18th
 Cheyenne, WY 82001

Debbie Standard

Review of Plans and Specifications

Binder

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Wyoming Law Enforcement Academy Driving Course Building

ARCHITECT OR ENGINEER: John Parks, McFall-Konkel & Kimball
500 East 18th, Cheyenne, WY 82001

APPLICANT: State of Wyoming, DAFC
Emerson Building, Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 85-302

REVIEWING ENGINEER: Thomas S. Norman, Water Quality Engineer

TSN

DATE OF REVIEW: June 11, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans were not signed/sealed by a Wyoming registered professional engineer. Three copies of plans are required.
2. What is the percolation rate at the new location?

9-23-85



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 18, 1985

Husky RMT Properties, Inc.
6060 South Willow Drive
Englewood, CO 80111

RE: Permit to Construct #85-303 and #85-453

Gentlemen:

Enclosed please find the corrected permits to construct for projects #85-303 and #85-453. The permits previously sent you should be destroyed as it has been brought to our attention that the permits should have been issued to RMT Properties, Inc. and not Mr. Kirksey. We hope this has not caused you any inconvenience.

Sincerely,

A handwritten signature in cursive script, appearing to read "LeRoy C. Feusner".

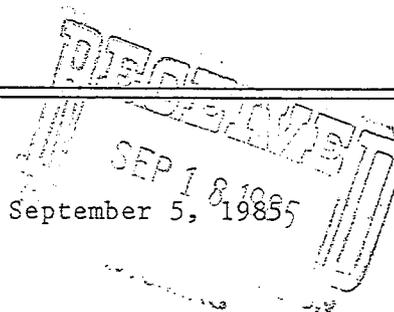
LeRoy C. Feusner, P.E.
Southeast District Engineer

LCF/nc
Enclosures



RMT Properties Inc.

6060 South Willow Drive
Englewood, Colorado 80111
(303) 850-1100



Mr. William L. Garland
Director, Water Quality Division
Department of Environmental Quality
1111 East Lincoln Way
Cheyenne, Wyoming 82002

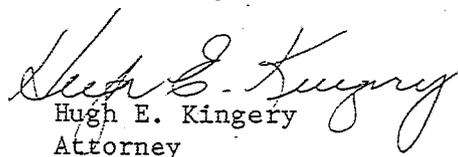
Dear Mr. Garland:

Re: Permits to Construct 85-303; 85-453

The Department has issued the above two permits to construct to "Bill G. Kirksey" as applicant. It further identifies Mr. Kirksey as affiliated with "Husky RMT Properties, Inc." Since this is a responsibility of the company, and not a personal obligation, we request that you amend the permits to issue them to "RMT Properties Inc."

Thanks for your cooperation.

Yours truly,


Hugh E. Kingery
Attorney

HEK/lb

PERMIT TO CONSTRUCT

New (CORRECTED)

Renewal

Modified

Permit No. 85-303
SEE CONDITIONS ATTACHED

MA 14542

Casper Husky Travel Center
(Name of Facility)

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

RMT Properties, Inc.

6060 S. Willow Dr.

Englewood, CO 80111

to construct, install, or modify a groundwater and subsurface hydrocarbon monitoring network facility according to the procedures and conditions of the application No. 85-303. The facility is located in Section 1, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

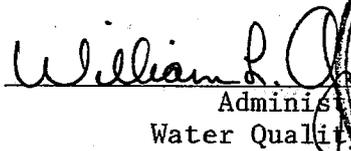
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

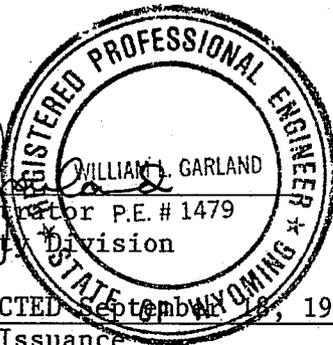
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



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




Director
Dept. of Environmental Quality

June 17, 1985 (CORRECTED September 18, 1985)
Date of Issuance

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

- cc: Robert Juncal, Groundwater Technology, 5047 Clayton Road, Concord, CA 95421
- LeRoy Feusner, DEQ/WQD, Cheyenne
- Tom Williams, DEQ/WQD, Cheyenne

Conditions to Permit to Construct #85-303

1. A deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Wyoming Water Quality Division Rules and Regulations, Chapter XI, Section 65. However, a sufficient seal must be installed according to normal engineering practice.
2. Upon completion of the monitoring wells and sufficient time for the groundwater to reach equilibrium, groundwater samples must be collected to determine the full extent to contamination. Prior to sampling, depth to fluid and hydrocarbon thickness measurements must be taken. The initial groundwater sample should be collected at the water table prior to purging the well. A minimum of three to five casing volumes of water should then be removed from the well and another sample taken.
3. Both groundwater samples from each sampled well must be analyzed for the following list of parameters:
 - a. Cation-anion balance
 - b. Total organic carbon
 - c. Total lead
 - d. Tetraethyl lead
 - e. Purgeable aromatic compounds using EPA 601 method:
 - (1) Benzene
 - (2) Chlorobenzene
 - (3) 1,2-Dichlorobenzene
 - (4) 1,3-Dichlorobenzene
 - (5) 1,4-Dichlorobenzene
 - (6) Ethylbenzene
 - (7) Toluene
4. Within 30 days of obtaining the groundwater sampling results, a report must be submitted to the Wyoming Department of Environmental Quality, Water Quality Division, documenting the amount and extent of subsurface hydrocarbon contamination. This report must also address remedial measures for groundwater cleanup and a compliance schedule to achieve total cleanup.
5. The applicant is authorized to construct and install additional groundwater monitoring wells associated with the Husky Travel Center, Casper, Wyoming, system. Exact monitoring well location details shall be submitted to the Groundwater Section, Water Quality Division, Wyoming Department of Environmental Quality, Herschler Building, 4 West, Cheyenne, Wyoming 82002, within 15 days of the final installation.
6. Monthly monitoring/progress reports shall be submitted to the Groundwater Section, Water Quality Division, beginning in July 1985. These reports shall include groundwater quality sample analyses indicated in paragraph 2 and 3 above. Monthly samples shall be collected until notification is received from the Water Quality Division which terminates the sampling requirement.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-304
 Reference Laramie County Permit #1042

MA 14542

Camp Carefree
 (Name of Facility)

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

Wyoming Girl Scout Council

3001 Henderson Drive

Cheyenne, WY 82001

to construct, install, or modify a small septic system facility according to the procedures and conditions of the application No. 85-304. The facility is located in Section 9, 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.

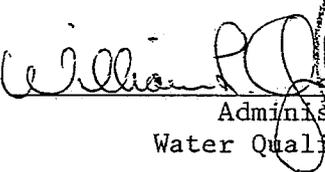
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

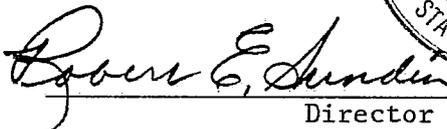
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Administrator
Water Quality Division

June 20, 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.

cc: Donald Kramer
Centrac Associates, Inc.
2811 Central Avenue
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-305
SEE CONDITION ON BACK OF PERMIT

MA 14542

Casper Well Facilities (Morad #4, #5, #6)
(Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify a municipal water well and transmission facility according to the procedures and conditions of the application No. 85-305. The facility is located in Section 18, 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.

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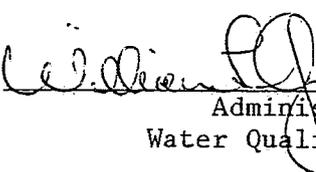
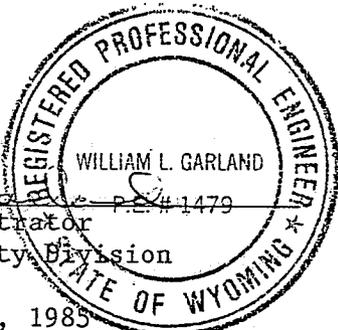
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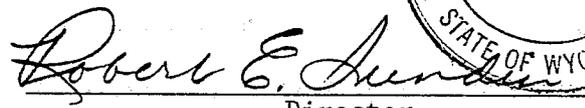
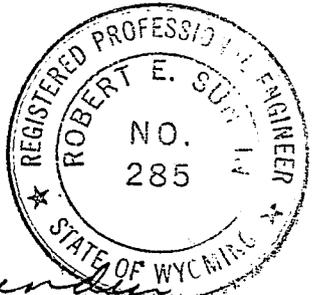
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:


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



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


June 14, 1985
Date of Issuance

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

cc: Keith E. Anderson
P.O. Box 29
Laramie, WY 82070

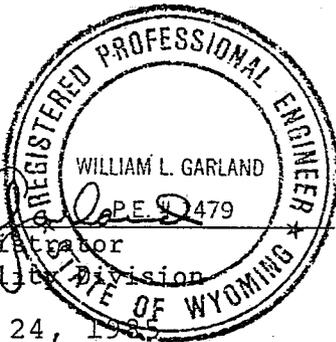
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

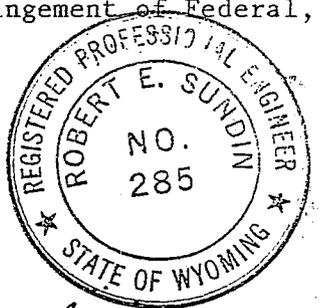
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
WILLIAM L. GARLAND
P.E. 479
Administrator
Water Quality Division
STATE OF WYOMING


Robert E. Sundin
Director
Dept. of Environmental Quality

July 24, 1985
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

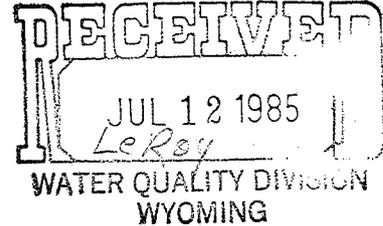
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Pinedale Highway Complex

ENGINEER: Rick Johnston
Gust & Johnston
2232 Del Range, Suite 203
Cheyenne, WY 82009

OWNER: Wyoming Highway Department
5360 Bishop Blvd.
Cheyenne, WY 82002-9019



WATER QUALITY DIVISION REFERENCE NUMBER: 85-306

REVIEWING ENGINEER: Bill Locke *BL*

DATE OF REVIEW: July 3, 1985

ACTION: Not authorized.

COMMENTS:

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

1. More information is needed on the spacing, stationing, invert elevations and rim elevations of the manholes.
2. No pipe bedding is specified for the interceptor line. Bedding should meet ASTM D2321-74 types I, II or III specifications.
3. A letter of acceptance is required from the Town of Pinedale stating that they will include this new interceptor into the municipal system and that the Town treatment facility is capable of treating the increased flow.

BL/jw

AC

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-307R

DATE SUBMITTED FOR REVIEW 10/23/85

NAME AND LOCATION OF FACILITY Manville Sewage lagoons
Manville, Niobrara Co.
Wyoming

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

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

SIGNED Matt Langerfeld

AJ Mancini, PE

TITLE Groundwater Compliance Specialist

DATE 11/14/85

ACCEPTED FOR RECORD 11/18/85
(Date)

AJM
Groundwater Control Supervisor

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Rich Ruyle, Northeast District Supervisor

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

DATE: November 14, 1985

SUBJECT: Review of Liner Specifications and Monitoring for the Manville Sewage Lagoons, #85-307R

A minimum of 6" of a bentonite soil liner is necessary for the 2 Manville sewage lagoons at a seepage rate of .039 in/day with a 2 foot head. Measures shall be taken to ensure that the liner is spread evenly and mixed homogenously. Minimum compaction requirements and standards have not been finalized by the applicant. Field testing of the permeability of the clay liner in both lagoons shall be conducted to demonstrate the actual seepage rate and shall meet a minimum rate of .039 in/day. The barrel test is suggested to demonstrate the effectiveness of the liner.

In addition another monitor well is required to be installed approximately 40 feet to the east of test hole #7. This well will provide additional water quality data and static water levels.

Background water quality shall be established prior to the introduction of any sewage into the lagoons. The groundwater section prefers and strives for 4 sets of background water quality data quarterly for 1 year. At a minimum 2 sets of background water quality data will be taken from each well separated by 1 month. One set of background water quality data has been received by the groundwater section for monitor wells #1 and #2. At a minimum, one more set of background water quality data is required from these wells along with 2 sets of data from the monitor well to be installed. Easement may be necessary to place this well in an approved location. If the background water quality data does not correlate, additional background data may be required.

This new monitor well will require a permit to construct prior to construction. Enclosed are application forms to be submitted to the Water Quality Division in triplicate. Complete construction specifications and details shall be included. If the monitor wells indicate contamination of the groundwater in the future, a thicker liner may be required. Additional monitor wells may always be required.

The background parameters to be tested for are as follows:

Background water quality parameters for monitor wells #1-#3

Calcium	Ammonia	Iron
Magnesium	Nitrate-Nitrite	Lead
Sodium	Nitrite	Manganese
Potassium	Phenols	Mercury
Total Cations	TDS (ROE)	Nickel
Bicarbonate	Oil & grease	Selenium
Sulfate	Arsenic	Silver
Chloride	Barium	Zinc
Nitrate	Cadmium	Static Water Level
Fluoride	Cromium	
Total Anions	Copper	

A reduced list of operational parameters will be determined by the groundwater section upon receipt of the complete background water quality data. These monitor wells will then be monitored quarterly in March, June, September, and December. All analytical results are due within 30 days of the end of each sampling period. It is suggested that samples be obtained during the first week of each sampling period, so that the quarterly deadline can be met. Approved groundwater sampling techniques should be followed.

ML/nc

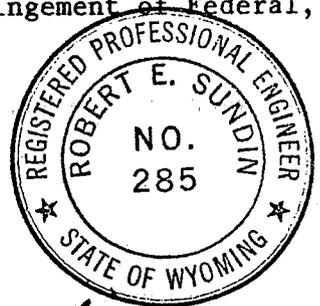
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

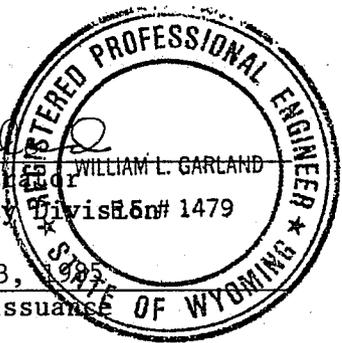
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:




William L. Garland

Administrator
Water Quality Division # 1479
August 13, 1985

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

CONDITION

The permittee will provide the Department of Environmental Quality with the hydrogeological data obtained during construction of the monitoring well(s) in order that a determination can be made on the final requirements of the lagoon liner. The liner will be constructed to the specifications decided upon at that time.

xc: Wells Engineers, Inc.
P.O. Box 554
Gering, Nebraska 69341

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-307

DATE SUBMITTED FOR REVIEW 7-15-85

NAME AND LOCATION OF FACILITY TOWN OF MANVILLE
WWTF
NIOBARA CO.

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

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

SIGNED Richard Leanne
TITLE Eng. Eval
DATE 7-31-85

ACCEPTED FOR RECORD 7/31/85
(Date)

gjm
Groundwater Control Supervisor



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

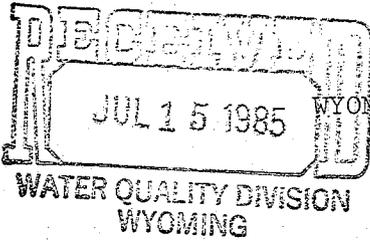
TO: Rich Ruyle, District Engineer

FROM: R. J. Lennox, Groundwater Section Engineering Evaluator 

DATE: July 31, 1985

SUBJECT: Town of Manville WWTF - 85-307

1. I have reviewed the subject submittal for groundwater concerns and have the following comments:
 - a. Recommend that locations for monitor wells be determined based on depth to groundwater and direction of groundwater flow. From the topographic elevations presented it would appear that a monitor well should be placed at the northeast corner of lagoon No. 2.
 - b. The percolation rate presented in the specification of .054 in/day will meet the maximum allowable seepage rate of 1/8 in/day. However, since documentation has not been presented concerning the degree of groundwater protection required the applicant should proceed with plans for installing a liner that meets the equivalent of three feet (1m) of soil having a permeability of 10^{-7} cm/sec or less.
 - c. The proposed construction for the groundwater monitor wells as presented on sheet 8 of 10 is considered excellent.
 - d. Based on a review of the State Engineers well study which show three wells in T32N, R65W, Section 12 (location of lagoons) with static water levels ranging between 40 and 70 feet. It is recommended that the depth of the monitor wells be at a minimum 50 feet.



REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Manville
Wastewater Treatment Facility

ARCHITECT OR ENGINEER: Bill Moran
Wells Engineers, Inc.
P.O. Box 554
Gering, Nebraska 69341

WATER QUALITY DIVISION
REFERENCE NUMBER: 85-307

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: July 10, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) Line G should have a slope of at least 0.60% rather than the 0.50% shown on the plans.
- 2.) If new service connections are to be installed, the appropriate detail drawing should be included.
- 3.) The allowable leakage rate for the force main should be 10 gal/diameter inch/mile of pipe/day rather than the 20 gal. listed in Section 16.12 of the specifications. The lower rate is in accordance with AWWA Standard C600 if the test pressure is 100 psi.
- 4.) The location of thrust blocks to be used on the force main should be included in the drawings or specifications.
- 5.) Verification must be provided that a portable blower is available to vent the wet well during access.
- 6.) The influent pipe in the influent manhole to the lagoon must be at least six inches above the normal operating level of the primary cell. If the high water level of the lagoon gets up to three feet, the invert of the inlet pipe should actually be at about 81.8 rather than 79.90.
- 7.) I have not heard from our groundwater section on their comments. It is understood from your letter to Dick Lennox on July 2, 1985, that the proposed minimum seepage rate from the lagoon is .054 in/day.

xc: Dick Lennox



THE STATE

OF WYOMING



Department of Environmental Quality

Air Quality Division
2161 Coffeen, Suite 501
Sheridan, Wyoming 82801
(307) 672-6457

Water Quality Division
2161 Coffeen, Annex
Sheridan, Wyoming 82801
(307) 672-6457

May 8, 1990

Gerald Faudel
Frontier Refining, Inc.
2700 East 5th Street
Cheyenne, WY 82003

RE: WQD Permits Nos. 85-308, 85-453, 87-100, and 88-33ORR;
Groundwater Assessment and Remediation Systems;
Cheyenne Frontier Refinery Facility;
Laramie County, Wyoming

Dear Mr. Faudel:

The DEQ/WQD has reviewed the existing permits involving groundwater remediation and/or monitoring activities at the facility referenced above. A copy of WQD Permit Nos. 85-308 and 85-453 have been enclosed for your reference. The monitoring conditions established in these permits have not been satisfied to date and may, in some cases, be invalid for satisfying the current environmental compliance requirements for this facility. DEQ personnel would be delighted to assist you in revising the monitoring activities at this facility.

According to DEQ records, Conditions #1 and 2 of WQD Permit No. 87-100 have not been satisfied. Please submit this information or detail otherwise. A copy of this permit has also been enclosed for your reference.

Enclosed is your original permit application for a groundwater restoration system (WQD Permit No. 88-33ORR) at Frontier Refinery. According to recent activities, this WQD permit is no longer necessary and the application has been withdrawn.

Your continued cooperation will be appreciated. If you have additional questions or comments, please do not hesitate to contact me at (307) 672-6457.

Sincerely,

Edith L. Johnson
Groundwater Engineering Evaluator
Water Quality Division

cc: Jake Strohmman, DEQ Cheyenne
Steve Jones, AG Office
Patti Burns, IPS

10-30



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: File: Husky, Cheyenne Refinery
FROM: Phil Pucel *Phil*
DATE: October 24, 1985
SUBJECT: Eastern API Separator, #85-308

On October 23, Bill Payne showed Chris Norman and me the recent work completed on the API Separator. A trench had been excavated and attempts made to repair cracks with grout. The product bled through the grout. A fiberglass seal was tried and at least one of these patches was leaking again. The north side of the separator contained numerous cracks leaking product. The exposed condition of the separator suggests that leaks exist in the bottom of the separator as well. Bill Payne said that complete repairs would have to be performed on the inside of the separator. Since the unit does not have enough capacity to allow shut-down of half of the separator for repairs, it appears that repairs may be infeasible.

When this items was mentioned to LeRoy Feusner, he suggested that a portable separator be used so that repairs could be made. It may not be acceptable to allow the leakage to continue for an extended period of time until the new wastewater treatment plant is operational.

PP/nc

9-17



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 13, 1985

Mr. Bill Payne
Husky-RMT
P.O. Box 1588
Cheyenne, WY 82003

RE: DEQ/WQD Permit #85-308

Dear Mr. Payne:

In order to confirm our phone conversation of September 11, 1985, I will list your proposed schedule of activities for pond removal and wastewater treatment plant construction. The conversation also touched on the progress of the oil recovery system design, the groundwater quality analyses, and the contents of the annual report.

Proposed Schedule for Pond Removal and Construction of the Wastewater Treatment Plant

By November 8 or 23, 1985, Husky will submit a closure application for the pond system to EPA.

By December 1, 1985, the scope of the work plan will be formulated and submitted to Husky by a contractor. This report will address various means of reducing wastestream flow rates, implementing upstream treatment processes, and treating the combined wastestreams which are now handled by the pond system.

By January 1, 1986, Husky will select another contractor to review the scope and perform the initial design of the facilities.

By February 8 or 23, 1986, the EPA review of the closure application is due.

By March 1, 1986, Husky will stop receiving hazardous wastes.

By May 8 or 23, 1986, Husky's response to the anticipated Notice of Deficiency is due.

By August 1, 1986, EPA approval of the closure plan is anticipated.

By September 1, 1986, blueprints for the wastewater treatment facility will be submitted to Husky.

By October 1, 1986, Husky will submit an application for a permit to construct the new facilities to DEQ/WQD.

Mr. Bill Payne
September 13, 1985
Page 2

February 1, 1987 is the earliest possible construction startup date.

By September 1, 1987, construction of new facilities will be completed.

By November 1, 1987, the new facilities will be operational.

By November 1, 1988, the pond system will be dewatered and all contents disposed.

Oil Recovery System

Husky will be submitting the formal application within a few weeks. The main items of concern with the preliminary submittal are the locations of piezometers to be used to monitor the cones of depression, the areas of known oil accumulations which have not been addressed, and the report on the adequacy and usefulness of the pilot system. Detailed comments from WQD are nearly complete and will be sent out the week of September 16, 1985.

Groundwater Quality Analyses

Data from this summer's sampling has been received by Husky and is undergoing evaluation by both Husky and Engineering Enterprises' staff. This information plus data on the solid waste analyses will be submitted by Husky at a meeting to be held within the next few weeks.

Annual Report

According to the Consent Decree, "RMT will perform an annual evaluation of the data in regards to the:

1. The adequacy of the oil recovery and aquifer restoration system.
2. Progress of groundwater clean-up.
3. Significant changes in water quality characteristics on a well-by-well basis.
4. Mitigation of point sources of contamination.

These factors may necessitate modifications in the monitoring program in terms of adding or deleting parameters and in terms of altering sampling frequency. DEQ will review RMT's recommendations and evaluate the site remedial action progress prior to authorizing modifications.

Data, system evaluations, potentiometric surface maps, product thickness maps, well location maps, and iso-concentration maps will be submitted to DEQ as they become available."

Recent groundwater quality data, evaluations of the data, pilot oil recovery system evaluations, solid waste analytical data, and reports on the following items should all be incorporated into the annual report:

Mr. Bill Payne
September 13, 1985
Page 3

1. Construction activities related to water and spilled product management.
2. The removal of underground storage tanks.
3. The replacement of defective pipelines and sewers.
4. The volumes of product and wastewater recovered by vacuum trucks
5. Flood damage assessment and repairs.

In addition, a summary should be made of the legal proceedings and related meetings which bear on changes to the Consent Decree.

Please provide all corrections to the contents of this letter as soon as possible.

Sincerely,



Phil Pucel
Groundwater Engineering Evaluator

PP/nc

cc: William L. Garland
Jake Strohman
A. J. Mancini
Marion Yoder

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-308
 SEE CONDITIONS ATTACHED
 MA 14542

RMT Properties, Inc. Cheyenne Refinery
 (Name of Facility)

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

William D. Payne

RMT Properties, Inc.

P.O. Box 1588

Cheyenne, WY 82003

to construct, install, or modify oil/groundwater monitoring well network according to the procedures and conditions of the application No. 85-308. The facility is located in Section 4, T13N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

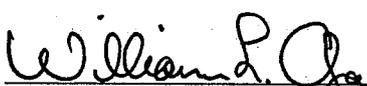
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

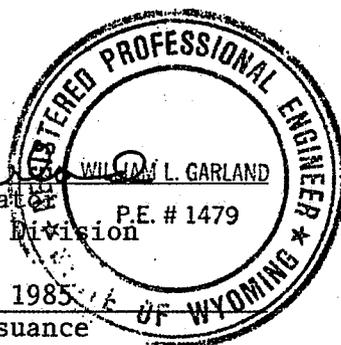
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

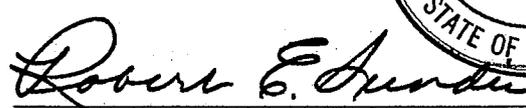
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

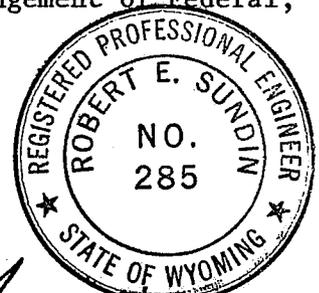
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrative
Water Quality Division
August 12, 1985
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Jerry Smith, RMT Properties, P.O. Box 1588, Cheyenne, WY 82003
A. J. Mancini, DEQ/WQD
Phil Pucel, DEQ/WQD
Marion Yoder, Attorney General's Office

Conditions to Permit to Construct #85-308

1. This permit authorizes existing oil/groundwater monitoring wells:

EEI #1	EEI #17	EEI #39	CCA-1	DM-1-81	DM-15S-83	DM-23S-83
EEI #2	EEI #18	EEI #40	CCA-2	DM-2-81	DM-15I-83	DM-23I-83
EEI #3	EEI #19	EEI #41	CCA-3	DM-3-81	DM-15D-83	DM-23D-83
EEI #4	EEI #20	EEI #42	CCA-4	DM-4-81	DM-15A-83	DM-24S-83
EEI #5	EEI #21	EEI #44	CCA-5	DM-5-81	DM-15B-83	DM-24IS-83
EEI #6	EEI #28	EEI #45	CCA-6	DM-6-83	DM-16-83	DM-24I-83
EEI #7	EEI #29	EEI #46		DM-7-83	DM-17-83	DM-24D-83
EEI #8	EEI #30	EEI #51		DM-8-83	DM-18-83	DM-24A-83
EEI #9	EEI #31	EEI #52		DM-9-83	DM-19-83	DM-24B-83
EEI #10	EEI #32	EEI #54		DM-10-83	DM-20-83	DM-25S-83
EEI #11	EEI #33	EEI #55		DM-11-83	DM-21S-83	DM-25I-83
EEI #12	EEI #34	EEI #56		DM-12-83	DM-21I-83	DM-25D-83
EEI #13	EEI #35	EEI #57		DM-13-83	DM-21D-83	B-2-83
EEI #14	EEI #36	EEI #58		DM-14-83	DM-22-83	B-3-83
EEI #15	EEI #37	EEI #59				
EEI #16	EEI #38					

2. The applicant is authorized to construct and install additional groundwater monitoring wells associated with the RMT Properties, Inc., Cheyenne Refinery. A map detailing exact monitoring well locations shall be provided to the Groundwater Section, Department of Environmental Quality, Water Quality Division, Herschler Building, Cheyenne, Wyoming 82002, within 15 days following well completion.
3. Quarterly monitoring/progress reports shall be submitted to the Groundwater Section, Department of Environmental Quality, Water Quality Division, beginning with the third quarter 1985. These reports shall include groundwater quality sample analyses which completely characterize hydrocarbon/groundwater quality. Parameters shall include: static water level, hydrocarbon thickness, pH, TDS, oil and grease, TOC, chlorides, sulfates, phenol, lead, total chromium, vanadium, cadmium, arsenic, barium, zinc, and sodium. Periodic complete organic analyses (GC/MS) will be required by the Water Quality Division on selected wells. Results of these quarterly monitoring samples shall be forwarded within 20 days following the end of each quarterly monitoring period.
4. A water quality trend analysis report of all data, including:
- updated oil thickness maps and iso-concentration maps of any indicator analytical parameters which show significant water quality impact;
 - statistical and graphic treatment of water quality data, and
 - a written summary of the refinery site cleanup status
- shall be submitted semiannually to the Groundwater Section, Department of Environmental Quality, Water Quality Division, Herschler Building, Cheyenne, Wyoming 82002, beginning in December 1985. This report may be submitted as part of a quarterly report required under Condition 2 above.
5. Depending upon interpretation of the quarterly monitoring data by the Water Quality Division, the applicant may be required to extend the hydrocarbon investigation study and any associated hydrocarbon removal system beyond the existing limits of this authorized system. Additionally, the list of monitoring parameters may be modified to reflect sampling results.

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 85-308

Date Submitted For Review June 11 1985

Name and Location of Facility RMT PROPERTIES INC

Cheyenne

Sec 4 T.13N R.66W Laramie 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 Puel

Title Engr

Date Aug 6 1985

Approved 8/6/85
(Date)

QJM
(Signed)
Groundwater Control Supervisor



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: LeRoy Feusner
FROM: Phil Pucel *Phil*
DATE: July 30, 1985
SUBJECT: RMT Properties, Inc., Application for a Permit to Construct Groundwater Monitoring Wells, #85-308

Introduction

Application #85-308 was submitted by Husky/RMT Properties, Inc. at the request of the groundwater section in order to consolidate under one permit all wells installed at the site up to this time. Although the application specifies that the application pertains to 52 oil detection and groundwater monitoring wells installed by Engineering Enterprises, the permit should include all groundwater monitoring wells, oil thickness monitoring wells, piezometers, and oil recovery wells. It would also be preferable to include the plans and specifications for proposed cut-off trenches, but these facilities are still in the conceptual phase.

The State Engineer permits for a number of the wells to be included under this permit were submitted with application #85-308. Logs of wells installed by Dames & Moore are referenced in Appendix A of the "Assessment of Site Conditions and Groundwater Contamination at the Husky Oil Company, Cheyenne, Wyoming Refinery", Dames & Moore Job No. 7987-012-06, Salt Lake City, Utah, December 21, 1983.

All of the on-site wells and piezometers, excluding the Frontier wells, should be included under the permit. Monitoring requirements will be developed as the Consent Decree is executed and remedial measures progress. A condition of the permit should state that monitoring requirements will be developed by WQD as warranted.

Wells were not previously permitted for various reasons. Several wells were installed under the RCRA program beginning in 1981 to monitor two ponds (hazardous waste management facilities) located in the southeast corner of the site. The design and installation of RCRA wells were not reviewed by WQD. Subsequent wells were installed pursuant to WQD enforcement. The locations of some wells were reviewed and informally approved while others were installed by consultants in accordance with work plans which were not submitted for WQD review. Inasmuch as the wells were being installed under the provisions of a Letter of Agreement, it was assumed that the legal process afforded significant oversight and review of the design and installation of the monitor network. The current application was requested to update WQD's records in accordance with Chapter III.

History

On September 1, 1982, a WQD routine inspection revealed the existence of a number of point sources of pollution at the Husky site. The WQD sent a letter on October 7, 1982 to Husky requesting all available information pertaining to pollution, site investigations by Dames & Moore, process descriptions, well completion data, groundwater quality, pond contents, spills, and pond details. Another letter was sent to Husky on December 10, 1982, specifying the necessity for a complete site investigation. The original Husky proposal for a site assessment was received on February 10, 1983. WQD comments were made on February 23, 1983. On March 24, 1983 a revised plan was submitted to WQD. A Letter of Agreement, signed by Husky and WQD on May 25, 1983, contained the objectives of the site investigation and a scope of work. The objectives included a hydrogeologic study, a determination of the existence and extent of groundwater contamination, and an evaluation of corrective actions. The scope of work under the Letter of Agreement was limited but it did constitute a worthwhile reconnaissance study. Fieldwork was conducted from June 15 through August 1. The September 19 submittal date was extended to mid-November. In mid-September, a groundwater assessment plan for the HWMF was submitted to the EPA per RCRA requirements. Dames & Moore presented their findings from the site investigation at a meeting on November 1, 1983 and submitted the report to WQD on January 13, 1984. The report was subsequently reviewed, specific items were evaluated and recommendations for remedial measures were forwarded to Husky.

On March 22, 1984, a meeting was held to discuss the groundwater investigation and remedial measures. A March 29 follow-up letter from WQD listed specific work items, prioritized objectives, modified previous recommendations, and established a procedure for timely implementation of the work items. In an April 17, 1984 letter to WQD, Husky mentioned a tentative work plan, but warned that large expenditures could not be made due to an imminent sale of the refinery. The transaction did not occur. A "Supplemental Letter of Agreement" issued by Husky on June 22, 1984, signaled an attempt to withdraw previous commitments. On June 28, 1984, a lawsuit was filed in Laramie County District Court citing the threat of pollution to waters of the State. A September 6, 1984 letter to Marion Yoder commented on the "Supplemental Letter of Agreement" and elaborated on specific measures requiring action. Settlement meetings were held on September 12, 1984 and November 6, 1984. An in-house November 20, 1984 memo records the latter. A Consent Decree signed on November 28, 1984, listed in detail specific work items and their completion dates. The RCRA amendments of November 1984 led to regulatory conflicts and resulted in later requests by Husky/RMT to modify the compliance schedule. On February 14, 1985, Husky/RMT made a presentation on the completed, current, and planned corrective and preventive actions. The installation of additional upgradient wells, oil detection wells, and oil recovery wells was discussed. Husky had requested the February 14 meeting with WQD in preparation for a February 19 meeting with WQD and EPA. The latter meeting was set up in order to clarify RCRA requirements and to discuss conflicts between State and Federal regulations. I held subsequent phone conversations with Jay Silvernale (EPA) on March 6, 1985 and Felix Flechas (EPA) on March 12, 1985 to develop a better understanding of the RCRA requirements at Husky. In a May 8, 1985 meeting, changes to the Consent Decree were discussed with Husky/RMT and their attorney. The proposed changes are summarized in a May 13, 1985 memo to Marion Yoder. A WQD May 2, 1985 letter requested information on monitoring, a broken sewer line, a leaky wastewater pipeline, the condensate collection pond at the UPRR terminus, and the Southwest Surface Impoundment. The requests were answered in a June 11, 1985 letter from William Payne. A June 13, 1985 letter from Husky/RMT announced that a comprehensive sampling would occur during the week of June 17, 1985. On June 14,

1985, WQD received Engineering Enterprises' report on the Hydrogeological Investigation for Design of Oil Recovery Systems at RMT Properties' Cheyenne Refinery. Husky/RMT submitted this report as an initial step in obtaining a permit to construct an oil recovery system. Husky/RMT sent a letter to Governor Herschler on June 17 notifying him of conflicts in Federal and State regulations. On June 27, 1985, RCRA issued a "Notice of Deficiency" to Husky/RMT with respect to their RCRA Part B permit application. This NOD addressed inadequacies in the following matters:

1. Analyses of sludges
2. Geology
3. Groundwater monitoring program
4. Corrective action
5. Liner design
6. Pond leakage

In response to the letter from Husky to Governor Herschler, EPA and WQD technical staff personnel are trying to resolve conflicts in regulations and develop a merged strategy. At the same time, the violations of the Consent Decree remain unresolved and will be subject to a hearing in Laramie County District Court after all parties meet on August 23, 1985.

Well Spacing

Storage coefficient estimates were conservatively low, resulting in predictions of greater drawdown. This approach provides for greater distances between recovery wells and may result in inadequate contaminant control. It is recommended, therefore, that intensive monitoring of drawdown be performed in order to determine the necessity of additional recovery wells.

Location of Recovery Wells

While the proposal signifies progress toward site clean-up, it must be noted that recovery operations were not proposed for several affected areas which exhibit an accumulation of hydrocarbons. These areas are designated as being around:

1. EE-10 and DM-17
2. DM-12 and EEI-54
3. CCA-3
4. DM-1, -3, -4, -5
5. DM-22, -27
6. DM-6
7. DM-15

Monitoring Program

Presently, static water levels are being measured bimonthly. This frequency is satisfactory. The groundwater quality monitoring program will be established after the receipt of the results of the recent sampling event and will probably coincide closely with the requirements of the RCRA program. Further efforts may be necessary toward establishing background groundwater quality due to the heterogeneity of the hydrologic regime around the refinery and due to the recent discovery of hydrocarbon on the UPRR property just north of the refinery.

Requirements

An adequate monitoring program will be required, including intense monitoring of drawdown around the recovery systems; the volumes of recovered product; and groundwater quality. The details of the various monitoring programs should be proposed by Husky/RMT.

The oil recovery network requires expansion beyond the present proposal and should include the areas mentioned earlier as well as the southwest corner. Additional recovery stations may be necessary to achieve complete contaminant containment in the areas where recovery wells have not been installed and in areas where the proposed recovery well configuration proves to be inadequate. Engineering Enterprises cites RCRA interference as the reason for not proposing recovery stations in the southeast corner.

Permit Conditions

A comprehensive oil recovery and aquifer rehabilitation program will be developed in cooperation with the strict details of the RCRA program. As data is obtained, an evaluation of the operating system can be made on a periodic basis. This evaluation will lead to changes or additions in the recovery network and the monitoring program. Husky/RMT should submit semi-annual evaluations of the status of the network and the progress of aquifer rehabilitation. These reports must include detailed static water level maps and oil thickness maps, statistical and graphic treatment of water quality data, and a verbal summarization of the site clean-up.

Miscellaneous

On page V-3, number 4, what is meant by "amount of aquifer needed"?

PP/nc

cc: Marion Yoder



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: William L. Garland, Administrator

FROM: Phil Pucel, Groundwater Engineering Evaluator *Phil*

DATE: July 1, 1985

SUBJECT: Husky/RMT Properties, Inc., Letter of June 17, 1985 from Donald R. Ingram, President of RMT, to Governor Ed Herschler Re: Conflicting Regulatory Statutes, DEQ/WQD Ref. No. 85-308

Summary

Husky/RMT President Ingram sent a letter to Governor Herschler describing inconsistencies in Wyoming DEQ/WQD and EPA RCRA regulations as they are applied to the Husky Refinery, Cheyenne. He cites a lack of coordination by the regulators to avoid duplicative investigative and mitigative measures.

The Consent Decree of November 28, 1984 reflects WQD's approach of resolving the adverse impacts to groundwater. The approach is structured around efforts to define completely the extent of contamination on-site and off-site, to identify sources of contamination, to prescribe action which terminates ongoing contamination, to recover product, and to restore the aquifer.

An assessment of the success of this approach to the whole site revolves around determining upgradient water quality and monitoring downgradient water quality.

Portions of the remedial action program have been well executed:

- the addition of spill control pads and drains;
- housekeeping rules with respect to spills;
- new piping;
- the repair of one API separator;
- gradual yard clean-up;
- collection of oil at seeps and at the sewer outlet by a vacuum truck.

Other portions have just begun or have not been very successful:

- oil recovery
- pond testing
- pond modification
- restoration of the Southwest Surface Impoundment
- assessment of impacts to the deep aquifer

The EPA approach is different than WQD's approach due to complex laws, recently revised, targeted at hazardous wastes as opposed to WQD's broad groundwater protection statutes. The RCRA statutes address individual units as hazardous waste management facilities based on a characterization of contents or based on a listed hazardous waste. There are very specific regulations on the locations of monitoring wells, types of pond liners, and which units may be regulated. The recent changes in the RCRA regulations have expanded RCRA's reach, but the EPA does not provide definite guidelines nor is it able to set deadlines by which WQD could attach its own compliance schedule.

The apparent inconsistencies outlined in the Ingram letter have arisen due to:

1. The leading schedule established in the Consent Decree;
2. The new, more stringent RCRA regulations which are being implemented on a protracted schedule as policies are formed; and
3. The lack of decision-making on the EPA's administrative level.

Objective

The objective of this memo and subsequent action is to resolve the inconsistencies in State and Federal regulations as applied to the refinery's water quality problems. The indefinite time period of EPA action and the lack of its decision-making capabilities appears to be completely stifling the continuation of progress already accomplished under the State's Consent Decree. The State must decide upon:

1. A partial program of clean-up which will not completely resolve the regulatory inconsistencies;
2. A methodology to obtain from the EPA a definitive course of action; or
3. To relinquish the regulation of the site to the EPA and request the Court to rescind the Consent Decree.

Discussion

The following section pertains to the points addressed on page 2 of the Ingram letter.

Oil Recovery:

According to Jay Silvernale (EPA hydrologist), oil recovery operations may violate RCRA if the induced gradients affect the usefulness of upgradient and downgradient wells at the hazardous waste management facility. According to Silvernale, gradient changes would render the site's Part B application obsolete and a new Part B would have to be prepared taking into account flow regimes and appropriate monitoring locations. In addition, Silvernale said that fluids produced from the portion of the aquifer affected by the Hazardous Waste Management Facility would be hazardous wastes requiring special treatment and handling. At a meeting on June 25, 1985, Felix Flechas (EPA) said that such fluids could be discharged to the Cheyenne POTW.

Oil recovery at specific locations may be affected by the Silvernale opinion, but most of the oil deposits could be recovered without influencing Hazardous Waste Management Facilities. An identification of all the HWMF's was promised by EPA by the middle of June, but in his most recent communication, Felix Flechas says that Husky must submit analyses and a list of all HWMF's 60 days after they receive a Notice of Deficiency on their obsolete Part B application. The Notice was to be mailed by Flechas during the week of June 23, 1985.

Engineering Enterprises submitted a June 7, 1985 report on the Hydrogeological Investigation for Design of Oil Recovery Systems at Husky RMT Properties, Cheyenne. Engineering Enterprises did not propose an oil recovery system for the southeast portion of plant 2 "due to its probable influence on the RCRA monitoring wells."

Sampling and Monitoring:

In contemplating the number of wells at this site, one must be aware of the size of the site, the numerous sources of contamination, and the goals of the different consultants who installed wells. Some of the wells were installed to test oil recovery feasibility, some were installed per RCRA requirements, while others were installed to measure vertical gradients. The latest consultant, Engineering Enterprises, was primarily interested in delineating economical and recoverable oil deposits. Except for the installation of a few Dames & Moore wells, the effort expended on characterization of the lower Ogallala is minimal.

The geology, characterized by fluvial deposits, makes it difficult to correlate strata across the site. This problem was encountered in reviewing the drilling logs of the Frontier Wells and the Dames & Moore Wells. EPA has made it clear that the strata monitored by the upgradient monitor wells for the HWMF must be correlated to the strata impacted by the HWMF. This consideration becomes important when trying to resolve the issues surrounding the HWMF by reconstruction or closure. At its present location, it will not be possible to distinguish leakage from the HWMF from other upgradient sources of contamination. One option is the installation of wells upgradient of the entire site, encompassing all potential HWMF's. Jay Silvernale (EPA) said that such upgradient wells will require definitive correlation. It is this difficulty in correlation that may result in requirements by EPA for more upgradient wells.

An increased number of wells may also be the result of EPA requirements for clusters of deep wells to characterize impacts to the lower Ogallala. The conduit provided by the Frontier Wells and the downward vertical gradients over some portions of the site allow the possibility of contamination of the lower Ogallala.

Frontier Wells:

"Plugging and capping the Frontier Wells" was not an official EPA requirement. This recommendation is found in a report published by a consultant to the EPA on a 1984 sampling event. The purpose of the report was a documentation of sampling procedures and a preliminary assessment of the existence, mobility, and toxicity of site contaminants. That report does not specifically address the potential for contamination of the lower Ogallala. Indications by EPA personnel tend to support the idea that cluster wells will eventually be required to assess any contamination in the lower Ogallala, but there is no deadline established for this decision. At the meeting on June 27, 1985, Felix Flechas said that Jay Silvernale, the EPA hydrologist responsible for this facet of the program, could not be expected to make a decision at any time.

The WQD insists on some testing to determine the impacts of wastes found in the Frontier wells. The options are sampling the existing wells or installation and sampling a series of clustered wells. The first option will provide information which is marginally useful but much less costly than the second option.

Expanded RCRA Jurisdiction:

The Expanded RCRA Jurisdiction may bring more ponds under stringent regulations. According to Flechas (EPA), all ponds are Solid Waste Management Units (SWMU) as defined in the RCRA of 1976 as amended, Section 1004.

Some ponds may be classified as Hazardous Waste Management Facilities by characteristics. RMT must sample, analyze, and classify all the SWMU's within 60 days of receipt of a Notice of Deficiency, to be mailed during the last week of June. The EPA can challenge the classification and split samples.

There are no automatic closure requirements for SWMU's under RCRA of 1976 as amended, Section 3004 U. However, if there are releases, they can be regulated and become included in the site RCRA permit. EPA may dictate corrective action, such as closure or retrofitting, but there are no deadlines for this enforcement.

Pursuant to RMT's reply to the Notice of Deficiency, the EPA may issue a RCRA permit in one to one and a half years, including a compliance schedule for corrective action. If a pond's sludge test indicates that it is hazardous, and if it is shown that the pond is leaking, then it can remain in use until 1988 at which time, a double-liner must be installed. The only standards applicable to SWMU's are minimum technical requirements for liners.

Conclusions

The EPA's process is interfering with the timely execution of the provisions of the Consent Decree and the Wyoming Groundwater Law.

PP/nc

cc: Jake Strohman
A. J. Mancini
LeRoy Feusner
Marion Yoder
Tom Williams

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-309R
* CONDITION ON PERMIT *
MA 14542

C.A. White Wireline, Inc. Sewer Extension
(Name of Facility)

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

C.A. White Wireline, Inc.
P.O. Box 752
Evanston, WY 82930

to construct, install, or modify a extension to a sewer collection system

facility according to the procedures and conditions of the

application No. 85-309R. The facility is located in

Sec. 11, T16N, R121W

in the County of Uinta,

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

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

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

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

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

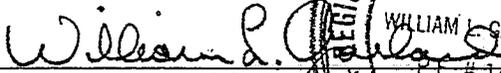
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

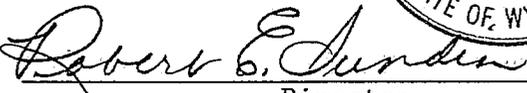
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


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

July 24, 1985
Date of Issuance


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

Director
Dept. of Environmental Quality

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

* CONDITION ON PERMIT *

1. This permit is valid for the construction of the 8" diameter collection line only. The wye connections for service lines may also be installed under this permit. However, no service connections shall be made until all of the violations of the Hoback Ranches, Inc. lagoon system have been corrected.

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.

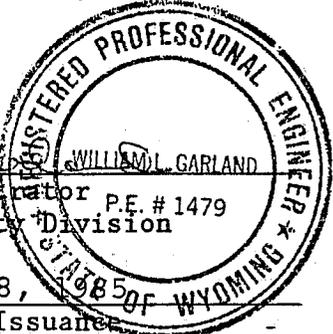
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:

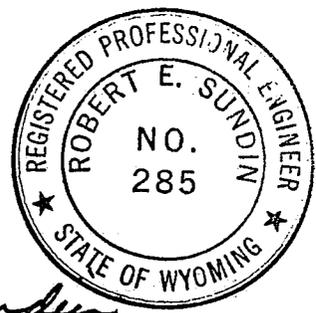


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 8, 1985
Date of Issuance





ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Spotsylvania Mobile Home Park-Sanitary Sewer System

ENGINEER: Keith E. McNinch
Surveyor Scherbel, Ltd.
P.O. Box 4296
Big Piney, WY 83113

OWNER: Allen E. Bradley
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 85-310

REVIEWING ENGINEER: Bill Locke *BL*

DATE OF REVIEW: July 16, 1985

ACTION: **Not authorized.**

COMMENTS:

A preliminary review of the above plans has been completed. The following items must be addressed before a permit to construct will be issued:

1. Is the proposed sanitary sewer collection system to be owned, operated and maintained by Mr. Bradley or the Town of Marbleton? A letter from the Town should be included stating that the existing wastewater treatment facility has adequate capacity to treat the wastewater produced by this subdivision.

2. Using the figures provided, I calculate the average daily sewage flow to be 44,500 gpd when the trailer park is at 100% occupancy. Would you please check your calculations to confirm this figure.

3. In several areas, the proposed sewer lines are to be built on entirely filled (embankment) areas. Please address how this embankment is to be placed and what compaction efforts will be required during the construction.

4. Several detail drawings are required by Chapter XI Rules and Regulations and are listed below:

- a. Detail on the manholes to be specified.
- b. Cross section of the sewer trench showing bedding and backfill material.

ABC

Review of Plans & Specs.

Ref. No. 85-310

age Two

5. An infiltration/exfiltration test is required, yielding a maximum of 200 gallons per inch diameter per mile per day. A 5% deflection test is also required. These tests should be called for on the plans.

6. Maximum spacing between manholes for this size line is limited to 400 feet. Please revise the section between MH#5 and #5A to be in conformance with this specification.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

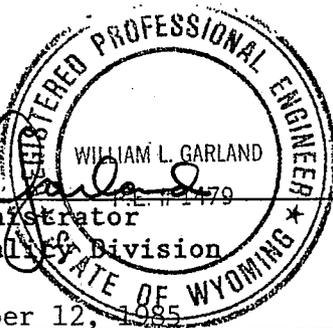
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
September 12, 1985
Date of Issuance

Ralph Wood
Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Spotsylvania Mobile Home Park - Water

ENGINEER: Keith E. McNinch
Surveyor Scherbel, Ltd.
P.O. Box 4296
Big Piney, WY 83113

OWNER: Allen E. Bradley
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 85-311R

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

DATE OF REVIEW: August 9, 1985

ACTION: Not authorized.

COMMENTS:

A review of the revised plans and specifications for the above project has been completed. The following items must be addressed before a permit to construct will be issued:

1. A letter is required from the Town of Marbleton stating that they can produce the required drinking water for this subdivision with the installation of the proposed well and the existing Town wells. This letter should also include the statement that the Town will accept responsibility for this system once construction is completed.

2. There were no plans or specifications included for the proposed well. Please supply this information. (Refer to Chapter XII, Section 9, Subsection 6.)

3. There are some locations in the proposed water lines where entrapped air may cause problems. Please address how this problem will be resolved.

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

BL/jw

AC

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Spotsylvania Mobile Home Park - Water

ENGINEER: Keith E. McNinch
Surveyor Scherbel, Ltd.
P.O. Box 4296
Big Piney, WY 83113

OWNER: Allen E. Bradley
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 85-311

REVIEWING ENGINEER: Bill Locke *BJ*

DATE OF REVIEW: July 16, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans has been completed. The following items must be addressed before a permit to construct will be issued:

1. The new Water Quality Rules and Regulations, Chapter XII require that where water use records are not available to establish water usage, the equivalent per capita water use shall be at least 125 gpd and 340 gpd to size facilities for average and maximum daily water demand. For this facility, the calculated average and peak daily water consumption is 55,565 GPD and 151,130 GPD respectively.

2. A minimum of two wells, or one well and finished water storage equal to twice the maximum daily demand is required. Where two wells are provided, the sources shall be capable of equalling or exceeding the design average daily demand with the largest producing well out of service. Each well shall be protected from and remain operational during the 100 year flood. All wells shall be disinfected in accordance with AWWA A-100 before being placed in service.

3. Is the water distribution system for this subdivision going to be tied into the Town's water system immediately, or is the proposed well expected to service the subdivision until a connection can be made. If the well is to be the source, please explain how the system is to be pressurized. If the well and system are to be tied to the Town's system immediately, please explain what pressure this will provide to the subdivision and how the proposed well will fit into the Town's system.

ABC

Review of Plans & Specs.
Ref. No. 85-311
Page Two

4. The new Chapter XII Rules and Regulations regarding Public Water Supplies went into effect May 24, 1985. I have included a copy for your review in plan conformance.

BL/jw

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-312
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

AML #7-26
 (Name of Facility)

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

Brown and Root, USA, Inc.
P.O. Box 217
Hanna, WY 82327

to construct, install, or modify a strip mine road dust control facility according to the procedures and conditions of the application No. 85-312. The facility is located in Section 10, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

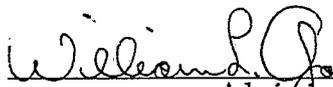
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

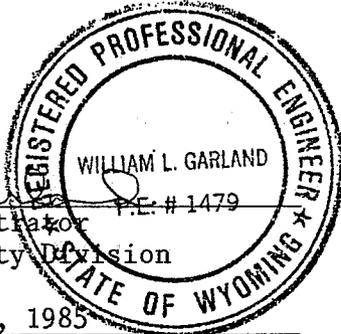
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

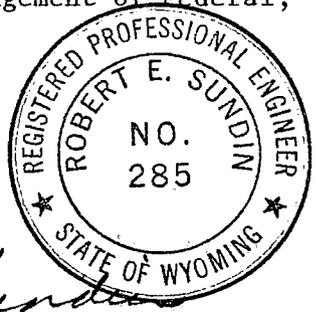
AUTHORIZED BY:


Administrator
Water Quality Division



June 26, 1985
Date of Issuance


Director
Dept. of Environmental Quality



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

cc: Kurt Anselmi, DEQ/LQD, Cheyenne

This permit authorizes you to dispose of 240,000 gallons/day for 90 days of mine pit water on AML contract site roads, a total liquid application of 0.28 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-312

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. 85-313
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

Champlin #1-31 and #6-31
 (Name of Facility)

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

Luff Exploration Co.
1580 Lincoln Street, Suite 850
Denver, CO 80203

to construct, install, or modify a produced water road dust control according to the procedures and conditions of the application No. 85-313. The facility is located in Section 31, T20N, R98W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

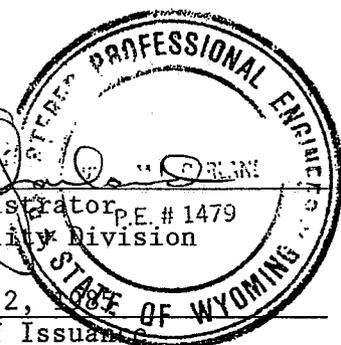
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

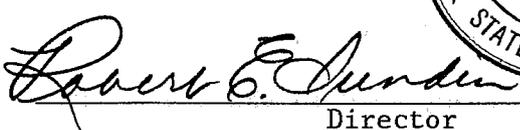
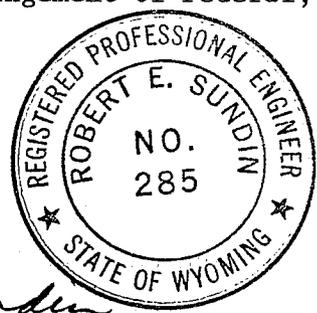
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:



Administrator, P.E. # 1479
Water Quality Division
July 2, 1987
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 21,000 gallons of produced water on the surrounding 2.5 miles of roads, comprising 6 acres, a total liquid application of 0.13 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-313

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. Due to the extreme SAR values of the water and possible adverse effects on the road and/or adjoining vegetated surface, two quart (liter) samples from each pit will be submitted to the Department of Environmental Quality, Water Quality Lab for analysis on receipt of this permit. Two 6" core samples of the roadbed material and roadside material should also accompany the water samples. Luff Exploration will duplicate testing of the effects of application of water of this quality on roads at a lab of its choice and report the results to E. J. Fanning of the Water Quality Division by September 1, 1985.

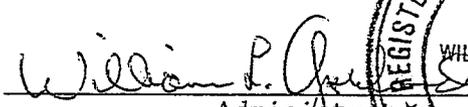
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

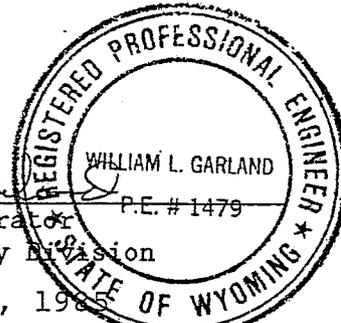
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

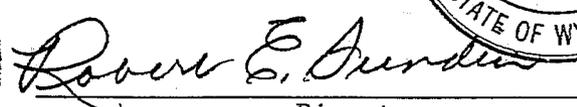
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

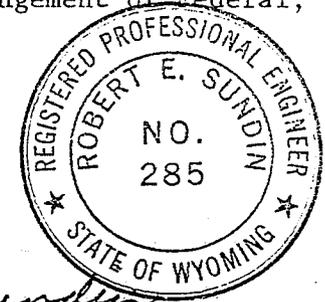


Administrator
Water Quality Division
July 30, 1985
Date of Issuance





Director
Dept. of Environmental Quality



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

Sweetwater

pd



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 10, 1985

Minerals Exploration Company
P. O. Box 1500
Rawlins, WY 82301

RE: Review of Minerals Exploration Company
Sweetwater Uranium Project Application for
"Permit to Construct" No. 85-315
Blue No. 6 Reservoir

Dear Sir/Madam:

The above referenced permit, Water Quality Division #85-315 has been denied pursuant to Section 12, Chapter III, Wyoming Water Quality Rules and Regulations. The following is a summary of reasons for denial and a discussion of reasons for denial:

The Battle Springs aquifer is a Class I designation as classified by Chapter VIII, Water Quality Rules and Regulations. The Environmental Quality Act requires the Division to protect waters of the state. In the opinion of the division, the proposed waste and wastewater disposal system does not provide adequate protection of the aquifer.

- 1) Lined impoundments are required to have a minimum of two cells with the largest cell not to contain more than 55% of the waste volume pursuant to Chapter XI, Part C, Wyoming Water Quality Rules and Regulations. Minerals Exploration Company has proposed a single cell.

Minerals Exploration Company contends that in the event of a leak, repair could not feasibly be accomplished due to tailings deposited over the liner. They would propose to let the leak continue throughout the operational life of the impoundment. This proposal is unacceptable because the facility size precludes many of the groundwater reclamation and mitigation alternatives which are available.

Minerals Exploration Company states the migration of slimes and fines would eventually seal leaks. This is not the case with the existing liner.

- 2) The proposed liner does not provide adequate protection from damage.
- 3) The proposed leak detection system will not identify a leak until discharge to groundwater and a violation of the Environmental Quality Act has occurred. A leak detection system showing leaks immediately is required.
- 4) Minerals Exploration Company is currently under a Notice of Violation, No. 1387-84 for groundwater contamination from the existing tailings pond. The proposed facility is located such that areas of this groundwater contamination are under it. This may preclude mitigation and reclamation alternatives.
- 5) The application is incomplete as required by Section 6, Chapter IV, Water Quality Rules and Regulations.
 - a. An application for "Permit to Construct" shall consist of three sets of plans, specifications, and an engineering report which consists of design data and other pertinent information. All plans and specifications shall carry the seal or signature of a registered Wyoming Professional Engineer.
 - b. The plans shall include all details necessary to evaluate the proposed construction of Blue No. 6. The following details are necessary to evaluate the proposed tailings impoundment: intercell piping, monitoring well construction, liner and embankment sections, mobil discharge line, etc.
 - c. The specifications shall include a description of all work necessary to evaluate the proposed construction. The specifications and what results are to be obtained (i.e., earth-work, material selection, preparation, compaction, testing, liner material and installation).

Discussion

The application for "Permit to Construct" Blue No. 6 Reservoir has been reviewed by the Wyoming Department of Environmental Quality/Water Quality Division. Minerals Exploration Company has proposed the construction of a second uranium mill tailings impoundment at the Sweetwater Uranium Project, Section 10, 11, T24N, R93W, Sweetwater County.

The Blue No. 6 tailings impoundment consists of a single cell with a maximum operating capacity of 2,951 ac-ft over 101 acres. Blue No. 6 is to be lined with a single layer of high density polyethylene

material. The proposed leak detection system consists of periodically monitoring 24 wells located around the perimeter of the existing and proposed tailings impoundment. The wells are to be completed in the upper portion of the Class I Battle Springs Aquifer.

Pursuant to Water Quality Rules and Regulations, Chapter III, Section 12 "Permit to Construct" Blue No. 6 Reservoir, as proposed, is denied. Review of the application has resulted in the following basis for denial.

- 1) The application does not meet minimum design and construction standards as specified by Wyoming Water Quality Rules and Regulations, Chapter XI, Part C.
 - a. Impoundments that require liners to protect groundwater shall consist of a minimum of two cells. The largest cell shall not contain more than 55 percent of the total waste volume of the design capacity.
 - b. The existing tailings impoundment has a permitted 1,745 ac-ft over 60 acres. The liner has been seriously damaged and proper repairs may be impossible. Therefore, the future integrity or useability of the existing impoundment is questionable and needs to be addressed.
 - c. Minerals Exploration Company contends that in the event of an leak, the proposed impoundment could not be feasibly evacuated for repair because of solids deposition. The Division's position is a leak which is not repaired provides no groundwater protection. The entire impoundment would have to be abandoned and mitigation and reclamation measures incorporated should a leak occur under the present proposal.
 - d. Minerals Exploration Company states the migration of slimes and fines would eventually seal the leaks, therefore, multiple cells would not be cost effective. This has not been the case with the existing facility.

- 2) The proposed design of Blue No. 6 tailings impoundment does not comply with the intent of the Wyoming Environmental Quality Act. Specifically, the design does not adequately protect waters of the State. The Battle Springs Aquifer is Class I, suitable for domestic use, and therefore should afforded a high level of protection.

Wyoming statutes 35-11-301(a) (i) and (ii) stipulates no person, except when authorized by a permit shall: cause, threaten or allow the discharge of any pollution or wastes into waters of the state or; alter the physical, chemical, radiological, biological or bacteriological properties of any water of the state.

a. Minerals Exploraton Company proposes to line the impoundment with 60 mil HDPE on the interior slopes and 30 mil HDPE on the bottom. No provisions for protecting the liner from physical damage have been proposed in the design.

Minerals Exploration Company contends that the potential for serious physical damage to the unprotected liner is minimal. Strict quality control and on going monitoring/inspections will not sufficiently protect the liner from damage by inevitable accidents, mobil discharge line, floating debris and ice, etc.

Experience and discussions with liner manuaufacturers/suppliers have resulted in the conclusion that 30mil thickness is inadequate thickness, and regardless of thickness, the material should be adequate and protected with earth.

3) The proposed leak detection system will not identify a leak until it has impacted groundwater. A seepage analysis by Water, Waste and Land, Inc. - 1983 evaluated various leaks and mitigation measures.

In summary, leaks on the order of 50 ft will probably not be detectable within a reasonable period of time. A leak on the order of 100 ft will probably be detectable within 20 years after its occurrence. Also, mitigation or clean-up measures will take years of pumping at rates from 75-400 gpm. The concept of this analysis would be evaluated however, due to the number of assumptions that were made in this analysis, accurate conclusions could not be made until an actual leak occurs.

Once the aquifer is impacted Minerals Exploration Company would be in violation of the Wyoming Enviornmental Quality Act and corresponding Water Quality Rules and Regulations. In order to adequately protect waters of the state, the proposed facility must include a more immediate leak detection system. A contingency plan for mitigation and reclamation would also be required.

4) Notice of Violation and Order, Docket No. 1387-84 was issued to Minerals Exploration Company on March 20, 1984. Floating debris, wind and wave action seriously damaged the existing tailings impoundment liner. As a result, a seepage plume has developed and most of the contaminated water appears to be perched on a shale layer approximately 25 feet above the Battle Springs Aquifer.

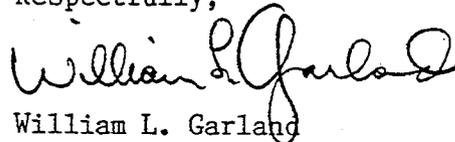
The extent of the existing plume is being assessed and final report should be submitted in the fall of 1985. Initial reports

indicate that the plume may extend to an area directly beneath the proposed Blue No. 6 Reservoir.

Before a permit can be issued for the construction of Blue No. 6 Reservoir, the contaminate plume must be completely evaluated and a plan to mitigate/clean up finalized. Interference between construction and mitigation/cleanup measures needs to be addressed.

For reasons stated above, the proposed design does not adequately protect waters of the state, thereby would pose a threat of discharge to groundwater. The specific sections of Chapter III, Section 12 are subsections a.(1) and (2). Minerals Exploration Company may request a hearing before the Environmental Quality Council within (60) sixty days pursuant to subsection 12.c.

Respectfully,



William L. Garland
Administrator

8-26

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-315

DATE SUBMITTED FOR REVIEW 6-17-85

NAME AND LOCATION OF FACILITY Minerals Exploration
Sweetwater Uranium Co.
Blue No. 6 Reservoir
Sweetwater County

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

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

SIGNED Kate Laudon
TITLE Engineer Evaluator
DATE 8-23-85

ACCEPTED FOR RECORD 8/23/85
(Date)

gjm
Groundwater Control Supervisor



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Groundwater Engineer Evaluator *KJL*

DATE: August 21, 1985

SUBJECT: Groundwater Review of Minerals Exploration Company, Application for Permit to Construct Blue No. 6 Reservoir, DEQ/WQD Ref. No. 85-315

Minerals Exploration Company (MEC) has applied for a permit to construct a second tailings impoundment at the Sweetwater Uranium Mine located in Sweetwater County. The proposed Blue No. 6 impoundment is located adjacent to the existing tailings impoundment on the north and northeast sides.

To monitor groundwater and for the purpose of leak detection in the vicinity of the proposed tailings impoundment, MEC proposes to periodically sample 24 monitor wells which will be installed around the perimeters of both the existing pond and the proposed pond. The wells will be drilled into the upper portion of the underlying Battle Springs Aquifer. Samples will be collected from the upper 10-30 feet of the aquifer with the use of "semi-permanent" packers to isolate the zone of concern. If periodic monitoring of these wells indicates that seepage from the tailings ponds is impacting the aquifer, the wells would then be utilized as a pumpback system to contain any contamination to the vicinity of the tailings cell.

Due to the large volume of the tailings cell (2,951 acre-ft), MEC feels that pumping of the aquifer is the only mitigation measure that would be feasible should a failure of the pond liner occur. Once operation of the tailings pond commences, the bottom of the pond will be covered with tailings deposits making it virtually impossible to locate and repair a leak in the liner. Several large leaks have occurred in the existing pond, very close to the water surface, and MEC has been unable to effectively repair the affected area. Their recourse until now has been to allow evaporation and seepage to reduce the water level to below the tears in the liner. This process may take up to five years.

A seepage plume has developed as a result of the liner failure in the existing tailings cell. Contaminated water appears to be perched on a shale layer approximately 25 feet above the level of the Battle Springs Aquifer. MEC feels that the only seepage water that has reached the aquifer has done so as a result of improperly constructed monitor wells. The plume is characterized by elevated concentrations of TDS and sulfates, and extends north and east of the existing tailings pond beneath the proposed location of the new pond. MEC is currently assessing the extent of the existing plume, and will submit a final report this fall.

The groundwater monitoring system proposed for the new tailings cell is unacceptable for a number of reasons.

1. Based on ambient quality, water in the Battle Springs aquifer is Class I, suitable for domestic use, and should be afforded a high level of protection.
2. The permit application does not contain any of the information obtained from the investigation of the liner failure and subsequent seepage from the existing pond. Rather, seepage estimates and monitor well placement were determined from contaminant transport models based on assumed conditions. Enough information has been obtained to refine the predictions to more accurately defined site specific conditions.
3. The proposed monitor wells will be screened over 20 to 30 feet of the aquifer. Dilution of samples collected from a well with a 30 foot screened interval could mask the presence of contamination. Seepage estimates provided in the report indicate that it could take up to 20 years to detect leaks from some areas of the pond.
4. Information obtained from the current seepage investigation indicates that tailings water has perched on a shale layer above the aquifer. It has not been determined whether saturated conditions exist or not. Based on this information, it seems that monitor wells completed above the shale layer would detect seepage before the aquifer is impacted. Once the aquifer has been impacted the facility would be in violation of WDEQ/WQD Rules and Regulations, specifically Chapter VIII. Early detection of seepage is possible in this situation, and certainly preferable to the proposed plan.
5. Another major point that should be addressed before a permit is issued, is the status of the existing plume. It must be decided whether mitigation is required, and how such mitigation would be impacted by construction of another pond.
6. With respect to comment 7 of your memo of August 13, 1985, MEC should provide construction details of all monitor wells sufficient to demonstrate compliance with the standards of Chapter XI WDEQ/WQD Rules and Regulations.

cc: Jake Strohman
Tim Holbrook, LQD, Cheyenne

Ted Johnson Com. #1 - Will ask permission to
monitor 90% set occur 1st yr.
- Requires set from license -

Drop 1

~~82-733~~

2 OK

85-3/5

3 NRC

4 Analysis by Energy Fuels in Utah

Leak must be detected

want to see leak within the yr.

5. Gas Release Systems

Meeting on Thursday in Fort Collins

Get letter to Tony



ALT. I

N e e
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e



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002
M E M O R A N D U M



85-315

TO: Jake Strohman
FROM: Bill Ewen *WSE*
THROUGH: A.J. Mancini
DATE: February 14, 1983
SUBJECT: Application #~~82-733~~; Minerals Exploration Company Application for Amendment to NRC for Revised Tailings Disposal Plan

I have reviewed the above referenced application and have the following comments and questions:

- 1) In Volume 1, page 4-31, it is mentioned that settlement of the tailings could occur following reclamation. What is the predicted magnitude of the settling? Could ponding on top of the reclaimed tailings result?
- 2) The following list of parameters should be added to the groundwater monitoring list of Table 4-1B of Volume 1:

Nickel	Iron	Strontium
Cobalt	Manganese	

These elements are present in the tailings liquor in concentrations above Wyoming's Class I groundwater standards.
- 3) What plugging procedures were employed for the observation wells (such as those used in the June '78 Water Development Corporation Report) which underlie the proposed pond site?
- 4) The geochemical study by Water, Waste and Land, Inc. raises several questions. It appears that the smaller the area of leakage then the greater is the chance of that leakage carrying the "acid front," along with all the trace metals and toxic constituents of the tailings, down to the aquifer. An analysis should be conducted to determine the effect of 1) a 100 square foot and 2) a 1 square foot liner leak during both the operational and post-operational phases. Short term and long term effects on the aquifer should be discussed.

Memo To: Jake Strohman
Page Two
February 14, 1983

- 5) What will happen to the CO₂ formed by the neutralization reaction of pond leakage under the liner? Will the gas form whales in the liner?
- 6) Based on the ambient groundwater quality data collected by Minerals Exploration, the underlying Battle Springs aquifer is a Class I aquifer as defined in Water Quality Rules and Regulations, Chapter VIII. The studies by Water, Waste, and Land, Inc. and Battelle Pacific Northwest Labs lead one to believe that virtually any pond seepage reaching the aquifer would cause a violation of Chapter VIII groundwater quality standards.

The proposed means of groundwater protection is inadequate. The pond liner should lie above a well-designed leak detection system, or a well-designed groundwater monitoring system. The proposed groundwater monitoring plan is inadequate. With an average groundwater velocity of 31 feet/year in the Battle Springs aquifer it would take 10 to 30 years for seepage-impacted groundwater to reach the monitoring wells.

The groundwater monitoring plan must detect impacts to the aquifer before or as they occur. This could involve placement of monitoring wells on the dike embankments or directional drilling from outside the dikes or some other means.

A detailed discussion should be provided of mitigative measures that would be employed should groundwater contamination occur.

cc: Gary Beach, Land Quality Division
Al Berreth, Lander



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: Jake Strohman
 FROM: A.J. Mancini *AJM*
 DATE: October 29, 1982
 SUBJECT: Conversation this date with John Linehan, NRC

For basic information concerning mill tailings, tailings disposal ponds, etc. the contacts are:

John Linehan 301/427-4642,
commercial and FTS
 Harry Pettengill 301/427-4644
commercial and FTS

present address for both is:
 USNRC,
 Uranium Recovery Field Office
 Washington, D.C. 20555



This office supposedly will be in Denver sometime in 1983.

For information concerning inspections the contact is:

Glen Brown 817/860-8182, commercial
817/728-8182, FTS

His address is:
 USNRC
 611 Ryan Plaza Drive
 Suite 1000
 Arlington, Texas 76011

cc: Districts 1, 2, 3, and 4

Minerals Exploration Company

Sweetwater Uranium Project
P.O. Box 1500, Rawlins, Wyoming 82301
Telephone: (307) 328-1476



January 19, 1983

Union Energy Mining Division
P.O. Box 7600
Los Angeles, California 90051
(213) 977-7600

Department of Environmental Quality
Water Quality Division
210 Lincoln Street
Lander, Wyoming 82520

ATTN: Mr. Al Berreth

RE: Sweetwater Uranium Project
Modified Tailings Management Plan

Dear Mr. Berreth:

Pursuant to your letter dated January 14, 1983, please consider this letter as our request for re-submittal of our original Application for Permit to Construct dated November 18, 1982. This request is made subject to federal preemption and limited to the extent of concurrent state jurisdiction over non-radiological activities affected by manifold health, safety and economic concerns.

If any further information is needed by your division please do not hesitate to contact this office at 328-1476 extention 505.

Sincerely,

A handwritten signature in dark ink, appearing to read "Houston L. Snyder", written over a horizontal line.

Houston L. Snyder
Safety & Environmental Administrator

HLS/cd

cc: L. G. Dykers
W. Bosse'
G. D. Bennett
B. Kunz



83-5

Minerals Exploration Company

Sweetwater Uranium Project
P.O. Box 1500, Rawlins, Wyoming 82301
Telephone: (307) 328-1476



Union Energy Mining Division
P.O. Box 7600
Los Angeles, California 90051
(213) 977-7600

18 November 1982

Wyoming Department of Environmental Quality
Division of Water Quality
210 Lincoln Street
Lander, Wyoming 82520
Attn: Mr. Al Barreth



Ref. 82-733

Dear Mr. Barreth:

Enclosed is Minerals Exploration's application for permit to modify the tailings disposal facility at the Sweetwater Uranium Project. Supportive details are contained in the four volume document entitled "Application for Amendment to U.S. Nuclear Regulatory Commission Source Materials License NO. SUA-1350, dated September 1982. This document is being supplied under separate cover.

Under current Milling schedules, additional tailings disposal capacity will be needed by mid 1984. Consequently, construction of the modified disposal facility must commence in early 1983. Therefore, your earliest consideration of Mineral's application would be appreciated.

Correspondence regarding this application should be addressed to myself at P. O. Box 1500, Rawlins, Wyoming 82301. I can be reached by telephone at 328-1476 extension 505.

Sincerely,

H. L. Snyder
Safety & Environmental Administrator

HLS:bd

cc: J. W. Bosse'
L. G. Dykers
Stan Zwicker



83-5

Type of Facility:

- Source Development
- Treatment Plant
- Distribution System

Source: Groundwater _____
 Surfacewater _____
 Capacity, or Demand _____ gpm

List State Engineer permit number(s) for water sources: _____

Small

Type of Facility:

- Subsurface Disposal
- Stabilization Pond
- Evaporative
- Mechanical Treatment
- Collection System

Volume of Wastewater Approx. 500 gpm

The State Engineer has reviewed this project and has determined that it will not interfere with existing water rights.

Yes No

List State Engineer permit number(s) on the water source(s) related to this project:
 UW 41699, UW 41700, UW 41701, UW 41702,
 UW 41703, UW 41716

4. Briefly describe facilities proposed to be constructed: _____

URANIUM MILL TAILINGS DISPOSAL POND

5. Does the proposed water supply/wastewater treatment/facility discharge? NO

If yes, NPDES Permit Application No. _____
 Name of receiving waters _____

Name of Applicant MINERALS EXPLORATION COMPANY

Mailing Address: P.O. BOX 1500
 (Street or P.O. Box)

RAWLINS WYO. 82301
 (City) (State) (Zip)

Business Phone 307-328-1476

Home Phone 307-324-4869

Name of Engineer Larry T. Murdock

Wyoming P.E.# 2852

Engineering Firm Dames and Moore

Mailing Address: 250 East Broadway
 (Street or P.O. Box)

Salt Lake City, Utah 84111
 (City) (State) (Zip)

Phone (801) 521-9255

I certify that the above described facility has been submitted in accordance with local, county and State statutes, as required, and that said facility shall be constructed as authorized under the provisions specified in Wyoming Water Quality Rules and Regulations, Chapter III, 1976.

H. L. SNYDER SAFETY & ENVIRONMENTAL ADMINISTRATOR
 Signature of Applicant

Date 11/18/79



7-19-85



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 12, 1985

Mr. William A. Peterson, Jr.
City Administrator
P.O. Box 1700
Riverton, WY 82501

RE: Federal Sewage Works Grant C560136-03, Riverton, WY, Sewer Interceptor, Phase 1, DEQ/WQD Ref. No. 85-316

Dear Mr. Peterson:

The detail plans and specifications for phase one of the interceptor sewer improvements are hereby approved. The permit to construct for this project is attached. Also enclosed is one copy of the approved plans and specifications.

You are reminded to complete the bid document checklist and follow the directions regarding advertisement and bid opening provided in a June 26, 1985 letter from Michael Hackett of this office.

If you have any questions, please contact Mr. Tom Conrardy.

Sincerely,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland
Administrator

WLG/TC/nc

cc: ARIX, Riverton
Loren Leichtnam, DEQ/WQD, Sheridan
Steve Gerber, DEQ/WQD, Lander
Grant File

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-316
EPA C560136-03

MA 14542

Riverton Sewer Interceptor Line - Phase I
(Name of Facility)

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

City of Riverton

P.O. Box 1700

Riverton, WY 82501

to construct, install, or modify a sewer interceptor facility according to the procedures and conditions of the application No. 85-316. The facility is located in Section 33, T1N, R4E in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

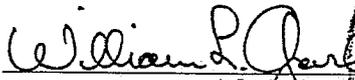
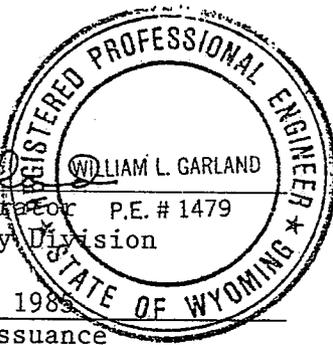
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:


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



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


July 8, 1988
Date of Issuance

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

cc: Harry C. LaBonde Jr.
ARIX
609 East Madison, Suite 1
Riverton, WY 82501

8/30

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-317RR
MA 14542

Arch Mineral, Seminoe #2, Pond 7-79-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-317RR. The facility is located in SW1/4 NW1/4 Section 7, T23N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

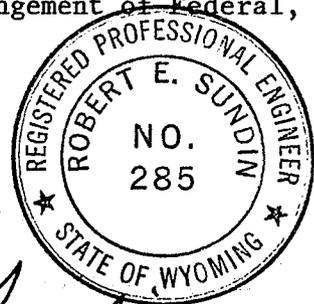
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

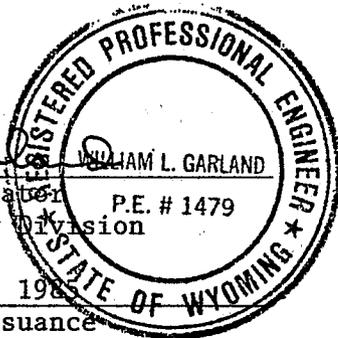
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



William L. Garland

Administrater P.E. # 1479
Water Quality Division



Robert E. Sundin

Director
Dept. of Environmental Quality

August 28, 1985
Date of Issuance

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

Permit No. 85-318RR

MA 14542

- New
 Renewal
 Modified

Arch Mineral, Seminoe #2, Pond 9-H2-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a pond for sedimentation control and treatment of process water from shop facility area facility according to the procedures and conditions of the application No. 85-318RR. The facility is located in SW1/2 SW1/4 Section 9, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

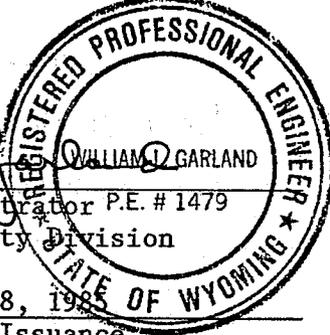
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

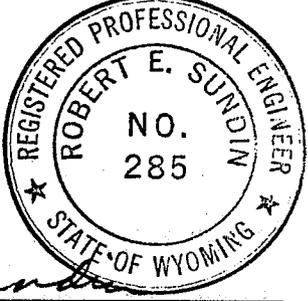
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William D. Garland
WILLIAM D. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 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.

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-319RR

MA 14542

Arch Mineral, Seminoe #2, Pond 9-H2-2
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-319RR. The facility is located in SE1/4 SW1/4 Section 4, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

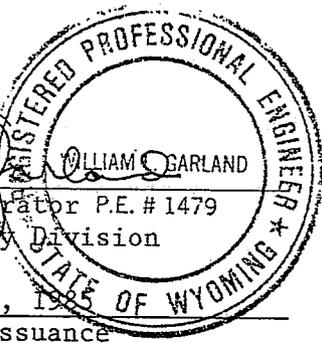
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

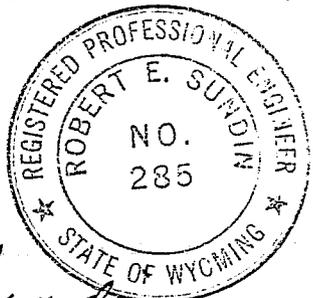
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "WILLIAM GARLAND" and the number "1479".
William L. Garland
WILLIAM GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "ROBERT E. SUNDIN" and the number "285".
Robert E. Sundin
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 Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-320RR

MA 14543

Arch Mineral, Seminoe #2, Pond 12-79-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-320RR. The facility is located in NE1/4 SW1/4 Section 12, T23N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

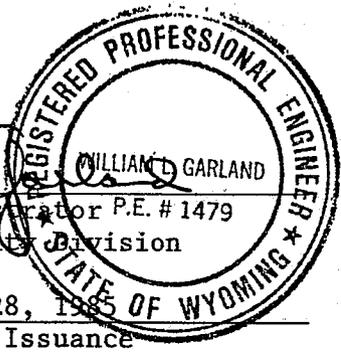
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

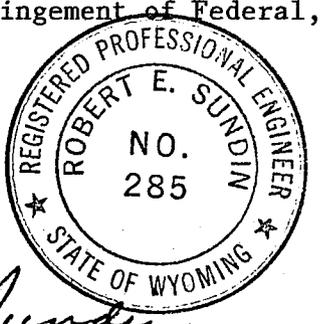
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William D. Garland
WILLIAM D. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-321RR

MA 14542

Arch Mineral, Seminoe #2, Pond 12-79-2
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-321RR. The facility is located in Central Area of Section 12, T23N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

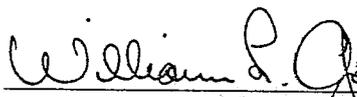
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

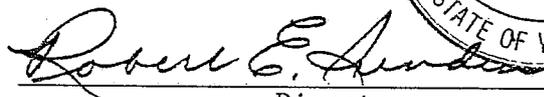
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-322RR

MA 14542

Arch Mineral, Seminoe #2, Pond 12-79-3
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-322RR. The facility is located in SE1/4 NE1/4 Section 12, T23N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

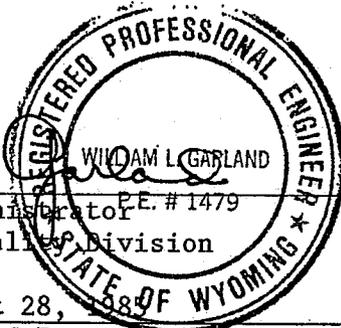
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

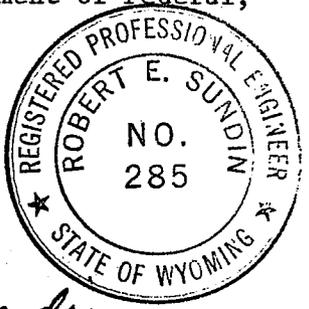
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garland
Administrator P.E. # 1479
Water Quality Division
August 28, 1989
Date of Issuance


Robert E. Sunden
Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 85-323RR

MA 14542

Arch Mineral, Seminoe #2, Pond 13-77-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-323RR. The facility is located in NE1/4 NE1/4 Section 13, T23N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

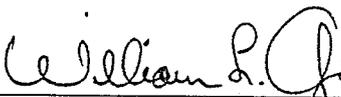
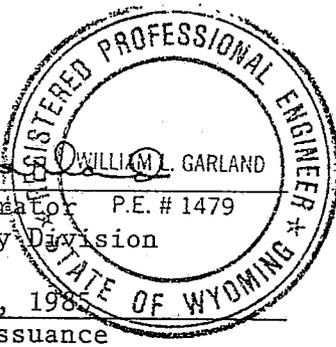
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

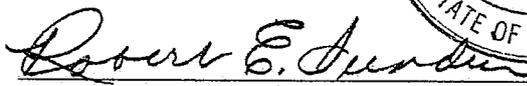
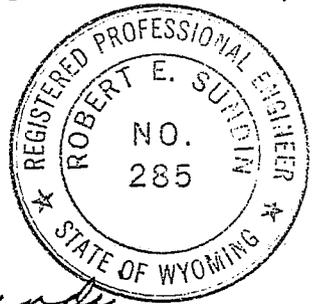
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1988
Date of Issuance



ROBERT E. SUNDEN
Director
Dept. of Environmental Quality


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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-324RR

MA 14542

Arch Mineral, Seminoe #2, Pond 13-H5-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a process water treatment pond facility according to the procedures and conditions of the application No. 85-324RR. The facility is located in SE1/4 SW1/4 Section 13, T22N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

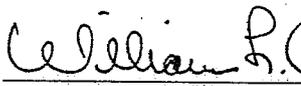
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

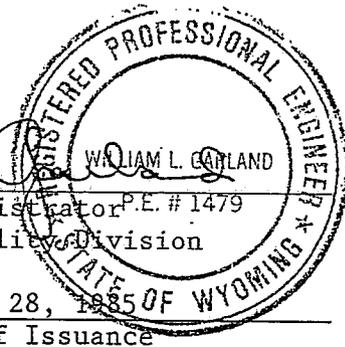
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



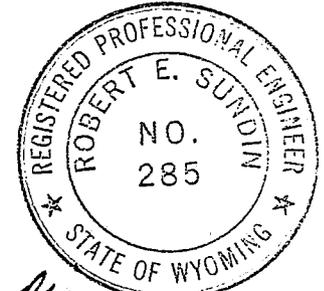
WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division

August 28, 1985
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 Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

Permit No. 85-325RR
SEE CONDITION ON BACK

New
 Renewal
 Modified

MA14542

Arch Mineral, Seminoe #2, Pond 13-H5-2
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a process water treatment pond facility according to the procedures and conditions of the application No. 85-325RR. The facility is located in SE1/4 SW1/4 Section 13, T22N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

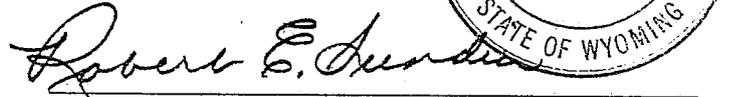
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
P.E. # 1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Administrator
Water Quality Division
August 28, 1985
Date of Issuance


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

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

Condition to Permit to Construct #85-325RR

Because this is a below grade pond, a minimum horizontal distance of 75 feet of undisturbed earth shall be maintained between the high water level and any down hill slope on the outside embankment.

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

Permit No. 85-326RR

MA 14542

New
 Renewal
 Modified

Arch Mineral, Seminoe #2, Pond 13-H5-3
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a process water treatment pond facility according to the procedures and conditions of the application No. 85-326RR. The facility is located in SE1/4 NE1/4 Section 13, T22N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

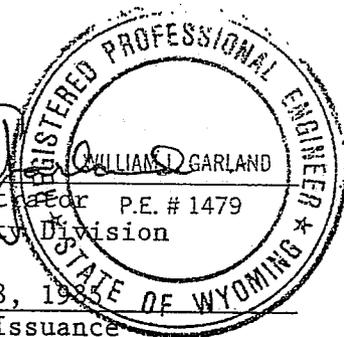
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William F. Garland

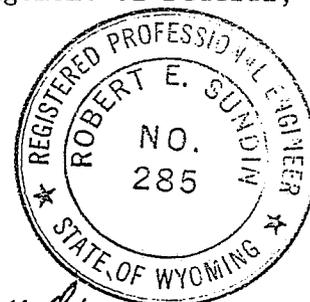
ADMINISTRATOR P.E. # 1479
Water Quality Division

August 28, 1985
Date of Issuance



Robert E. Sundin

DIRECTOR
Dept. of Environmental Quality



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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-327RR
SEE CONDITION ON BACK

MA 14542

Arch Mineral, Seminoe #2, Pond 13-H5-4
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a process water treatment pond facility according to the procedures and conditions of the application No. 85-327RR. The facility is located in NE1/4 SE1/4 Section 13, T22N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

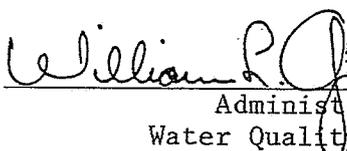
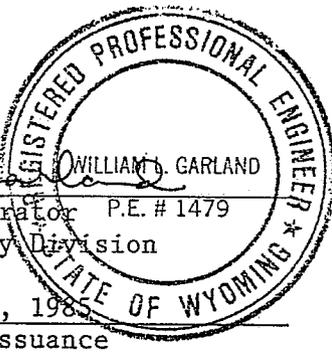
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

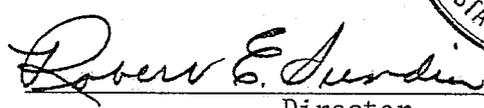
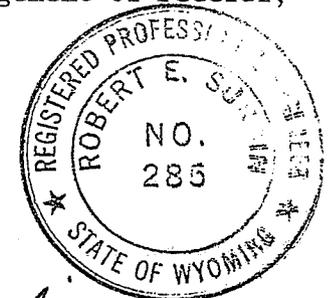
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM P. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance



ROBERT E. SURDIN
Director
Dept. of Environmental Quality


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

Condition to Permit to Construct #85-327RR

Because this is a below grade pond, a minimum horizontal distance of 75 feet of undisturbed earth shall be maintained between the high water level and any down hill slope on the outside embankment.

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-328RR
SEE CONDITION ON BACK

MA 14542

Arch Mineral, Seminoe #2, Pond 13-H5-5
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a process water treatment pond facility according to the procedures and conditions of the application No. 85-328RR. The facility is located in SW1/4 SE1/4 Section 13, T22N, R82W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

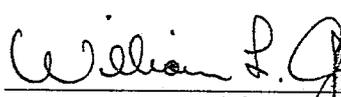
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

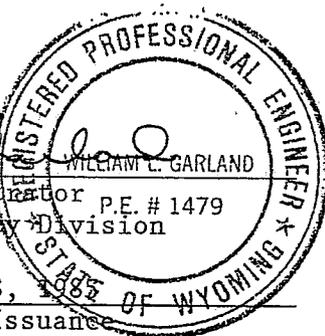
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

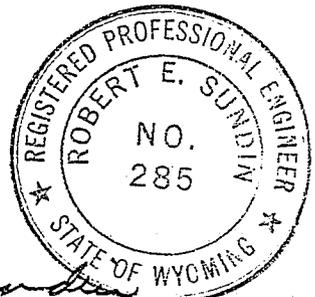


Administrator P.E. # 1479
Water Quality Division
August 28, 1982
Date of Issuance





Director
Dept. of Environmental Quality



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

Condition to Permit to Construct #85-328RR

Because this is a below grade pond, a minimum horizontal distance of 75 feet of undisturbed earth shall be maintained between the high water level and any down hill slope on the outside embankment.

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-329RR

MA14542

Arch Mineral, Seminoe #2, Pond 17-H2-2
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-329RR. The facility is located in NW1/4 NW1/4 Section 17, T22N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

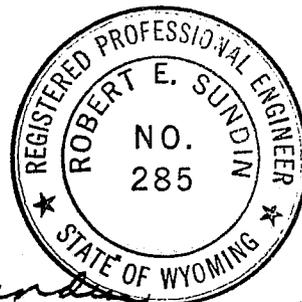
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:



William L. Garland
WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance

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

Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-330RR

MA14542

Arch Mineral, Seminoe #2, Pond 17-78-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-330RR. The facility is located in SE1/4 SE1/4 Section 17, T23N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

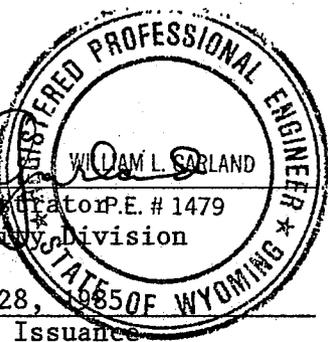
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

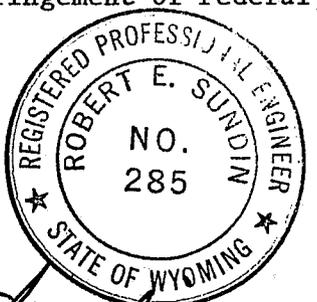
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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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:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. SORLAND" and "P.E. # 1479".
William L. Sorland
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "ROBERT E. SUNDIN" and "NO. 285".
Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

Permit No. 85-331RR

New

Renewal

Modified

MA 14542

Arch Mineral, Seminoe #2, Pond 16-79-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-331RR. The facility is located in SW1/4 SW1/4 Section 16, T23N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

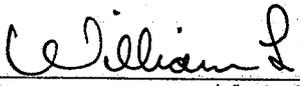
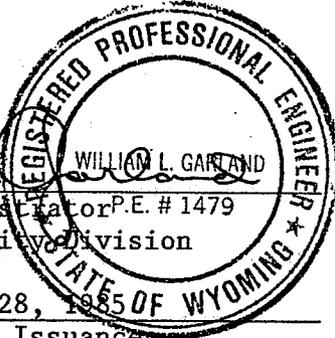
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

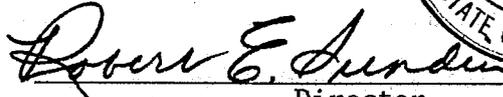
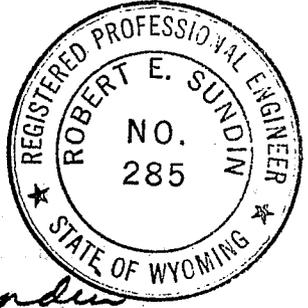
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-332RR

MA14542

Arch Mineral, Seminoe #2, Pond 20-77-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond and pit water treatment pond facility according to the procedures and conditions of the application No. 85-332RR. The facility is located in NW1/4 NE1/4 Section 20, T23N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

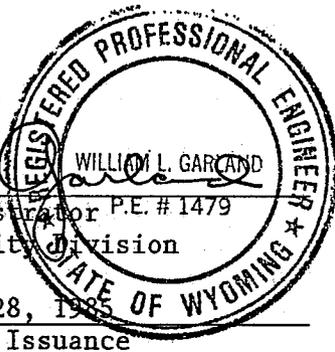
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

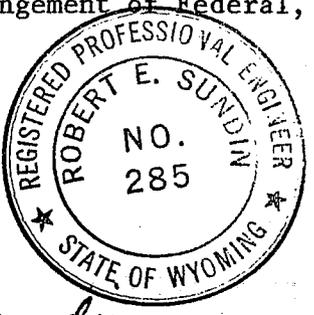
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garand
WILLIAM L. GARAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-333RR

MA 14542

Arch Mineral, Seminoe #2, Pond 20-77-2
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond and pit water treatment pond facility according to the procedures and conditions of the application No. 85-333RR. The facility is located in NE1/4 NW1/4 Section 20, T23N, R81W in the County of Carbon, 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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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

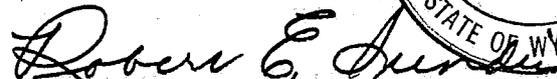
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:


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


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

August 28, 1968
Date of Issuance

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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-334RR

MA 14542

Arch Mineral, Seminoe #2, Pond 24-H5-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-334RR. The facility is located in NE1/4 NW1/4 Section 24, T22N, R82W in the County of Carbon, 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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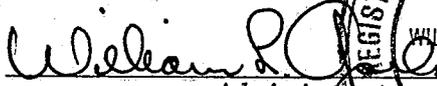
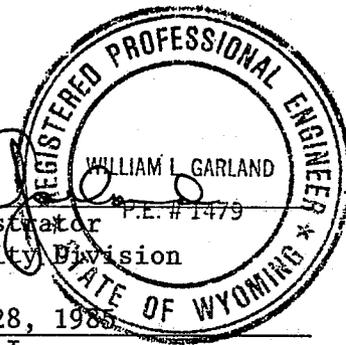
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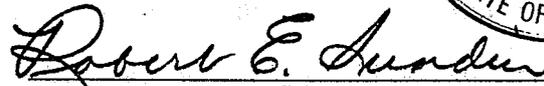
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AUTHORIZED BY:


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

August 28, 1985
Date of Issuance


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


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

cc: James F. Felber
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-335RR

MA 14542

Arch Mineral, Seminoe #2, Pond 24-H5-2
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond facility according to the procedures and conditions of the application No. 85-335RR. The facility is located in NE1/4 NW1/4 Section 24, T22N, R82W in the County of Carbon, 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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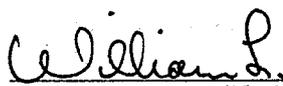
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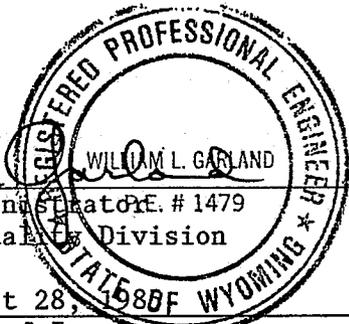
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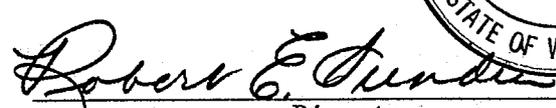
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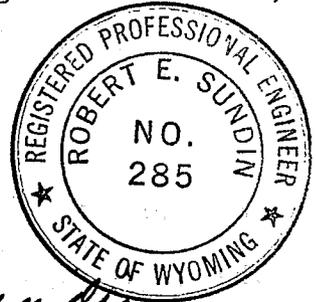
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
August 28, 1988
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 Corporation
P.O. Box 460
Hanna, WY 82327

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-336RR

MA 14542

Arch Mineral, Seminoe #2, Pond 30-H5-1
(Name of Facility)

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

Arch Mineral Corporation, Western Division

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control pond and pit water treatment pond facility according to the procedures and conditions of the application No. 85-336RR. The facility is located in SW1/4 SE1/4 Section 30, T23N, R81W in the County of Carbon, 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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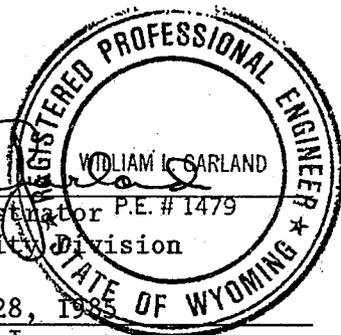
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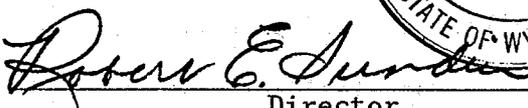
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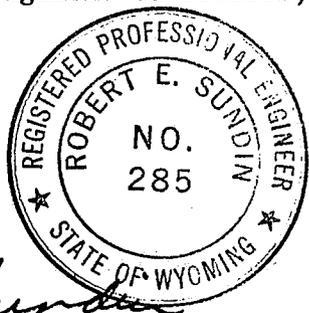
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 28, 1985
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 Corporation
P.O. Box 460
Hanna, WY 82327

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Seminole #2 Mine Plan, Carbon Co.

ARCHITECT OR ENGINEER: James F. Felber, Arch Mineral Corp.
P.O. Box 460, Hanna, WY 82327

APPLICANT: Arch Mineral Corp.
P.O. Box 460, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 85-317R thru 85-336R

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

DATE OF REVIEW: August 12, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. In the soil erosion determination, column 9 "Area" does not agree with the maximum drainage area found in the runoff volume determination (column 2 and 3) for ponds 12-79-3 and 30-H5-1. I did not relate this very well in the previous comments. I would assume that the maximum are used in the soil erosion determination should be 100 acres and 466 acres for ponds 12-79-3 and 30-H5-1, respectively.
2. Typical Pond B, erosion control on the inlet. We do not have any concern on the 3% inlet slope. However, it is still felt that erosion control is necessary to prevent scouring of the inlet channel and the pond bottom. The anticipated flows will cause erosion and resuspension of settled sediment.
3. Typical Ponds C & D. There seems to be some disagreement on whether these are above grade or below-grade ponds. Rather than debate that issue, our review has to ensure that all dikes maintain their integrity so they can contain runoff. These typical ponds show that there is insufficient protection or material on the downstream dikes to provide protection equivalent to a below grade pond like typical ponds A and B. The impact from erosion, wave action, wave runup, runoff in excess of the design storm, etc. would have a dramatic affect on the integrity of the downstream dike and could cause it to fail.

The leniency generally allowed for below grade ponds is not warranted in this situation based on the information provided. Therefore, the requirements for riprap, freeboard, spillway and 3:1 interior slopes must be addressed. This is consistent with the Water Quality Division Rules and Regulations, Chapter X, Appendix A, Section 2 (b).

4. Dewatering down to dead pool level. The statement that ponds will be dewatered down to about a 2 foot level is inadequate when most of the ponds are only 3-6 feet deep. The dead pool elevation should be identified for each pond so the Department of Environmental Quality, Water Quality Division, can determine if NPDES requirements are being met. From an operation and maintenance standpoint,

each pond should have a well-marked stake showing the dead-pool level so operators will know when and how much water must be pumped out.

Along the same lines, the maximum sediment storage elevation should be identified and located in the field for each pond for operation and maintenance purposes.

5. A couple of ponds (7-81-1, 16-81-1) are shown on the plans but they are not identified as either existing or proposed. What is the status of these?

TN/nc

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Seminoe #2 Mine Plan, Carbon Co.

ARCHITECT OR ENGINEER: James F. Felber, Arch Mineral Corp.
P.O. Box 460, Hanna, WY 82327

APPLICANT: Arch Mineral Corp.
P.O. Box 460, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 85-317 thru 85-336

REVIEWING ENGINEER: Thomas S. Norman *TBN*

DATE OF REVIEW: July 2, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Location maps

- 1. The scale is too small to verify drainages and pond location.
- 2. Define the drainage areas for each pond - both pre- and post-mining.
- 3. Designate the disturb and undisturbed areas.
- 4. Identify any existing ponds.

B. Design Data Sheet

- 1. Ponds 20-77-1, 20-77-2, 9-H2-1 and 30-H5-1 are identified in the NPDES permit as containing process water but no mention is made of it in this submittal for design purposes.
- 2. Why aren't ponds 13-H5-1 and 13-H5-3 identified in the NPDES permit as discharge points as they contain process water?
- 3.
 - a. In the soil erosion calculations, the seventh column does not appear to represent a 3 year accumulation but represents only a 1 year soil loss. Also I could not agree with the sediment yield results. Please submit an example calculation.
 - b. The area for ponds 12-79-3 and 30-H5-1 does not agree with the maximum drainage basin area.
 - c. The rainfall factor for the tipple area is wrong which results in a wrong sediment yield. Why is the tipple area included as there doesn't seem to be an application for it?

4. In the sediment pond design calculations, the design volumes for ponds 16-H2-2 and 24-H5-2 are wrong.
5. What is the basis for design for the ponds containing process water? Provide documentation that the discharge limits can be met. What are the flow values?

C. Typical Pond Design Sheet

1. Erosion control is required at the inlet of typical ponds A, C, & D. If riprap is used, please provide the gradation requirements, depth of placement, and placement area.

The elimination of erosion control on typical pond B was not provided. Although the slope is small, the volume of wastewater is significant. Our model estimates over 300 cfs at peak flow.

2. On the above grade ponds (C & D), an evaluation must be made as to the need for riprap at all anticipated water levels to control erosion.
3. The above grade pond's interior slope cannot exceed a 3:1 slope and the top of dike must be of a width that provides structural stability.
4. Seepage control devices are required on the outlet pipes.
5. The above grade ponds must have specifications on the fill material and methods of construction (compaction, water content, maximum size of rocks, depth of lifts, type of compaction device, etc.).
6. The method of dewatering the sedimentation ponds down to dead pool level must be identified. The dead pool level must be shown. The NPDES permit requires a method of measuring flow to within $\pm 10\%$.
7. Have the emergency spillways been identified and sized?
8. What is the freeboard on the above-grade ponds?
9. The NPDES permit requires that sedimentation ponds be sampled every 5 days when water is stored in them to determine if they can meet discharge limits. Once the wastewater meets the discharge limits, it must be discharged within 10 days. During future inspections, we will inspect your records to see that any ponds containing wastewater are being sampled every five days and wastewater is being discharged when it meets the NPDES limits. I suggest that a schedule and forms be developed to make sure that all ponds are inspected on the required basis.
10. The riprap requirements below the outlet pipes must be specified as to size, gradation, depth, etc.

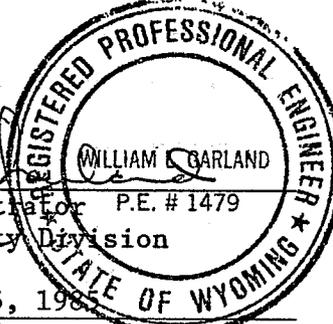
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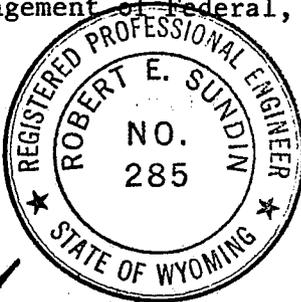
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AUTHORIZED BY:

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

Administrator P.E. #1479
Water Quality Division
August 15, 1985

Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "ROBERT E. SUNDIN" and "NO. 285".
Robert E. Sundin

Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Wolfley Construction Office Building

ENGINEER: Lloyd B. Baker
Baker Engineers
142 E. 200 South
Salt Lake City, UT 84111

OWNER: Bruce Wolfley
P.O. Box 1058
Etna, WY 83118

WATER QUALITY DIVISION REFERENCE NUMBER: 85-337

REVIEWING ENGINEER: Bill Locke *BL*

DATE OF REVIEW: July 16, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans has been completed. Several items must be addressed before a permit to construct will be issued.

1. Absorption systems shall not be located beneath buildings, parking lots, roadways or other similarly compacted areas. Please verify that this system is in compliance with this requirement.
2. Soil exploration and percolation tests are required in accordance with Appendix "A" of the Water Quality Rules and Regulations, Chapter XI. The depth to bedrock or impermeable soil must be at least four feet from the ground surface. Depth to groundwater must be at least four feet below the bottom of the absorption system.
3. A detail of the septic tank design and configuration is required. Minimum sizing of septic tanks for commercial use is 1,000 gallons.
4. Please review Part D of Chapter XI of the Water Quality Rules and Regulations for minimum design requirements for septic tank/soil absorption systems. If you do not have a copy of these regulations, you can obtain one from this office.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

ABC

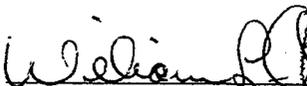
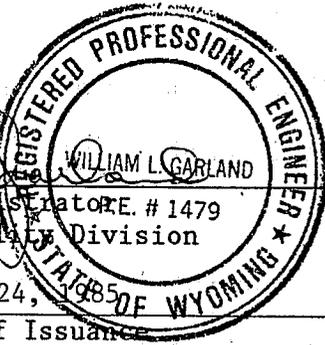
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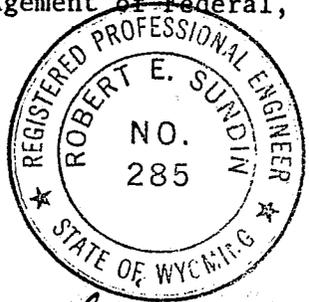
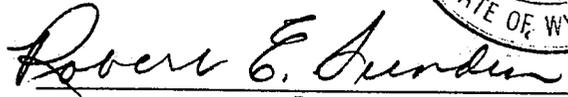
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator, # 1479
Water Quality Division
June 24, 1985
Date of Issuance



Director
Dept. of Environmental Quality

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

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

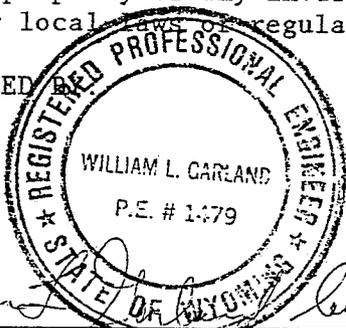
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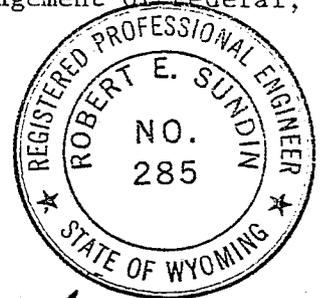
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AUTHORIZED



William L. Carland

Administrator
Water Quality Division



Robert E. Sundin

Director
Dept. of Environmental Quality

July 16, 1985
Date of Issuance

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

9-24



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 23, 1986

Mr. Bill Payne
Frontier Oil
P.O. Box 1588
Cheyenne, WY 82003

RE: Porter Draw Pond, Flow Measuring Meter, DEQ/WQD Ref. No. 85-340

Mr. Payne:

Your application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules & Regulations, must be followed.

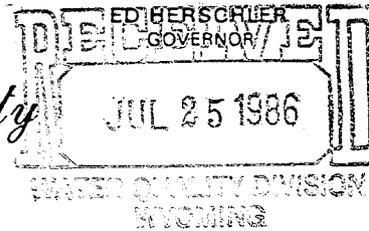
Sincerely,

William L. Garland
Administrator

WLG/TSN/nc



Department of Environmental Quality
Water Quality Division



HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 16, 1986



Jerry Smith
Husky RMT Properties
P O Box 1588
Cheyenne, WY 82003

Dear Mr. Smith:

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

Facility name:	Porter Draw Pond, Flow Measuring Meter
DEQ/WQD Reference Number:	85-340
Engineering Consultant:	William Payne
DEQ/WQD Reviewing Engineer:	Leroy Feusner
Date of DEQ/WQD Review:	06-26-85

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

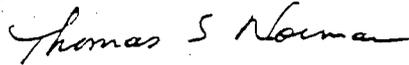
Please indicate below the status of your application and return this form to our office:

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

RON

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Thomas S. Norman
Southeast
Water Quality Division

TSN/pjb

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: Flow Measuring Orifice Meter/Porter Draw Pond, Laramie Co.

ARCHITECT OR ENGINEER: Jerry Smith, Husky RMT Properties, Inc.
P.O. Box 1588, Cheyenne, WY 82003

APPLICANT: William Payne, Husky RMT Properties, Inc.
P.O. Box 1588, Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 85-340

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

DATE OF REVIEW: June 26, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The application for the permit to construct the flow measuring orifice meter was attached to the application/groundwater well data for the monitoring well program at the Cheyenne Husky RMT Properties refinery. No construction plans/specifications, signed or sealed by a professional engineer licensed in Wyoming, were submitted for the flow measuring application. Submit three complete sets.



THE STATE OF WYOMING

85-34
MA
14542

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 3, 1985

The Carter Mining Company
ATTN: Mr. Ron Landers, Regulatory Affairs Manager
P.O. Box 3007
Gillette, WY 82716

Dear Mr. Landers:

Enclosed is the signed permit authorizing the operation of the recharge system as applied for under application GPC 85-341.

Please note the various conditions throughout the permit, specifically the requirement for monitor reports. I have also enclosed 12 copies of Form GPC 7, a copy of which should accompany each quarterly report.

If you have any questions concerning this permit or its conditions, please contact the undersigned at (307) 777-7781.

Sincerely,

Richard J. Lennox
Groundwater Engineering Evaluator

RJL/nc
Enclosures

cc: File

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE OF WYOMING
GROUNDWATER POLLUTION CONTROL PERMIT
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS
(Permit to Inject)

(X) New

Permit Number:

() Modified

GPC 85-341

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

The Carter Mining Company
ATTN: Mr. Ron Landers, Regulatory Affairs Manager
P.O. Box 3007
Gillette, WY 82716

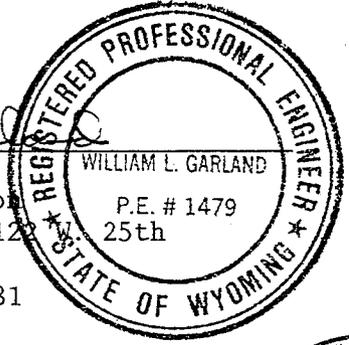
is authorized to operate

a system of recharge wells designed to dispose of groundwater collected from dewatering a saturated clinker coal unit to be mined by the Carter Mining Company in sections 23 and 24, T48N, R71W in Campbell County. The permitted wells include those specified in the permit application. Additional recharge wells may be installed if prior approval has been obtained from the Administrator of the Water Quality Division.

according to procedures and conditions of the application GPC 85-341 and requirements and other conditions of this permit.

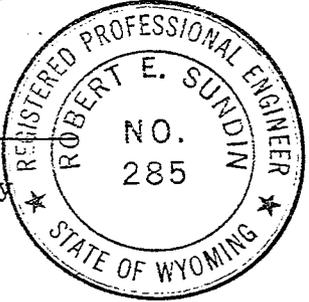
This permit shall become effective on date of issuance.

William L. Garland
Administrator
Water Quality Division
Herschler Building, 122 W. 25th
Cheyenne, WY 82002
Phone: (307) 777-7781



July 2, 1985
Date

Robert E. Sundin
Director
Department of Environmental Quality
Herschler Building, 122 W. 25th
Cheyenne, WY 82002



July 3, 1985
Date

A. Discharge (Injection) Zone and Area of Review

The discharge zone is located within the northern clinker coal unit (DW-2 clinker unit).

The area of review encompasses Sections 22, 23, 24, 25, 26, 27, 34, 35 and 36 in T48N, R71W, Campbell County.

B. Groundwater Classification

Groundwater in the injection zone is classified as Class III. This classification is based on water quality analyses submitted with the application under the state groundwater classification system contained in Water Quality Rules and Regulations, Chapter VIII.

C. Authorized Operations

The permittee is authorized to inject water for the purpose of recharge into the "DW-2 clinker unit" located in the NE1/4 NE1/4 Section 23, T48N, R71W, Campbell County. The injected water to be removed from the "DW-3 clinker unit" located in the S1/2 SW1/4 Section 23 and the N1/2 NW1/4 Section 26, T48N, R71W, Campbell County. This recharge program is designed to conserve water resources and is primarily moving water from one portion of a coal clinker unit to another portion within the same unit.

The recharge programs will cease when the water in "DW-2 clinker unit" increases from 4,437 feet to an elevation of approximately 4,448 feet.

All recharge through wells located in the "DW-2 clinker unit" will be gravity feed only with no well head pressure being applied. It is anticipated that the recharge rate will approach 2,000 gallons per minutes, therefore this 2,000 gallon per minute rate will be the maximum authorized by this permit.

The permittee shall not exceed the maximum recharge rate without prior written approval of the administrator of the Water Quality Division.

No other use for or by the injection wells is authorized by this permit.

D. Proper Operation and Maintenance

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the Administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

The permittee shall allow the Administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. Names of individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

The permittee will keep operating records for the recovery wells and the recharge wells.

Water quality samples will be analyzed quarterly from the operating wells in the "DW-3 clinker unit". Monthly water levels will be monitored in all operating wells in the "DW-2 and DW-3 clinker units". Quarterly reports will be submitted to the Water Quality Division. The reports will include operating records concerning recharge rates, water quality data collected from the dewatering wells and all water level data collected.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

Injection rate shall be monitored to ensure the maximum rate of 2000 gpm is not exceeded.

All data shall be reported within thirty days after the end of the reporting period. Information shall be reported to:

Department of Environmental Quality
Water Quality Division
Groundwater Section
Herschler Bldg., 4 West, 122 West 25th Street
Cheyenne, WY 82002

Each report shall be accompanied by a completed Form GPC 7. Note "Signatories Requirement" on page 8 of this permit.

H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7.

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the Administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified elsewhere in the permit.

5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable Groundwater of the State.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable Groundwaters of the State.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The Administrator may require the owner/operator to deliver the records to the Administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a Groundwater Pollution Control Permit has been issued by the Department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the Administrator, and
 - b. The Administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the Administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and

c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the Administrator.

11. Annual reports shall be submitted to the Administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the Administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

1. Violation of the permit;
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the Council.

This operation (permit) can be terminated by authority of the Administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the Administrator.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

Visual inspection to verify that the wells have been completed according to the specifications included in the permit application.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical

integrity has been restored and permission to continue the discharge has been obtained from the Administrator.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only the 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.

L. Abandonment

The permittee shall notify the Administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the Director and follow the procedures prescribed by the Director for plugging and abandonment or the discontinuance of related activities:

Plugging and abandonment procedures will be implemented upon the discontinuance of each particular well or upon the termination of the useful operation of a well.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the Administrator within a reasonable time, any information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the Administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the Director, to close, plug and abandon the discharge operation in a manner prescribed by the Director.

Not applicable.

O. Special measures the Director finds necessary:

In the event of unauthorized movement of recharge water, the permittee will take immediate corrective action.

P. Special permit conditions:

Pollution or waste which migrates into an aquifer containing a usable groundwater of the State is a violation of the permit.

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

Q. Signatories Requirement

All reports required by this permit and other requested information 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; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the Administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the Administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"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."

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification or planned changes or anticipated noncompliance, does not stay any permit condition.

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the Department Director.

T. Responsibilities

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.

U. Property Rights

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.

V. Severability

The provisions of this permit are severable, and if any provision of the permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-342
 SEE CONDITIONS ATTACHED TO THIS PERMIT

MA14542

Greselin 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 fluids reserve pit according to the procedures and conditions of the application No. 85-342. The facility is located in Section 32, T54N, R68W in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

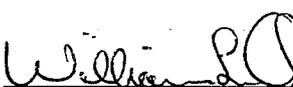
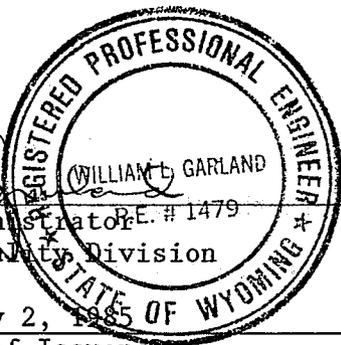
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

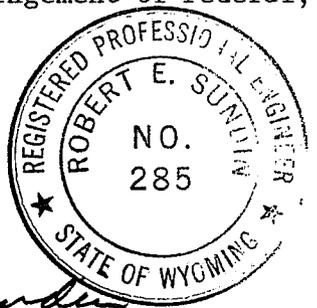
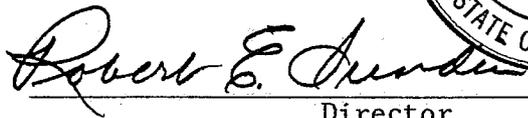
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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



Admin. # 1479
Water Quality Division
July 2, 1985
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 189,000 gallons of drilling fluids wastewater on the surrounding 2.5 miles of road, comprising 6 acres, a total liquid application of 1.15 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-342

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.

7-8

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-343
SEE CONDITIONS ATTACHED TO THIS PERMIT
MA 14542

Hauber 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 fluids reserve pit according to the procedures and conditions of the application No. 85-343. The facility is located in Section 29, T54N, R70W in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

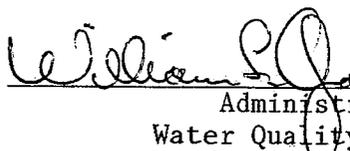
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

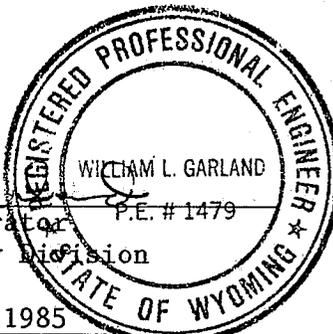
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:

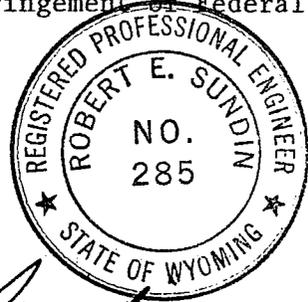


Administrator
Water Quality Division





Director
Dept. of Environmental Quality



July 2, 1985
Date of Issuance

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

This permit authorizes you to dispose of 294,000 gallons of drilling fluids wastewater on the surrounding 1.5 miles of road, comprising 3.5 acres, a total liquid application of 3.1 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-343

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. 85-344
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

Spring Creek Fed. 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 fluids reserve pit according to the procedures and conditions of the application No. 85-344. The facility is located in Section 27, T41N, R70W in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

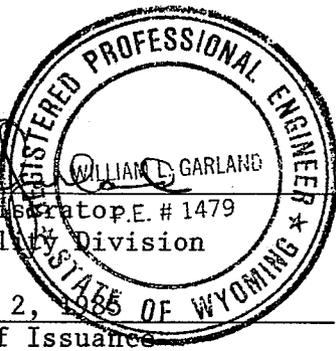
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

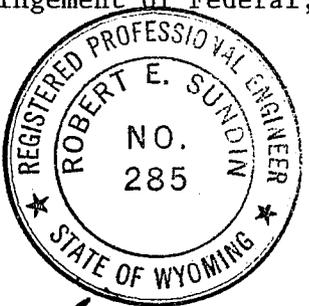
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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, E. # 1479
Water Quality Division
July 2, 1985
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

This permit authorizes you to dispose of 210,000 gallons of drilling fluids wastewater on the surrounding 2.25 miles of road, comprising 5.5 acres, a total liquid application of 1.42 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-344

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. 85-345
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

Continental Peak Fed. #1-3
 (Name of Facility)

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

European Southwest Sweetwater Partnership

c/o Haymaker and Associates

P.O. Box 2440

Casper, WY 82602

to construct, install, or modify a drilling fluids reserve pit according to the procedures and conditions of the application No. 85-345. The facility is located in Section 3, T27N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

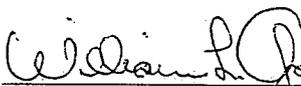
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

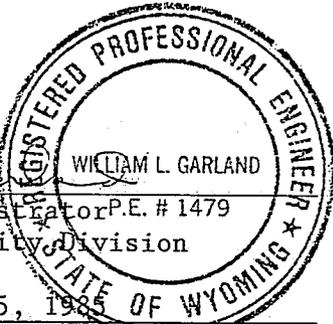
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

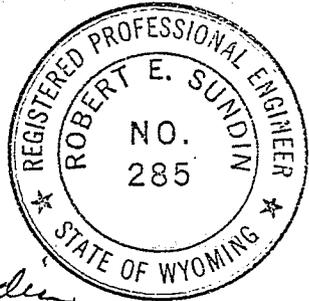
AUTHORIZED BY:



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

July 5, 1985

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 239,392 gallons of drilling fluid wastewater on the surrounding 2.5 miles of road, comprising 6 acres, a total liquid application of 1.45 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-345

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. 85-346
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

Horse Tract Federal #1-22
 (Name of Facility)

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

European Southwest Sweetwater Partnership

c/o Haymaker and Associates

P.O. Box 2440

Casper, WY 82602

to construct, install, or modify a drilling fluids reserve pit according to the procedures and conditions of the application No. 85-346. The facility is located in Section 22, T27N, R97W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

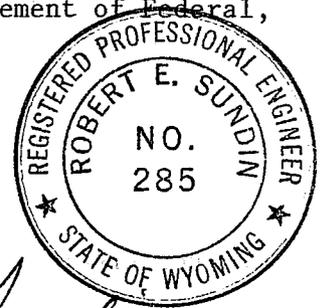
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

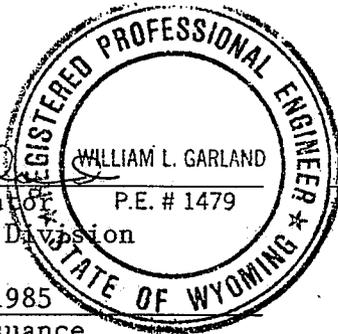
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



William L. Garland

Administrator
Water Quality Division



Robert E. Sundin

Director
Dept. of Environmental Quality

July 5, 1985
Date of Issuance

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

This permit authorizes you to dispose of 239,392 gallons of drilling fluid wastewater on the surrounding 2.25 miles of road, comprising 5.5 acres, a total liquid application of 1.6 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-346

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.

7-12

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 85-347
SEE CONDITIONS ATTACHED TO THIS PERMIT

MA 14542

Black Mountain Tank Battery
(Name of Facility)

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

Texaco, Inc.

P.O. Box 3360

Casper, WY 82602

to construct, install, or modify road dust control according to the procedures and conditions of the application No. 85-347. The facility is located in SW NW Section 36, T43N, R91W in the Counties of Hot Springs and Washakie, in the State of Wyoming.

This permit shall be effective for a period of one (1) 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.

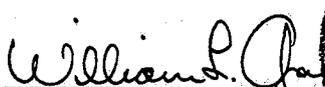
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

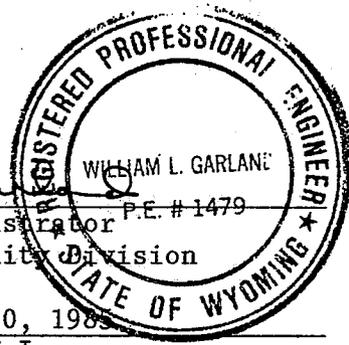
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

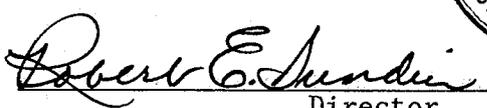
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

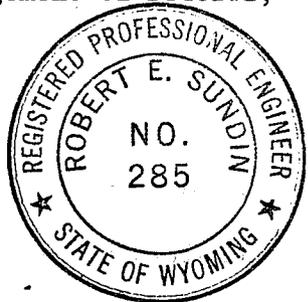


Administrator P.E. # 1479
Water Quality Division
July 10, 1985
Date of Issuance





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 126,000 gallons of crude oil tank bottoms on the surrounding 20 miles of roads, comprising 48.5 acres, a total liquid application of 0.10 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-347

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.



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 10, 1985

Gary Rosenlieb
USDI - BLM
P.O. Box 119
Worland, WY 82401

RE: Permit #85-347, Texaco Black Mountain Unit

Dear Gary:

Enclosed please find a copy of the permit application and permit for incorporating treater sludges into lease roads at the Black Mountain Unit.

As you will note in comparing the analysis for total metals with the eight EP toxicity test metals, only barium is extractable. This appears to be a reasonable manner for maintaining files on oily waste disposal should EPA wish to review the permit process in the near future.

Sincerely,

A handwritten signature in cursive script, appearing to read "E. J. Fanning".

E. J. Fanning
Water Quality Soil Specialist

EJF/nc
Enclosures

cc: Charles Porter, DEQ/SWM

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-348
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

Wolf Federal 32#1
 (Name of Facility)

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

HNG Oil Company
508 W. Wall St., Suite 900
Midland, TX 79701

to construct, install, or modify a drilling fluids reserve pit according to the procedures and conditions of the application No. 85-348. The facility is located in Section 32, T18N, R118W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of one (1) 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.

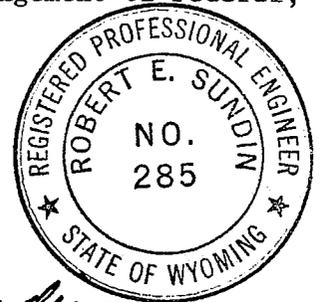
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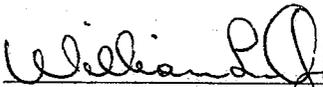
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

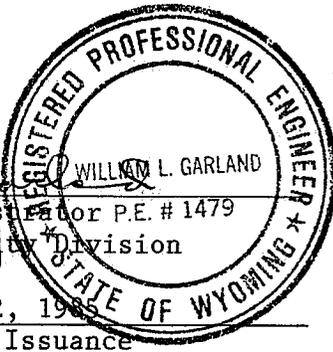
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

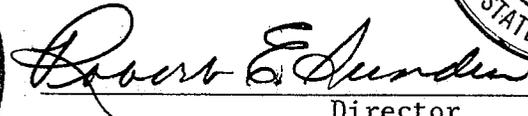
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
July 2, 1985
Date of Issuance

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


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 403,974 gallons of drilling fluids wastewater on the surrounding 3.5 miles of road, comprising 8.5 acres, a total liquid application of 1.75 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-348

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. 85-349
 SEE CONDITIONS ATTACHED TO THIS PERMIT
 MA 14542

Mexican Flats Water Disposal Facility
 (Name of Facility)

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

Snyder Oil Company

1800 Glenarm Place, 7th Floor

Denver, CO 80202

to construct, install, or modify a commercial oil field produced water evaporative/containment pond facility according to the procedures and conditions of the application No. 85-349. The facility is located in Section 17, T15N, R92W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

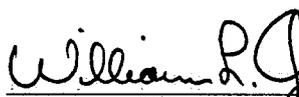
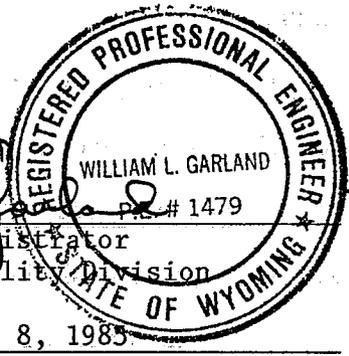
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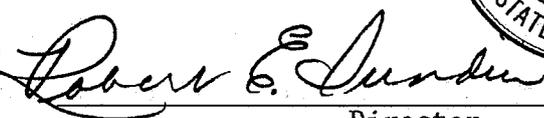
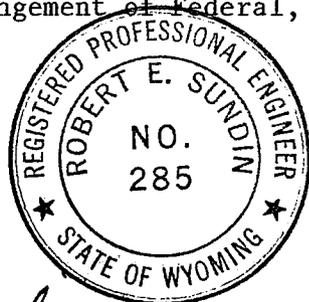
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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



Director
Dept. of Environmental Quality


July 8, 1985
Date of Issuance

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

- cc: Kenneth Temme, Chen & Associates, Inc., 605 N. Warehouse Rd., Casper, WY 82601
- Penney Smalley, BLM/Rawlins, Box 670, Rawlins, WY 82301
- Phil Pucel, DEQ/WQD, Cheyenne
- Tom Williams, DEQ/WQD, Cheyenne

Conditions to Permit to Construct #85-349

1. Testhole 9 data indicate that a paleochannel or an eroded surface in the bedrock topography filled with a silty sand may exist. MW-4 shall be located in this apparent channel. Some extra boreholes may be necessary to confirm the optional location.
2. Testhole 10 appears to be located in a bedrock topography depression. The applicant shall move MW-6 location to the Testhole 10 position.
3. MW-1 shall be installed as a staggered well system. One well completion shall be accomplished at the indicated monitoring depth with a second well completed 15 feet below measured groundwater level.
4. No hazardous wastes, as defined by the US EPA or the State of Wyoming may be disposed in this facility. This pond is authorized to receive only produced water.
5. Subsurface Monitoring Program - Groundwater Present. Samples shall be collected and analyzed by the applicant on a quarterly basis. Samples shall be collected in a matter acceptable with the Wyoming Department of Environmental Quality and shall be analyzed for pH, total dissolved solids, chlorides, sulfates, oil and grease, sodium, and potassium. Reports shall be submitted to Tom Williams, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 West 25th Street, Cheyenne, Wyoming 82002, within 20 days following the sampling event.
6. Subsurface Monitoring Program - No Groundwater Present. The monitoring wells shall be checked once per month for the presence of fluid. If any fluid is discovered, the Department of Environmental Quality, Water Quality Division, Cheyenne Office (307-777-7781) shall be notified immediately. No notification is required for the deep staggered monitoring well in MW-1. Groundwater samples shall be collected by the applicant according to the above procedure and analyzed for the parameters listed in condition 5. If no groundwater is detected in the shallow MW-1, 2, 3, 4, 5 or 6, the deep staggered monitoring well does not require sampling. Submission of negative reports to the Water Quality Division is required at the above address.
7. When the deep staggered monitoring well in MW-1 has been completed and prior to this facility receiving any produced water, the applicant shall collect and analyze a groundwater sample for the parameters listed in condition 5 and submit the results to the address provided.

LF/nc

2-3-86

MA 14542

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 30, 1986

Mr. Ken Temme
Chen and Associates
605 North Warehouse Road
Casper, WY 82601

RE: Permit to Construct Application No. 85-568, Modification to Groundwater
Monitoring Well Locations Contained in Permit to Construct No. 85-349

Mr. Temme:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (No. 85-568) for a permit to construct a modification of groundwater monitoring well locations contained in permit to construct No. 85-349 for your Mexican Flats Water Disposal Facility. The Water Quality Division has determined that the system meets the minimum design standards.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter 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 letter. 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 letter, the state does not in any way waive its sovereign immunity.

Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the Mexican Flats Water Disposal Facility groundwater monitoring well construction meets minimum state specifications and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

Sincerely,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland, P.E.
Administrator

WLG/LCF/nc

cc: Snyder Oil Company, Soco Plaza, 7th Floor, 1800 Glenarm Place, Denver, CO 80202

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-350R

MA 14542

19th Street and Albany
(Name of Facility)

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

City of Cheyenne

2101 O'Neil Avenue

Cheyenne, WY 82001

to construct, install, or modify a public water supply facility according to the procedures and conditions of the application No. 85-350R. The facility is located in Section 32, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

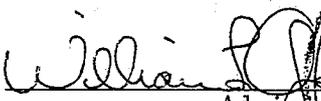
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:


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


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

July 5, 1985
Date of Issuance

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

cc: Jerome J. Morris
City of Cheyenne
2101 O'Neil Avenue
Cheyenne, WY 82001

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Building, 4 West, 122 West 25th
Cheyenne, Wyoming 82002

PROJECT: 19th Street and Albany, Cheyenne, Wyoming, Laramie Co.

ARCHITECT OR ENGINEER: Jerome J. Morris, City of Cheyenne,
2101 O'Neil Avenue, Cheyenne, WY 82001

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

WATER QUALITY DIVISION REFERENCE NUMBER: 85-350

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: June 26, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Submit three sets of drawings with the application.
2. At Garrett Street the profile shows an 8 inch valve whereas the area drawing shows a 4 inch valve.
3. Show more detail of the swivel tee and 8x4 reducer in the middle of 19th Street. The way the drawing is now, it is hard to tell what is being done and why.