

27

PERMIT TO CONSTRUCT

PERMIT NO. 88-051

- New
- Renewal
- Modified

12TH STREET SEWER LINE REPLACEMENT

This permit hereby authorizes the applicant:

Town of Wheatland
600 9th Street
Wheatland, WY 82201

to construct, install or modify a municipal wastewater collection system according to the procedures and conditions of the application number 88-051. The facility is located in SE $\frac{1}{4}$, NW $\frac{1}{4}$, S13, T24N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 ensures 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.

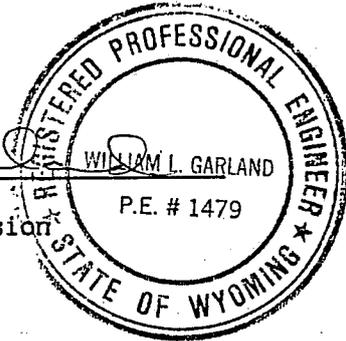
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 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 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 Wood
Director
Department of Environmental Quality

3-10-88

Date of Issuance

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

RF
JN

PERMIT TO CONSTRUCT

PERMIT NO. 88-052

- New
- Renewal
- Modified

Yellowstone Village 3rd Filing - Sewer Replacement

This permit hereby authorizes the applicant:

City of Chevenne
Board of Public Utilities
2100 Pioneer Ave.
Chevenne, WY 82001

to construct, install or modify municipal wastewater collection system according to the procedures and conditions of the application number 88-052. The facility is located in S19, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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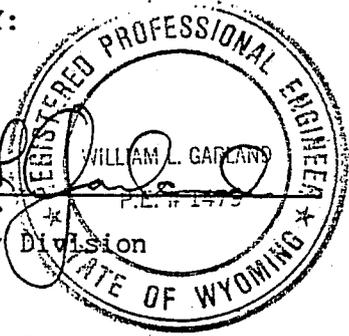
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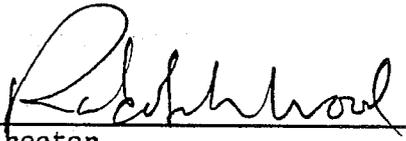
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AUTHORIZED BY:


William Garland
Administrator
Water Quality Division


Director
Department of Environmental Quality

3-3-88
Date of Issuance

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

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



MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

April 8, 1988

John Fantin
Tri State Water Inc
1700 Carson Street
Rock Springs, WY 82901

RE: Tri State Chemical, 88-053, Sweetwater

Dear Mr. Fantin:

Please note the following conditions on permit to construct 88-053:

1. The proposed well locations were moved.
2. Locking caps must be installed on the monitoring wells.
3. Two weeks notice is required prior to drilling (Bill Locke, DEQ/Lander will be present).
4. The wells must be installed by May 15, 1988.
5. Only a qualified person(s) may sample the wells.

If you have any questions or comments, please feel free to call me at 777-6183.

Sincerely,

Randy Huffsmith
Groundwater Engineer
Water Quality Division

RH/mad

cc: Bill Locke, Lander

PERMIT TO CONSTRUCT

PERMIT NO. 88-053

See Conditions

X New
Renewal
Modified

Tri-State Chemical

This permit hereby authorizes the applicant:

Tri State Water Inc.
1700 Carson Street
Rock Springs, WY 82901

to construct, install or modify a monitoring wells according to the procedures and conditions of the application number 88-053. The facility is located in S35, T20N, R105W in the county of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) (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 ensures 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.

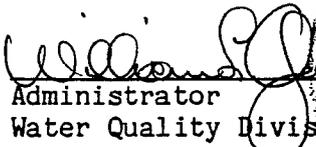
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

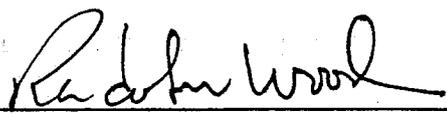
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

4-13-88
Date of Issuance

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

Conditions for Permit 88-053

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-053. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), 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 Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Locking well caps will be used and well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial

Conditions to Permit 88-053 (continued)

actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination if contamination is found in the proposed wells.

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. A protective casing and locking cap is strongly recommended;
 - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a

Conditions to Permit 88-053 (continued)

minimum:

- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A potentiometric surface map showing the direction of groundwater movement; and
 - i. Interpretation of data and conclusions including recommendations involving weather or not further monitoring wells may be required.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 10. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
 11. Proposed wells #4 and #5 will be moved directly west of the fence line and to the northwest corner of the building shown respectively.
 12. Sampling will be done by qualified personnel and a minimum of two samples from each well will be taken with in 30 days (one immediately after drilling and one 30 days after that) and analyzed for the following: Oil and Grease, TDS, Ph, Sulfate, Chloride, Potassium, Sodium, Aluminum, Barium, Cadmium, Calcium, Iron, Magnesium, Maganese, Nickle, Ammonia as Nitrogen and Alkalinity as CaCO_3 . Results should be sent to DEQ immediately after they are received. After initial water quality results are received by division, a monitoring schedule maybe necessary.
 13. Initial monitoring wells will be installed on or before May 15, 1988.

cc: Jake Strohman

Conditions to Permit 88-053 (continued)

minimum:

- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A potentiometric surface map showing the direction of groundwater movement; and
 - i. Interpretation of data and conclusions including recommendations involving whether or not further monitoring wells may be required.
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 13. Initial monitoring wells will be installed on or before May 15, 1988.

cc: Jake Strohmman

THE STATE



OF WYOMING



Department of Environmental Quality

Air Quality Division
(307) 332 3144

Land Quality Division
(307) 332 3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

February 25, 1988

City of Lander
ATTN: Don Dunham
Engineering Supervisor
183 S. 4th Street
Lander, WY 82520

RE: Revisions to Lander's Standards and Specifications, 88-54,
Ref. No. 86-54R

Dear Don:

This office has reviewed the amendments to the City of Lander's Standards and Specifications that you submitted on February 19, 1988. The amended specifications appear to meet the minimum Water Quality Division standards for water and sewer line construction. Therefore, the Standards and Specifications as amended are authorized by this office for use as project specifications.

Applications for permits to construct that are submitted to this office need only reference these specifications on the plan sheets. As in the past, any additions or modifications to the authorized specifications for water and sewer line construction, must be reviewed by this office to insure compliance with the Water Quality Division standards.

Sincerely,


Jeff Hermansky
Water Quality Evaluator

JH/jw
cc: Specs. 88-54

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-055

- New
- Renewal
- Modified

BOYD WATHEN DIANA GOLD MINE

This permit hereby authorizes the applicant:

Department of Environmental Quality
Water Quality Division
Herschler Building
Cheyenne, Wyoming 82002

to construct, install or modify a groundwater monitoring well network according to the procedures and conditions of the application number 88-055. The facility is located in Section 12, T29N, R100N in the county of Fremont, in the State of Wyoming. This permit shall be effective for a period of one (1) year (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

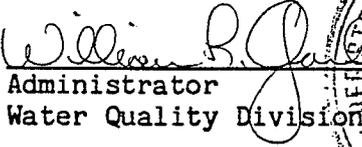
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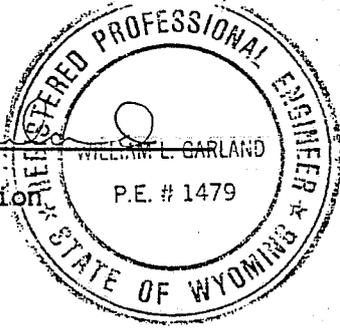
777-7781.

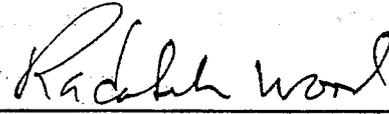
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

2-29-88
Date of Issuance

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

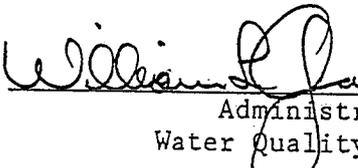
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

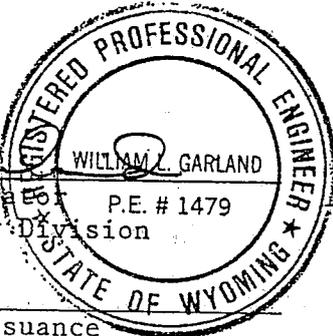
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. # 1479
7-7-88
Date of Issuance





Director
Dept. of Environmental Quality

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

Conditions On Permit

This permit is issued with the requirement that the permittee abide by the following conditions:

1. A groundwater monitor well constructed in accordance with the authorized detail must be constructed about 500 ft± down gradient (southwest) of the leach fields. The well must be completed and sampled prior to October 1, 1988. Samples must be taken and analyzed over at least 2 quarters to establish background quality, with yearly analysis thereafter. Samples must be analyzed for chlorides, nitrates, TDS, and ammonia with the results sent to the DEQ/WQD, groundwater section in Cheyenne.

2. A grease interceptor must be installed between the kitchen drains and the sewer main. A detail of the interceptor must be sent to the DEQ/WQD in Lander prior to construction.

3. The well logs of the new domestic and fire wells must be sent to the DEQ/WQD, groundwater section in Cheyenne upon completion of drilling.

4. An engineer must certify that the disposal bed liner/material (soil) meets the requirements of the specifications. The engineer must witness the liner installation.

5. The Teton County Sanitarian must be notified at least 48 hours prior to the start of the septic tank/disposal bed construction.

RF
SN

PERMIT TO CONSTRUCT

PERMIT NO. 88-057
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Maverick Country Store #135 Sheridan

This permit hereby authorizes the applicant:

John R. Haus
Maverick Country Stores
P O Box 457
Afton, WY 83110

to construct, install or modify a recovery svstem according to the procedures and conditions of the application number 88-057. The facility is located in S22, SE $\frac{1}{4}$ NE $\frac{1}{4}$, T56N, R84W in the county of Sheridan, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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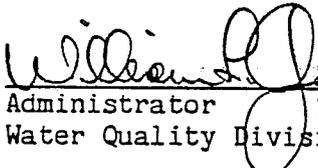
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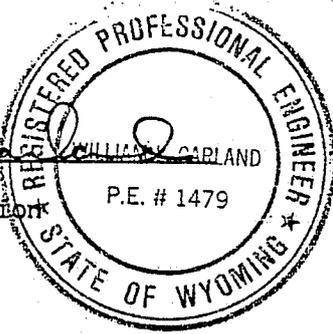
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

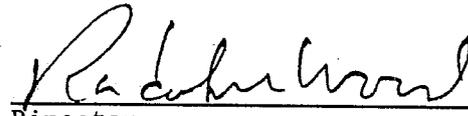
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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

3-3-88
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT 88-057

1. Once the hydrocarbon recovery system has been installed, the owner will provide the Department of Environmental Quality, Water Quality Division with a report that details the lithological logs.
2. The results of any analyses conducted on soil or water removed from this recovery system during the lifetime of the facility shall be provided to the Water Quality Division as soon as they are available.
3. All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
4. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. The issuance of this permit does not relieve the permittee from obligations to complete an Extent of Contamination study and any future remedial actions which may be required.
6. The permittee shall notify the division of the name, phone number and address of the on-site operator of the recovery system.
7. The permittee shall operate the recovery system at least daily until the Department of Environmental Quality, Water Quality Division allows other operational plans.
8. The hydrocarbon recovery system shall be "winterized" to prevent freeze-up and breakdown.

Conditions to Permit 88-057 (continued)

- A status report shall be provided to the division on a quarterly basis with reports due by the last day of January, April, July and October. The report shall include at a minimum, volumes purged of water and hydrocarbon product, dates and times of purging, effectiveness of the recovery system, monitoring data for all monitor wells and the recovery well, current pumping rate and radius of influence. All monitor wells shall be sampled quarterly for benzene, ethylbenzene, toluene and xylene (betx), total petroleum hydrocarbons, lead, static water levels, and product layers. If product layers exist, samples need not be taken for betx or total petroleum hydrocarbons. All reports are due within 30 days of the end of each quarter.
10. In the event the system does not operate as planned or effectively recover the gasoline product layer, provisions shall be made for correcting the deficiencies. In any event, the hydrocarbon product and related dissolved constituents shall be recovered and cleaned up in a timely and diligent manner until released by Department of Environmental Quality, Water Quality Division.
 11. All contaminated water and hydrocarbon product shall be disposed of properly.
 12. This system will be considered temporary until other more effective means can be employed.
 13. A field logbook of all activities with daily entries shall be kept at the site.

/nc

cc: John Pool, Northern Engineering & Testing, P O Box 30615, Billings, MT 59107
Steve Gerber, DEQ/WQD, Lander
Jake Strohmman, DEQ/WQD, Cheyenne



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

88-058



Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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October 19, 1988

Marvin J. Worden
Box 944
Saratoga, WY 82331

RE: Worden Residence Small Wastewater System, Section 30, T18N, R83W, NW¼

Dear Mr. Worden:

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 and Regulations, must be followed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/DM/jt

PERMIT TO CONSTRUCT

PERMIT NO. 88-059
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

LITTLE AMERICA REFINING CO. - CASPER REFINERY WASTEWATER TREATMENT FACILITY

This permit hereby authorizes the applicant:

Little America Refining Company
P O Box 510
Evansville, Wyoming 82636

to construct, install or modify a industrial wastewater treatment system (API separator and IAF system) according to the procedures and conditions of the application number 88-059. The facility is located in Section 6, T33N, R78W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 ensures 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.

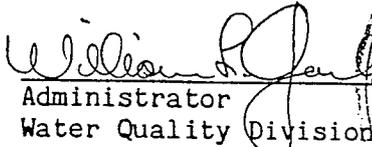
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

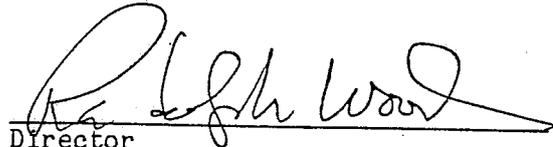
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

August 5, 1988
Date of Issuance

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

Special Conditions for Permit to Construct 88-059

1. Sludges and floats from the API separators and induced air floatation units shall be disposed of at an EPA and DEQ authorized hazardous waste disposal facility within Wyoming or transported and disposed of out-of-state.
2. A draft O & M manual shall be submitted to the Water Quality Division at 50% completion and a final O & M manual shall be approved by DEQ prior to start-up.
3. LARCO shall monitor the following:
 - a. One-time representative samples shall be taken of the wastewater from the inlet to the new API separators and from the outlet of the new IAF units. These two samples shall be taken between 30-45 days of final completion and startup of the units and shall be sampled for the following parameters:

pH	arsenic
temperature	barium
total dissolved solids	chromium
COD	cadmium
ammonia	lead
chlorides	zinc
sulfates	mercury
total organic carbon	VOC (624/8240)
total petroleum hydrocarbon(418.1)	BNA (625/8250)
phenols	oil & grease

The results for the above testing shall be submitted to the Water Quality Division within 30 days of sampling.

- b. Following the initial sampling as identified in item b. above, monthly

Conditions to Permit 88-059 (continued)

representative samples shall be taken of the wastewater from the outlet of the new IAF units. These samples shall be taken once per month and results shall be submitted to the Water Quality Division by the end of the following month. These samples shall be analyzed for the following parameters:

pH
temperature
oil & grease
phenols
total petroleum hydrocarbons (418.1)
total organic carbon
ammonia
sulfates
chlorides
lead
chromium
arsenic
BETX

- c. Flow shall be measured daily and results submitted with the other analysis.

cc: Tom Aalto, EPA-RCRA, Denver
M.D. Ensign, Sinclair Oil Corporation
P. O. Box 30825
Salt Lake City, Utah 84130-0825

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: API Separator and Induced Air Flotation

ENGINEER: Jim Lolley
P. O. Box 510
Evansville, WY 82636

APPLICANT: LARCO
P. O. Box 510
Evansville, WY 82636

WATER QUALITY DIVISION REFERENCE NUMBER: 88-059

REVIEWING ENGINEER: Thomas S. Norman TSN

DATE OF REVIEW: June 17, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

In reference to your letter of May 26, 1988, I offer the following comments:

Item 1 - We seem to have miscommunicated. In your May 10, 1988 letter, item 1.b. you stated that you had attached a typical flow chart which showed wastewater quantities. This was never received.

Item 2 & 4 - Removing the sludge drying beds from the design is acceptable. However, we need to know where the sludge will be stored, the length of storage and the ultimate disposal site. Design drawings and specifications are required for the storage vessel.

Item 3 - The Water Quality Division has jurisdiction over performance, detailed design data, and any changes to the treatment units. You may refer to Water Quality Rules and Regulations Chapter III, Section 6, 7, 9 and 13 and Chapter XI, Section 6, 7 and 25.

Item 3 & 6 - The question of performance of the proposed facilities is being addressed in a letter from Mr. Randy Wood to Mr. Dale Ensign (attached).

/jn



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

June 30, 1988

Mr. M.D. Ensign
Sinclair Oil Corporation
P. O. Box 30825
Salt Lake City, Utah 84130-0825

Re: API Separators and IAF Construction Application, LARCO Facility

Dear Mr. Ensign:

The Little America Refining Company (LARCO) in Evansville has applied for a permit to construct API separators and induced air flotation units to treat wastewater originating from the refinery. The treated wastewater from these units is proposed to be discharged to the evaporation ponds on the north side of the North Platte River.

The evaporation ponds are unlined and have been receiving wastewater from the existing wastewater treatment system for many years. The impact of the ponds to the groundwater is unknown but the potential for groundwater impacts are high. The Water Quality Division made an initial request for you to investigate these ponds in 1983 with no work being performed to date.

It is not possible to permit the current application as we do not know if the proposed treatment units are adequate to protect the waters of the state since a groundwater investigation has not been performed. In order to proceed with the current application, there are three alternatives which would be acceptable:

1. Design the wastewater treatment plant in order to meet surface water effluent limits to the North Platte River under the NPDES permitting system. We can supply you with the effluent limits which would then have to be met. You would then have to design your treatment plant to meet those limits. A construction permit would still be necessary.

2. Hold up the existing application until a groundwater investigation can be performed at the evaporation ponds. This would allow the groundwater to be classified and the integrity of the evaporation ponds to be evaluated. Impacts to groundwater would be identified and wastewater parameters established for discharge to the pond. Based on the discharge parameters, the wastewater treatment plant could then be designed to meet these limits. A construction permit would still be necessary.
3. The existing application could be permitted with conditions that the evaporation pond area be investigated in accordance with an established schedule to determine the groundwater classification, the integrity of the evaporation ponds, identify impacts to groundwater, and establish wastewater discharge parameters. If this alternative is selected, LARCO must recognize that the proposed treatment plant may not be adequate to meet new discharge parameters and therefore the plant may have to be modified or abandoned. Influent and effluent sampling would also be required during the interim period in order to provide valuable data if a redesign was necessary.

We would appreciate your input as to how you would like to proceed. We cannot permit a facility in a piece meal approach without looking at the overall impacts and where the wastewater will ultimately be discharged. If alternate #3 is selected, we would consider your recommendations for a timely clean-up plan and schedule.

Sincerely,



Randolph Wood
Director
Department of Environmental Quality

RW/TSN/jn

cc: J. L. Limes, LARCO

R.F.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: API Separator and Induced Air Flotation

ENGINEER: Jim Lolley

APPLICANT: LARCO

WATER QUALITY DIVISION REFERENCE NUMBER: 88-059

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: May 19, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. A typical flow chart was not attached which shows the flows.
2. The design information was not submitted on the sizing of the sludge drying beds. This is a necessity.
3. The design information was also not submitted on the IAF. However we will condition the permit with a performance requirement.
4. The sludge drying beds will require a double liner and leak detection system under state authority. The less than 90 day storage has no bearing on this decision. Also it is doubtful that you will be able to meet the 90 day requirement in the winter because of freezing. Not only does the sludge not dry in the winter but then you must wait for good drying weather in the spring before it will be dry enough to be removed.
5. The specification did not identify how the hydrostatic testing was to be performed on the separator, manholes, and sumps.
6. The issues regarding sampling of IAF effluent and a groundwater investigation for the north evaporation ponds will be addressed as a condition on the permit.

Note: The issues that need to be addressed before a permit to construct can be issued are items 1, 2, 4 and 5. Once these issues are adequately responded too, then a permit to construct will be issued with conditions that will satisfy our other concerns.

PERMIT TO CONSTRUCT

PERMIT NO. 88-060
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Hendon Field No. 1 - Septic System

This permit hereby authorizes the applicant:

Carol Hendon
2167 N. 16th
Laramie, WY 82070

to construct, install or modify commercial septic system according to the procedures and conditions of the application number 88-060. The facility is located in S21, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

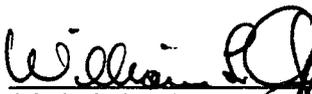
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

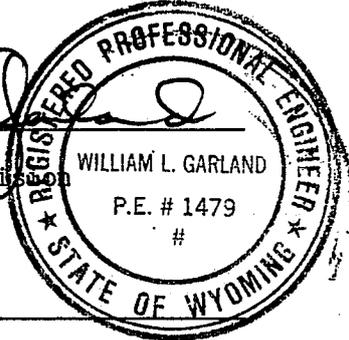
Nothing in this permit shall be construed to preclude the institution of any legal

action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

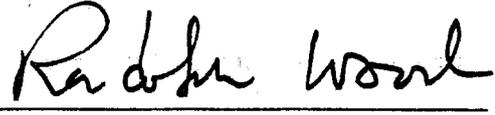
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



WILLIAM L. GARLAND
P.E. # 1479
#


Director
Department of Environmental Quality

3-4-88

Date of Issuance

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

Conditions to Permit to Construct #88-060

1. The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number (307) 721-5188, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.
2. Install 1000 gallon septic tank to be used in series after the 2500 gallon septic tank.

cc: Albany County Planning Office
Robert J. Coffey, Coffey Engineering and Surveying, Inc.
2110 Garfield, Laramie, WY 82070

PERMIT TO CONSTRUCT

[X] New
[] Renewal
[] Modified

Permit No. 88-061R

ANTELOPE COAL COMPANY SEPTIC SYSTEM
(Name of Facility)

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

Antelope Coal Company

P. O. Drawer 1450

Douglas, Wyoming 82633

to construct, install, or modify a septic tank and leach field wastewater disposal facility according to the procedures and conditions of the application No. 88-061R.

The facility is located in Section 35, T.41N., R.71W., in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

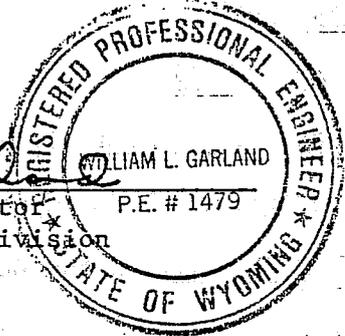
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, 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



R. L. Wood
Director
Department of Environmental Quality

3-28-88

Date of Issuance

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

norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801

PROJECT: Antelope Coal Mine
Septic System

ENGINEER: James A. Kandolin
Antelope Coal Company
P. O. Drawer 1450
Douglas, Wyoming 82633

WATER QUALITY DIVISION
REFERENCE NUMBER: 88-061

REVIEWING ENGINEER: *SJ* Susan Fields

DATE OF REVIEW: March 2, 1988

ACTION: Not Authorized

COMMENTS:

1. Are shower facilities provided for the miners? If so, the 20 gpd per person flow estimate may not be adequate for the design flow calculations. What is the current discharge rate from the existing facility?
2. There are errors in the absorption area and trench sizing calculations. The errors tend to cancel each other, but are identified below so that corrections can be made if the design flow is changed. The calculations should be as follows:

Absorption Area:

$$\frac{2,920 \text{ gpd}}{0.8 \text{ gal/ft}^2/\text{day}} = 3,650 \text{ ft}^2$$

For safety factor of 1.5

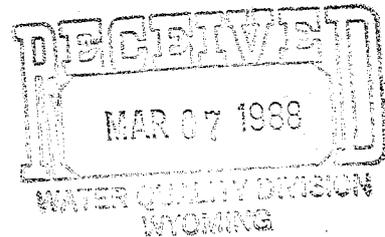
$$1.5 (3,650 \text{ ft}^2) = 5,475 \text{ ft}^2$$

Trench Sizing:

According to detail drawing, absorption area per linear foot = 6 ft² (sidewalls plus width).

$$\text{So, linear feet of trench} = \frac{5,475 \text{ ft}^2}{6 \text{ ft}^2/\text{ft}} = 912.5 \text{ ft}$$

or 4 lines, 228 ft each



3. The riser shown on the profile from the septic tanks to the ground surface is not clear on the detail sheet. Will this be a standard manhole cone or a PVC cleanout pipe?
4. The interconnecting piping between the two septic tanks should be provided with tees to prevent scum carry-over into the second tank.
5. Manholes must be installed at all bends in the sanitary sewer piping. The bends required as a result of the bypass of the existing package plant do not clearly show manhole installation. Manholes should be called out on the plans at these locations.
6. The depth to groundwater must be determined and the appropriate separation distance provided between the bottom of the leach field and the seasonally high groundwater level. Refer to Chapter XI.
7. The percolation data sheet indicates the tests were run at two-three foot depth. Is the soil in the area homogeneous enough that the same percolation rate can be expected at the nine foot depth that the leach piping will be installed?
8. Four copies of the application package will be required before final approval.

file ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-062
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Foster's Country Corner and Convenience Store

This permit hereby authorizes the applicant:

Mr. Dick Foster
1561 Jackson Street
Laramie, WY 82070

to construct, install or modify test holes and/or monitoring wells according to the procedures and conditions of the application number 88-062. The facility is located in S31, T16N, R73W 1/4 NE SE in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

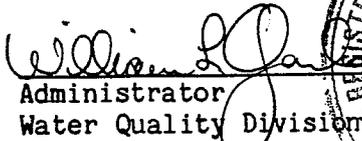
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

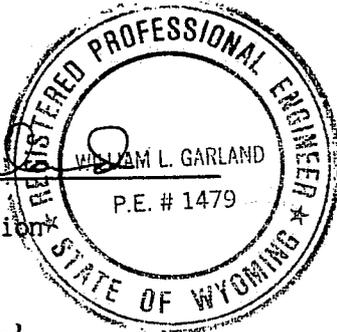
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

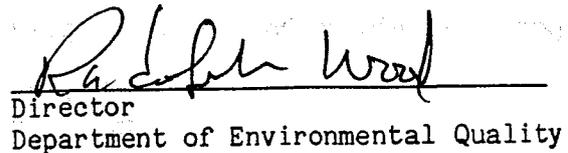
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

3-28-88
Date of Issuance

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

Conditions to Permit to Construct #88-062

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-062. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), 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 Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination of product layers and dissolved constituents.

Conditions to Permit 88-062 (continued)

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. A protective casing and locking cap is strongly recommended;
 - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;

Conditions to Permit 88-062 (continued)

- e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
12. The time schedule for plan implementation as submitted in March 1, 1988 proposal shall be adhered to.
13. The probe will be decontaminated after each measurement in the following manner:
- a. Light soap wash
 - b. Tap water rinse
 - c. Distilled water rinse
 - d. Methanol rinse
 - e. Distilled water rinse (thorough)

cc: Millah Nikkel, Western Water Consultants, 611 Skyline Road, Laramie, WY 82070
Jake Strohmman

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 88-063R

BLACK THUNDER MINE SEPTIC SYSTEM
 (Name of Facility)

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

Thunder Basin Coal Company

P. O. Box 406

Wright, Wyoming 82732

to construct, install, or modify a septic tank and leach field facility according to the procedures and conditions of the application No. 88-063R. The facility is located in Section 17, T.43N., R.70W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, 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:

Laurence Robinson

Administrator
for Water Quality Division

Richard Wood

Director
Department of Environmental Quality

5-9-88

Date of Issuance

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

xc: Doyl M. Fritz
Western Water Consultants, Inc.
P. O. Box 3016
Sheridan, Wyoming 82801

PERMIT TO CONSTRUCT

PERMIT NO. 88-064
See Special Conditions

- X New
- Renewal
- Modified

Country Club Texaco - (Hilltop)

This permit hereby authorizes the applicant:

Pine View Development Company
300 So. Wolcott St. Suite 240
Casper, WY 82601

to construct, install or modify test holes and monitoring wells according to the procedures and conditions of the application number 88-064. The facility is located in S11, NENE T33N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) (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 ensures 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.

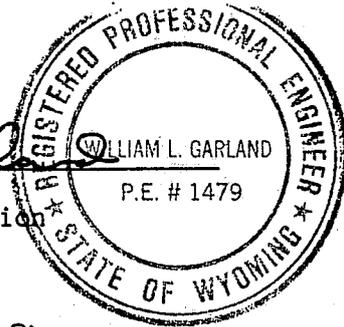
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Ra Lohr
Director
Department of Environmental Quality

3-22-88
Date of Issuance

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

Special Conditions For Permit 88-064

1. If bedrock is encountered prior to encountering water, the bedrock shall be drilled into 3-5 feet to insure that bedrock is a competent hydraulic barrier.
2. If continuation is found within the boreholes at the property line, arrangements shall be made with adjoining property owners to investigate the extent of contamination within their property.
3. If groundwater is not encountered above the bedrock, two monitoring wells shall be installed above the bedrock at the downgradient extent of contaminated soils. These monitoring wells shall be checked every month for one year for the presence of groundwater.
4. If groundwater is encountered, a sampling protocol shall be submitted to the division prior to sampling the wells. The protocol shall outline the following:
 - a. groundwater measurements;
 - b. groundwater sampling procedures;
 - c. free product detection;
 - d. decontamination procedures;
 - e. sampling preservation;
 - f. chain of custody;
 - g. type(s) of analysis;

Conditions to Permit 88-064 (continued)

- (1) BETX-EPA 602 method required
- (2) Diesel - USGS - 0-3109-83 gas chromatograph requested.
5. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-064. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
6. Once the monitor wells have been completed, the owner shall provide the Wyoming Department of Environmental Quality (DEQ), Water Quality Division with a report that details the logs and locations. If construction changes were made, they should be included in the report.
7. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), 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 Chapter XI, Part G. However a sufficient seal should be installed according to normal engineering practice.
8. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
9. Well caps shall be kept locked at all times other than sampling. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
10. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD.
11. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
12. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final construction details and a lithologic log of all monitoring wells;
 - d. Water level and product thickness measurements;
 - e. Sample collection procedures;
 - f. Sampling analytical results;

Conditions to Permit 88-064 (continued)

- g. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - h. A potentiometric surface map showing the direction of groundwater movement; and
 - i. Interpretation of data and conclusions including recommended remedial measures.
13. All monitor wells associated with this facility including the domestic well shall be sampled and the wastewater analyzed quarterly for benzene, ethylbenzene, toluene, xylene, total hydrocarbons and lead until other monitoring operations are allowed by the DEQ/WQD. When product layers exist, they are to be measured and the above parameters need not be sampled for. The results of these analyses are due in the Cheyenne office by the last day of the month following the end of each quarter in January, April, July, and October. Samples should be collected during the first week of the last month of each quarter to ensure timely submittal. The first set of quarterly results are due by the last day of July 31, 1988.
14. An adequate number of wells shall be installed to define the extent of contamination of product layers and dissolving constituents.
15. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

cc: Jake Strohmman

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 88-065 R

Washakie - Road Eleven Water Transmission Line
(Name of Facility)

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

City of Worland
P.O. Box 226
Worland, WY 82401

to ~~construct~~ install, ~~or modify~~ a 6400 lineal feet of 16 inch water transmission
line

_____ facility according to the procedures and conditions of the
application No. 88-065R. The facility is located in _____

Sec. 30, T47N, R92W

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

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

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

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

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

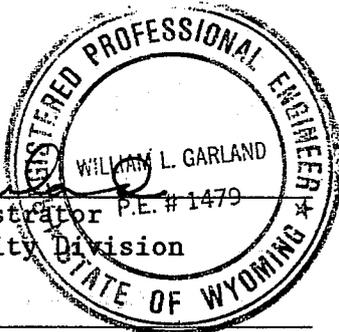
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:


William L. Garland
Administrator P.E. #1479
Water Quality Division
4-1-88
Date of Issuance

Rudolf Wood
Director
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

New

Permit No. 88-066R

Renewal

Modified

Riverton - Cliffview Sewer Reconstruction
(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~~ reconstruct sewer lines and install
a new lift station

facility according to the procedures and conditions of the

application No. 88 066. The facility is located in

Sec. 35, T1N, R4E, WRM

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 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:

Lawrence Robinson

Administrator

Water Quality Division

4/28/88

Date of Issuance

Ralph Wool

Director

Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 88-067R

Star Valley Ranch Water System Improvements
(Name of Facility)

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

Star Valley Ranch Association
P.O. Box 159
Thayne, WY 83127

to construct, install, or modify a 6", 8" and 10" diameter waterline replacement
in Vista Drive

facility according to the procedures and conditions of the
application No. 88-067R. The facility is located in

NW $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 31, T35N, R118W

in the County of Lincoln,

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

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

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

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

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

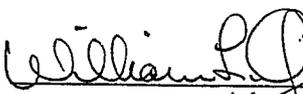
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

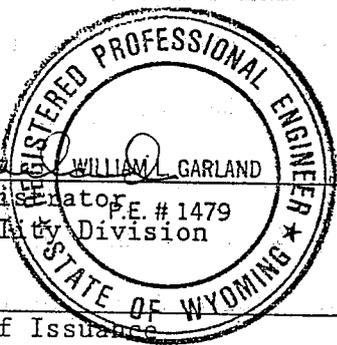
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

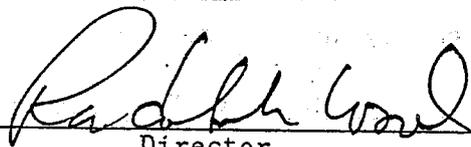
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. # 1479
4-21-88
Date of Issuance




Director
Dept. of Environmental Quality

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

file ✓



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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June 30, 1988

William Space, Manager
Town of Lovell
336 Nevada Avenue
Lovell, Wyoming 82431

Re: Town of Lovell, Wyoming; C560142; DEQ/WQD Ref. No. 88-068; Approval of Plans and Specifications

Dear Mr. Space:

The plans and specifications for the construction of wastewater treatment facility for the referenced project have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. Please be advised that all the conditions in your grant agreement apply toward this project.

The procedure for submission and approval of modifications to the approved plans and specifications is the same as for the original set; i.e., five copies of any proposed modifications, together with an explanation of the reasons therefore should be forwarded to us. Unauthorized modifications of approved sets of plans and specifications may result in suspension of federal participation in the project.

We are sending the approved plans and specifications for the referenced project which must be kept available at all times so that personnel from this office may have access to them during inspection activities.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/WK/jn
Enclosures

cc: EPA Region VIII
Engineering Associates
Loren Leichtnam, DEQ/WQD, Sheridan
Steve Gerber, DEQ/WQD, Lander
Grant File

PERMIT TO CONSTRUCT

PERMIT NO. 88-068
EPA C560142

New
Renewal
X Modified

LOVELL WASTEWATER TREATMENT FACILITY

This permit hereby authorizes the applicant:

Town of Lovell
336 Nevada Avenue
Lovell, Wyoming 82431

to construct, install or modify the existing wastewater lagoon system by adding one aerated cell and modifying the existing pump station according to the procedures and conditions of the application number 88-068. The facility is located in L.50 & 52, T56N, R96W in the county of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 ensures 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: State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge, "STATE OF WYOMING" around the bottom edge, and "WILLIAM L. GARLAND" and "P.E. # 1479" in the center.

William L. Garland
Administrator
Water Quality Division

Richard Wood
Director
Department of Environmental Quality

7-1-88
Date of Issuance

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

cc: Don Livingston, Engineering Associates
Steve Gerber
Loren Leichtnam
Grant File

RF



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

June 15, 1988

Mr. Don Livingston
Engineering Associates
P. O. Box 1900
Cody, Wyoming 82414

Re: Federal Sewage Works Grant C560142-94;
Plans and Specifications Review;
DEQ/WQD Reference No. 88-068;
Lovell, Wyoming

Dear Don:

The revised plans and specifications for the Lovell Wastewater Treatment Facility have been reviewed by the Department of Environmental Quality staff and comments are here presented.

PLANS:

Sheet 7: In regards to the construction of the berm in Pond No. 1, you have stated that the berm will result in savings on stainless steel materials and also on the cost of placing concrete. Further consultation with Northern Engineering and Testing has assured you that settlement of the berm should be negligible. We do not dispute these statements, but we still question the necessity of the berm. If the bentonite liner is placed and then the aeration equipment is installed, will the construction traffic associated with the installation of the aeration equipment cause unrepairable damage to the liner? By restricting construction traffic to the area immediately adjacent to the aeration equipment and by making repairs to the disturbed liner after the aeration equipment is installed, is it possible to obtain a bentonite liner which is capable of meeting the allowable seepage rate for this project which has been set at one inch per day?

Sheet 10: The new bypass line is designated as Line 11. The line is dependent on the hydraulic pressure differential being great enough to open the check valve. How large does the pressure differential need to be to open this check valve?

The existing junction box will receive a new pressure frame and cover to prevent surcharge of the box and the subsequent discharge of sewage. Are there any manholes upstream of the junction box which will also be subject to surcharging? If so, special rings and covers will be required on these manholes.

Sheet 19: We still recommend that the force main piping, which will be realigned, include a clean-out.

In Section A-A, the sump pump piping needs to penetrate the wall and discharge into the wet well.

SPECS:

Page 00300-6 - Bid Item 27: I find the length of 8" force main to be approximately 1,000 feet, not 2,055 feet. Am I correct?

Pages 00820-5 and 00820-6 - These pages are out of sequence.

Page 02618-4 - Where on the plans does it say bonding is not required?

Page 13323-3 - The alarm is covered by the specs, but there is nothing on the audio alarm.

Page 13325-1 - The flow metering system, as now proposed, is not acceptable. As stated in my letter of April 15, 1988, Water Quality Rules and Regulations Chapter XI, Section 11(h)(ii) requires for wastewater treatment plants with a design flow of 50,000 gpd or more that the flow measuring device shall provide recording of instantaneous flow rate, enable calculation of average daily flow rate and have provisions for calibration and correction. It has been our experience that when modifications are made to existing treatment plants, the most common complaint is that there is inadequate flow data to accurately size the plant modifications. The requirement of mandatory recording of instantaneous flow rate is intended to alleviate this problem of inadequate flow data. In addition to the Parshall flume there must be a flow meter which measures and records, on a continuous basis, the instantaneous flow.

Page 16535-1 - I do not see where on the plans the emergency lighting is shown.

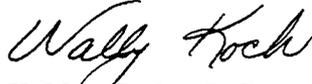
GENERAL:

Although a standby generator is not required, we would recommend that the acquisition of a portable pump be included in the project. The pump would be stored at the plant and used in emergencies situations.

Livingston
June 15, 1988
Page 3

Before a permit to construct can be issued, the plans and specs must be modified in accordance with our comments.

Sincerely,



Wally Koch, P.E.
Engineering Evaluator
Water Quality Division

WK/jn

cc: Bill Space, Town of Lovell
Steve Gerber, DEQ/WQD, Lander
Loren Leichtnam, DEQ/WQD, Sheridan
Grant File



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 15, 1988

David W. Hill
Casper Board of Public Utilities
200 North David
Casper, Wyoming 82601

Re: City of Casper, Bellaire Storm Sewer Project - WQD #88-069

Dear Dave:

I have reviewed the request for a a variance regarding the separation of a water line and the storm sewer for the Bellaire Storm Sewer Project. I concur with your recommendation to allow a lesser horizontal separation based on the existing circumstances.

Sincerely,

Tom

Thomas S. Norman
Southeast District Supervisor
Water Quality Division

TSN/jn

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-070
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

FMC Wyoming Corporation

This permit hereby authorizes the applicant:

FMC Wyoming Corporation
Skull Point Mine
Kemmerer, WY 83101

to construct, install or modify groundwater contamination recovery system according to the procedures and conditions of the application number 88-070. The facility is located in S27, 1/4 Sections NE1/4 T20N, R117W in the county of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

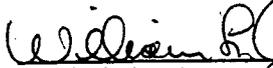
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

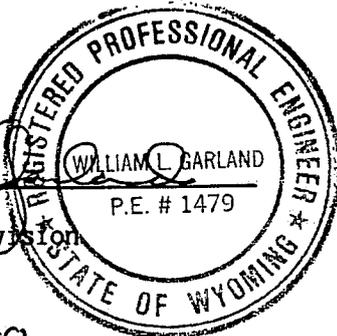
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

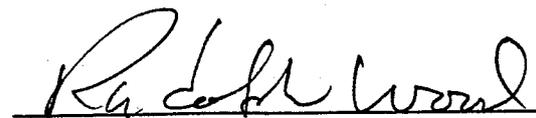
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

3-28-88

Date of Issuance

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

Conditions to Permit to Construct #88-070

1. Before recovery begins, static water levels will be measured from a common datum. These measurements will be taken in monitoring wells 1, 2 and 3 and the recovery well. Also, the water will be tested for volatile organics, BTEX, methylene chloride, 1,2-dichlorethane, and ethylene glycol in each of these wells.
2. Once the recovery system has been installed, the owner will provide the Department of Environmental Quality (DEQ), Water Quality Division (WQD), with the following information:
 - a. Monthly analysis of recovered water and analysis of monitoring wells 1, 2 and 3 for benzene, methylene chloride and ethylene glycol.
 - b. Bi-weekly (every 2 weeks) reports including pumping water levels and static water levels of the recovery system. Measurements should be taken immediately before pumping ends and immediately before pumping begins respectfully, noting the time. Also included in these bi-weekly reports will be the static water levels of monitoring wells 1, 2 and 3. Measurements should be taken initially in the morning before recovery starts and twice during the day during the recovery process. The time measurements taken must also be noted. Part (b) condition (2) will only continue until a recovery gradient is established.
3. The recovery pump inlet will be a minimum of 10 feet below the static water level.
4. Disposal of recovered fluid will be used for dust control on roads and will not be used within 300 feet of any ephemeral drainage or channel.
5. In the event that DEQ/WQD feels that groundwater remediation is not progressing satisfactorily, or, proper disposal of recovered product is not

Conditions to Permit 88-070 (continued)

possible due to winter conditions, an alternative plan will be submitted to the division within 30 days.

6. The recovery system will be in working order on or before June 1, 1988.
7. The recovery system will be operated as often as sufficient re-charge will allow during favorable weather and working days of the week.
8. The permittee shall notify the DEQ/WQD 15 days prior to the exact dates of installation.
9. The issuance of this permit does not relieve the permittee from obligations to complete any further remedial actions which may be necessary.
10. The permittee shall notify the division of the name and address of any person(s) (other than permittee personnel) who will operate the recovery system.
11. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
12. The recovery well shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-070. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
13. After the recovery well has fulfilled its useful purpose, it shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
14. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the well is installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - c. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - d. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - e. A protective casing and locking cap is strongly recommended;
 - f. The recovery well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.

cc: Jake Strohmman

P.2 ✓

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 88-071

K-FUEL AREA SEPTIC SYSTEM
 (Name of Facility)

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

Energy Brothers Technology, Inc.

2 North Main St., Suite 405

Sheridan, Wyoming 82801

to construct, install, or modify a septic tank and leach field facility according to the procedures and conditions of the application No. 88-071. The facility is located in Section 32, T.51N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

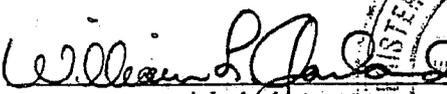
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

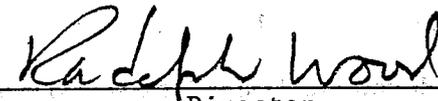
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

3-22-88

Date of Issuance

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

xc: Thomas J. Mueller
Western Water Consultants, Inc.
611 Skyline Drive
Laramie, Wyoming 82070



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 16, 1988

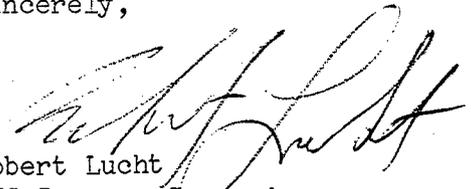
Daniel Nien
Wheatland Cooperative Association
305 16th
Wheatland, WY

RE: Wheatland Coop-Monitor Wells 88-072, Platte County, Wyoming

Dear Mr. Nien:

Enclosed please find your approved permit to construct for the Monitor Wells in Chugwater, Wyoming. Please let me know one week before drilling starts so that I can be there.

Sincerely,



Robert Lucht
UIC Program Supervisor
Water Quality Division

RL/mad

PERMIT TO CONSTRUCT

PERMIT NO. 88-072

See Conditions

X New
Renewal
Modified

Wheatland Cooperative Association

This permit hereby authorizes the applicant:

Wheatland Cooperative Association

305 16th Street
Wheatland, WY 82201

to construct, install or modify monitor well network and site investigation test holes according to the procedures and conditions of the application number 88-072. The facility is located in T21N, R66W, S30 and T21N, R66W, S36, in the Town of Chugwater in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of five (5) (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 ensures 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307)

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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Rudolph Wood
Director
Department of Environmental Quality

3-22-88
Date of Issuance

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

Special Conditions For Permit 88-072

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-072. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Once the monitor wells have been completed, the owner shall provide the Wyoming Department of Environmental Quality (DEQ), Water Quality Division with a report that details the logs and locations. If construction changes were made, they should be included in the report.
3. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), 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 Chapter XI, Part G. However a sufficient seal should be installed according to normal engineering practice. Decontamination procedures shall include a washdown with detergent and a clear water rinse at a minimum.
4. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
5. Well caps shall be kept locked at all times other than sampling. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.

Conditions to Permit 88-072 (continued)

6. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD.
7. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it should be hydrated to ensure a proper seal;
 - b. The borehole diameter must be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval must extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. Only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack should be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. A top and bottom cap should be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is required, and WQD shall be supplied with a duplicate key;
 - h. The monitoring well should be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing will be cemented into a sloping concrete cap; and
8. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
9. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final construction details and a lithologic log of all monitoring wells;
 - d. Water level and product thickness measurements;
 - e. Sample collection procedures;

Conditions to Permit 88-072 (continued)

- f. Sampling analytical results;
 - g. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - h. A potentiometric surface map showing the direction of groundwater movement; and
 - i. Interpretation of data and conclusions including recommended remedial measures.
10. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 11. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for diesel by the EPA special procedure for diesel until other monitoring operations are allowed by the DEQ/WQD. When product layers exist, they are to be measured and the above parameter need not be sampled for. The results of these analyses are due in the Cheyenne office by the last day of the month following the end of each quarter in January, April, July, and October. Samples should be collected during the first week of the last month of each quarter to ensure timely submittal. The first set of quarterly results are due by the last day of May, 1988.
 12. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
 13. An adequate number of wells shall be installed to define the extent of contamination of product layers and dissolving constituents.
 14. Provisions shall be made for the development of all monitor wells prior to sampling.
 15. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
 16. On all test holes or monitor wells, the auger or drilling string shall be completely decontaminated before drilling is started.

Conditions to Permit 88-072 (continued)

17. Before drilling is started, Wheatland Cooperative Association shall produce a sketch map of the area at a scale of 1"=100 feet showing all buildings, tanks, underground lines, highways and other features of importance to this investigation. This map can be an enlargement of a USGS quadrangle map, or can be produced using a compass and tape measure. On a copy of this map, Wheatland Cooperative Association shall show the holes and wells to be drilled.

cc: Jake Strohman

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

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

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

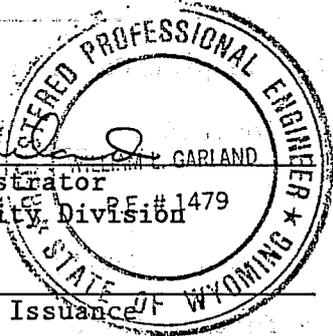
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William J. Garland

Administrator
Water Quality Division
PE # 1479
4-12-88

Date of Issuance



Ra Lohrwood

Director
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

Permit No. 88-074R

New

Renewal

Modified

RANCH A HATCHERY WATER DISTRIBUTION SYSTEM
(Name of Facility)

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

Wyoming Game & Fish Department

5400 Bishop Boulevard

Cheyenne, Wyoming 82002

to construct, install, or modify a water distribution facility according to the procedures and conditions of the application No. 88-074R. The facility is located in Section 18, T.52N., R.60W., in the County of Crook, 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 ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

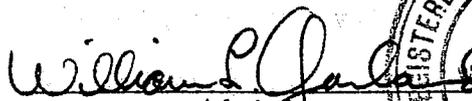
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

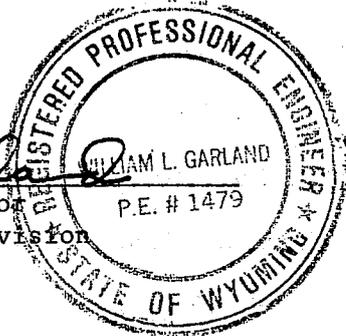
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

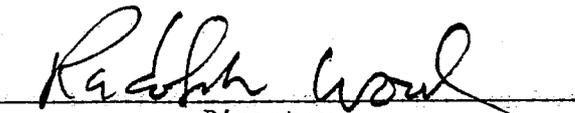
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

4-1-88

Date of Issuance

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

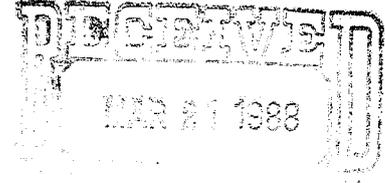
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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801

PROJECT: Wyoming Game and Fish
Ranch A Hatchery
Water Distribution System

ARCHITECT OR ENGINEER: Bruce Perryman
5400 Bishop Blvd.
Cheyenne, Wyoming 82002



WATER QUALITY DIVISION
REFERENCE NUMBER: 88-074

REVIEWING ENGINEER: *SA* Susan Fields

DATE OF REVIEW: March 17, 1988

ACTION: Not authorized.

COMMENTS:

1. The end of the distribution line should be equipped with a blow-off valve or hydrant to allow flushing of the system.
2. The specs should state that the water flushed from the system during disinfection can not be discharged into surface waters. The water should be contained within the yard and allowed to infiltrate.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-075RR

KAYCEE REST AREA
(Name of Facility)

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

Wyoming Highway Dept. District Office

P. O. Box 2199

Casper, Wyoming 82602

to construct, install, or modify a water distribution and onsite wastewater disposal facility according to the procedures and conditions of the application No. 88-075RR.

The facility is located in Section 1, T.43N., R.82W., in the County of Johnson, 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 ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

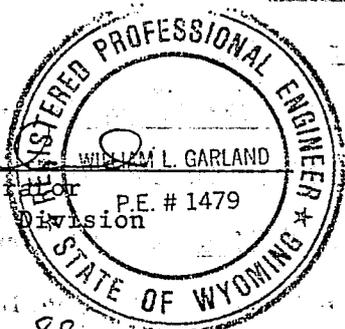
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

William L. Garland

Administrative
Water Quality Division



Richard L. Howell

Director

Department of Environmental Quality

4-21-88

Date of Issuance

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

xc: Jerald B. Crews
Cardinal Design Group
2334 Rose Lane
Riverton, Wyoming 82501

MEMORANDUM

TO: File #88-076
FROM: Gary Steele 
DATE: 12/14/94
RE: J William and/or Ruth Meyers, Albany County

This system has been permitted by Albany County.

GS/nc 45768.LTR

file ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-077
See Special Conditions

X New
Renewal
Modified

Christensen Ranch Brine Evaporation Ponds

This permit hereby authorizes the applicant:

Malapai Resources Company
P. O. Box 9950
Casper, WY 82609

to construct, install or modify series of lined solar evaporation ponds for brine disposal and unlined ponds for clean water storage according to the procedures and conditions of the application number 88-077. The facility is located in Section 7, T44N, R76W, in the county of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) (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 ensures 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.

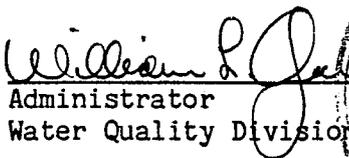
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

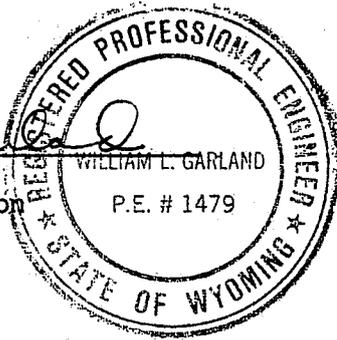
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

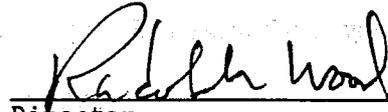
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

3-28-88
Date of Issuance

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

Special Conditions for Permit 88-077

1. Prior to construction of any ponds under this permit, a site specific geotechnical study shall be done. This study shall address the geological and hydrogeological characteristics of the formations immediately under the ponds and within 20 feet of the final bottom grade of the ponds.
2. Leak detection piping shall be schedule 40 PVC or better, in the sizes shown on the plans. Pond inlets are not shown on the plans, but will include hoses pipes, or additional liner thickness to preclude damage to the liner. Pond inlets can be through an enhanced evaporation system such as a trickle system. If a trickle system is installed, no extra protection will be required for the liner that is wetted by the system.
3. The top 24" of subgrade material on all ponds constructed under this permit shall be compacted so that its total permeability is at least 100 times less than the sand blanket of the leak detection system. Compaction shall be at least 95% of Proctor Standard density for the 24" immediately under the leak detection system.
4. Sand for the leak detection system shall contain no more than 5% passing 200 mesh and shall contain nothing larger than $\frac{1}{2}$ inch.
5. Should a leak be detected in one of the pond liners, that pond shall be pumped out to the extent necessary to fully expose the defect and repair the leak. This requires that there always exist enough spare capacity to allow any one cell to be emptied completely. Any water in the leak detection system shall, to the extent possible, be pumped out to another cell.
6. An enhanced evaporation may be installed in one or more of the ponds installed under this permit. While this is acceptable, a complete written description of the system to be installed plus a complete set of construction drawings shall be submitted to the Water Quality Division prior to construction of such

Conditions to Permit 88-077 (continued)

a system. Water Quality Division will review this material and determine if it is acceptable as submitted or if additional work needs to be done, or if the enhanced evaporation system is unacceptable as submitted.

7. Should a leak be detected a sample should be taken as soon as practical of the water in the leak detection system. If NRC requires a pre-operational check of the leak detection system, this may leave as much as 12 inches of water in the system that cannot be recovered. If this is in fact the case, then the first samples shall be taken when there is 18 inches of water in the leak detection system.
8. The leak detection piping shall be laid to true line and grade so that as little water as possible will be unrecoverable in the leak detection piping.
9. Should any leak be detected a report shall be made within 24 hrs of discovery to the Water Quality Division district office in Sheridan, Wyoming followed by a written confirmation within seven days.

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-078
See Special Conditions

X New
Renewal
Modified

Christensen Ranch Permeate Storage Ponds

This permit hereby authorizes the applicant:

Malapai Resources Company
P. O. Box 9950
Casper, WY 82609

to construct, install or modify series of clean water holding ponds according to the procedures and conditions of the application number 88-078. The facility is located in Section 7, T44N, R76W, in the county of Johnson, in the State of Wyoming. This permit shall be effective for a period of five (5) (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 ensures 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.

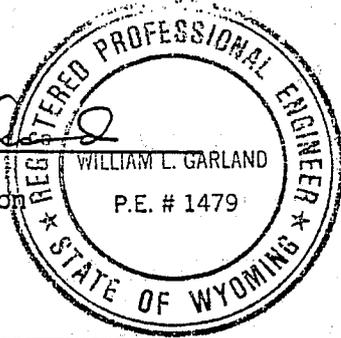
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Richard Wood
Director
Department of Environmental Quality

3-28-88
Date of Issuance

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

Special Conditions for Permit 88-078

1. Prior to construction of any ponds under this permit, a site specific geotechnical study shall be done. This study shall address the geological and hydrogeological characteristics of the formations immediately under the ponds and within 20 feet of the final bottom grade of the pond.
2. Nothing shall be placed in these ponds that does not meet all class I groundwater standards under Chapter VIII of Water Quality Division Rules and Regulations.
3. The embankment shall be constructed in lifts of no more than 6" compacted to a minimum of 95% of Proctor Standard density. Construction inspection shall include checking the fill being placed at least once a shift using a Nuclear density guage or standard proctor tests.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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June 14, 1988

Mr. & Mrs. John W. Carter
P. O. Box 57
Centennial, Wyoming 82055

RE: Permit to Construct Application Number 88-079

Dear Mr. & Mrs. Carter:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (# 88-079) concerning the septic system at S35, T16N, R78W, Albany County. The Water Quality Division has determined that the septic system meets the minimum state standards for isolation distances to wells, property lines, seasonal high groundwater, etc. and that the septic tank is adequately sized. Since the septic tank and drainfield size cannot be determined without digging up the entire system, the department cannot evaluate if the system is sized correctly. However, based on 8 years of actual operating experience, the system appears to be adequately sized for current conditions of 2 people on seasonal usage. The affect of any increased wastewater quantity or quality or improper maintenance cannot be determined.

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 the 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.

& Mrs. John W. Carter
June 14, 1988
Page 2

Since a permit to construct cannot be issued for as-built wastewater treatment facilities, this letter will serve as your final approval document.

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/DM/jn

cc: Mike Casey, Albany County Planning

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-080
Ref No 87-428
See Conditions

X New
Renewal
Modified

FLYING J TRAVEL PLAZA

This permit hereby authorizes the applicant:

Flying J, Inc.
2250 Etchepare Drive
Cheyenne, WY 82007

to construct, install or modify vapor detection wells according to the procedures and conditions of the application number 88-080. The facility is located in Section 14, NE 1/4 T13N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years (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 ensures 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.

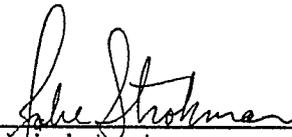
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307)

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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

5-9-88
Date of Issuance

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

Conditions to Permit to Construct 88-080

1. The vapor detection wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-080. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), 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 Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

Conditions to Permit 88-080 (continued)

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap.
6. Automatic vapor detection equipment specifications shall be provided to the department for review prior to installation.
 7. Keys for the locked vapor detection wells shall be kept on site at all times.
 8. Background vapor concentrations shall be monitored for a minimum of one week prior to introduction of fuel into the underground storage tanks. Background vapor concentrations shall be reported to the Department of Environmental Quality (DEQ) within 15 days of recording.
 9. If vapor concentrations are detected at any time, the DEQ/WQD shall be immediately notified and documentation provided within 15 days.
 10. The vapor detection wells shall be placed no more than 40 feet apart along all lines. The attached map shows the division's recommended locations for the vapor wells along the line system.
 11. Flexible joints are requested to be installed for all line joints.
 12. Perforations in the vapor wells located within the line trenches shall extend upward to the level of the lines.

/jn

cc: Jake Strohman

RF

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Flying J Travel Plaza

ENGINEER: N/A

APPLICANT: Flying J, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 88-080 - Ref. 87-428

REVIEWING ENGINEER: Thomas Pilch, Groundwater Engineering Associate
Matthew Langenfeld, Groundwater Engineering Associate

DATE OF REVIEW: April 12, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

I. Vapor well details

- 1) Wells must be placed within the fill;
- 2) The fill must be more permeable than the native soil. EPA requests washed sands, crushed rock, or pea gravel <3/4";
- 3) Overall construction details. (i.e. - type of casing, perforations, seals, filter, etc.).

II. Operation and Maintenance

- 1) Type of vapor monitoring equipment;
- 2) Shall establish background readings in all vapor wells prior to any hydrocarbon delivery to the site;
- 3) Schedule and procedures for taking vapor samples;
- 4) Equipment calibration;
- 5) What vapor readings will require a investigation.

III. Subsurface conditions

- 1) Type(s) of subsurface soils (native);
- 2) Depth to groundwater.

/jn

84 ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-081

X New
Renewal
Modified

SOUTH TORRINGTON WATER DISTRIBUTION SYSTEM

This permit hereby authorizes the applicant:

South Torrington Water and Sewer District
P. O. Box 606
Torrington, WY 82240

to construct, install or modify a public water distribution system according to the procedures and conditions of the application number 88-081. The facility is located in S15, T24N, R61W, S1/2 in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) (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 ensures 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

Laurence Robinson

for Administrator
Water Quality Division

Rudolph Wood

Director
Department of Environmental Quality

5-12-88

Date of Issuance

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

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-082

X New
Renewal
Modified

Alley Sanitary Sewer Main Between Land Court and Rock Springs Street

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P O Box 1469
Cheyenne, WY 82003-1469

to construct, install or modify municipal sanitary collection system according to the procedures and conditions of the application number 88-082. The facility is located in S27, T14N, R66W, NW $\frac{1}{4}$ in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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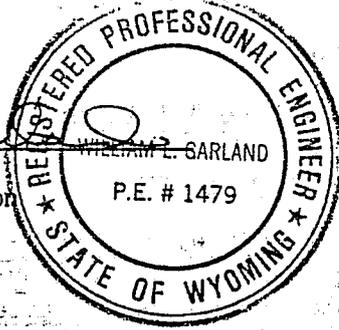
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AUTHORIZED BY:

William E. Garland
Administrator
Water Quality Division



Ralph Wood
Director
Department of Environmental Quality

4-7-88
Date of Issuance

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

cc: William A. Mentock
Engineering Inc.
45 E Loucks, Suite 301
Sheridan, WY 82801

PERMIT TO CONSTRUCT

PERMIT NO. 88-083

X New
Renewal
Modified

Medicine Bow Coal Pond No. 31-51-1

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-083. The facility is located in S6, T22N, R83W, 1/4 NW NE in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

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

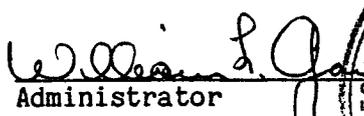
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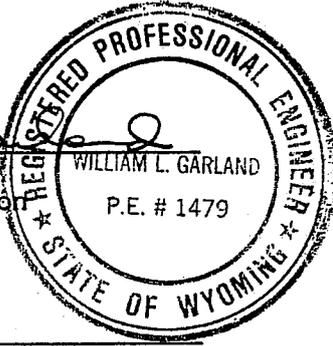
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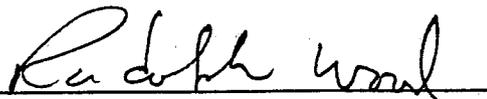
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88

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. 88-084
SEE CONDITIONS

X New
Renewal
Modified

Medicine Bow Coal Pond No. 25-38-1

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-084. The facility is located in S25, T23N, R84W, 1/4 NW NW in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

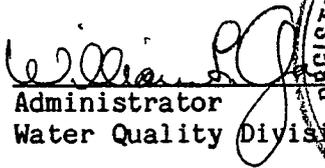
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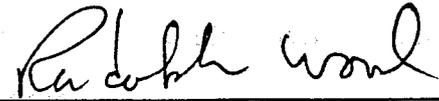
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88

Date of Issuance

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

Condition to Permit to Construct 88-084

Staff gages will be installed in the facility which will be marked to show the water surface elevation at which there is still adequate storage volume for the 10 year-24 hour event. Water storage will not be allowed to exceed this elevation. The facility will only be evacuated when NPDES standards are met.

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

PERMIT TO CONSTRUCT

PERMIT NO. 88-085

X New
Renewal
Modified

Medicine Bow Coal Pond No. 26-24-1

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-085. The facility is located in S26, T23N, R84W, 1/4 SE SW in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

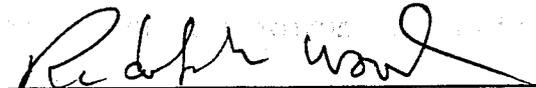
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


W. L. Garland
Administrator
Water Quality Division


Director
Department of Environmental Quality

5-17-88

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. 88-086
SEE CONDITIONS

X New
Renewal
Modified

Medicine Bow Coal Pond No. 26-24-2

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-086. The facility is located in S26, T23N, R84W, 1/4 NE SW in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

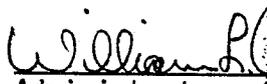
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

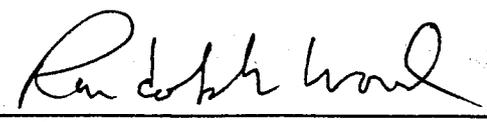
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88

Date of Issuance

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

Condition to Permit to Construct 88-086

Staff gages will be installed in the facility which will be marked to show the water surface elevation at which there is still adequate storage volume for the 10 year-24 hour event. Water storage will not be allowed to exceed this elevation. The facility will only be evacuated when NPDES standards are met.

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

PERMIT TO CONSTRUCT

PERMIT NO. 88-087

X New
Renewal
Modified

Medicine Bow Coal Pond No. 26-24-4

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-087. The facility is located in S26, T23N, R84W, 1/4 SW SE in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

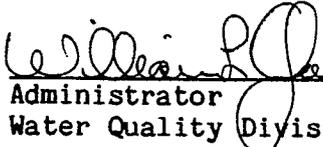
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88
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. 88-088

X New
Renewal
Modified

Medicine Bow Coal Pond No. 26-24-5

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-088. The facility is located in S26, T23N, R84W, 1/4 SW NE in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

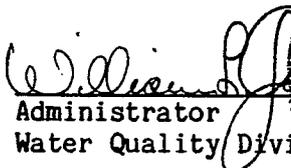
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88
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. 88-089

X New
Renewal
Modified

Medicine Bow Coal Pond No. 2-24-1

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify sedimentation facility according to the procedures and conditions of the application number 88-089. The facility is located in S2, T22N, R84W, 1/4 NE NE in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (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 ensures 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.

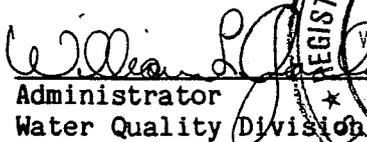
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88
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. 88-090
SEE CONDITIONS

X New
Renewal
Modified

Medicine Bow Coal Containment Ditch/Berm No.'s 1 through 6

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify containment ditch/berm facility according to the procedures and conditions of the application number 88-090. The facility is located in S20, T23N, R83W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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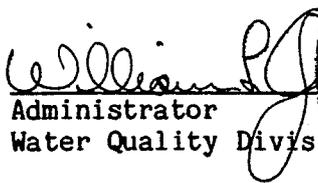
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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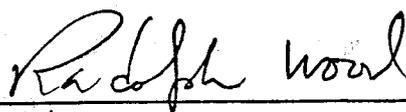
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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88

Date of Issuance

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

Condition to Permit to Construct 88-090

To prevent water from draining to low spots and breaching berms, the containment ditches will be constructed as a series of pot holes. Each depression will be approximately 25 feet long. The intention of these pot holes is to trap runoff on the upslope areas and prevent breaches in the low spots.

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

PERMIT TO CONSTRUCT

PERMIT NO. 88-091
SEE CONDITIONS

X New
Renewal
Modified

Medicine Bow Coal Containment Ditch/Berm No.'s 7 through 24

This permit hereby authorizes the applicant:

Eric Sundberg
P O Box 460
Hanna, WY 82327

to construct, install or modify containment ditch/berm facility according to the procedures and conditions of the application number 88-091. The facility is located in S6, T22N, R83W, S1 and 2, T22N, R84W, S23, 25, 26, 35, 36, T23N, R84W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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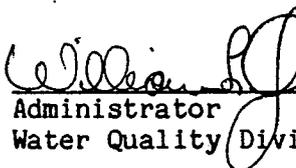
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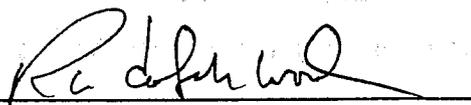
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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

5-17-88

Date of Issuance

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

Condition to Permit to Construct 88-091

To prevent water from draining to low spots and breaching berms, the containment ditches will be constructed as a series of pot holes. Each depression will be approximately 25 feet long. The intention of these pot holes is to trap runoff on the upslope areas and prevent breaches in the low spots.

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 Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Medicine Bow Mine: Pond No.'s 35-51-1, 25-38-1, 26-24-1, 26-24-2, 26-24-4, 26-24-5, 2-24-1. Containment Ditches 1-24

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

APPLICANT: Eric Sundberg
P. O. Box 460
Hanna, Wyoming 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 88-083 thru 88-091

REVIEWING ENGINEER: Dave Montague, ^{DM} Water Quality Engineering Specialist

DATE OF REVIEW: April 22, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Pond numbers 25-38-1 and 26-24-2 contain pit water in addition to runoff. Design factors were provided only for runoff containment. What is the basis for the pond designs to assume that NPDES parameters can be met? Will there be special operational procedures?
2. Containment ditches
 - a. What is the design basis for sizing the ditches?
 - b. The volume proposed to be used in the ditches will only be available if the ditches are constructed without a slope in the longitudinal direction. If the ditches are sloped then all the runoff will drain to the low end and overflow. How will this be prevented?

/jn

LAND APPLICATION PERMIT

✓
re

Permit No. 88-092

* CONDITIONS ON PERMIT *

Frannie Oil Pits
(Name of Facility)

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

Howard & Phyllis Wood

1320 32nd Street

Cody, WY 82414

to land apply waste oil and sludges

The application site is located in Sec. 1 and 2, T57N, R98W

in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one (1) 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

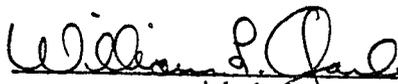
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the 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 disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

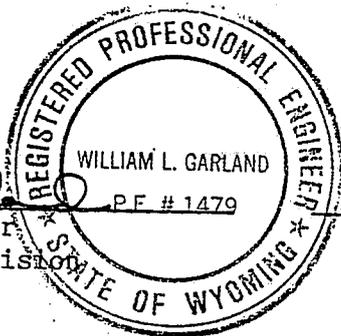
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

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

4-18-88
Date of Issuance

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

* CONDITIONS ON PERMIT *

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 percent for vehicular application or 15 percent 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 definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber, phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest $\frac{1}{4}$ section) and time of application.
5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied. Wastes will not be applied during the period from November 1 to April 30.
6. All oil and sludges must be land applied prior to September 1, 1988.
7. Ponds shall be reclaimed prior to November 30, 1988. Notify district engineer after oil and sludges have been land applied and before ponds have been reclaimed for an inspection.
8. Notify district engineer after ponds have been reclaimed.

152

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-093

REVLON RESERVOIR
(Name of Facility)

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

AMAX Coal Company

P. O. Box 3005

Gillette, Wyoming 82716

to construct, install, or modify a temporary sediment and flood control facility according to the procedures and conditions of the application No. 88-093. The facility is located in Section 28, T.51N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

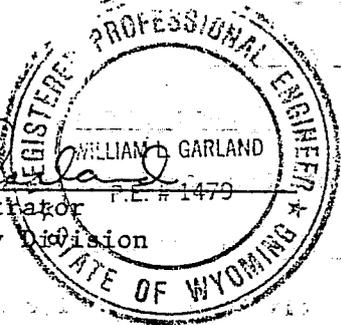
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, 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

Ralph Ward
Director
Department of Environmental Quality

4-12-88

Date of Issuance

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-095R

KEYHOLE RESORT CAMPGROUND EXPANSION
WATER & WASTEWATER FACILITIES
(Name of Facility)

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

Keyhole Resort

Box 430 Kara Route

Moorcroft, Wyoming 82721

to construct, install, or modify an expansion of potable water and wastewater disposal facilities according to the procedures and conditions of the application No. 88-095R. The facility is located in Section 27, T.51N., R.66W., in the County of Crook, 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 ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

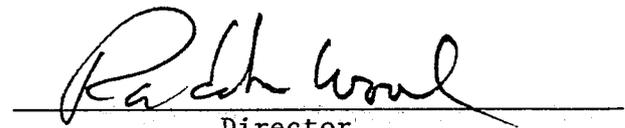
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

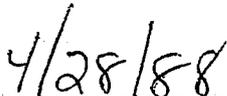
AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

xc: James T. Fletcher
High Plains of Wyoming
Box 727
Newcastle, Wyoming 82701

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 88-094R

Bear River Intake Facilities
(Name of Facility)

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

City of Evanston
1200 Main Street
Evanston, WY 82930

to construct, install, or modify a raw water diversion facility and infiltration
gallery to supply the City of Evanston's domestic water needs

facility according to the procedures and conditions of the
application No. 88-094R. The facility is located in

NE $\frac{1}{4}$, Sec. 14, T13N, R120W
in the County of Uinta,

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

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

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

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

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

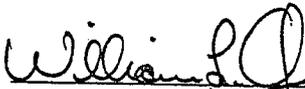
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

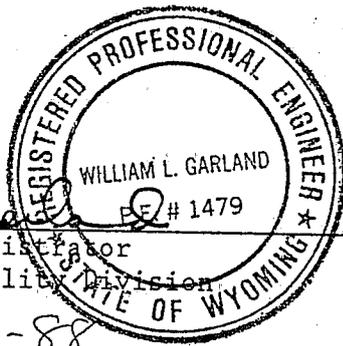
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

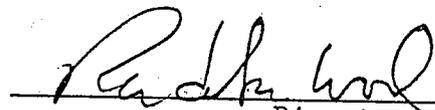
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
6-14-88
Date of Issuance





Director
Dept. of Environmental Quality

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

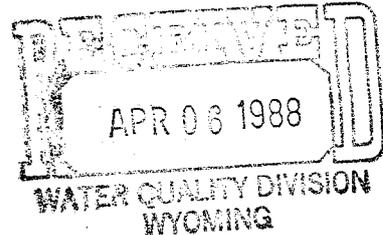
norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue, Suite 501
Sheridan, Wyoming 82801

PROJECT: Keyhole Resort Campground Expansion
Water and Wastewater Facilities

ENGINEER: James T. Fletcher
High Plans of Wyoming
Box 727
Newcastle, Wyoming 82701



WATER QUALITY DIVISION
REFERENCE NUMBER: 88-095

REVIEWING ENGINEER: *S* Susan Fields

DATE OF REVIEW: April 5, 1988

ACTION: Not authorized.

COMMENTS:

WATER SYSTEM

1. The addition of 20 new sites may well put this facility in need of complying with EPA source quality monitoring requirements. Please contact Sandra Silva at the EPA regional office in Denver to verify those requirements, 303/293-1413.
2. The system should be designed to operate at about 35 psi under average conditions. The elevation difference results in a minimum static pressure of about 28 psi if the pressure tanks are set at 45 psi. Can the pressure tanks be adjusted to provide a higher pressure?
3. PVC is not allowed for water service connections. The note should be removed from the detail drawing.
4. A hydrant should be provided at the dead-end on the west side of the expansion to allow for flushing.
5. Thrust block locations and sizing should be shown on the plans.
6. What is the standard bury depth of the piping?

SEWER SYSTEM

1. The septic tank detail does not meet DEQ standards, and I question the availability of a precast tank of the size specified. The tank must have a length to width ratio of not less than two to one; the inlet and

outlet must be provided with baffles or tees and a clean out must be provided to the surface. I would strongly recommend two tanks installed in series for this facility. Two precast 1,500 gallon tanks would meet our requirements. Regardless of the arrangement, the manufacturer of the tank(s) should be identified.

2. The percolation test data should be submitted and the test hole locations shown on the plans. How deep were the perc holes and of what diameter? When were the tests run?
3. The bottom of each trench in the leach field should be level, not provided with a slope as shown on the plans.
4. The sewer service risers must be cast iron or Schedule 40 PVC. The services must connect to the main at no greater than 45° and a minimum slope (¼ inch per foot) should be shown on the detail.
5. How will the pumps in the lift station be actuated? If by level, float elevations should be shown. If by timer, the pump cycle time should be identified.

GENERAL

1. All water main crossings should be shown on the sewer profile and notes provided that minimum separation is 18". Will the water main be taken over or under the sewer if there is interference?
2. The water and sewer service riser locations should be shown. These risers can not be closer than five feet apart. Will more than one unit be served by one riser?

THE STATE



OF WYOMING

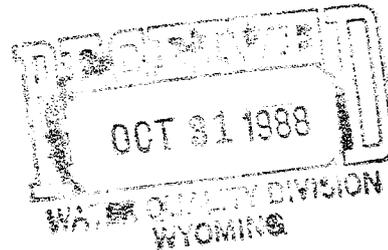


Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

October 27, 1988



Fred Oedekoven
Oedekoven Water and Hot Oil Service
Post Office
Recluse, Wyoming 82725

Dear Fred:

As per your request, Water Quality Land Application Permits 88-096 through 88-101, 88-265 and 87-275 have been extended until January 1, 1989. All other conditions contained in the original permits still apply.

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

Sincerely,

A handwritten signature in cursive script that reads "Susan Fields".

Susan Fields
NE District Supervisor
Water Quality Division

SF:jj

xc: Tom Clayson, BLM
Archives File
Sheridan Plan File

5

LAND APPLICATION PERMIT

Permit No. 88-096
SEE SPECIAL CONDITIONS

ELK CREEK ROAD DUST CONTROL
(Name of Facility)

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

Fred L. Oedekoven

481 Recluse Road

Recluse, Wyoming 82725

to land apply produced water to Elk Creek Road for dust control. The application site is located in Section 26, T.56N., R.72W., and Section 30, T.56N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

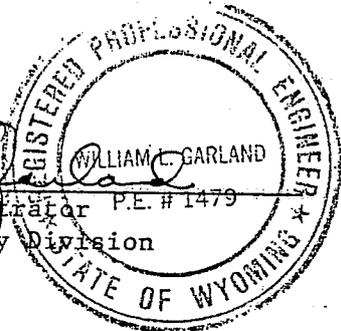
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the 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 disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

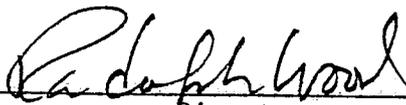
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

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 regulations.

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


R. D. H. Wood
Director
Department of Environmental Quality

4-12-88
Date of Issuance

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

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water 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. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect for a period of six months from the date of issuance. Any produced water application after that six month period must be reauthorized by the Water Quality office.

LAND APPLICATION PERMIT

Permit No. 88-097
SEE SPECIAL CONDITIONS

COLLINS ROAD DUST CONTROL
(Name of Facility)

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

Fred L. Oedekoven

481 Recluse Road

Recluse, Wyoming 82725

to land apply produced water to Collins Road for dust control. The application site is located in Section 6, T.55N., R.72W., and Section 30, T.54N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

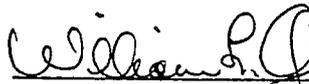
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the 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 disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

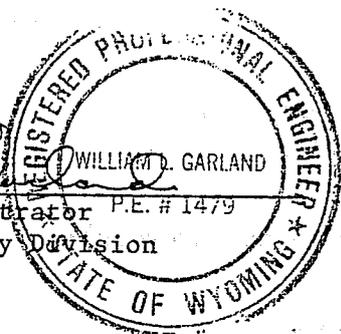
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

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 regulations.

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

AUTHORIZED BY:


Administrator P.E. # 1479
Water Quality Division




Director
Department of Environmental Quality

4-12-88

Date of Issuance

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

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water 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. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect for a period of six months from the date of issuance. Any produced water application after that six month period must be reauthorized by the Water Quality office.

JW

LAND APPLICATION PERMIT

Permit No. 88-098
SEE SPECIAL CONDITIONS

HARRIS ROAD DUST CONTROL
(Name of Facility)

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

Fred L. Oedekoven

481 Recluse Road

Recluse, Wyoming 82725

to land apply produced water to Harris Road for dust control. The application site is located in Section 9, T.55N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

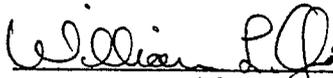
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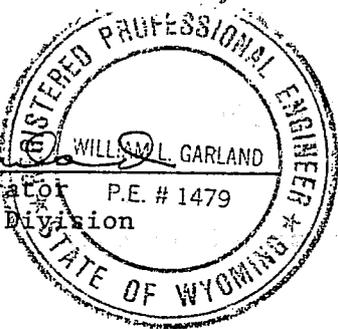
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal,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

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division





Director
Department of Environmental Quality

4-12-88

Date of Issuance

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

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water 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. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect for a period of six months from the date of issuance. Any produced water application after that six month period must be reauthorized by the Water Quality office.

✓
JW

LAND APPLICATION PERMIT

Permit No. 88-099
SEE SPECIAL CONDITIONS

HORSE CREEK ROAD DUST CONTROL
(Name of Facility)

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

Fred L. Oedekoven

481 Recluse Road

Recluse, Wyoming 82725

to land apply produced water to Horse Creek Road for dust control. The application site is located in Sections 29 & 32, T.54N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

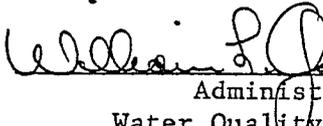
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AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

4-12-88

Date of Issuance

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

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water 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. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect for a period of six months from the date of issuance. Any produced water application after that six month period must be reauthorized by the Water Quality office.

JW

LAND APPLICATION PERMIT

Permit No. 88-100
SEE SPECIAL CONDITIONS

HART ROAD DUST CONTROL
(Name of Facility)

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

Fred L. Oedekoven

481 Recluse Road

Recluse, Wyoming 82725

to land apply produced water to Hart Road for dust control. The application site is located in Section 17, T.56N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

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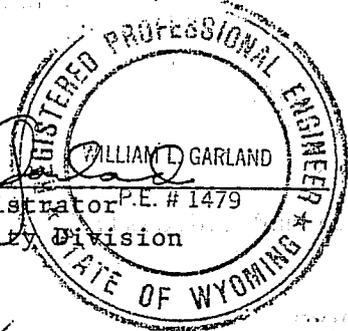
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AUTHORIZED BY:


ADMINISTRATOR P.E. # 1479
Water Quality Division




Director
Department of Environmental Quality

4-12-88

Date of Issuance

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

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water 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. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect for a period of six months from the date of issuance. Any produced water application after that six month period must be reauthorized by the Water Quality office.