

Not A Review per Scott 4/20/90



STATE OF WYOMING



SE 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 19, 1990

Chen-Northern, Inc.
Attn: Mr. Tom Pilch, Environmental Engineer
P O Box 2599
Casper, WY 82601

RE: Common Cents - Poplar Street, Project No. 89-401

Dear Tom:

Your recent submittal concerning the groundwater recovery system at the above referenced site has been received by the Water Quality Division. A review of the permit application is currently underway. However, a preliminary review indicates that the submittal is complete and any further comments by this division will probably be minor.

In order for a document to be declared "confidential", a request to do so must be addressed to the director of the DEQ. Article 11, W.S. 35-11-1101(a) states:

Upon a showing satisfactory to the director by any person that his records, reports or information or particular parts thereof, other than emission and pollution data, to which the director and administrators have access under this act if made public would divulge trade secrets, the director and administrators shall consider the records, reports or information or particular portions thereof confidential in the administration of this act.

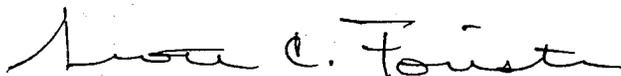
Therefore, in order to deny access of the Operation and Maintenance (O & M) Manual to the public, Mr. Johnson needs to submit in writing his request with an explanation to Mr. Dennis Hemmer, DEQ Director. Until Mr. Hemmer determines whether or not the O & M Manual is confidential, this division will not disclose this information.

Chen-Northern
Attn: Tom Pilch
April 19, 1990
Page 2

Enclosed please find an underground injection control (UIC) permit application as requested. The items which do not apply in this case have been marked on one of the copies. The area of radius has been reduced from a quarter of a mile, to five times the radius of influence. Quarterly sampling and analysis for BETX will be required on the injectate. Any further questions regarding the UIC permit should be addressed to Bob Lucht at 777-7095.

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

Sincerely,



Scott C. Forister
Senior Analyst
Water Quality Division

Enclosure

cc: Dennis Hemmer, Director DEQ
Mr. Steven Johnson, Blaze Oil Co., P O Box 2116, Casper, WY 82602

R7

PERMIT TO CONSTRUCT

PERMIT NO. 89-401R
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

COMMON CENTS, POPLAR STREET

This permit hereby authorizes the applicant:

Blaze Oil Company
P O Box 2116
Casper, WY 82602

to construct, install or modify Groundwater Restoration System and Groundwater Monitor Well Facility according to the procedures and conditions of the application number 89-401R. The facility is located in Township 33N, Range 79W, Section 4, NW/SW in the county of Natrona, 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: Southeast 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

June 26, 1990
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-401R

1. This permit is for the recovery system and any monitor wells associated with the investigation or cleanup related to the underground storage tanks at the Poplar Street Common Cents Station. An underground injection control (UIC) permit will be required if the decision is made to reinject the effluent from the treatment facility. Any additions or modifications to the system must receive prior approval from the Water Quality Division.
2. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study.
3. DEQ/WQD personnel shall be given at least 24 hours notice prior to the installation of the monitor wells and sample collection. Additional wells installed at the site must have prior approval from the DEQ/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. All wells must have a unique number.
5. All elevations should be referenced to mean sea level. Either by relating the 100' datum to mean sea level, or by expressing all elevations as mean sea level.
6. A report summarizing activities at the site must be submitted on a quarterly basis to the Water Quality Division. Each report must include the following items at a minimum:
 - a. Results of groundwater monitoring including, static water levels, thickness of free phase hydrocarbon (if present), and results of any analyses conducted on the wastewater removed from the monitor wells.

Conditions to Permit 89-401R (continued)

- b. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
- c. Sample collection procedures, QA/QC information and analytical methods;
- d. Changes to the recovery system or monitor wells, significant downtime for the system, and amount of free product recovered.
- e. Results of any analyses conducted on the discharge from the treatment facility.
- f. Interpretation of data, conclusions and recommendations.

7. After the monitoring wells have fulfilled their useful purpose, and upon approval by DEQ/WQD, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. A plugging record must be filed with the DEQ/WQD within 15 days of abandonment.

SCF/nc

cc: Kenneth E. Temme, PE, Chen-Northern, PO Box 2599, Casper, WY 82602

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-402
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

Water System Improvements - Contract BWS-89-1

This permit hereby authorizes the applicant:

Brooks Water and Sewer District
P.O. Box 2080
Mills, WY 82644

to construct, install or modify Distribution System Improvements according to the procedures and conditions of the application number 89-402. The facility is located in Section 1, T33N, R80W 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.

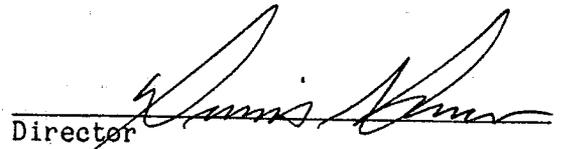
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

October 16, 1989
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-402

1. Sheet 3 of 5 shows a 1" line to be used to maintain a loop to a 4" line. At such time as the 4" line is abandoned, the 1" line should be removed from the corp. stop and the stop closed and plugged.

LBH/jt

xc: Worthington, Lenhart and Carpenter, Inc.
632 South David
Casper, WY 82601

norma



THE STATE OF WYOMING

RECEIVED

MAR 15 1990



Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

March 12, 1990

CERTIFIED

Glenn J. Catchpole
Uranerz U.S.A., Inc.
190 Pronghorn
Casper, Wyoming 83601

RE: WQD Permit Application 89-403R;
Campbell County, Wyoming;

North Butte Expansion

Dear Mr. Catchpole:

The Department of Environmental Quality, Water Quality Division (DEQ/WQD) has altered its policy on the requirement of Wyoming Water Quality Division Chapter III Permit to Construct applications regarding facilities used for disposal of wastes generated on-site. In the future and with respect to this permit application, all uranium wastewater pond structures regulated by the Nuclear Regulatory Commission (NRC) will be categorized as uranium mill tailing facilities.

According to Wyoming Water Quality Rules and Regulations Chapter III, Section 2 (b) "...uranium mill tailing facilities are excluded from the requirement to obtain a permit to construct, install, modify or operate a facility capable or causing or contributing to pollution. The following requirements are applicable to these facilities:

- (i) Decrees existing as of March 13, 1987 remain in full force and effect.
- (ii) These facilities shall not cause a violation of quality standards for surface or groundwaters as contained in Chapters I and VIII, Wyoming Water Quality Rules and Regulations."

Hence, although the WQD is not requiring a Permit to Construct Application for the pond structures, a monitoring program to protect surface and groundwater quality is required by the WQD. A one-liner pond structure with leak detection, similar to design previously submitted, will require a monitoring well program. In addition, a monitoring program including wells and/or test holes will require a Permit to Construct application for the monitoring portion of the pond facility. However, the WQD will not require a monitoring well program for a two synthetic liner structure with complete leak detection system.

Glenn J. Catchpole
March 12, 1990
Page Two

Due to this change in policy, the WQD is returning the WQD permit application for the pond structures. Furthermore, the WQD is requesting a written response and submittal of monitoring program permit application, as applicable to this facility. Please respond to this request within 15 days of receipt of this letter.

REMINDER: This exemption is only effective for wastes generated "on-site" and does not apply to the disposal of wastes generated at other sites/locations.

Thank you for your cooperation in resolving this matter. Your continued cooperation will be appreciated. If you have additional questions or comments, please feel free to contact me at (307)-672-6457.

Sincerely,



Edith L. Johnson
Groundwater Engineering Evaluator
Water Quality Division

cc: Glenn Mooney, DEQ/LQD - Sheridan
Bill Johnston, DEQ/WQD - Sheridan
Jake Strohman, DEQ/WQD - Cheyenne
Bill Garland, DEQ/WQD - Cheyenne
Dennis Hemmer, DEQ/WQD - Cheyenne

LAND APPLICATION PERMIT

Permit No. 89-404
SEE SPECIAL CONDITIONS

SHERIDAN MOTORS, INC. ROAD APPLICATION
(Name of Facility)

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

Sheridan Motors, Inc.

P. O. Box 4069

Sheridan, Wyoming 82801

To land apply water contaminated with hydrocarbon to roads for dust control.

The application site is located in Section 25, T.56N., R.83W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective until November 1, 1989.

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.

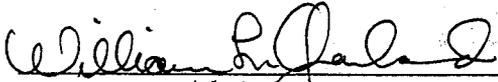
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

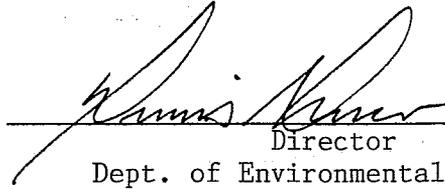
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

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.

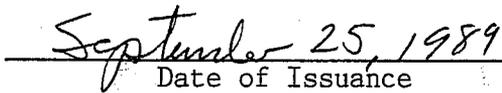
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. Application shall not occur at a rate which will produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods of saturated or frozen soil conditions.
2. Application shall be terminated within 300 feet of the definable high water mark of perennial or intermittent drainages, irrigation canals, lakes and reservoirs.
3. The appropriate Water Quality office shall be notified 48 hours prior to any application. Notification shall be made to the NE District Supervisor, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82820, 307/672-6457.
4. This permit is in effect until November 1. Any activity after that time must be repermited.

BJ/jj

LAND APPLICATION PERMIT

PERMIT NO.: 89-405
SEE SPECIAL CONDITIONS

Kin-TeX
(Name of Facility)

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

T. F. Kinsey

P. O. Box 66

Hyattville, WY 82428

to land apply 4200 gallons of waste oil. The application site is located in Sec 20, T53N, R101W in the county of Park in the State of Wyoming. This permit shall be effective for a period of nine (9) 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 allow 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.

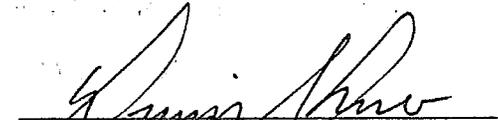
Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 infringements of federal, state or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION STANDARD CONDITION

1. Waste oil 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.
3. Waste oil 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 application.
5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied.
6. Wastes will not be applied during the period from November 15 to April 30. Waste oil shall not be applied prior to November 15 if the ground becomes frozen.



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

December 29, 1989

Pen Burris
PO Box 490
Evansville, WY 82636

RE: Leaking Underground Storage Tank Site at 616 Birch Street in Glenrock
DEQ Permit Application Number 89-406

Dear Mr. Burris:

The purpose of this letter is to inform you that the above referenced permit application, #89-406, is being returned to you since it is not necessary to have the soil boring constructed at this site permitted. A representative of the Department of Environmental Quality/ Water Quality Division was present during the advancement of the boring, and no subsurface hydrocarbon contamination was detected in the boring, so the boring was abandoned with the cuttings from the boring. Therefore, it is not necessary to have a permit issued for this boring.

Sincerely,

A handwritten signature in cursive script that reads "David Montague".

David Montague
Groundwater Engineering Evaluator
Water Quality Division



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
----------------------------------	--	---	--	--

October 10, 1989

#89-406

L. P. Pen Burris
P. O. Box 490
Evansville, WY 82636

RE: UST (ID # 3666) Site Investigation at 616 Birch Street in Glenrock

Dear Mr. Burris:

On June 14, 1989, Department of Environmental Quality, Water Quality Division (DEQ/WQD) personnel witnessed the excavation of three underground storage tanks (UST's) at the above referenced site. An inspection of the UST's did not show any holes in any of the tanks. However, hydrocarbon odors were present in the soil in the excavation for the 4,000 gallon and the northern 3,000 gallon UST, and hydrocarbon contamination in the soils from the excavation was detected with an HNu Photoionizer to a depth of 14 feet. The extent of contamination was not determined during this excavation. The soil in the excavation was sandy to about 14 feet.

In response to the findings of this investigation, the DEQ/WQD issued you a Letter of Violation on August 15, 1989, requesting you to determine the extent of contamination at this site. On September 7, 1989, DEQ/WQD personnel returned to this site to witness a soil boring in the excavation to determine the extent of hydrocarbon contamination. The original excavation had been made to 14 feet, so soil samples were not collected from the boring until it had reached 14 feet. Soil samples taken during the boring were tested with an HNu Photoionizer for the presence of hydrocarbon vapors. The maximum reading allowed on the HNu Photoionizer is 10, since the depth to groundwater in this area is from 40 to 90 feet below ground surface. Testing of the soils did not find hydrocarbon contamination above the allowable limit from 14 to 26 feet below ground surface. Unconsolidated sandstone was encountered at about 20 feet, and sandstone was encountered from 25 to 31 feet below ground surface, where the boring ceased.

From the evidence obtained during the investigation of September 7, 1989, there is apparently at least 6 feet of consolidated sandstone underlying the area of hydrocarbon contamination which does not contain hydrocarbon contamination above the allowable level. This information, along with the fact that the

18
., 1989

apparent source of the hydrocarbons for this site, the three UST's, has been removed, leads the DEQ/WQD to believe this site will not be a threat or potential threat to the local groundwater. Therefore, the DEQ/WQD will not require further investigation with regard to underground storage tanks at the site of this excavation. This letter will serve as final notification that the DEQ/WQD has closed the file concerning potential contamination by this UST site.

Your cooperation in properly abandoning this site is appreciated. If you have any questions please contact the Water Quality Division at 777-7781.

Sincerely,

Louis B. Harmon

for Dave Montague
Groundwater Engineering Evaluator
Water Quality Division

DM/mad
Enclosure

cc: Jake Strohman, DEQ/WQD

RF

LAND APPLICATION PERMIT

PERMIT NO.: 89-407
SEE SPECIAL CONDITIONS

Marathon Lease Road, Byron Station Tank 64
(Name of Facility)

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

Marathon Pipe Line Co.

c/o Ed Kelly

P.O. Box 3128

Houston, TX 77253

to land apply waste crude oil sludge to road. The application site is located in Section 25, T56N, R97W in the county of Big Horn in the State of Wyoming.

This permit shall be effective for a period of 30 days 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 allow 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 constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

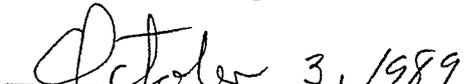
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any

injury to private property or any invasion of personal rights, nor any infringements of federal, state or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality


Date of Issuance

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

Road Application Standard Conditions

1. Waste oil and sludge shall be applied at a rate which will prevent runoff or ponding. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The slope of the application roads shall not exceed 8 percent for vehicular application.
3. Waste oil and sludge application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainage, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber, 210 Lincoln St., Lander, WY 82520 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 application and must be informed how much waste oil and sludge will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed. Wastes will not be applied during the period from November 1 to April 30.
6. Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.

PERMIT TO CONSTRUCT

New

Permit No. 89-408

Renewal

Modified

YNP South Entrance Ranger Station SWTF
(Name of Facility)

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

Yellowstone National Park

P. O. Box 168

Yellowstone National Park, WY 82190

to construct, install, or modify a septic tank and leachfield facility according to the procedures and conditions of the application No. 89-408. The facility is located in Yellowstone National Park in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

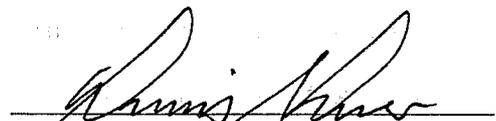
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

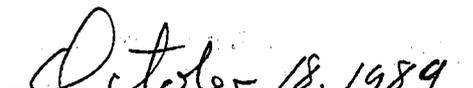
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

RF

LAND APPLICATION PERMIT

Permit No. 89-409
SEE SPECIAL CONDITIONS

COLLUMS MUDDY SAND UNIT ROAD APPLICATION
(Name of Facility)

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

Rex Monahan

P. O. Box 1231

Sterling, Colorado 80751

To land apply produced water to lease roads for dust control. The application site is located in Sections 2,3,4,10,15, in the County of Campbell in the State of Wyoming. This permit shall be effective until November 1, 1989.

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 provisions of this permit.

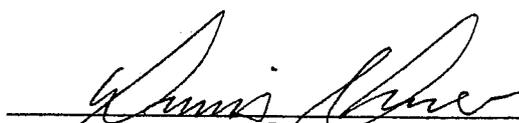
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

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.

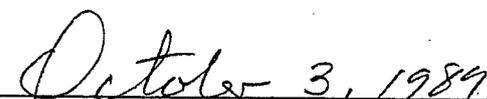
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND 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 is in effect until November 1, 1989. Any produced water application after that time must be reauthorized by the Water Quality office.

BJ:jj

xc: R. W. Moore
566 Lane 8 $\frac{1}{2}$
Powell, Wyoming 82435

12F

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

PERMIT NO. 89-410
(SEE SPECIAL CONDITION)

NORTH ROCHELLE MINE SEDIMENTATION RESERVOIR NO. 6
(Name of Facility)

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

Shell Mining Company

P. O. Box 2906

Houston, Texas 77252-2906

to construct, install or modify a sedimentation facility according to the procedures and conditions of the application No. 89-410. The facility is located in Section 11, T.42N., 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.

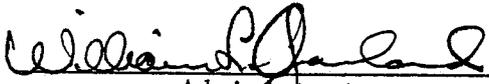
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

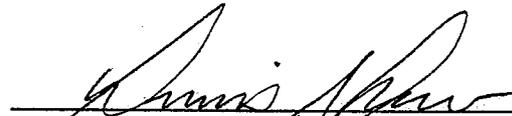
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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,

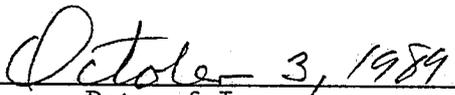
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

SPECIAL CONDITION

1. The bypass ditches are required to have adequate capacity for the 25 year-24 hour storm event.

BJ:jj

xc: Roger L. Sanders
HKM Associates
1842 Sugarland Drive # 103
Sheridan, Wyoming 82801

R7

PERMIT TO CONSTRUCT

PERMIT NO. 89-411
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

U S Forest Service Laramie Work Center Administrative Site

This permit hereby authorizes the applicant:

U S Forest Service
ATTN: John Gillum
605 Skyline Drive
Laramie, WY 82070

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-411. The facility is located in Section 28, T16N, R73W, SW SW 1/4 in the county of Albany, 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.

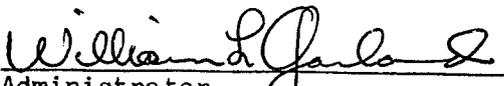
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

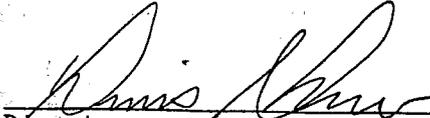
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

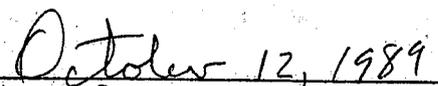
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

Conditions for Monitoring Wells

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 89-411. 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.

Conditions to Permit 89-411 (continued)

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - 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. Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall 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 shall be cemented into a sloping concrete cap; and
 - j. 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;

Conditions to Permit 89-411 (continued)

- d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - 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 monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- BETX, TPH
- If free product is found the above analysis will not be required, but the thickness of product shall be measured.
- The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.
11. 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.
12. 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.

DM/jt

cc: Jake Strohmman, DEQ/WQD
Warren Barrash
In-Situ, Inc.
210 South Third Street
Laramie, WY 82070

PERMIT TO CONSTRUCT

PERMIT NO. 89-412
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

U S Forest Service Laramie Garage Administrative Site

This permit hereby authorizes the applicant:

U S Forest Service
ATTN: John Gillum
605 Skyline Drive
Laramie, WY 82070

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-412. The facility is located in Section 4, T15N, R73W, SW NW ¼ in the county of Albany, 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.

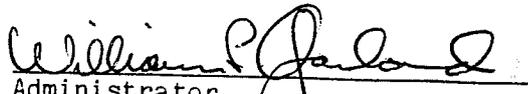
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

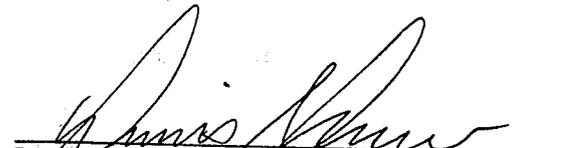
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

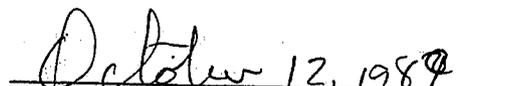
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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


Date of Issuance

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

Conditions for Monitoring Wells

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 89-412. 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.

Conditions to Permit 89-412 (continued)

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - 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. Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall 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 shall be cemented into a sloping concrete cap; and
 - j. 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;

Conditions to Permit 89-412 (continued)

- d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - 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 monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- BETX, TPH
- If free product is found the above analysis will not be required, but the thickness of product shall be measured.
- The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.
11. 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.
12. 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.

DM/jt

cc: Jake Strohman, DEQ/WQD
Warren Barrash
In-Situ, Inc.
210 South Third Street
Laramie, WY 82070

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-413

X New
Renewal
Modified

Water Distribution System Improvements

This permit hereby authorizes the applicant:

Town of Hanna
P.O. Box 99
Hanna, WY 82327

to construct, install or modify replacement of existing mains according to the procedures and conditions of the application number 89-413. The facility is located in Sections 16 & 19 T22N, R81W in the county of Carbon, 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: Southeast 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.

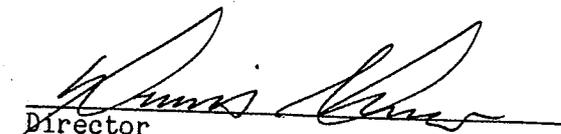
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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.

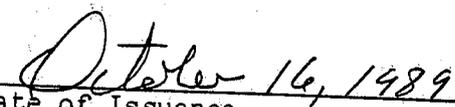
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

LBH/jt

xc: Paul McCarthy
PMPC
P.O. Box 370
Saratoga, WY 82331

R7

PERMIT TO CONSTRUCT

PERMIT NO. 89-414
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Groundwater pumping and treatment for PCE, UPRR Cheyenne Yard

This permit hereby authorizes the applicant:

Vulcan Chemical
P. O. Box 7689
Birmingham, Alabama 35253

to construct, install or modify soil vapor extraction and groundwater pump and treat system according to the procedures and conditions of the application number 89-414. The facility is located in Section 6, T13N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five 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.

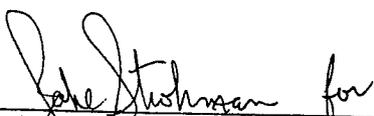
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

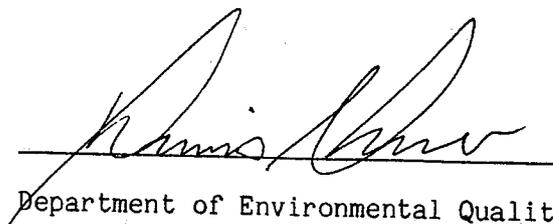
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 Director
Water Quality Division



Department of Environmental Quality

November 13, 1989
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-414

1. This permit is issued for the facility plan, project design drawings and schedule submitted September 14, 1989; and including the sampling and operations plans submitted September 26, 1989.
2. After one year, an evaluation of the effectiveness of the remediation should be made. A written report shall be submitted to DEQ/WQD by December 1, 1990. It is anticipated that this evaluation may require additional sampling points using new borings. If indicated by the evaluation, DEQ/WQD may ask the operator to install additional remediation. Termination of remediation actions will be based on effective clean-up of the PCE as demonstrated by in-situ testing, not completion of a specified operating schedule.
3. The permittee shall notify the DEQ/WQD of the name, phone number and address of a person to be contacted in case of problems with the recovery system.
4. The permittee shall operate the recovery system continuously unless DEQ/WQD allows other operational plans. The DEQ/WQD shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.

LBH/nc

cc: USPCI

5665 Flatiron Parkway
Boulder, CO 80301

R.F.

PERMIT TO CONSTRUCT
CONDITIONED

- New
- Renewal
- Modified

Permit No. 89-415RR

Shortstop Sinclair
(Name of Facility)

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

W. E. Davis

400 North 6th

Greybull, WY 82426

to construct and install a gasoline/groundwater recovery and treatment system facility according to the procedures and conditions of the application No. 89-415RR. The facility is located in SE 1/4 SW 1/4 Sec. 8, T52N, R93W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

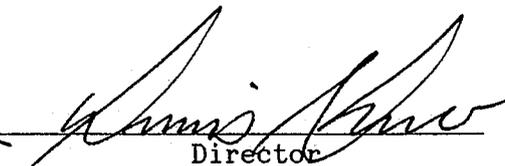
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

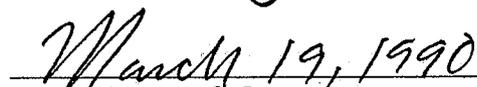
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Director
Dept. of Environmental Quality


Date of Issuance

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

This permit is issued with the understanding that the recovery system authorized is not designed to recover and treat the entire area of contamination. This system is intended to prevent further migration, and to recover and treat the gasoline and contaminated groundwater within the systems capture area. This permit is issued with the following special conditions:

SPECIAL CONDITIONS for PERMIT to CONSTRUCT 89-415RR

1. A recovery system must be designed, permitted, and installed to address the recovery and treatment of the portion of the contamination not captured by the system authorized in this permit. This system must be designed within 90 days of and constructed within 180 days of receipt of this permit.
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. The permittee shall notify the division of the name, phone number and address of the on-site operator of the recovery system.
4. The permittee shall operate the recovery system continuously unless Department of Environmental Quality, Water Quality Division allows other operational plans. The division shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.
5. An approved Operation and Maintenance Manual shall be provided to the division and to all operators. The O & M Manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, troubleshooting guide, discharge requirements and limitations, Department of Environmental Quality contact, provisions in the event of a spill, methods for handling and disposing of hydrocarbon product and contaminated water in a proper manner, and safety requirements.
6. The hydrocarbon recovery system shall be "winterized" to prevent freeze-up and breakdown.
7. A status report shall be provided to the division on a monthly basis. The report shall include a minimum, volumes pumped of water and hydrocarbon product, downtime and dates, effectiveness of the recovery system, monitoring data for all monitor wells and the recovery well current pumping rate and radius of influence. Following the pump test, the system will be monitored for drawdown weekly for four weeks. The influent to any treatment system and the discharge to the storm sewer will be sampled for BETX monthly. The entire system will be inspected and maintained at least monthly. The following wells will be included in the monthly drawdown, static water level and product thickness measurements:

MW-4, DW-1, DW-2, DW-3, DW-4, DW-5, DW-7, DW-8, DW-9.

Maps detailing the static water levels and product thickness in the area will be submitted in the monthly report. Wells MW-4, DW-2, DW-3, DW-4, DW-5, DW-9 shall be sampled quarterly for benzene, ethylbenzene, toluene and xylene (BETX) and product layers. If product layers exist, samples need not be taken for BETX or TPH. All reports are due within 30 days of the end of each quarter.

8. 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.
9. This hydrocarbon recovery system shall be installed and made operational by April 15, 1990.
10. All contaminated soils, water and hydrocarbon product generated by the installation and operation of this system shall be disposed properly and as determined by the Department to be appropriate.

PERMIT TO CONSTRUCT

New

Permit No. 89-416R

Renewal

Modified

Dubois Hatchery Sewage Disposal System

(Name of Facility)

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

Wyoming Game & Fish Department

5400 Bishop Blvd.

Cheyenne, WY 82006

to replacement leach field and piping from lift station according to the procedures and conditions of the application No. 89-416R. The facility is located in Sec. 21, T41N, R106W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

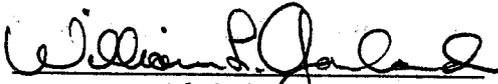
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

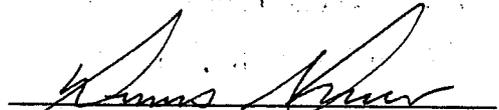
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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



Director
Dept. of Environmental Quality



Date of Issuance

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

R 7

PERMIT TO CONSTRUCT

PERMIT NO. 89-417
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

DEEP WELL GROUND BED INSTALLATION

This permit hereby authorizes the applicant:

Amoco Pipeline Co.
P.O. Box 1209
Mills, WY 82644

to construct, install or modify deepwell anodes according to the procedures and conditions of the application number 89-417. The facility is located in STATEWIDE in the county of STATEWIDE, in the State of Wyoming. This permit shall be effective for a period of five 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.

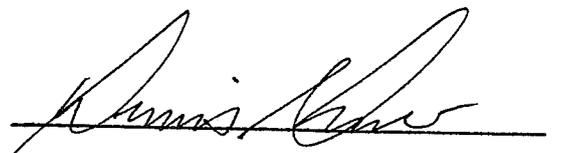
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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


Department of Environmental Quality

October 30, 1989
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-417

1. The upper 30 feet of the well should be filled with bentonite except for the cement plug as shown on sheet 1. This is necessary to comply with Section 70 of Chapter XI for requirements to abandon wells.
2. Any aquifers known to be contaminated by human activities need to be completely isolated. The groundwater in the Brookhurst area specifically should be completely cased out. The sections involved are Sections 5 and 6, T33N, R78W.
3. After the deep anode ground bed 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 the well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
4. In addition to the anode bed construction information submitted with the permit application, the following items relating to well construction must be addressed when the well is installed:
 - a. Bentonite grout seal installed to a depth just above coke breeze.
 - b. The coke breeze backfill has a total organic content no greater than 0.2 percent.
 - c. All aquifers encountered while drilling shall be isolated with polymer mud to prevent co-mingling of different aquifers. Otherwise each aquifer shall be isolated, sampled and analyzed for all parameters contained in Table I of Chapter VIII of Wyoming Water Quality Rules and Regulations. If aquifers are of the same class of use as determined by the Department of Environmental Quality, intermingling may be allowed.

Conditions to Permit 89-417 (continued)

5. Within 45 days after the well has been installed, as-built construction plans need to be submitted to the Wyoming Department of Environmental Quality, Water Quality Division, detailing that the groundwater was protected during construction.

LBH/nc



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

January 16, 1990

Honorable Martha Gunter
Mayor, City of Kemmerer
P O Box 312
Kemmerer, WY 83101

RE: Federal Sewage Works Grant C560261-94; DEQ/WQD Ref. No. 89-418; Approval
of Plans and Specifications

Dear Mayor Gunter:

The plans and specifications for the construction of wastewater treatment facility improvements 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/jt
Enclosures

xc: Steve Golnar, City Administrator
Veane Taylor, Superintendent of W/WW Plants
Dan Dean, Crank Companies
Bill Locke, DEQ/WQD, Lander
Grant File
Archives File



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
----------------------------------	--	---	--	--

January 17, 1990

Mr. Steve Golnar, City Administrator
City of Kemmerer
Box 312
Kemmerer, Wy. 83101

Re: Federal Sewage Works Grant C560261-94; Clarifier Covers Project;
Kemmerer, Wyoming;

Dear Mr Golnar:

Enclosed you will find the plans and specs approval letter and the Permit to Construct for the Clarifier Covers Project at the City's wastewater treatment plant. With the issuance of the Permit to Construct the City has now complied with the regulations of the Wyoming Department of Environmental Quality, and is in a position to advertise this project for construction bids. Although the City could now start to advertise this project, there are requirements of EPA which have not been met. If you begin to advertise before having met the EPA requirements, there is the risk of not being reimbursed by EPA for costs which are incurred.

I have been in contact with Vean Taylor and Dan Dean concerning this project. It is my understanding that the City has been trying to fill the position of Director of Public Works, and consequently, the clarifier covers project has sort of been put on hold. Once the position is filled I request that the new Director of Public Works contact me so that I can explain to him/her what has to be done to insure that all EPA requirements have been met. If you have any questions, please give me a call at 777-7073.

Sincerely,

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

WK/mad
Enclosures

cc: Mayor Marta Gunter, City of Kemmerer (w/encl)
Vean Taylor, City of Kemmerer
Dan Dean, Crank Companies (w/encl)
Bill Locke, DEQ/WQD Lander (w/encl)
Grant file (w/encl)



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 12, 1990

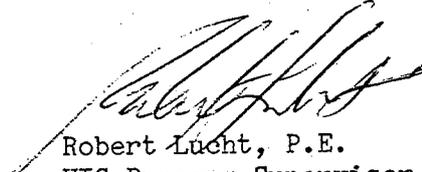
Reed Smith
Amoco Production Company
P.O. Box 829
Evanston, Wyoming 82930

RE: Cathodic Protection Wells
Permit 89-417
Statewide, Wyoming

Dear Mr. Smith:

Amoco Production Company has already applied for and received a statewide permit to construct cathodic protection anodes. I am enclosing your application number 90-102 and a copy of the existing permit. The permit that you applied for is a direct duplication of the existing permit.

Sincerely,



Robert Lucht, P.E.
UIC Program Supervisor

RL/mad

cc: Jake Strohman

PERMIT TO CONSTRUCT

PERMIT NO. 89-418
Ref. No. 79-387; 87-204

New
Renewal
X Modified

Kemmerer WWTF Clarifier Covers

This permit hereby authorizes the applicant:

City of Kemmerer
P O Box 312
Kemmerer, WY 83101

to construct, install or modify dome covers for the two existing clarifiers according to the procedures and conditions of the application number 89-418. The facility is located in SW $\frac{1}{4}$, Section 13, T21N, R116W in the county of Lincoln, 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.

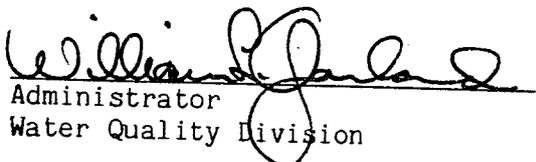
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 210 Lincoln, Lander, Wyoming 82520; telephone (307) 332-3144.

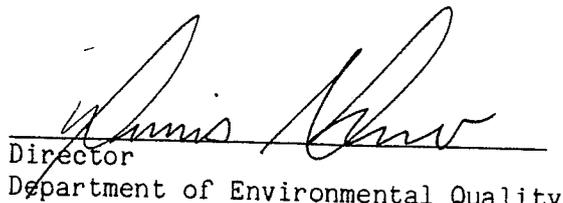
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any 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



Date of Issuance

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

WK/jt



THE STATE OF WYOMING

RECEIVED



JUL 23 1990

Department of Environmental Quality

WATER QUALITY DIVISION

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

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

July 16, 1990

Mr. Kearby Cotter
Case/Cotter, Inc.
6625 East 49th Avenue
Commerce City, CO 80022

RE: The Ranch At Ucross Wastewater Treatment Plant
Permit Application No. 89-419

Dear Mr. Cotter:

On September 25, 1989, our office received a permit application for the above referenced project. On October 13, 1989, a review was sent to you asking for additional information. Because of the length of time that has occurred since that review and in accordance with Department of Environmental Quality/Water Quality Division Rules and Regulations the permit application is being sent back to you.

If you have any further questions or comments, please feel free to call our office at 307/672-6457.

Sincerely,

G. Peter Borner
Water Quality Engineer
Water Quality Division

GPB:jj

xc: John Hildebrand, 2836 U. S. Highway 14-16E, Clearmont, WY 82835
Norma Coulson, DEQ/WQD, Cheyenne

RF.

PERMIT TO CONSTRUCT

PERMIT NO. 89-420
SEE SPECIAL CONDITIONS

New
 Renewal
 Modified

GRACE DRILLING COMPANY MONITOR WELLS

This permit hereby authorizes the applicant:

Grace Drilling Company
15301 Dallas Parkway, Suite 250LB30
Dallas, Texas 75248

to construct, install or modify a system of monitor wells according to the procedures and conditions of the application number 89-420. The facility is located in Section 34, SW $\frac{1}{4}$ SE $\frac{1}{4}$, T34N, R80W in the County of Natrona, 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.

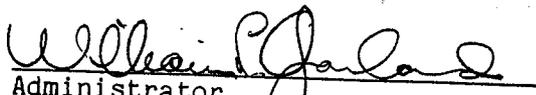
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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


Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT TO CONSTRUCT 89-420

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 89-420. 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.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:

Conditions to Permit 89-250 (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. 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. Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall 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 shall be cemented into a sloping concrete cap; and
 - j. 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. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;

Conditions to Permit 89-250 (continued)

- 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 monitor wells drilled under this permit shall be sampled for Purgeable Halocarbons by EPA Method 601, Purgeable Aromatics by EPA Method 602, and Phenolics by EPA Method 604, quarterly for a minimum of 1 year unless the Water Quality Division allows a modification to the sampling plan. Results from these analyses shall be reported to the Cheyenne office no later than 30 days following the end of the calendar quarter in which the samples were taken.
 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.

cc: Jake Strohman
UIC Files

RL/jn

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-421
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Conoco Bulk Plant Recovery System

This permit hereby authorizes the applicant:

John O'Brien
Energy Distributing Company
P O Box 1340
Casper, Wyoming 82602

to construct, install or modify recovery well and interceptor trench system to pump gasoline and contaminated groundwater from the subsurface according to the procedures and conditions of the application number 89-421. The facility is located in NW $\frac{1}{4}$, SW $\frac{1}{4}$, Section 25, T47N, R93W in the county of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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.

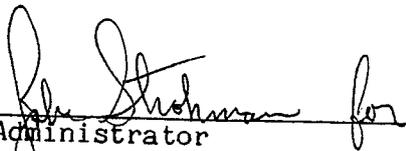
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

November 13, 1989
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT # 89-421

1. Once the hydrocarbon recovery system has been installed, the owner will provide the DEQ/WQD with a report that details the logs.
2. The results of any analyses conducted on soil or water removed from this recovery system during the life time 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 fifteen (15) days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. This 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 DEQ/WQD five (5) days prior to the exact dates of drilling and installation.
7. The permittee shall notify the Division of the name, phone number, and address of the on-site operator of the recovery system.

Conditions to Permit 89-421 (continued)

8. The permittee shall operate the recovery system continuously unless DEQ/WQD allows other operational plans. The Division shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.
9. Prior to operation of the hydrocarbon recovery system, an approved Operation and Maintenance Manual shall be provided to the Division and to all operators. The O&M Manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, trouble shooting guide, discharge requirements and limitations, DEQ contact, provisions in the event of a spill, methods for handling and disposing of gasoline produce produce in a proper manner, and safety requirements.
10. The hydrocarbon recovery system shall be "winterized" to prevent freeze-up and breakdown.
11. 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 pumped of water and hydrocarbon product, downtime and dates, effectiveness of the recovery system, the current recovery well pumping rate and radius of influence. All wells installed by Energy Distributing's consultant in relationship to this project will be sampled quarterly for BETX, SWL, and product layers. Wells containing product layers are not required to be sampled for BETX. Concentration, product and SWL gradient contour maps will be submitted with all quarterly reports quarterly reports are due within 30 days of the end of each quarter.
12. 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 gasoline product and related dissolved constituents shall be recovered and cleaned up in a timely and diligent manner until released by DEQ/WQD. The issuance of this permit by the department is not to be construed as a final remedial measure. The permittee is required to cleanup, in a timely manner all contaminated groundwater caused by releases from the permittees property.

MML/jt

xc: Joby L. Adams
Delta Environmental Consultant, Inc.
2637 Midpoint Drive, Suite F
Fort Collins, CO 80525
Steve Gerber, DEQ/WQD, Lander
Jake Strohman, DEQ/WQD

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-422
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Go Gas Convenience Store

This permit hereby authorizes the applicant:

Richard Mills
Conoco Bulk Plant
3200 Pearl
Boulder, CO 80301

to construct, install or modify two hydrocarbon recovery wells, interceptor trenches, associated monitor wells and a wastewater air stripping treatment system to pump gasoline and contaminated groundwater from the subsurface according to the procedures and conditions of the application number 89-422. The facility is located in Section 25, NW $\frac{1}{4}$, T47N, R93W in the county of Washakie, 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.

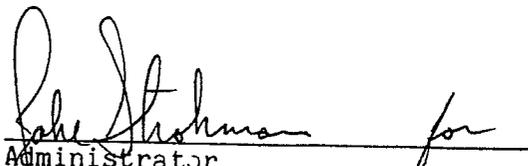
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

November 13, 1989
Date of Issuance

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

SPECIAL CONDITIONS TO PERMIT #89-422

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 logs and locations.
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 Department of Environmental Quality, Water Quality Division five days prior to the exact dates of drilling and installation.
7. The permittee shall notify the division of the name, phone number and address of the on-site operator of the recovery system.

Conditions to Permit 89-422 (continued)

8. The permittee shall operate the recovery system continuously unless Department of Environmental Quality, Water Quality Division allows other operational plans. The division shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.
9. Prior to operation of the hydrocarbon recovery system, an approved Operation and Maintenance Manual shall be provided to the division and to all operators. The O & M Manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, troubleshooting guide, discharge requirements and limitations, Department of Environmental Quality contact, provisions in the event of a spill, methods for handling and disposing of hydrocarbon product and contaminated water in a proper manner, and safety requirements.
10. The hydrocarbon recovery system shall be "winterized" to prevent freeze-up and breakdown.
11. 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. All reports are due within 30 days of the end of the period. The quarterly report shall include at a minimum, volumes pumped of water and hydrocarbon product, recovery rates, down time and dates, effectiveness of the recovery system, monitoring data for all monitor wells and the recovery well including analyses for benzene, ethylbenzene, toluene, xylene and lead in all wells that do not have a product layer, current pumping rates, the radius of influence, groundwater gradient and produce thickness maps. If the above information is included in all monthly report it need not be included in the quarterly report.
12. All contaminated soil, contaminated water, and hydrocarbon product shall be disposed of properly.
13. The vapors in the school administration building shall continue to be mitigated until otherwise directed by the department.
14. If the modification to permit 87-170 does not adequately address the plume of contamination between RW1 and RW2, additional recovery measures will be necessary.
15. All permit conditions of permit 87-059, 87-170, 87-195, 88-408, 88-499, and 88-508, are binding.
16. All biocide and GW-4020 injected into the well bore to prevent scaling and microbiological growth in the air stripper shall be retained and collected within the radius of influence of the recovery system.

MML/jt

xc: William L. Garland, DEQ/WQD
Jake Strohman, DEQ/WQD
Steve Gerber, DEQ/WQD, Lander

LAND APPLICATION PERMIT

PERMIT NO.: 89-423
SEE SPECIAL CONDITIONS

Amoco Production - Elk Basin
(Name of Facility)

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

Amoco Production

Box 569

Powell, WY 82435

to land apply 800 bbls. of waste oil. The application site is located in Sec. 24, T58N, R100W in the county of Park in the State of Wyoming. This permit shall be effective for a period of one (1) 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 allow 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.

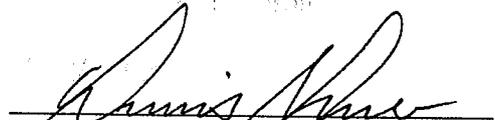
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

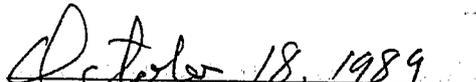
Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 infringements of federal, state or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality


Date of Issuance

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

LAND APPLICATION STANDARD CONDITION

1. Waste oil shall be applied at a rate which will not produce runoff or ponding.
2. The application site slope shall not exceed 8 percent.
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 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.

LAND APPLICATION PERMIT

PERMIT NO.: 89-424R

Green River WWT Land Application
(Name of Facility)

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

City of Green River

50 East Second North

Green River, WY 82935

to land apply approximately 480 cubic yards of municipal sludge on 0.38 acres to dry. Ultimate disposal will be the Green River Landfill. The application site is located in NE 1/4, Section 16, T17N, R107W in the county of Sweetwater in the State of Wyoming. This permit shall be effective for a period of two (2) 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 allow 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 constitution 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 infringements of federal, state or local laws or regulations.

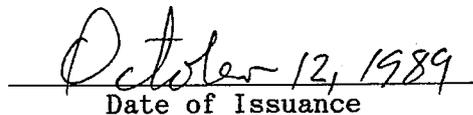
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION PERMIT

PERMIT NO.: 89-425
SEE SPECIAL CONDITIONS

Lite Butte Federal #3
(Name of Facility)

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

Davis Exploration

721 Big Horn Ave

Worland, WY 82401

to road apply waste crude oil - heavy asphaltic quality. The application site is located in Section 34, T51N, R92W and Sections 3, 10, 16, 20, 21, 29, T50N, R92W in the county of Big Horn in the State of Wyoming. This permit shall be effective for a period of 30 days 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.

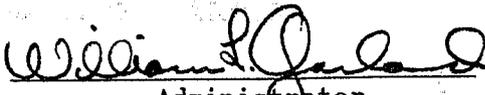
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

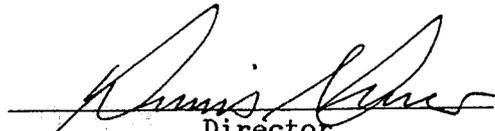
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

Nothing in this permit shall be construed to preclude the constitution 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 infringements of federal, state or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

October 12, 1989
Date of Issuance

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

ROAD APPLICATION STANDARD CONDITIONS

1. Waste oil shall be applied at a rate which will prevent runoff or ponding. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The slope of the application road shall not exceed 8 percent for vehicular application.
3. Waste oil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainage, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber, 210 Lincoln St., Lander, WY 82520 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 application and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Waste oil applied to a road will be mechanically incorporated into the road bed. Wastes will not be applied during the period from November 1 to April 30.
6. Only the roads designated in this permit are authorized for application of the waste oil. Additional sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.

RF

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-426R
 Reference No. 86-396R
 Conditions on Permit

Meadowlark Resort Wastewater Disposal System
 (Name of Facility)

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

Meadowlark Resort

P.O. Box 86

Ten Sleep, WY 82442

to construct an additional leachfield and another septic tank according to the procedures and conditions of the application No. 89-426R. The facility is located in Section 33, T49N, R86W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

Laurence Robinson
for Administrator
Water Quality Division

James R. Shaw
Director
Dept. of Environmental Quality

November 1, 1989
Date of Issuance

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

Conditions of Permit

1. Because of flow distribution concerns only "expansion No. 1 disposal field and the new septic tank is authorized by this permit. No other construction is allowed.
2. The existing field shall be disconnected and the new field connected directly to the line from the dosing chamber. The distribution box is not to be installed at this time.
3. Two observation ports shall be installed in the leachfield. The first is to be in the middle of the first run of perforated pipe. The second

is to be in the middle of the last run of perforated pipe. The observation ports shall be 4 inch and extend to grade with caps.

4. The grease trap must be inspected and evaluated as to proper sizing and design prior to putting the new leachfield into service.
5. The above work must be completed prior to the frost reaching a depth of greater than twelve inches of the work is to be completed in 1989.

PERMIT TO CONSTRUCT

New

Permit No. 89-427

Renewal

Modified

Aviation Administration Building Wastewater Treatment Facility
(Name of Facility)

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

Hawkins & Powers Aviation

P. O. Box 397

Greybull, WY 82426

to construct, install, or modify a septic tank/leachfield facility according to the procedures and conditions of the application No. 89-427. The facility is located in SW 1/4 NE 1/4, Sec. 6, T52N, R93W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

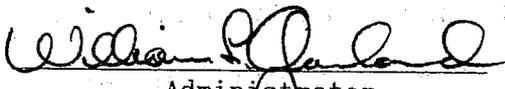
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

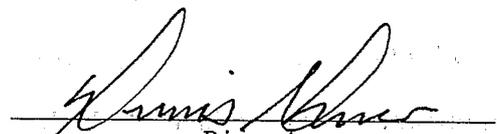
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

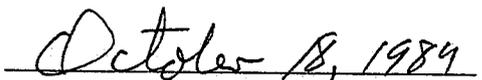
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-428R
Conditions on Permit

Shoshoni School Water Lines Reconstruction
(Name of Facility)

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

Town of Shoshoni

P.O. Box 267

Shoshoni, WY 82649

to replace water distribution system lines around school according to the procedures and conditions of the application No. 89-428R. The facility is located in Section 27, T94W, R38N in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

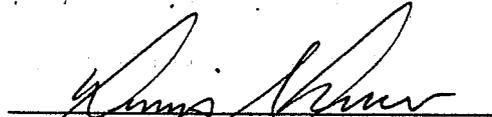
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

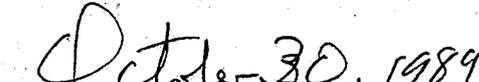
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Director
Dept. of Environmental Quality


Date of Issuance

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

Permit Condition

1. A double check valve must be installed on the irrigation system service connection instead of the specified single check valve.

PERMIT TO CONSTRUCT

Conditions

New

Permit No. 89-429

Renewal

Modified

Highplains Processing Plant

(Name of Facility)

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

Wayne M. Hanson

P. O. Box 1262

Thermopolis, WY 82443

to construct a series of three holding tanks facility according to the procedures and conditions of the application No. 89-429. The facility is located in Sec 2, T42N, R95W in the County of Hot Springs, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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, WY 82520; telephone, 332-3144.

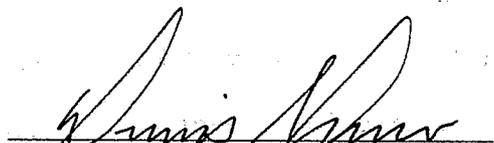
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

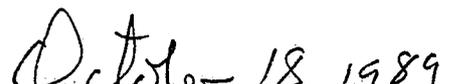
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

Conditions

- 1) Connection to the city sewer must be made for both the domestic sewage and holding tank effluent within 60 days from approval of the City of Thermopolis.
- 2) If Highplains Processing Plant employs any person other than those living at the adjacent residence the existing septic tank and leachfield size must be reevaluated for the new flows by a registered engineer and submitted to this office.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-430

Simpson Small Wastewater Disposal System
(Name of Facility)

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

Bill Simpson

Box 299

Alpine, WY 83128

to construct a small wastewater disposal system to service a grooming barn facility according to the procedures and conditions of the application No. 89-430. The facility is located in Sec 19, T 37N, R 118W 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.

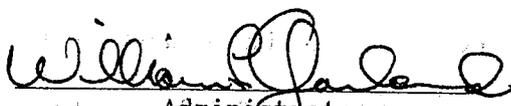
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

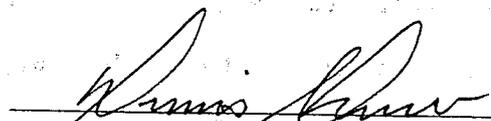
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

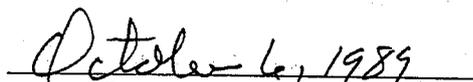
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Director
Dept. of Environmental Quality


Date of Issuance

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 89-431
SEE CONDITIONS

WYOMING HIGHWAY DEPARTMENT MONITORING WELLS-SHERIDAN
(Name of Facility)

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

Wyoming Highway Department

P. O. Box 668

Sheridan, Wyoming 82801

to construct, install or modify a monitoring well and borehole network according to the procedures and conditions of the application No. 89-431. The facility is located in SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 3, T.55N., R.84W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or 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, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

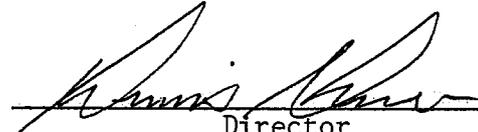
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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,

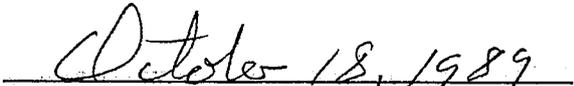
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

CONDITIONS FOR MONITORING WELLS

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 89-431. 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.

7. 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;
 - 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.
8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with the WQD standard procedures.
9. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:

EPA Methods 601 and 418.1 (TPH and BETX).

The results of these analyses shall be submitted to the Sheridan office by the last day of the month following the end of each quarter. The first set of results are due by the last day of October.

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.

EJ:jj

xc: Jake Strohmman

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.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - 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. Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall 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 shall be cemented into a sloping concrete cap; and
 - j. All monitor wells shall be designed so that they contain a minimum of three feet of water at all times.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 89-432
SPECIAL CONDITIONS

Y-O Ranch Estates (Water System Chlorine Storage Room)

This permit hereby authorizes the applicant:

Y-O Investments Inc.
857 South Street
Wheatland, WY 82201

to construct a chlorine storage room for a privately owned distribution system according to the procedures and conditions of the application number 89-432. The facility is located in SE 1/4 Section 19, T24N, R67W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of 2 years 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: Southeast District Office, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

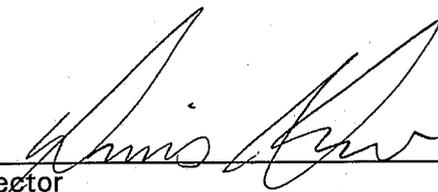
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2/28/95

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5 The applicant will provide immediate oral and/or written notice to Southeast district Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5 The self contained breathing apparatus (SCBA) is available through the Wheatland Fire Dept.

GLS/mad 50919.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 89-432

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

N/A

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

N/A

VII. Documentation of Statement of Basis.

A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

Footnote: Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

33954.DOC

R 7

PERMIT TO CONSTRUCT

PERMIT NO. 89-433
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Pancratz Company, Inc.

This permit hereby authorizes the applicant:

James R. Erskine
Key Bancshares of Wyoming
6101 Yellowstone
Cheyenne, WY 82009

to construct, install or modify soil borings according to the procedures and conditions of the application number 89-433. The facility is located in S3, T33N, R79W, SE SW $\frac{1}{4}$ in the county of Natrona, 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 Director
Water Quality Division


Department of Environmental Quality

October 12, 1989
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-433

1. The issuance of this permit does not relieve the permittee from obligations to complete an extent of contamination study and any remedial actions which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial measures may be required by the WQD. If contaminated groundwater is encountered, an adequate number of wells shall be installed to define the extent of contamination. The monitoring well construction, and investigation plan using the wells, must be approved by the Water Quality Division before installation.
2. 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 site map showing physical features and boring locations;
 - b. Final location and logs of all borings;
 - c. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - d. Water level and product thickness measurements, if encountered;
 - e. Sample collection procedures;
 - 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 (if encountered); and
 - i. Interpretation of data and conclusions including recommended remedial measures.
3. Proper sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 4. 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.
 5. Any down hole equipment shall be steam cleaned between borings.

DM/nc

cc: Jake Strohmman

LAND APPLICATION PERMIT

Permit No. 89-434
SEE SPECIAL CONDITIONS

COWGIRL LEASE ROAD APPLICATION
(Name of Facility)

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

O. C. Bock

P. O. Box 375

Osage, Wyoming 82723

To land apply waste crude in soils to lease roads. The application site is located in Section 31, T.47N., R.63W., in the County of Weston in the State of Wyoming. This permit shall be effective until November 1, 1989.

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.

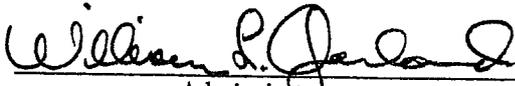
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

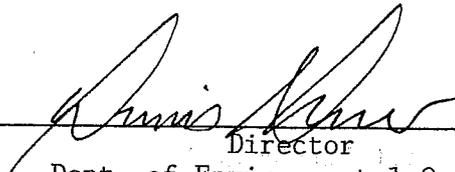
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

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.

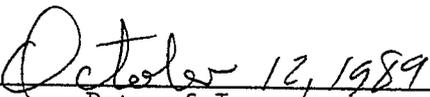
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. The application material shall not be saturated with contaminated liquids at a level that allows those liquids to seep from the soil material at a readily observable rate.
2. Application shall be terminated within 300 feet of the definable high water mark of perennial or intermittent drainages, irrigation canals, lakes and reservoirs.
3. The appropriate Water Quality office shall be notified 48 hours prior to any application. Notification shall be made to the NE District Supervisor, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, 307/672-6457.
4. This permit is in effect until November 1, 1989. Any activity after that time must be repermited.

BJ:jj

PERMIT TO CONSTRUCT

PERMIT NO. 89-435
See Conditions

- New
- Renewal
- Modified

Edson Express Terminal

This permit hereby authorizes the applicant:

Fleischli Oil Company
P O Box 487
Cheyenne, WY 82001

to construct, install or modify test boring and monitor well system according to the procedures and conditions of the application number 89-435. The facility is located in S1, T13N, R67W in the county of Laramie, 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.

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:

for Laurence Roberson
Administrator
Water Quality Division

Chris [Signature]
Director
Department of Environmental Quality

November 9, 1989
Date of Issuance

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

Conditions to Permit to Construct 89-435

1. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study. Results of the initial site investigation will be reviewed by the Department of Environmental Quality, Water Quality Division (DEQ/WQD) to determine whether or not further investigatory work or remedial actions be required at the site.
2. DEQ/WQD personnel shall be given at least 24 hours notice prior to the installation of the monitor wells and sample collection. Additional wells installed at the site must have prior approval from the DEQ/WQD.
3. 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. All wells must have a unique number.
4. Within 45 days of issuance of this permit, a report on the subsurface investigation must be submitted to the DEQ/WQD. The report must include the following items:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. A potentiometric surface map showing the direction of groundwater movement;
 - d. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - e. A description of the subsurface geologic conditions;

Conditions to Permit 89-435 (continued)

- f. Construction details and logs of all monitor wells;
 - g. Sample collection procedures, QA/QC information and analytical methods;
 - h. Static water level, product thickness and analytical results; and
 - i. Interpretation of data and conclusions including recommended remedial actions.
5. After the monitoring wells have fulfilled their useful purpose, and upon approval by DEQ/WQD, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. A plugging record must be filed with the DEQ/WQD within 15 days of abandonment.

SCF/mad

PERMIT TO CONSTRUCT

Conditions

New

Permit No. 89-436

Renewal

Modified

V1 Oil Co. Monitor Wells

(Name of Facility)

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

V1 Oil Company

c/o Andrews & Anderson

Broadway and Park

Riverton, WY 82501

to construct, install, or modify a 4 monitor wells facility according to the procedures and conditions of the application No. 89-436. The facility is located in Sec 7, T33N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

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

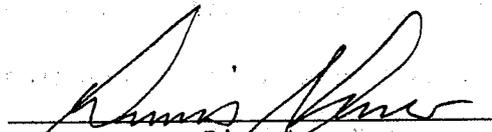
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

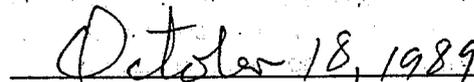
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

Conditions

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 89-436. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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.
3. 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.
4. 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.
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:
 - 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. A protective casing and locking cap is strongly recommended;
6. DEQ/WQD personnel shall be given at least two days notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
7. Within 90 days of 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 site map showing physical features, well locations and elevations. The same elevation data used for the other wells must be used for these;
 - b. Final location, construction details and logs of all monitoring wells;

- c. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - d. Water level and product thickness measurements;
 - e. Sample collection procedures;
 - 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.
8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 9. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly (schedule) for benzene, ethylbenzene, toluene and xylene.

The results of these analyses shall be submitted to the Lander office by the last day of the month following the end of each quarter. The first set of results are due with the report required in condition.

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.

Plans

89-437

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: BURNS BROS. BINGO STATION SEWAGE LAGOONS

ENGINEER: DM Hopkins & Associates
Box 6106
Cheyenne, WY 82001

APPLICANT: Burns Bros.
P.O. Box 5296
Cheyenne, WY 82003

WATER QUALITY DIVISION REFERENCE NUMBER: 90-097

REVIEWING ENGINEER: Lou Harmon, desk phone 307-777-7088

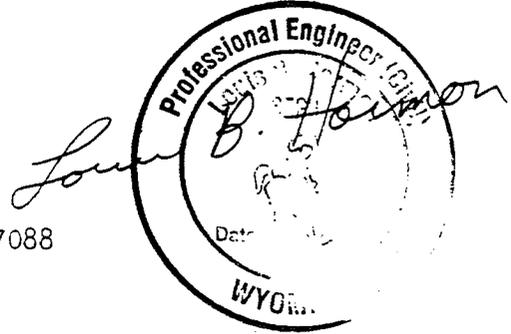
APPROVING ENGINEER:

DATE OF REVIEW: March 20, 1990

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. This application which has been assigned the number 90-097 by DEQ/WQD automatically cancels permit application 89-437 which was under review.
2. Inadequate information exists to determine the exfiltration rate from the lagoons. Section 46(d) of Chapter XI allows a maximum infiltration rate of $\frac{1}{4}$ " per day. With an infiltration rate in excess of $\frac{1}{2}$ inch per day, the present design will fail to maintain the 2 foot minimum depth in the primary cell.
3. Although this facility is allowed under provisions of Section 46, Small Non-discharging Waste Stabilization Ponds, the design must conform to Section 18, Lagoons. Several features of the design fail to conform to Section 18 requirements:
 - a. Section 18(v) Inlet: The inlet shall terminate by a distance at least equal to $\frac{2}{3}$ of the long axis of the primary lagoon from the outlet.
 - b. Section 18(vi) Inlet and outlet structures: Provide controls to permit varying water levels between two feet and the maximum depth, not to exceed 6 feet.
 - c. Section 18(vii) Interconnecting piping: The piping shall discharge at the floor of the lagoon.



See 90-097 for 2nd page

R7

PERMIT TO CONSTRUCT

PERMIT NO. 89-438
See Conditions

X New
Renewal
Modified

C. J. Abbott, Inc.

This permit hereby authorizes the applicant:

C. J. Abbott, Inc.
Box 9530
Casper, WY 82609

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-438. The facility is located in S5, 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: 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.

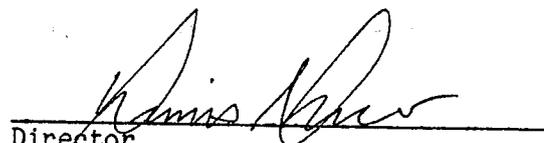
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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



Date of Issuance

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

Conitions to Permit to Construct 89-438

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 89-438. 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.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be

Conditions to Permit 89-438 (continued)

implemented when the wells are constructed, installed and developed:

- 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. Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall 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 shall be cemented into a sloping concrete cap; and
 - j. 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. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;

Conditions to Permit 89-438 (continued)

- 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 monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- BETX, TPH
- If free product is found the above analysis will not be required, but the thickness of product shall be measured.
- The results of these analyses shall be submitted to the Cheyenne office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.
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.

DM/mad

cc: Jake Strohman

RF

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

(X) New

Permit Number:

() Modified

UIC 89-439
CLASS 5X27

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

Tom Fuller, Osage Power Plant Manager
P. O. Box 315
Osage, Wyoming 82723
(307) 465-2262

is authorized to operate

a short term acidizing project for the rehabilitation of municipal water supply wells, Osage No. 3 and Osage No. 4 at the Black Hills Power and Light Company's Osage Power Plant.

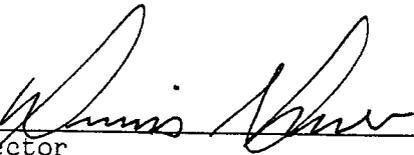
according to procedures and conditions of the application 89-439 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.



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

Oct 16, 1989
Date



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

October 16, 1989
Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is limited to the Madison Formation aquifer in Osage No. 3 and Osage No. 4 water wells. There are no other wells within a 1/4 mile radius of these wells.

B. Groundwater Classification

The Madison Formation in both of these wells is class I under Chapter VIII of the Wyoming Water Quality Rules and Regulations.

Nothing may be injected into this formation except acid for the purpose of improving the flow characteristics of the wells. At the conclusion of the acidizing job, acid pumped in shall be pumped back out and disposed of off site in an approved manner.

C. Authorized Operations

The permittee is authorized to inject up to 30,000 gallons of 15% hydrochloric acid into each of the two wells covered by this permit. At the conclusion of the treatment, this acid, which should then consist of a calcium chloride solution, will be withdrawn from the well for disposal off site. Water shall be pumped from each well until the pH and TDS has returned to baseline values before the injection.

The spent acid solution shall be disposed of off site in an approved manner, or may be discharged on site if the TDS is less than 5,000 mg/l and if an NPDES permit is either waived by the department or granted for this discharge. If off site disposal is selected, the following deep injection facilities are hereby approved to accept this waste:

NAME OF INJECTION WELL	OWNER'S NAME	UIC PERMIT NUMBER
Morse Ranch #4	Oedekoven Water and Hot Oil Service	87-457
Olsen #1A	Quantum, Inc.	87-339
C-H Minnelusa Unit	Prima Exploration	89-198
Shell Fox #1	Kissack's Water and Oil Service	87-380

The above list of deep injection wells are the only injection wells in Wyoming presently permitted to accept commercial waste. The owner of the facility selected shall be provided with a copy of this permit for his files.

Disposal in any other facility will require Water Quality Division approval prior to disposal.

Injection at pressures above the fracture pressure of the Madison Formation for the purpose of enhancing the flow characteristics of the permitted wells is hereby approved.

This permit does not permit the disposal of any waste into either of these wells. This prohibition includes both non-hazardous industrial waste, municipal waste, and hazardous waste as defined by 40 CFR 261.3.

This permit shall expire after one treatment of the wells has been accomplished. The total length of time allowed for injection under this permit shall not exceed a total of 24 hours actual pumping time, and the total elapsed time between the first injection under this permit and the final injection under this permit shall not exceed 30 days.

D. Proper Operation and Maintenance

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

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

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

E. Entry and Inspection

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

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

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

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

Because of the very short term nature of this discharge, no monitoring of other wells is required.

G. Requirements for Monitoring the Discharge

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

The discharge volume and pressure shall be recorded and submitted to the department at the conclusion of the acidizing job.

H. Test Procedures

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

I. Records and Reports

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

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

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

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and

- b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

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

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

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

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

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

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

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

K. Mechanical Integrity

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

Acid shall be pumped into these wells through a treating pipe and packer arrangement hung inside the surface casing in such a manner as to preclude the direct contact of acid with the surface casing. There is no requirement to prove mechanical integrity at the conclusion of the acidizing job.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the administrator.

L. Abandonment

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

M. Duties of the Permittee

It is a duty of the permittee to:

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

N. Financial Responsibility

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

Nothing is required for this short term permit.

O. Special Measures the Director Finds Necessary:

None required.

P. Special Permit Conditions:

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

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

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

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

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

For a municipality, state, federal or other public agency -- by either a principal executive officer or ranking elected official; or

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

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

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

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

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

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

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

S. Permit Transfer

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

T. Responsibilities

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

U. Property Rights

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

V. Severability

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

/jn

MEMORANDUM

TO: File WY DEQ 89-440
Laramie Westside Collector Rehabilitation Project Phase I; WY DEQ/WQD
89-440; EPA Grant No. C560251-94

FROM: Shawn Sullivan  7/9/95
Environmental Senior Analyst
Water Quality Division

This project was originally designed to use Insitu-Form for a portion of the sewer rehabilitation. However, due to the inadequate grade of some of the existing lines, it was decided to replace the sewer lines. Therefore, a redesign was required and a new permit application submitted. This memo is to close the 89-440 permit file.

if ✓

PERMIT TO CONSTRUCT

PERMIT NO. 89-441
See Special Conditions

X New
Renewal
Modified

City of Laramie Westside Collector Rehabilitation - Phase II

This permit hereby authorizes the applicant:

City of Laramie
P O Box 28
Laramie, WY 82070

to construct, install or modify a Westside Collector Rehabilitation Project - Phase II facility according to the procedures and conditions of the application number 89-441. The facility is located in S32, T16N, R73W in the county of Albany, 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.

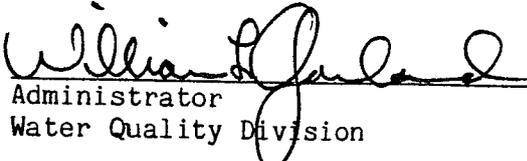
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

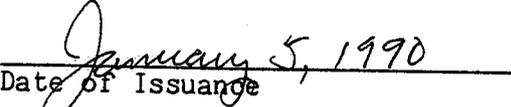
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

Special Conditions for Permit to Construct #89-441

1. This permit includes a waiver for the required ten foot minimum water and sewer parallel separation for line 1 between stations 23+04.60 and 26+26.80. Casing will not be required for this section. However, replacement of the service lines to the private property line and television inspection of the rehabilitated lines is required.
2. This permit also includes a waiver for the sections of sewer with below minimum slope. These lower slopes are necessary to allow connection to existing services and interceptors but are still sufficient to handle the expected flows.

SS/mad



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

January 2, 1990

G. P. McConnaughey
City Manager, City of Laramie
P O Box 28
Laramie, WY 82070

RE: City of Laramie, Wyoming C560251-94 DEQ/WQD Ref. No. 89-441, Approval of Plans and Specifications

Dear Mr. McConnaughey:

The plans and specifications for the construction of Laramie Westside Collector Rehabilitation project Phase II 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. This permit does not supercede the requirements for obtaining any permit from local or state agencies.

This permit includes a waiver for the required ten foot minimum water and sewer parallel separation for line 1 between stations 23+04.60 and 26+26.80. Casing will not be required for this section. However, replacement of the service lines to the private property line and television inspection of the rehabilitated lines will be required. Also included is a waiver for the section of sewer with below minimum slope. These lower slopes are necessary to allow connection to existing services and interceptors but are still sufficient to handle the expected flows.

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.

This is confirmation of our verbal authorization for the project to be advertised and bids opened. You are requested to furnish this office with the date this project is advertised and the date on which bids will be opened as soon as possible. You are reminded to complete the enclosed checklist and associated documentation when bids are opened.

The following points should be brought to your attention at this time:

1. Contracts may not be awarded until authorization has been given by the Department of Environmental Quality.
2. Prior DEQ approval is required for rejection of bids on any contract on this project.
3. Current wage rates must be in the specifications prior to bid opening.
4. Bidders must submit with their bid a signed statement as to whether they have previously performed work subject to the President's Executive Order Number 11246.
5. Contact EPA if any questions arise concerning MBE/WBE utilization on this project.

Following approval of the enclosed checklist and associated documentation by the State of Wyoming Department of Environmental Quality, you will be notified that the construction contract may be awarded.

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/SS/mad

cc: EPA, Region VIII
Randy Pahl, Western Water Consultants, Laramie, WY
Grant File

PERMIT TO CONSTRUCT

Conditions

New

Permit No. 89-442

Renewal

Modified

Park Shop Tank Removal Monitoring Wells

(Name of Facility)

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

City of Green River

50 East 2nd North

Green River, WY 82935

to construct, install, or modify a three (3) groundwater monitoring wells facility according to the procedures and conditions of the application No. 89-442. The facility is located in NE 1/4, Sec. 22, T18N,R107W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

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

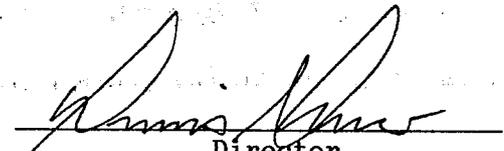
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

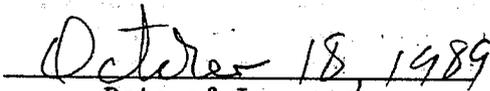
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

Conditions for Monitoring Wells

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 89-442. Additional wells meeting the requirements of the application 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.
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 at least one 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 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;
 - 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 monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:

TPH and BETX

The results of these analyses shall be submitted to the Lander office by the last day of the month following the end of each quarter. The first set of results are due by the last day of January 1990.

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.

cc: Jake Strohman

PERMIT TO CONSTRUCT

New

Permit No. 89-443R

Renewal

Conditions on Permit

Modified

Basin Conoco Subsurface Investigation

(Name of Facility)

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

Steve R. Olson

P.O. Box 507

Basin, WY 82410

to install a series of test borings and monitor wells according to the procedures and conditions of the application No. 89-443R. The facility is located in NW 1/4 SE 1/4 Section 21 (O.S.) T51N, R93W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

Permit to Construct
Basin Conoco Subsurface Investigation
89-443R
Page 2

construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

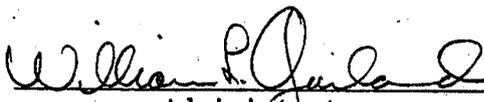
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

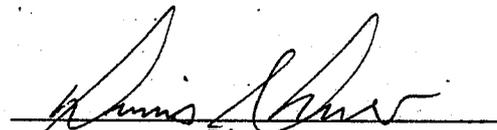
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

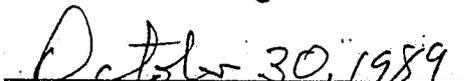
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

Conditions for Monitoring Wells

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 89-443R. Additional wells

meeting the requirements of the application 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.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - h. A seal of bentonite or bentonite grout is required from the surface to at least one foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - i. 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 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;
 - 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 monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:
BETX and TPH
- The results of these analyses shall be submitted to the Lander office by the last day of the month following the end of quarter. The first set of results are due by the last day of December, 1989.
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.
- cc: Jake Strohman

RF.

PERMIT TO CONSTRUCT

Conditions

New

Permit No. 89-445

Renewal

Modified

Black Butte Coal Monitoring Wells

(Name of Facility)

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

Black Butte Coal Company

P. O. Box 98

Point of Rocks, WY 82942

to construct, install, or modify a test boreholes and groundwater monitoring wells facility according to the procedures and conditions of the application No. 89-445. The facility is located in SW 1/4, NW 1/4, Sec 11, T. 20N, R. 101W, in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

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

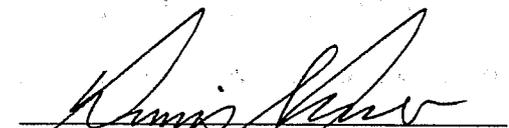
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

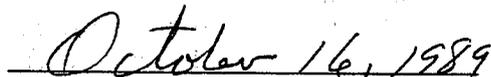
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

Conditions for Monitoring Wells

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 89-445. Additional wells meeting the requirements of the application 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.
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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall 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 at least one foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. Within 90 days of 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;
 - 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.
8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

9. All monitor wells associated with this facility shall be sampled and the wastewater analyzed twice within a one month period for the parameters listed below:

Total Purgeable Hydrocarbons, B.T.E.X.

(List exact parameters for each well if it differs between wells or state "Parameters listed in the permit to construct application #89-445.)

The results of these analyses shall be submitted to the Lander office.

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.

cc: Jake Strohman

PERMIT TO CONSTRUCT

Conditions

New

Permit No. 89-444

Renewal

Modified

Marathon - Oregon Basin Gas Plant

(Name of Facility)

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

Marathon Oil Co.

P. O. Box 2690

Cody, WY 82414

to drill, install 3 soil borings or monitor wells facility according to the procedures and conditions of the application No. 89-444. The facility is located in Sec 29, T. 51N, R. 100W 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 construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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

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

or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

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

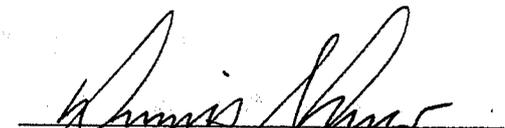
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

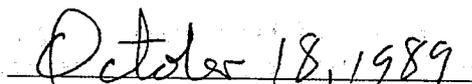
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

Conditions

1. The groundwater monitoring wells/soil borings shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 89-444. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Soil borings shall be completed as described in the letter dated October 2, 1989, from R. L. Thompson. Soil borings shall be completed as monitor wells if water is encountered.
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.
6. If the soil borings are turned into monitor wells, 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 at least one 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 days notice prior to the installation of the drilling and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of 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. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - 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. If water is encountered, all monitor wells associated with this facility shall be sampled and the wastewater analyzed BETX and TPH.

The results of these analyses shall be submitted to the Lander office with the initial report.

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.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-446

Fourth Street Water & Sewer Extention
(Name of Facility)

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

Uinta County School District No. 4

P. O. Box 130

Mountain View, WY 82939

to construct, install, or modify a water and sewer mains to existing residences facility according to the procedures and conditions of the application No. 89-446. The facility is located in NW 1/4, Sec 23, T. 15N, R. 115W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

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

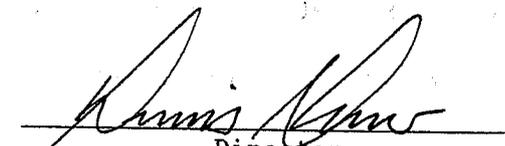
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

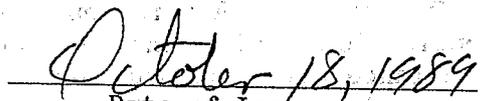
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-447

Wyoming Highway Shop Sewer Improvement
(Name of Facility)

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

Wyoming Highway Department

P. O. Box 1260

Rock Springs, WY 82902

to construct, install, or modify a sanitary sewer service line and sand/grease trap facility according to the procedures and conditions of the application No. 89-447. The facility is located in NW 1/4, Sec. 26, T. 19N, R. 105 W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

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

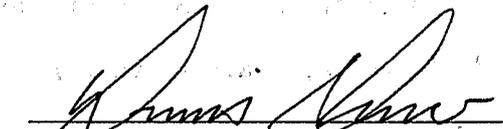
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

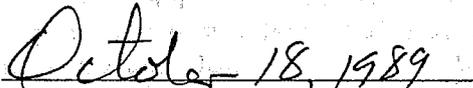
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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



STATE OF WYOMING

KE SULLIVAN
GOVERNOR



Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

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

October 12, 1989

Northwest Pipeline Corp.
ATTN: Mr. Dave Hooper
295 Chipeta Way
Salt Lake City, Utah 84158-0900

RE: Permit to Construct No. 89-448, Sublette Co.

Dear Mr. Hooper:

A review of the plans and specifications for construction of four monitoring wells at the Big Piney Compressor Station has been completed by this office. The information provided appears to meet the minimum design standards as defined by the State of Wyoming. A "Permit to Construct" cannot be issued owing to the fact that the wells have already been installed.

The monitoring wells have been accepted as-built under the following conditions:

1. 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.

Northwest Pipeline Corp.
October 12, 1989
Page 2

5. The issuance of this as-built permit does not relieve the permittee from

Northwest Pipeline Corp.
October 12, 1989
Page 2

5. The issuance of this as-built 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.

Please retain a copy of this letter in your files as verification that the improvements have been accepted by this Department. Should you have any questions or comments, please contact this office.

Sincerely,



Bill Locke, P. E.
Southwest District Supervisor

BL/jyi



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
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

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

April 30, 1991

J.E. Stewart
Area Operations Supervisor
Chevron U.S.A., Inc.
P.O. Box 6004
Evanston, Wyoming 82930-6004

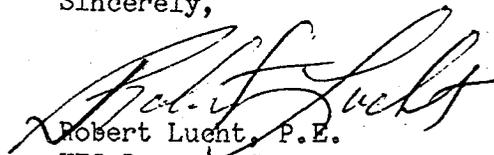
RE: Chevron Carter Creek Injection Permit
Permit UIC 89-449
Uinta and Lincoln Counties, Wyoming

Dear Mr. Stewart:

Your interpretation of the above referenced permit is correct, you are no longer required to analyze for Barium, Cadmium, Total Chromium, Lead, Mercury or Silver. This permit allows these parameters to be dropped after one year of analyses where no single sample has exceeded 10% of the discharge limit in the permit.

The only signature for which this department has received the required authorization is J.E. Stewart. This means that you must personally sign each quarterly report as required by federal regulations and the language of your permit. You cannot delegate this responsibility down to anyone else without obtaining a new authorization letter signed by at least a Vice President of Chevron. The quarterly reports just received were signed by S.O. Harbour in your stead. This is a technical violation of the permit. Please see to it that all future reports are signed only by the authorized person.

Sincerely,


Robert Lucht, P.E.
UIC Program Supervisor
Water Quality Division

RL/jt

xc: Jake Strohmman



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
----------------------------------	--	---	--	--

January 22, 1990

Dean Forsgren
Environmental Safety
Fire and Health Coordinator
Chevron U.S.A. Inc.
6400 Fiddlers Green Circle
Englewood, Colorado 80111

RE: Chevron Carter Creek Injection Wells
Draft Permit UIC 89-449
Uinta and Lincoln Counties, Wyoming

Dear Mr. Forsgren:

Chevron's response to the Notice of Violation satisfies all Water Quality Division concerns on this violation. It is understood that the next MIT test will be required on or before 6/25/92 which is 5 years from the date when the first part of the MIT was run. This MIT shall be run with both parts at the same time.

The information submitted by Chevron has been reviewed and found to be satisfactory. Submission and acceptance of this data returns this well to full compliance. The resolution of this violation in a timely manner clears the way for the re-issuance of the draft permit UIC 89-449. This permit was in public comment from December 11, 1989 until January 11, 1990. No comments were received on this permit at all.

Enclosed please find the signed copy of new permit UIC 89-449 which covers both wells. Chevron should begin complying with all provisions of this permit immediately. This new permit replaces both of the existing permits.

Your next quarterly report on this injection is due no later than April 30, 1990. As of the date of this new permit, monthly reports are no longer required.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/jt
xc: Jake Strohmman, WQD

P.F.

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

- () New
- (X) Modified

Permit Number:
UIC 89-449
Ref. UIC 82-107 & 83-103
UIC CLASS Class 1-I
Non-hazardous

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

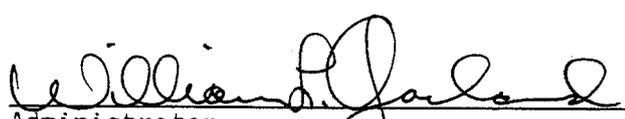
Chevron USA Inc.
P. O. Box 599
Denver, Colorado 80201

is authorized to operate

a system of two disposal wells located at the Carter Creek Gas Processing Plant. Well WDW 1-36P was formerly permitted under permit number UIC 83-103, and well WDW 1-5F was formerly permitted under permit number UIC 82-107.

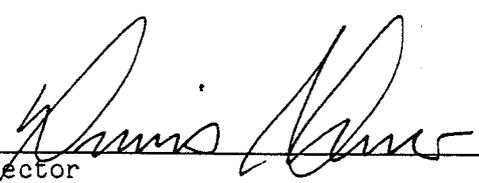
according to the conditions and applications UIC 83-103 and UIC 82-107 and subsequent amendments and modifications.

This permit shall become effective on date of issuance.



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

Jan 22, 1990
Date



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

January 25, 1990
Date

A. Discharge (Injection) Zone and Area of Review

In well WDW 1-36P, the injection zone is limited to the entire Nugget Formation through existing perforations at 9,090 - 10,000 feet. In well WDW 1-5F the injection zone is limited to the entire Nugget Formation through existing perforations at 8,556 - 9,444. Injection and disposal into any other zone outside of the Nugget Formation is prohibited. Discharge to the surface is not authorized. The permittee may elect to re-perforate either or both of these wells in the future to open up additional zones within the Nugget Formation. Water Quality Division approval is required before any perforation operation is allowed on either of these wells.

The area of review has been calculated to be two circles with their centers at well WDW 1-36P and WDW 1-5F and having radius' of .7 mile. The total area of review is shown in the following table:

TABLE 1: AREA OF REVIEW

Township 18 North, Range 119 West, 6th P.M.

=====

Section 5: W1/2, W1/2E1/2

Section 6: E1/2, NE1/4SW1/4, NW1/4

Township 18 North, Range 120 West, 6th P.M.

=====

Section 1: N1/2N1/2

Township 19 North, Range 119 West, 6th P.M.

=====

Section 30: SW1/4SW1/4

Section 31: SE1/4, W1/2

Section 32: SW1/4, SW1/4SE1/4

Township 19 North, Range 120 West, 6th P.M.

=====

Section 25: S1/2S1/2

Section 26: SE1/4SE1/4

Section 35: SE1/4NE1/4, NE1/4SE1/4

Section 36: All

B. Groundwater Classification

The water in the injection zone is located so as to make its normal use economically and technologically impractical. The groundwater in the receiver contains in excess of 10,000 mg/l of Total Dissolved Solids. In addition, the water in this formation has been previously permitted for the injection of industrial wastes and oil field produced waters.

For the above reasons, the Nugget Formation within the Area of Review shown on Table 1 is class VI under Water Quality Rules and Regulations, Chapter VIII.

C. Authorized Operations

The permittee is authorized to inject into the Nugget Formation through perforations at 9,090 to 10,000 in well WDW 1-36P and 8,556 to 9,444 in well WDW 1-5F, industrial wastes consisting of:

1. Shop and lab drain water which is the floor drainage from the warehouse and plant shops plus discarded lab samples including spent chemicals.
2. Beavon Stretford Recovery Process (BSRP) Decanter Overhead, which is a purge of the solution used to recover hydrogen sulfide and convert it to elemental sulfur.
3. Boiler blowdown from the sulfur plant boilers and fuel gas fired boilers. Permittee states it does not use corrosion inhibitors containing chromates.
4. Zeolite blowdown which is the discarded brine from the regeneration cycle of the Zeolite ion exchange softening process.
5. Retention pond and emergency pond water which includes nonreusable water from the process drains and rain/snow runoff from the process areas.
6. Brine discard which is water recovered from the inlet well streams.
7. Produced waters (SIC 13) from any formation within the Carter Creek/Whitney Canyon production field, and fluid from wellhead cellers.
8. Non-hazardous industrial wastes from other sites may be allowed to be injected provided it can be shown that these wastes are not regulated under RCRA as defined in 40 CFR 261.3. For any waste to be injected under this paragraph, Water Quality Division approval shall be obtained prior to injection. At a minimum, waste to be injected under this paragraph shall be analyzed for EP Toxicity, EP Ignitability, EP Reactivity, and EP corrosivity. Other tests may be required depending on the nature of the waste proposed for injection. Listed wastes under 40 CFR 261.3 will not be accepted regardless of their ability to pass any or all of the above tests.
9. Nothing in the above paragraphs is intended to preclude the operator from doing controlled acidizing jobs as may be required on these wells from time to time. The permittee need not obtain advance approval to conduct an acidizing job under this paragraph, but shall report these jobs on the first quarterly report following the job.

Analyses of the discharge waste over the past years of operation has been reported as follows:

TABLE 2: REPORTED QUALITY OF EFFLUENT

PARAMETER	QUARTERLY VALUE IN mg/l	
	LOWEST REPORTED	HIGHEST REPORTED
ADA*	3	77
Calcium	40	225
Chloride	698	3,188
Carbonate	179	1,864
Chromium	<.1	<.1
Bicarbonate	62	3,994
Potassium	9	117
Magnesium	20	149
Sodium	725	4,265
Sulfate	71	3,764
Total Diss. Solids	2,660	13,982
Vanadium	3	110

* ADA is Anthaquinone -2,7 Disulphonic Acid

The above table is for information only and does not set any limitation on the quality of the effluent to be injected. Table 3, found in Section G of this permit sets limitations on the quality of the effluent.

The maximum discharge pressure as measured at the surface shall not exceed 3,300 psig in either well.

The permittee shall apply a pressure of approximately 400 psig to the annulus between the tubing and the long string casing of both wells and hold this pressure continuously during the life of this permit. The annulus shall be equipped with high/low pressure alarms that will automatically signal the operator if the annulus pressure increases above a set point or decreases below a set point. The set points shall be approved initially by the Water Quality Division may be changed under this permit with prior Water Quality Division approval of the change.

The maximum discharge volume shall not exceed 240 gallons per minute (5.714 BPM) to either well singly or a total of 480 gallons per minute (11.28 BPM) in both wells together. The maximum discharge in any single day shall not exceed 345,600 gallons or 8,228 barrels in either well singly or 691,200 gallons or 16,957 barrels in both wells together.

If at any time, the maximum injection pressure or volume is exceeded or any of the parameters listed on Table 3, below are exceeded, the permittee shall report this occurrence in conformity to section I6 of this permit. Exceedance of any of these controls is a violation of the permit.

D. Proper Operation and Maintenance

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

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

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

E. Entry and Inspection

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

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

F. Environmental Monitoring Program for Groundwaters of the State

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

- e. The analytical techniques or methods used; and
- f. The results of such analyses.

4. The prescribed program for this permitted activity is as follows:

There are no groundwater monitoring requirements included at this time, because there are no known aquifers within the Area of Review. If future data indicates that there are usable aquifers within the Area of Review as described in Table 1, a monitoring program may be required at that time without amending this permit.

G. Requirements for Monitoring the Discharge

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

A continuous monitoring device is required to record the injection pressure and annulus pressure in each well. A continuous recording meter is required to record the discharge volume to each well.

The permittee shall analyze the effluent on a quarterly basis for all of the parameters listed in Table 3 of this permit for a minimum of 1 year. At the conclusion of that 1 year period, the permittee may discontinue the analyses of any parameter that has consistently stayed at levels no higher than 1/10 of the values listed on Table 3. From that point on, the effluent parameter list shall remain constant unless approval is obtained from the Water Quality Division for a change in that list. This parameter list supercedes entirely lists required on previous permits.

The following table shows absolute permit limitations on the quality of the effluent. Exceedance of any of the following values is a violation of this permit:

TABLE 3: PERMIT LIMITATIONS ON EFFLUENT QUALITY

PARAMETER	HIGHEST ALLOWABLE QUARTERLY AVERAGE CONCENTRATION (mg/l)
ADA*	100.0
Arsenic	5.0
Barium	100.0
Cadmium	1.0
Total Chromium	5.0
Lead	.4
Mercury	.2
Silver	5.0
Vanadium	125.0
pH	Greater than 2.0 s.u.
pH	Less than 11.0 s.u.

* ADA is Anthraquinone -2,7 Disulphonic Acid

The Water Quality Division may require quarterly sampling for Benzene, Ethylbenzene, Toluene, and Xylene during the life of this permit if this work appears in its judgement to be necessary.

The permittee has been analyzing samples on a weekly basis and averaging these results on a quarterly analytical report. The permittee is free to continue in this sampling protocol or the permittee may elect to sample on a weekly basis and composite the samples to be analyzed quarterly. Most of the parameters listed on Table 3 above are all metals with holding times of up to 6 months for samples preserved with nitric acid.

The permittee shall propose the exact methods to be used to analyze these parameters by EPA method number or other equivalent specification number. The Water Quality Division shall review and approve these methods for analyses prior to monitoring of the discharge. Once approved, methods shall not be changed without prior approval by the Water Quality Division.

REPORTING

A quarterly report is required to be submitted within 30 days of the end of each calendar quarter. This report shall contain for each well:

1. The maximum and minimum daily injection pressure (not an average pressure but an instantaneous pressure) and the maximum and minimum daily injection volume for each month within the quarter, and the dates that these maximum and minimums were reached. The accumulated total volume injected for each month and the accumulated total volume injected to date.
2. The maximum and minimum daily annulus pressure for each month of the quarter.
3. A complete analyses for any industrial waste disposed of that originated at any other location whether owned by Chevron or not. All EPA waste characterization analyses that are detailed in Section C of this permit are required to be included in the quarterly report.
4. Any non-compliance, MIT, or significant event during the quarter. If quarterly reports show a record of being submitted late, the Administrator may substitute more stringent monthly reporting requirements.
5. The average injection pressure for each month calculated by averaging the average pressures for each day.

The annual report required under section I-11 of this permit shall consist of:

1. The fourth quarterly report along with a summary of the year's operation. The annual report shall include totals on all volumes injected for the year.
2. The parameters listed under section F and G of this permit for monitoring shall be graphed over time. These graphs shall cover at least the previous 5 years of operation.

3. The injection pressure and volume shall be graphed over time. These graphs shall show the monthly average and maximum pressures and total monthly volumes and shall extend back to the previous 5 years of operation.

H. Test Procedures

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

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

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

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
 - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and
 - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
 - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

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

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

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

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

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

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

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

K. Mechanical Integrity

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

At a minimum of once every five (5) years and more frequently if required by the Water Quality Division, the permittee shall demonstrate the continued sound and unimpaired condition of all components of the injection well. An injection well has mechanical integrity if there is no significant leak in the casing, tubing and packer; and if there is no significant movement of injected fluids through vertical channels adjacent to the well bore.

The absence of leaks will be determined by holding 2,000 psig on the annulus for 15 minutes.

At a minimum of once every five (5) years and more frequently if required by the Water Quality Division, the permittee shall prove the absence of fluid movement through vertical channels. The absence of fluid movement through vertical channels shall be determined by running a radioactive tracer log and a temperature log. These two logs together are often referred to as an injection profile. The permittee shall use these methods to determine absence of fluid movement or an alternative method with prior approval of the Water Quality Division.

The latest mechanical integrity tests on these wells were run in 1987.

Well Number WDW 1-5F was completed to the following specifications:

- PBTD: 9,652 feet
- CASING: 13-3/8" K-55 SA conductor pipe to 80 feet
9-5/8" K-55 36# LT&C SA surface pipe to 2,495 feet
7" SS95 26# LT&C SA long string casing to 9,652 feet
- TUBING: 2-7/8" 7.9# PHG with an Otis 'WB' Packer set at 8,400 feet for 7" casing with Seal Bore Extension and Coupling, and a second packer set at 9,292 feet.

CEMENTING: Seven inch casing is cemented from the surface to TD.
A Cement Bond Log was submitted with the application covering the interval from 8,200 feet to 9,546 feet.

Well Number WDW 1-36P was completed to the following specifications:

TD: 10,306 feet

PBTD: 10,219 feet

CASING: 30" conductor pipe to 90 feet
20" K-55 91.5# 22 joints, 20" K-55 106# 14 joints,
20" K-55 133 # 2 joints surface pipe to 1,506 feet
13-5/8" 88.2# SS-95 177 joints, long string to 7,360 feet
7" C-95 Modified 32# 152 joints, 7" SS-95 29# 94
joints, 7" SS-95 32# 2 joints long string casing to 10,306 feet

TUBING: 2-7/8" 7.9# PH-6 with an Otis 'WB' packer set at 8,910 feet for 7"

CEMENTING: Seven inch casing is cemented with 1800 sacks 50/50 poxmix with 3% D-79, 1/4 #/sack D-29 followed by 3000 sacks Class G cement with 1% D-65, .3% D-13. No return to the surface.
A Cement Bond Log was submitted with the application covering the interval from 7,160 feet to 10,168 feet.
Log shows the top of cement at 9,000 feet.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the administrator.

Resetting of any packer more than 100 feet from its present location before a workover is a violation of this permit unless prior approval has been obtained from the Water Quality Division.

L. Abandonment

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

At a minimum, each of these wells shall be cemented by setting a cement retainer above the top perforation and injecting a minimum of 500 sacks of cement. After the tubing has been displaced with water and removed, a minimum of 200 sacks of cement shall be spotted on top of the cement retainer. The casing shall be filled with natural bentonite mud meeting the requirements of 35-11-404 of the Environmental Quality Act and Land Quality Division Rules and Regulations, Chapter 15.

The surface casing shall be filled with cement and a standard dry hole marker shall be erected over the abandoned well. The surface casing shall be blind flanged and the dry hole marker welded to this flange.

In no case shall the abandonment procedure used be less than that required by the Wyoming Oil and Gas Conservation Commission for abandoned gas wells in the Carter Creek Field at the time of abandonment.

M. Duties of the Permittee

It is a duty of the permittee to:

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

N. Financial Responsibility

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

Chevron USA Inc. has submitted the required proof of financial responsibility in the form of three years annual report for the corporation showing that it has sufficient resources to plug and abandon this well.

O. Special Measures the Director Finds Necessary:

At a minimum of once a year or more frequently if required by the Administrator, the permittee shall shut this well in for a long enough period of time to observe a valid pressure fall off curve. This test shall be considered complete when the injection pressure recorder shows that the pressure curve has become asymptotic to a horizontal line or has reached atmospheric pressure whichever occurs first. It is not the intent of this section to require a down hole pressure measurement device, but the Administrator may require this type of device if there is any abnormal pressure/volume relationship recorded during the year.

No industrial waste from any other site shall be stored for more than 30 days at the Carter Creek Plant pending acceptance for injection into this system.

The permittee shall erect a sign in the building housing the injection plant and inside each well house notifying employees of certain key permit requirements. This sign shall have the following wording:

"THESE INJECTION WELLS ARE COVERED BY AN UNDERGROUND INJECTION CONTROL PERMIT ISSUED BY THE WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY, WATER QUALITY DIVISION. INJECTION PRESSURE MAY NOT EXCEED 3,300 PSIG; VOLUME MAY NOT EXCEED 240 GALLONS PER MINUTE (5.71 BPM); THE ANNULUS PRESSURE MAY NOT EXCEED 1,000 PSI AND MUST NOT BE LOWER THAN 100 PSI. NOTIFY THE PLANT MANAGER IMMEDIATELY IF ANY OF THESE CONDITIONS EXIST. THESE ARE REPORTABLE EVENTS AND SHOULD ALSO BE REPORTED TO DEQ/WQD AT 777-7095."

The wording on this sign shall be a minimum of 1" high and the sign itself shall be constructed in a professional manner on steel or fiberglass sheet. This sign shall be maintained in good conditions at all times.

Within 90 days of the issuance of this permit, the permittee shall submit its health and safety requirements of the site to the Water Quality Division. After review and acceptance of these plans, the Water Quality Division will agree to abide by these plans during all site inspections.

P. Special Permit Conditions:

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

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

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

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

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

For a municipality, state, federal or other public agency -- by either a principal executive officer or ranking elected official; or

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

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

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

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

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

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

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

S. Permit Transfer

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

T. Responsibilities

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

U. Property Rights

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

V. Severability

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

/jt

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 89-450

WOOTEN SMALL WASTEWATER FACILITY
(Name of Facility)

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

Tim Wooten

P. O. Box 324

Hulett, Wyoming 82720

to construct, install or modify a small wastewater facility according to the procedures and conditions of the application No. 89-450. The facility is located in Section 29, T.55N., R.64W., 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, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

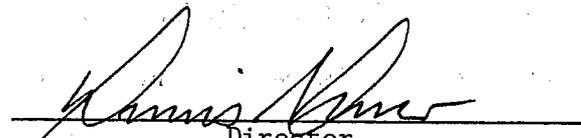
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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,

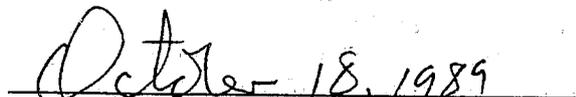
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

BJ:jj