

PERMIT TO CONSTRUCT

New

Permit No. 92-301R

Renewal

Modified

Beartooth Estates, Third Filing Sewer and Water
(Name of Facility)

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

Beartooth Estates Partnership

c/o Wesley J. Metzler

506 South Edmonds

Powell, WY 82435

to construct a sewer and water extensions to serve eleven lots according to the procedures and conditions of the application No. 92-301R. The facility is located in Lot 75-J, T55N, R99W resurvey in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

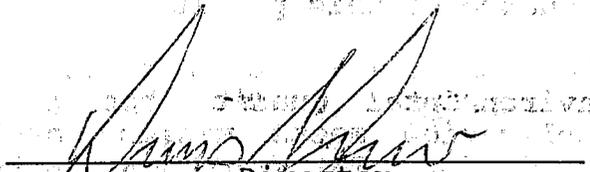
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10/26/92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-302
SPECIAL CONDITIONS

Rolling Hills Waterline Loop - Phase I

This permit hereby authorizes the applicant:

Town of Rolling Hills
Coal Company Route, Box U-12
Glenrock, Wy. 82637

to construct, install or modify a water distribution system according to the procedures and conditions of the application number 92-302. The facility is located in Sections 15, 22, 27, and 28 of T34N R75W in the county of Converse, 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.

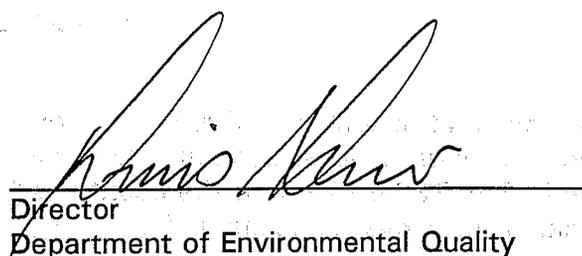
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

1-4-93
Date of Issuance

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

SPECIAL CONDITIONS

1 of 1. The 3-way pipe intersections located at:

- a) Rimrock and Roundup, and
- b) South Bobcat and Roundup

both have valves on all three legs, which exceeds minimum state requirements. No additional isolation capability is achieved by having a valve on each leg. Therefore, in order to reduce costs, this special condition allows (but does not require) the elimination of any one of the three valves at each location specified above without a permit modification. However, if the valves are deleted from the plans, as-built drawings must be submitted to DEQ Water Quality Division within 60 days of completion of the project.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rolling Hills Waterline Loop - Phase I

ENGINEER: R.C.H. & Associates
P.O. Box 1659
Glenrock, Wy. 82637

APPLICANT: Town of Rolling Hills
Coal Company Route, Box U-12
Glenrock, Wy. 82637

WATER QUALITY REFERENCE NUMBER: 92-302

APPROVING ENGINEER: Ronald L. Ewald, P.E.

DATE OF REVIEW: October 30, 1992

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. Application: A new application must be submitted which is signed by a town official, and not signed by a representative of the engineering firm. Also, the actual name of the lead engineer should be included on the application; not just the firm name twice.
2. Engineering Design Report: An engineering design report is required to be submitted with all applications of this nature. The purpose of the report is to describe and provide technical justification for all aspects of the proposed construction and should address existing conditions, problems (if any), proposed actions, and the reasoning used to arrive at the proposed actions. For this project in particular the following should be discussed:
 - a) The configuration of the existing water lines and what Phase I is attempting to accomplish. Also, what will the purpose of future construction be and how does this relate to Phase I? What will the ultimate configuration of the water distribution system be - loops, deadends, etc.?
 - b) Can the water source handle the additional loading and maintain minimum operational and fire pressures, and provide fire flow to hydrants?
 - c) Are the lots in this area served by a central sewer collection system or are they on individual septic systems? If served by a central collection system the location of sewer lines need to be shown on the plans.



Review - Application No. 92-302

October 30, 1992

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- d) Any other pertinent information about the water distribution system as outlined in Chapter XII, Section 6 of the Wyoming DEQ Water Quality Rules and Regulations.

3. Valves:

- a) The plans as submitted indicate valve spacings of nearly 2000 feet, much more than the 800 foot required maximum spacing.
- b) At several nodes valves are indicated on all three legs. This seems redundant and excessive.

COMMENT - Variances from specific regulations:

If you desire to deviate from the regulations you must request a variance in writing. This request must include:

- a) A description of exactly what you are requesting a variance from,
- b) A justification of the need for the variance not based merely on convenience or cost, and
- c) A detailed description and explanation of your proposed alternative solution and how it meets the purpose and intent of the regulations.

The Water Quality Division will then review the request for a variance based on the information submitted and make a decision as to its acceptability.

Enclosure: Blank application form

RE/jn - 24048.ltr

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Maxfield Farms - Lingle West Feedlot

ENGINEER: Larry McCaslin
M.C. Schaff & Associates
Route 2, Box 118
Scottsbluff, Nebraska 69361

APPLICANT: Maxfield Farms, Inc.
c/o Lester Maxfield
Box C
Torrington, Wyoming 82240

WATER QUALITY REFERENCE NUMBER: 92-303

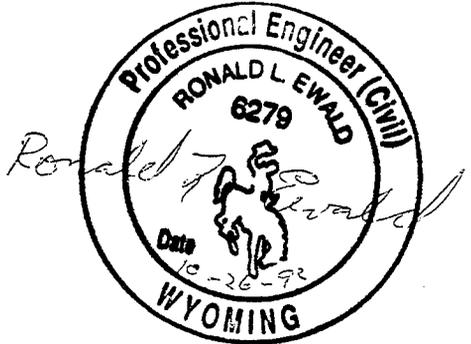
APPROVING ENGINEER: Ronald L. Ewald, P.E.

DATE OF REVIEW: October 23, 1992

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, and INADEQUACIES:

1. The retention pond should be designed with a spillway to pass the flows in excess of the design precipitation event.
2. Is the design of the retention pond based on a storm of 4.3 inches as stated on page 5, or on a storm of 4.0 inches as indicated on page 7 of the O & M Manual?
3. Groundwater Protection - While this design will probably result in a pond liner that meets the requirements of Chapter XI, Section 29(e)(i), this facility is also being reviewed under the provisions of Chapter VIII Section 4(d)(6) and Chapter III Section 15(c) which provide that when discharges of any pollution or wastes occurs or threatens to enter the waters of the state, a monitoring program shall be required. Therefore, the application for a "Permit To Construct" should include the following:
 - a. Information on all wells and planned wells in the vicinity must be provided. This information should include location, usage, water levels, and other technical aspects of the wells, including neighbors' wells.



- b. Background information on the quality of the groundwater in the area, including concentrations of constituents, will be required before the feedlot begins operation. This background information is required to determine the Chapter VIII classification of use.
 - c. Depths to the groundwater surface, directions of flow (both natural and induced), and other hydrogeologic information for the project area.
 - d. An analysis of the groundwater system to determine the time of travel to the nearest groundwater users, or to the river itself, in the event of discharge to groundwater due to manure pack failure, pond leakage, or other problem.
 - e. Address the relationship of production wells at the facility as they pertain to possible exfiltration from the pens or retention pond and how this may effect or influence the proposed monitoring system.
 - f. Detailed information on the soils in the project area. Soil borings may be necessary.
 - g. An ongoing groundwater monitoring program to verify compliance with groundwater pollution prevention requirements must be devised and submitted for review. This program should include the number and location of monitoring points, frequency of sampling, constituents to be sampled, action levels and subsequent actions to be taken if action levels are exceeded, as well as all other pertinent monitoring program information.
 - h. Monitoring wells shall be constructed in accordance with the standards specified in Chapter XI, Part G of the Water Quality Rules and Regulations.
 - i. All details of the monitoring program should be included in a separate section of the O & M Manual.
4. Operation & Maintenance Manual: The following statements, descriptions, changes, and procedures should be incorporated into the O & M Manual:
- a. The third basic requirement for runoff control is to protect the quality of groundwater class of use as established in Chapter VIII.

- b. The description of the treatment system and flow pattern should include provisions for the prevention of infiltration from the pen areas by maintaining the manure pack.
 - c. Specific O & M procedures to ensure that the manure pack is not damaged during cleaning operations should be described in the O & M Manual.
 - d. Specific O & M procedures for cleaning the bottom of the pond should be described, and also repair procedures should damage occur.
 - e. More detail should be provided in the O & M Manual on exactly how the entire bottom of the retention pond will be kept moist to prevent cracking and other damage assuming that the pond bottom will have some irregularities.
 - f. The "suggestion" is made on page 10 that the movement of nitrates through the soil be checked yearly. This should be worded as an O & M requirement (rather than as a suggestion) and the results reported to DEQ/WQD.
 - g. Throughout the pages of the original O & M Manual words such as "should be", "we recommend", or "is suggested" are found. If it is the intent to perform these tasks they should be identified as specific O & M procedures which will be done. Any DEQ/WQD permitting will be partially based upon specific operation and maintenance procedures designed to provide protection of both ground and surface waters.
5. Eventual Permit Conditions: In addition to meeting the requirements and conditions cited above, DEQ/WQD anticipates that the following conditions will ultimately be made a part of the permit:
- a. **Monitoring, Reporting, Action Levels, and Responses:**
 - (1) Monitoring frequencies should be proposed as part of the monitoring program in the "Permit To Construct" application. Monitoring frequencies shall be established as part of the final permit.
 - (2) Any time a well tests over 10 ppm of ammonia or nitrates as "N", the well shall be immediately retested and tested monthly thereafter until the level returns to below 10 ppm.

- (3) Any time the nitrogen level in a well violates the maximum contaminant level as established by the Safe Drinking Water Act (currently 10 ppm for N) for 3 months out of any 12 consecutive months for causes attributed to livestock feeding operations, corrective action must be initiated. Any time this situation occurs, an immediate written report must be sent to the DEQ/WQD. Otherwise reporting shall be as follows.
- (4) Reporting shall be done on an annual basis. The report shall consist of tabular results and a 1 inch = 500 feet map showing water table contours and concentrations of ammonia and nitrates. The base map shall show principal improvements and surface contours.
- (5) All reports shall be sent to:

S.E. District Engineering Supervisor
DEQ/ Water Quality Division
Herschler Bldg. 4 West
Cheyenne, Wyoming 82002

- b. Land application of the liquids from the retention pond shall be permitted in Section 15 T25N R63W. Land application rates shall be limited in both volume of water applied and total organic and mineral loading. Not more than 36 inches of water, including precipitation, shall be applied annually, measured from November 1 to October 31.
- c. The nitrate levels in the soil shall be measured annually after crops are harvested. The total of nitrogen available in the soil after harvest plus nitrogen applied during the following growing year shall not exceed best agricultural practices for the crops being grown. The nitrogen applied includes commercial fertilizers, agricultural wastes spread mechanically, and land application of liquids through irrigation. If directly edible crops such as dry beans are to be grown, compliance with Chapter XI, Section 55(c)(i) criteria must be verified by testing each batch of water pumped from the retention pond to determine the irrigation water quality. Records shall be maintained and be available for inspections by DEQ/WQD for a period of five years of the amount of effluent land applied and the results of the soil and water tests.

Review of Plans & Specs - 92-303

October 23, 1992

Page 5

- d. The pond liner shall be constructed as recommend by Panhandle Drilling in their letter of September 25, 1992. The soil bentonite mixture will be constructed as proposed by Panhandle Drilling. Compaction control of densities, moisture content, and mixture ratios shall be provided by a Wyoming registered engineer. At least two (2) density tests per acre shall be taken for each 6 inch lift of liner material placed. A report documenting the liner construction and the results of the compaction testing shall be submitted to DEQ/WQD for review and approval before operations begin.

NOTE - Other conditions may be required after reviewing any new submittals.

/nc 23969.LTR

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Maxfield Farms- Lingle West Feedlot

ENGINEER: Larry McCaslin
M.C. Schaff & Associates
Route 2, Box 118
Scottsbluff, Nebraska 69361

APPLICANT: Maxfield Farms Inc.
c/o Lester Maxfield
Box C
Torrington, Wyoming 82240

WATER QUALITY REFERENCE NUMBER: 92-303R

REVIEWING GEOLOGIST: Kevin Frederick, P.G.K.F.

REVIEWING ENGINEER: Ron L. Ewald, P.E. RLE

APPROVING ENGINEER: Larry Robinson P.E. LR

DATE OF REVIEW: March 9, 1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

Engineering Design Report Addendum.

1. Page 3, 2nd. paragraph. Three monitoring wells were installed. A Permit to Construct and DEQ/WQD concurrence with the well locations should have been obtained prior to installation.
2. Page 3, Section F. Indicates the direction of groundwater flow is from southwest to northeast. This finding is based upon the elevation of groundwater from one monitoring event (December 1993) and may not be representative of groundwater flow direction during other seasons. As the report indicates, groundwater elevations may be significantly affected by the flow in the North Platte River, and irrigation activities. The report, however, fails to address how seasonal recharge to groundwater through leakage of irrigation canals (e.g. Grattan Ditch and Ft.Laramie Canal) during periods of their operation,



and from the North Platte River during periods of regulated release affect the seasonal direction of groundwater flow. The analysis of groundwater flow should be expanded to illustrate the effects that these seasonal variations in elevation and recharge have upon the direction of flow, and the potential for leakage from the feedlot and retention pond to impact existing wells (identified in Figure 7) during these periods.

3. Page 3, Section G, 1st. paragraph. Indicates there are no wells between the proposed feedlot and the river. Figure 12, however indicates domestic wells 25 and 26 and irrigation well 10 are located at the north end of the feedlot. These wells are owned by Maxfield. Provide information on how these wells were completed and address the potential impact of the feedlot on the domestic wells.
4. Page 3, 2nd paragraph and Figure 11. Unexpectedly high concentrations of aluminum, chromium, iron, vanadium and manganese are indicated. What is the potential source of these constituents? Is there a possibility of laboratory error or of the drilling operation contaminating the wells? Provide an explanation of possible sources for these constituents and a description of drilling procedures. An additional round of sampling of the monitoring wells and possibly existing wells is required in order to adequately classify the background groundwater quality. Develop a plan which provides for additional monitoring for approval by this Department. Monitoring wells must be permitted prior to their installation.
5. Page 3, Section F, 1st paragraph. The calculated average velocity of groundwater does not appear to be appropriate. Using the accepted calculation for velocity:

$$v = KI/7.5(n)$$

Where:

- v = groundwater flow velocity (ft/day)
- K = hydraulic conductivity (1500 - 8700 gpd/ft²)
- I = hydraulic gradient (.0025)
- n = porosity (assumed 40% for sand/gravel)
- 7.5 = conversion factor

Applying an estimated porosity of 0.40 in the above formula results in a velocity of groundwater flow at between 1.25 and 7.25 ft/day. Using these figures, provide corrected calculations of travel times referred to in the report, or justification which supports the values reported.

6. Page 4, 4th paragraph. Provide additional information and details on how well No. 10 would be operated to remediate groundwater contamination. Include specific procedures, criteria and schedule for operation of this well in the operation and maintenance (O&M) manual. Address the relationship of the zone of influence to the feedlot pens and retention pond, and how it would "draw contaminants from any leakage of the retention pond or the feedlot". The O&M manual should include a contingency plan to be implemented to capture contamination in the event that the well becomes inoperable.
7. Page 5, Section H, 4th paragraph. Security fencing of the pond is strongly recommended.
8. Page 6, Section I. Compaction control and reporting of the liner installation shall be required as outlined in October 23, 1993 review.
9. Figure 7. Monitoring wells 27 and 28 require a permit before they are installed.
10. Figure 11. The sample detection limit for boron is higher than the groundwater standard of 0.75 mg/l. Lab detection limits should not exceed this standard.
11. Figure 12. Two wells are labeled as MW-3. Correct this figure.
12. Figure 20. The well casing is terminated at ground level. For all wells installed, provide protection from runoff or standing water which could contaminate the monitor well.

Operations and Maintenance Manual

1. Page 5, No. 1. If the pond is designed and permitted for a 100 year 24 hour storm event, the NPDES permit will require that there be no discharge unless this storm is exceeded. Refer to Part IIA3 of the NPDES permit.
2. Page 9, 2nd paragraph. Indicates retention pond design volume of 8.0 acre feet. How was this determined? Our calculations indicate 9.3 acre feet required to retain 4.3" of rain over 26 acres (19.5 acres of feedlot and 6.5 acres of pond).
3. Page 10, 2nd paragraph. It is indicated that odor problems can be controlled by keeping the feedlots dry. However, keeping the feedlots dry can contribute to problems associated

with dust. Odor and dust problems will be addressed by the Air Quality Division. Specific procedures developed in conjunction with the Air Quality Division should be included in the operation and maintenance manual.

4. Page 10, 4th paragraph. The permit will contain a condition requiring submittal of a closure plan and abandonment in accordance with this paragraph.
5. Page 11, 2nd paragraph. Indicates pond will be filled to within 1.9 feet of top of dike. This is also indicated on Sheet 3, Detail Plans. There is a mistake in the elevations indicated for depth, freeboard and the total depth of the pond. The retention pond should be designed with a spillway to pass the flows in excess of the design precipitation event. The retention pond should provide for a splash block or other erosion protection below the pond inlet pipes.
6. Page 11, 4th and 5th paragraphs. It is indicated that stormwater in the ponds should be applied to land as soon as possible. The operation and maintenance manual should include specific procedures to be followed by the operator. The procedures should provide direction to the operator as to how soon after a storm wastewater can be applied to the cropped areas and not cause a problem due to surface runoff.
7. Page 12, 1st and second paragraphs. Using the application rates for six hours and annual applications and the total nitrogen loading calculated in item No. 4 on page 15 results in an annual application of 576 lbs./acre which greatly exceeds the normal application of 250 lbs./acre shown in item No. 1 on page 12. On page 13 it is indicated that each batch of wastewater must be tested to verify nitrogen loading. The operation and maintenance manual should provide clear, detailed and simple procedures suitable for the field operator. The procedures should address sample collection, laboratory analysis, analysis turn around time and determination of application rates.
8. Page 15, item 4. Why are 2.9 acres of land used in this calculation? It is indicated on page 14 that 136 acres can be irrigated.
9. Page 15. The Department will delay approval of the groundwater monitoring program (frequency, parameters, etc.) until the additional information on groundwater flow and quality requested in this review has been provided.

10. Page 17. The Department may require corrective action measures at any time groundwater quality standards are exceeded unless the applicant can document that any groundwater contamination resulting from its operation can be returned to an equivalent or better quality than that which existed prior to operation of the facility. Until the applicant provides such information, any exceedance of groundwater standards constitutes a violation of the Environmental Quality Act and WQD rules and regulations.

11. Page 21. We concur with the importance of accurate and detailed operation and maintenance records. The operating logs should be expanded to include a number of reporting requirements identified in the operation and maintenance manual. Items to be included in the logs should include but not be limited to the following:
 - a. spill or discharge reports,
 - b. estimated nitrogen loading from fertilizer application,
 - c. estimated nitrogen loading from manure or solids,
 - d. nitrogen levels in the soil in crop areas,
 - e. nitrogen levels in feedlot soil cores,
 - f. water quality analysis of water in retention pond.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Maxfield Farms - Lingle West Feedlot

ENGINEER: Larry McCaslin
M.C. Schaff & Associates
Route 2, Box 118
Scottsbluff, Nebraska 69361

APPLICANT: Maxfield Farms, Inc.
c/o Lester Maxfield
Box C
Torrington, Wyoming 82240

WATER QUALITY REFERENCE NUMBER: 92-303RRR

REVIEWER: Ronald L. Ewald *RLE*

GROUNDWATER REVIEWER: Jake Strohman *J*

APPROVING ENGINEER: Larry Robinson, P.E. *LR*

DATE OF REVIEW: July 28, 1993

ACTION: Not Authorized for Construction

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. Design and Operation of Retention Pond to Provide Detention of the 25 year-24 hour Storm Event Runoff, pages 26 and 27 of the O&M Manual - It is proposed here that during periods of high ground water the retention pond be intentionally filled to as much as 2 feet deep to prevent uplift and damage to the pond liner. Since the pond design is only 5 feet deep, and after allowing for the required freeboard of at least 1.5 feet, only 1.5 feet or less of useable storage volume remains. The actual allowable design storage capacity is only that volume of water between the design high water level and the 2 foot deep level. This volume of water must be greater than or equal to the runoff from the 25 year-24 hour storm event plus 10% because a separate sedimentation pond is not provided. Also, the spillway must be properly located so as to accomplish this.

Currently the plans show the spillway elevation at 69.1 feet, only 2.1 feet above the bottom of the pond. The pond must be designed and operated to provide for the required 25 year-24 hour + 10% runoff detention for the worst case conditions, ie - the pond is already 2 feet full because of high groundwater conditions when the design storm occurs. Additionally, if the pond is to be operated this way a depth monitoring device must be installed in the pond. Please modify the design details and operational procedures to clearly demonstrate that this will be accomplished.

2. Monitoring Well Locations and Screen Interval Depths -

- a. Monitoring wells MW1, 2, and 3 are acceptable as already located and installed.
- b. MW4 - The proposed location of MW4 needs to be moved a further distance down gradient to allow a mixing zone so as not to measure only mounded water from the pond which is known to be above allowable standards and because the liner is designed to allow exfiltration. An analysis should be done of the extent of the mounding effect to determine how far down gradient to move the location of this well.

Additionally, because this well will end up in active agricultural land, the upper end of the screened interval for this well should be 5 feet above the average groundwater elevation.

- c. The proposed locations for monitoring wells MW5, 6, and 7 are acceptable. These wells should be designed with a screened interval which extends to within 2 feet of the ground surface.
- d. A "Permit To Construct" application for monitoring wells MW4, 5, 6, and 7 needs to be submitted to this office for review and approval before any of these wells are started. This application should include all final locations and all design and construction details for each well.

Also, as-built construction plans for monitoring wells MW1, 2, and 3 need to be submitted.

3. Nitrate and Ammonia Sampling and Reporting - All references to ammonia as "N" reporting levels needs to be corrected to "over 0.5 ppm of ammonia as N" (pages 23 and 24 of the O&M manual), instead of saying "over 10 ppm of ammonia as N". Nitrate as N is correct at over 10 ppm.

EVENTUAL PERMIT CONDITIONS

1. Reporting - All written reports, whether routine or unscheduled "hit" reports, should be sent to:

SE District Engineering Supervisor
DEQ / Water Quality Division
Herschler Building, 4 West
Cheyenne, Wyoming 82002

Additionally, each report shall have a cover sheet or cover letter which clearly indicates the purpose of the report and which refers to the Permit # 92-303.

Routine Reports:

- a. First Year Sampling and Reporting - The sampling parameters and frequencies for the first year shall be as indicated in the O&M manual in the section titled "Monitoring Well Sampling Procedure". Sampling shall be monthly or quarterly, depending on the parameter; and the results shall be reported quarterly.
- b. Second Year and Thereafter - The sampling parameters and frequencies for the out years shall be as indicated in the O&M manual. Sampling shall be quarterly or yearly, depending on the parameter; and the results shall be reported yearly.

Reporting "Hits" and Required Follow-up Responses:

- c. Ammonia and Nitrate "Hits" - The reporting and action levels for ammonia and nitrate are as follows:

Ammonia as "N"	-	above 0.5 ppm
Nitrate as "N"	-	above 10.0 ppm

If ammonia or nitrate is detected above these levels, the reporting and follow-up procedures as detailed in items - a, b, c, d, and e on pages 24 and 25 of the O&M manual shall be followed. The first requirement is an immediate retest and report to the Water Quality Division within 7 days.

- d. Other Parameter 'Hits' - Any other parameters which are detected outside of or above the allowable limits for that parameter as indicated for a Class I aquifer according to Chapter VIII of the Wyoming Water Quality Rules and Regulations shall be immediately resampled and reported to the Water Quality Division within 7 days. The WQD will then review this information and advise the operator as to what needs to be done next.

2. Groundwater Standards Exceedance - The Department may require corrective action measures at any time groundwater quality standards are exceeded unless the applicant can demonstrate that any groundwater contamination resulting from the operation of this facility would not result in an exceedance of the standards at any place or places of withdrawal or natural flow to the surface, and that the groundwater can be returned to an equivalent or better quality than that which existed prior to the operation of the facility. If this can be demonstrated the applicant will be allowed to operate in accordance with Chapter VIII, Section 4(d)(vi), which states in part that "A discharge which results in concentrations in excess of the standards shall be permitted if post discharge water quality can be returned to water quality standards or better quality;". Until the applicant provides such information and documentation, any exceedance of groundwater standards constitutes a violation of the Environmental Quality Act and the Water Quality Rules and Regulations.

3. Additional Monitoring Wells May Be Required Later - If the early monitoring of these initial 7 monitoring wells shows that:
 - a. these locations are insufficient to properly determine the groundwater gradients or other important factors, or
 - b. that the wells are not properly located to accomplish the goals and purposes of this monitoring program,then, additional monitoring wells may be required by the WQD to address these potential inadequacies.

4. Land Application of Pond Liquids - Land application of the liquids from the retention pond shall be permitted in Section 15 T25N R63W. Land application rates shall be limited in both volume of water applied and total organic and mineral loading. Not more than 36" of water, including precipitation, shall be applied annually, measured from November 1 to October 31.

5. Nitrogen Application Procedures - The nitrate levels in the soil shall be measured annually after crops are harvested. The total of nitrogen available in the soil after harvest plus nitrogen applied during the following growing year shall not exceed best agricultural practices for the crops being grown. The nitrogen applied includes commercial fertilizers, agricultural wastes spread mechanically, and land application of liquids through irrigation. If directly edible crops such as dry beans are to be grown, compliance with Chapter XI, Section 55(c)(i) criteria must be verified by testing each batch of water pumped from the retention pond to determine the irrigation water quality. Records shall be maintained and be available for inspections by DEQ/WQD for a period of five years of the amount of effluent land applied and the results of the soil and water tests.

Review - Maxfield Farms - 92-303

July 28, 1993

Page 5

6. Retention Pond Liner Construction Verification - A report documenting the pond liner construction and test results shall be submitted to the DEQ Water Quality Division for review and approval before operations begin.

7. Closure Plan - The owner of this feedlot is required to submit a closure plan to the Water Quality Division for review and approval at least 90 days prior to permanent closure and/or abandonment of this facility.

/jn - 33533.ltr

~~Chen~~
AF

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Maxfield Farms - Lingle West Feedlot

ENGINEER: Larry McCaslin
M.C. Schaff & Associates
Route 2, Box 118
Scottsbluff, Nebraska 69361

APPLICANT: Maxfield Farms, Inc.
c/o Lester Maxfield
Box C
Torrington, Wyoming 82240

WATER QUALITY REFERENCE NUMBER: 92-303RR

GROUNDWATER REVIEWER: Jake Strohman

REVIEWING ENGINEER: Ronald L. Ewald *RLE*

APPROVING ENGINEER: Larry Robinson, P.E.

DATE OF REVIEW: June 4, 1993

ACTION: Not Authorized for Construction



COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. Operation of Retention Pond During High Groundwater Conditions, page 26 of O&M Manual - It is proposed here that during periods of high groundwater (April - September) the retention pond be intentionally filled to prevent uplift and damage to the pond liner. However, if the pond is already full and a major rain event occurs there will not be sufficient runoff retention capacity left. High groundwater conditions are most likely to occur in the spring and summer, a time when large precipitation events are also likely to occur. This proposal is not acceptable because it eliminates the usefulness of the pond for its intended purpose - the collection and retention of storm runoff.
2. Analysis of Groundwater Flow, EDR Sections E & F - The WQD's March 9, 1993 review (Item #2) determined that the application had failed to address how seasonal recharge to groundwater through leakage of irrigation canals (e.g. Gratten Ditch and Ft. Laramie Canal) during periods of their operation, and from the North Platte River during periods of regulated flow affect the seasonal direction of groundwater flow. The WQD requested that the analysis of groundwater flow should be expanded to illustrate the effects that these seasonal variations in elevation and

recharge have upon the direction of flow, and the potential for discharge from the feedlot and retention pond to impact existing wells during these periods. The applicant has submitted information that addresses the seasonal fluctuations in elevation; however, he has not adequately determined the effects which the seasonal fluctuations in elevation have on the groundwater gradient and direction of flow. Please address this issue in more detail.

Comment - During the non-irrigation season (September - April) groundwater flow along the North Platte River is generally parallel to and toward the river. Seasonal recharge by leakage from the ditch during the irrigation season (April - September) may likely direct groundwater flow more generally toward the river. During either season, it appears that no private wells exist immediately downgradient of the feedlot.

3. Monitoring Well Locations:

- a. Three monitoring wells are already installed (MW 1, 2, and 3), and two more are proposed (MW 4, and 5). The Engineering Design Report (EDR) indicates that the groundwater flow directions vary from northeast to east to maybe southeast. Taking this into account, the WQD feels that the proposed number and locations of the monitoring wells are not sufficient to detect leaks from many areas of the facility. Additionally, the other intended purpose of the monitoring wells is to be able to isolate problems caused by the pen areas versus the retention pond, and also to isolate effects on groundwater which may be caused by agricultural practices on the surrounding farm land from those potential effects caused exclusively by the facility. Therefore, more monitoring wells need to be added on the east side of the facility. Please submit proposed locations for additional monitoring wells to achieve adequate coverage and detection capability. These locations should be approved and permitted by the WQD before installation begins. Additionally, these wells should be placed into service at the earliest possible date in order to start obtaining seasonal groundwater elevation and direction of flow data as soon as possible.
- b. The applicant has stated (Section F, pg. 5) that the groundwater depth at the feedlot will be 2 feet below the surface due to seasonal fluctuations in the groundwater. As constructed, the 3 existing monitoring wells (MW 1, 2, and 3) may not produce representative water quality samples since the screened interval will not intercept the groundwater surface under these conditions. Had the applicant submitted an application for a "Permit To Construct" these wells, the WQD would have noted this deficiency and required modified construction. Please address how this shortcoming of the existing monitoring wells will be dealt with.
- c. Plans, and an application for a "Permit To Construct", for all new monitoring wells and/or modifications to existing monitoring wells must be submitted to the WQD for review and approval. A "Permit To Construct" must be issued before any installation or modification of any monitoring well begins.

4. Nitrate Remediation and Reporting, O&M Manual pages 23 - 25 - The proposed remediation technique of pumping the irrigation well to capture contaminated groundwater under the feedlot and then discharge it either to the crop field or the river is both premature and not preapprovable from an NPDES standpoint. (See separate letter being sent by John Wagner, NPDES Supervisor, on this subject.) Therefore, the discussion of this remediation method can be eliminated from the O&M Manual. The remediation and reporting section should be revised to incorporate the following:
- a. If, at any time, a monitoring well tests over 10 ppm of ammonia or nitrate as "N", the well shall be immediately retested. Additionally, any other of the project monitoring wells should be sampled again as may be necessary to help determine the extent and cause of the problem.
 - b. Upon completion of the retest analysis, a written report shall be sent to the WQD which includes both the initial and retest results along with any other monitoring well results which are pertinent, a preliminary opinion as to what may be the cause of the "hit", and a description of actions already taken or to be taken. Such actions may include, but not be limited to, carefully checking the retention pond for possible leaks in the liner and repairing if found, immediately cleaning all excess manure pack from the feedlot area and checking for possible sources of contamination and removing it, or any other easily implemented action or investigation.
 - c. After detecting a "hit" and completing item a. above, the problem well, and other wells as necessary, shall be retested at least monthly and the results reported to the WQD until such time as it is determined that the problem has been satisfactorily identified and taken care of, or that additional corrective actions need to be undertaken.
 - d. Perform additional investigations, monitoring, and analysis as necessary to confirm or modify the preliminary opinion as to what the cause of the problem is or was.
 - e. If monthly monitoring indicates continuing groundwater standard violations within a 3 month period, the owner shall submit a plan to determine the extent of the contamination and propose corrective action as necessary to abate the groundwater standard violations.

Otherwise, reporting shall be on an annual basis, and shall be as follows: -----

5. O&M Manual, page 3 - Item 1. should say "temporary storage", not "permanent storage".
6. Retention Pond Liner Testing, EDR Conclusions, page 8 - The sentence stating that a minimum of two (2) tests for water content and density shall be taken during application of each lift should be changed to a minimum of two (2) tests per acre for each lift. Also, a statement should be added to the end of this section which says that, "A report documenting the liner construction and test results shall be submitted to DEQ/WQD for review and approval before operations begin."

7. Closure Plans - The manure pack may present a source of groundwater contamination after the feedlot operation has been discontinued. Provide a plan and schedule to remove the manure pack upon permanent closure of the feedlot.
8. Temporary Discontinued Use - During periods of temporary discontinued use of the facility, all scheduled monitoring and associated reporting shall be continued. Additionally, any other operation and maintenance procedures necessary to keep the facility in proper operating condition shall be continued. Provide a plan which describes in particular the operation and maintenance procedures to be followed during these periods of temporary discontinued use.

/nc 32734.LTR



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

September 28, 1993

CERTIFIED MAIL

Lester Maxfield
Maxfield Farms Inc.
Box C
Torrington, Wyoming 82240

Dear Mr. Maxfield:

Enclosed is permit to construct 92-303 for the Maxfield Farms, Lingle West Feedlot. This permit is being issued in accordance with W.S. 35-11-301(a)(iii) and Chapters III, VIII and XI, Wyoming Water Quality Rules and Regulations. This permit authorizes the construction of the facility in accordance with the information presented in the application package, supporting documents and the conditions contained in the permit. Chapters I and II, Rules of Practice and Procedure provide for contested hearings before the Environmental Quality Council (EQC) in the event any person protests a permit issued by the Department. As you know, several persons or groups have indicated their intent to protest the issuance of the construction permit.

Maxfield Farms Inc. has also applied for an NPDES permit for discharge from the facility authorized by Permit 92-303. Section 14, Chapter II, Wyoming Water Quality Rules and Regulations states that the Administrator shall provide an opportunity for the applicant or any interested party to request a public hearing with respect to any discharge permit application. If the Administrator finds that there is a significant degree of public interest, he shall request that the EQC hold such a hearing in the geographic area of the proposed discharge. Due to a number of local residents, organizations and the Town of Lingle expressing objections or concerns with the issuance of a discharge permit, the Administrator has requested that the EQC hold such a hearing in or near the Town of Lingle. This hearing must be held prior to the issuance of a discharge permit.

Several protestants have objected to the issuance of a discharge permit and indicated that they will request a hearing before the Council. These protestants have also indicated that they intend to object to the issuance of the construction permit when it is issued by DEQ. In order to avoid

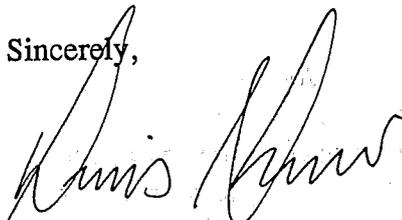
Lester Maxfield
September 28, 1993
Page 2

duplicative hearings on these related issues, the Administrator has requested that the Council hold a single hearing on the matter. The EQC has not yet scheduled a hearing date.

W.S. 35-11-112(b)(ii) provides that the EQC may order that any permit be granted, denied, suspended, revoked or modified. This authority is applicable to both the construction and discharge permits. Although you have received a permit to construct it is also necessary to receive a discharge permit in order to operate the facility. The issuance of the discharge permit is dependant upon the action that will be taken by the EQC. It is also possible that the EQC could revoke or modify the construction permit. If you were to proceed with construction before objections to both permits are addressed by Council, you should do so with a full understanding of the uncertainties involved. You should also be aware that the issuance of the construction permit by this Department does not preclude an adverse decision by the EQC on either the construction or discharge permit.

In order to facilitate the opportunity for public input as required by state regulations and statutes, a copy of this letter will be provided to all parties who have expressed an interest in the project.

Sincerely,



Dennis Hemmer
Director

DH/LR/nc 34524.LTR

Enclosure

cc: Terri Lorenzon, Environmental Quality Council
Mel Eaton, Goshen County Planner
Dorthy Vollmer, Clerk/Treasurer, Town of Lingle
Larry Wilson, Mayor, Town of Lingle
Marvin Billings, Rt. 1, Box 55A, Torrington, WY
Keith Newman, Rt, 1, Box 142, Torrington, WY
Jack Pugsley, Chairman Lingle-Fort Laramie Conservation District
Mary Lou Marcum, Powder River Basin Resource Council

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-303
SPECIAL CONDITIONS

Maxfield Farms - Lingle West Feedlot

This permit hereby authorizes the applicant:

Maxfield Farms, Inc.
c/o Lester Maxfield
Box C
Torrington, Wyoming 82240

to construct, install or modify a cattle feedlot runoff collection/retention/disposal system according to the procedures and conditions of the application number 92-303. The facility is located in NE 1/4 Section 15 T25N R63W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (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 Engineer, 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.

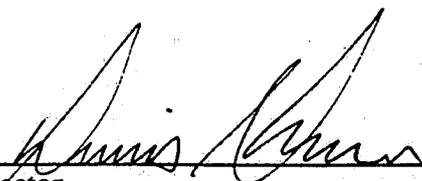
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

9-29-93

Date of Issuance

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

SPECIAL CONDITIONS

GENERAL CONDITIONS

- 1 of 23. 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 23. 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.

PERMIT NO. 92-303

- 3 of 23. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the 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-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

MONITORING WELLS

- 4 of 23. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 92-303. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 5 of 23. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 6 of 23. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells (MW4, MW5, MW6, and MW7)/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice. Additionally, the following shall be done:
- a. The filter sand in MW5, MW6, and MW7 shall be extended upward to 2 to 4 inches above the top of the well screen. Grout will be placed from the top of the filter sand to just above the ground surface where the grout will be formed into a pad sloping away from the well casing to prevent surface water leakage into the wells.
- 7 of 23. After the monitoring wells/piezometers 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. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

- 8 of 23. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 9 of 23. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (telephone 777-7354).
- 10 of 23. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level, except as allowed by condition 6. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval, except as allowed by condition 6;
 - e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal, except as allowed by condition 6. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.

PERMIT NO. 92-303

- g. The annular space above the bentonite seal to within one (1) foot of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout;
 - h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
 - i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer;
 - j. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
- 11 of 23. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 12 of 23. Within thirty (30) days of the completion of the monitoring well installations, a report of the installations shall be submitted to WQD. This report shall contain at a minimum:
- a. A site map showing the physical features, monitoring well locations, and mean sea level elevations of the top of casing/measuring point;
 - b. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
 - c. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - d. Depth to water; and
 - e. A potentiometric surface map showing the direction and gradient of groundwater flow.
- 13 of 23. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

PERMIT NO. 92-303

14 of 23. All monitor wells/piezometers associated with this facility shall be sampled at the frequencies specified and the groundwater analyzed for the parameters indicated in the O&M manual for this facility with the following additional conditions:

- a. Aluminum shall be added to the Table 1 parameters,
- b. The groundwater elevation shall be measured and recorded for each well for every monitoring event,
- c. MW5 shall be sampled for the same parameters and at the same frequency as MW1, MW2, and MW3,
- d. All groundwater samples shall be filtered before they are analyzed,
- e. The results of these analyses shall be submitted to the WQD office in Cheyenne according to the reporting requirements found in condition 16.

15 of 23. Additional Monitoring Wells May Be Required Later - If the early monitoring of these initial 7 monitoring wells shows that:

- a. these locations are insufficient to properly determine the groundwater gradients or other important factors, or
- b. that the wells are not properly located to accomplish the goals and purposes of this monitoring program

then additional monitoring wells may be required by the WQD to address these potential inadequacies.

REPORTING

16 of 23. General - All written reports, whether routine or unscheduled permit exceedance reports, shall be sent to:

SE District Engineering Supervisor
DEQ / Water Quality Division
Herschler Building, 4 West
Cheyenne, Wyoming 82002

Additionally, each report shall have a cover sheet or cover letter which clearly indicates the purpose of the report and which refers to the Permit # 92-303.

Routine Reports:

- a. First Year Sampling and Reporting - The sampling parameters and frequencies for the first year shall be as indicated in the O&M manual in the section titled "Monitoring Well Sampling Procedure". Sampling shall be monthly or

quarterly, depending on the parameter; and the results shall be reported quarterly.

- b. Second Year and Thereafter - The sampling parameters and frequencies for the out years shall be as indicated in the O&M manual, except that monitoring wells MW1, MW2, MW3, and MW5 are only required to be sampled for the O&M Table 1 parameters quarterly for the first year. The sampling results shall be reported yearly thereafter, except as specified in condition 16e below.
- c. A summary of the groundwater elevations and directions of flow of the groundwater shall be included in the yearly reports.
- d. A summary of the nitrogen application amounts and the soil nitrate levels as described in conditions 19 and 20 shall be included in the yearly reports.

Reporting Permit Exceedances and Required Follow-up Responses:

- e. Ammonia and Nitrate Exceedances - The reporting and action levels for ammonia and nitrate are as follows:

Ammonia as "N" - above 0.5 ppm

Nitrate as "N" - above 10.0 ppm

If ammonia or nitrate is detected above these levels, the reporting and follow-up procedures as detailed in items a, b, c, d, and e on pages 24 and 25 of the O&M manual shall be followed. The extent of contamination report and proposed corrective action plan referred to in item e shall be submitted to the WQD within 30 days after the 3 consecutive months of violations have been established. In any case, the first requirement is an immediate retest (within 7 days of receipt of the sample results) and a report to the Water Quality Division within 7 days after receipt of the retest results.

PROJECT SPECIFIC CONDITIONS

- 17 of 23. Groundwater Standards Exceedance - Any exceedance of the Ammonia standard of 0.5 ppm as "N", or the Nitrate standard of 10.0 ppm as "N", or the Class I standard for any other parameter identified in Chapter VIII of the Wyoming Water Quality Rules and Regulations resulting from the operation of this facility is a violation of the Chapter VIII groundwater standards and this permit. In the event of an exceedance, the reporting and follow-up procedures of condition 16e shall be followed.
- 18 of 23. Prevention of Ponding - The confined feedlot area shall be operated and maintained in such a manner to ensure that drainage occurs as designed and to prevent the creation of low spots or depressions which would lead to ponding.
- 19 of 23. Land Application of Pond Liquids - Land application of the liquids from the retention pond shall be permitted in Section 15 T25N R63W. Land application rates shall be

limited in both volume of water applied and total organic and mineral loading. Not more than 36 inches of water, including precipitation, shall be applied annually, measured from November 1 to October 31. A summary of this information shall be included in the annual reports as required by condition 16.

- 20 of 23. Nitrogen Application Procedures - The nitrate levels in the soil shall be measured annually after crops are harvested. The total nitrogen available in the soil after harvest plus nitrogen applied during the following growing year shall not exceed best agricultural practices for the crops being grown. The nitrogen applied includes commercial fertilizers, agricultural wastes spread mechanically, and land application of liquids through irrigation. If directly edible crops such as dry beans are to be grown, compliance with Chapter XI, Section 55(c)(i) criteria must be verified by testing each batch of water pumped from the retention pond to determine the irrigation water quality. Records shall be maintained and be available for inspections by DEQ/WQD for a period of five years of the amount of effluent land applied and the results of the soil and water tests. A summary of this information shall be included in the annual reports as required by condition 16.
- 21 of 23. Retention Pond Liner Construction Verification - A report documenting the pond liner construction and test results shall be submitted to the DEQ Water Quality Division for review and approval before operations begin.
- 22 of 23. Closure Plan - The owner of this feedlot is required to submit a closure plan to the Water Quality Division for review and approval at least 90 days prior to permanent closure and/or abandonment of this facility.

STATEMENT OF BASIS

- 23 of 23. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 92-303
- B. Facility Name: Maxfield Farms - Lingle West Feedlot
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
- A. Chapter XI. Yes - Section 29, Feedlots - Runoff Collection and Retention System
- B. Chapter XII. No
- 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.
NOT Applicable
- B. Briefly state the basis for the deviation.
NOT Applicable

- 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).

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable

- 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.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

NOT Applicable

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

NOT Applicable

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

NOT Applicable

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

YES - This facility is a concentrated cattle feedlot with pens, alley ways, and a runoff collection and retention pond designed to be able to contain the runoff from a 25 year-24 hour storm as required by NPDES regulations until the runoff can be applied at agronomic rates to nearby crop fields. The design concept is that in the pen areas a manure pack will be developed and maintained such that very little, if any, contaminated water will leach into the ground or groundwater. Additionally, the retention pond will have a clay liner designed to minimize exfiltration of contaminated water out of the bottom of the pond and into the groundwater. Any contamination which does escape from either the pens or the pond should be so minor as to not cause a violation of any groundwater standards. Note - monitoring well MW4 is positioned a short distance downgradient of the retention pond to

allow for a mixing zone. The operators of this facility are required to operate, maintain, and regularly sample a set of monitoring wells and report the results to DEQ/WQD to verify that this facility is indeed functioning as designed and not polluting the groundwater. See monitoring system description in G. below.

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

NOT Applicable

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

NOT Applicable

- G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

YES - A detailed description of the monitoring parameters, sampling frequencies, reporting requirements, and follow-up procedures for standard exceedances are contained in the O&M manual for this facility and the permit conditions. This aquifer is considered to be a Class I aquifer, therefore Class I standards are used as the standards. To summarize:

1. Initially there will be 7 monitoring wells.
2. All wells will be sampled monthly for the first year and quarterly thereafter for the following parameters:

<u>Parameter</u>	<u>Standard</u>
Water Level	—
pH	6.5 - 9.0 s.u.
Ammonia as Nitrogen	0.5 ppm
Nitrate as Nitrogen	10.0 ppm

3. Four of the wells, MW1, MW2, MW3, and MW5, will be sampled quarterly for the first year for the following parameters:

Parameter

Aluminum
Total Dissolved Solids
Calcium
Magnesium
Hardness

Sodium/SAR
Potassium
Chloride
Sulfate
Iron
Alkalinity
Fecal Coliform
TOC
TKN
O-Phosphate-P
BOD
COD
Manganese
Copper
Zinc
Arsenic
Barium
Cadmium
Chromium
Lead
Mercury
Selenium
Silver
Endrin
Lindane
Methoxychlor
Toxaphene
2-4-D
2,4,5-TP

4. A violation is considered to be any exceedance of the Ammonia standard of 0.5 ppm as "N", or the Nitrate standard of 10.0 ppm as "N", or the Class I standard for any other parameter identified in Chapter VIII of the Wyoming Water Quality Rules and Regulations resulting from the operation of this facility. In the event of an exceedance, the reporting and follow-up procedures of permit condition 16e and/or 16f shall be followed.

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.



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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November 2, 1998

CERTIFIED

Lester Maxfield
Maxfield Farms Inc.
Box C
Torrington, Wyoming 82240

RE: Lingle West Feedlot (Permit # 92-303), Groundwater Monitoring Program - Revised Sampling Plan

Dear Mr. Maxfield:

The Wyoming Department of Environmental Quality (DEQ)/Water Quality Division (WQD) has recently reviewed the groundwater monitoring data for the first four and a half years of operation of this facility. It is the policy of the WQD to periodically review the monitoring and sampling requirements of permitted facilities, especially newer facilities, in an effort to establish more efficient and cost effective monitoring programs. The purpose of this review was to determine if some of the original monitoring requirements could now be reduced while still protecting the environment and the quality of the groundwater resource.

The monitoring data was reviewed by the WQD Groundwater Pollution Control (GPC) section. The GPC review found that the nitrate concentrations above 10 mg/l appeared to be caused by up gradient or background conditions, and that the background and down gradient nitrate concentrations appear to vary according to recharge events such as precipitation, river level rising, and spring irrigation. The GPC concluded that, "The sampling doesn't provide evidence of significant impacts caused by the operations at the feedlot." Therefore, based on this review, some changes in the

monitoring plan are in order. For the most part these changes are a reduction in sampling requirements. However, please note the addition of monthly precipitation totals, and TDS to the Table 2 parameter list. TDS is being transferred from the Table 1 parameter list to Table 2 in order to provide continuity of data.

Therefore, in accordance with Chapter 3, Section 13 (a) (ii) of the Water Quality Rules and Regulations which provide that the administrator may, for good cause, modify a permit upon receipt of additional information; the following changes to the monitoring and sampling requirements are specified below.

Conditions 14, 16, and 17 of the permit concerning sampling parameters, frequencies, and reporting requirements are being revised as follows:

14 of 23. All monitoring wells/piezometers associated with this facility shall be sampled at the
Revised frequencies specified herein, and the groundwater analyzed for the parameters
11/2/98 indicated herein, according to the following conditions:

- a. Table 1 parameters - This requirement has been eliminated.
- b. Table 2 parameters shall be:
 - Groundwater elevation
 - pH
 - TDS (Total Dissolved Solids) **ADDED**
 - Ammonia as "N"
 - Nitrate as "N"

Table 2 parameters are not required to be filtered.

- c. The groundwater elevation shall be measured and recorded for every well each time it is sampled.
- d. Yearly Sampling - This requirement has been eliminated.

- e. Quarterly Sampling - MW's 4, 5, 6, 7, 8, and 9 shall be sampled quarterly for all parameters in Table 2. Quarterly sampling events shall occur as specified below:
- 1st Quarter: March
 - 2nd Quarter: June
 - 3rd Quarter: September
 - 4th Quarter: December
- f. Repeat (Monthly) Sampling - This requirement has been eliminated.
- g. The results and analysis of these sampling events shall be submitted to the WQD office in Cheyenne according to the reporting requirements specified in condition 16 below.

REPORTING

16 of 23.
Revised
11/2/98

General - All written reports, whether routine or unscheduled, shall be sent to:

SE District Engineering Supervisor
DEQ / Water Quality Division
Herschler Building, 4 West
Cheyenne, Wyoming 82002

Additionally, each report shall have a cover sheet or cover letter which clearly indicates the purpose of the report and which refers to the Permit # 92-303.

- A. Routine Yearly Reports - shall be for the calendar period of January 1 to December 31 and shall be submitted to the WQD before February 28 of the following year. These reports shall contain:
- a. All of the groundwater monitoring data from the required wells for all of the sampling events, whether yearly, quarterly or repeat events.
 - b. Historical graphical presentations of the monitoring data shall also be included in the annual report.
 - c. A summary of the groundwater elevations and flow directions shall be included in the annual report.

- d. A summary of the nitrogen application amounts and the soil nitrate levels as described in conditions 19 and 20 shall be included in the annual report.
- e. Monthly precipitation totals. **ADDED**
- f. Any other pertinent information effecting the operation of the facility.

- B. Routine Quarterly Reports - This requirement has been eliminated.
- C. Repeat (Monthly) Reports - This requirement has been eliminated.

17 of 23.
Revised
11/2/98

Groundwater Standards Exceedance - Any exceedance of the Ammonia standard of 0.5 ppm as "N", or the Nitrate standard of 10.0 ppm as "N", or the Class I standard for any other parameter identified in Chapter VIII of the Wyoming Water Quality Rules and Regulations resulting from the operation of this facility is a violation of the Chapter VIII groundwater standards and this permit.

In accordance with Chapter 3, Section 13(d) of the Water Quality Rules and Regulations, these modifications shall become final within 20 days from the date of receipt of this letter unless within that time the permittee requests a hearing before the Environmental Quality Council. Such a request for a hearing shall be made in writing to the administrator and shall state the grounds for the request. Also, please be aware that there are provisions for other interested parties to protest these changes.

Lastly, a review of the files indicates that although the quarterly reports were all submitted, the yearly summary report for 1997 was not submitted. The yearly summary reports are important because they should contain other information in addition to the monitoring well data. Information such as groundwater elevations and flow directions, a summary of the nitrogen application amounts and soil nitrate levels, and precipitation amounts. The specific yearly report requirements are identified in revised permit condition 16A above. Please be advised that as of the end of 1998 the quarterly monitoring reports are no longer required. However, the quarterly monitoring shall be continued and the results submitted in the annual report at the end of each year.

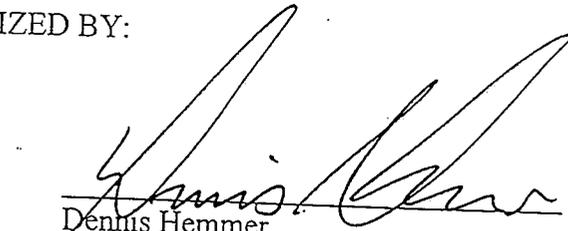
Lester Maxfield
Maxfield Farms Inc.
November 2, 1998
Page 5

If you have any questions concerning these revised groundwater monitoring requirements please call Ron Ewald at (307) 777-6183. Otherwise, please implement this revised plan at your next scheduled sampling event.

PERMIT CONDITION CHANGES AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Dept. of Environmental Quality

11/4/98

Date of Issuance

✓ RLE:ks
82843.ltr

cc: Archive File - # 92-303
Phil Stump, WQD
Steve McConnell, PRBRC, 23 N. Scott, Sheridan, WY 82801
Town of Lingle
Attn. Dorothy Vollmer, Clerk/Treasurer
P.O. Box 448
Lingle, Wyoming 82223
Lingle-Fort Laramie Conservation District
Attn: Mr. Karl Unverzagt
1441 East M, Suite B
Torrington, WY 82240
Marvin Billings
Rt. 1, Box 55a
Lingle, WY 82223

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-303
SPECIAL CONDITIONS

Maxfield Farms - Lingle West Feedlot

This permit hereby authorizes the applicant:

Maxfield Farms, Inc.
c/o Lester Maxfield
Box C
Torrington, Wyoming 82240

to construct, install or modify a cattle feedlot runoff collection/retention/disposal system according to the procedures and conditions of the application number 92-303. The facility is located in NE 1/4 Section 15 T25N R63W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (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.

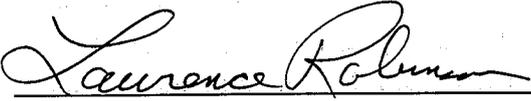
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

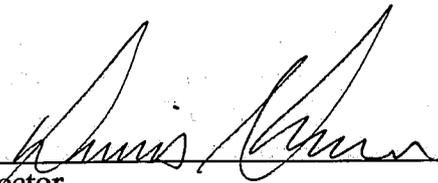
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

9-29-93

Date of Issuance

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

SPECIAL CONDITIONS

GENERAL CONDITIONS

- 1 of 23. 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 23. 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.

PERMIT NO. 92-303

- 3 of 23. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the 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-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

MONITORING WELLS

- 4 of 23. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 92-303. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 5 of 23. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 6 of 23. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells (MW4, MW5, MW6, and MW7)/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice. Additionally, the following shall be done:
- a. The filter sand in MW5, MW6, and MW7 shall be extended upward to 2 to 4 inches above the top of the well screen. Grout will be placed from the top of the filter sand to just above the ground surface where the grout will be formed into a pad sloping away from the well casing to prevent surface water leakage into the wells.
- 7 of 23. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70

PERMIT NO. 92-303

of Wyoming Water Quality Rules and Regulations. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

- 8 of 23. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 9 of 23. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (telephone 777-7354).
- 10 of 23. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level, except as allowed by condition 6. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval, except as allowed by condition 6;
 - e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal, except as allowed by condition 6. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.

PERMIT NO. 92-303

- g. The annular space above the bentonite seal to within one (1) foot of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout;
 - h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
 - i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer;
 - j. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
- 11 of 23. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 12 of 23. Within thirty (30) days of the completion of the monitoring well installations, a report of the installations shall be submitted to WQD. This report shall contain at a minimum:
- a. A site map showing the physical features, monitoring well locations, and mean sea level elevations of the top of casing/measuring point;
 - b. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
 - c. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - d. Depth to water; and
 - e. A potentiometric surface map showing the direction and gradient of groundwater flow.
- 13 of 23. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

PERMIT NO. 92-303

14 of 23. All monitor wells/piezometers associated with this facility shall be sampled at the frequencies specified and the groundwater analyzed for the parameters indicated in the O&M manual for this facility with the following additional conditions:

- a. Aluminum shall be added to the Table 1 parameters,
- b. The groundwater elevation shall be measured and recorded for each well for every monitoring event,
- c. MW5 shall be sampled for the same parameters and at the same frequency as MW1, MW2, and MW3,
- d. All groundwater samples shall be filtered before they are analyzed,
- e. The results of these analyses shall be submitted to the WQD office in Cheyenne according to the reporting requirements found in condition 16.

15 of 23. Additional Monitoring Wells May Be Required Later - If the early monitoring of these initial 7 monitoring wells shows that:

- a. these locations are insufficient to properly determine the groundwater gradients or other important factors, or
- b. that the wells are not properly located to accomplish the goals and purposes of this monitoring program

then additional monitoring wells may be required by the WQD to address these potential inadequacies.

REPORTING

16 of 23. General - All written reports, whether routine or unscheduled permit exceedance reports, shall be sent to:

SE District Engineering Supervisor
DEQ / Water Quality Division
Herschler Building, 4 West
Cheyenne, Wyoming 82002

Additionally, each report shall have a cover sheet or cover letter which clearly indicates the purpose of the report and which refers to the Permit # 92-303.

Routine Reports:

- a. First Year Sampling and Reporting - The sampling parameters and frequencies for the first year shall be as indicated in the O&M manual in the section titled "Monitoring Well Sampling Procedure". Sampling shall be monthly or

quarterly, depending on the parameter; and the results shall be reported quarterly.

- b. Second Year and Thereafter - The sampling parameters and frequencies for the out years shall be as indicated in the O&M manual, except that monitoring wells MW1, MW2, MW3, and MW5 are only required to be sampled for the O&M Table 1 parameters quarterly for the first year. The sampling results shall be reported yearly thereafter, except as specified in condition 16e below.
- c. A summary of the groundwater elevations and directions of flow of the groundwater shall be included in the yearly reports.
- d. A summary of the nitrogen application amounts and the soil nitrate levels as described in conditions 19 and 20 shall be included in the yearly reports.

Reporting Permit Exceedances and Required Follow-up Responses:

- e. Ammonia and Nitrate Exceedances - The reporting and action levels for ammonia and nitrate are as follows:

Ammonia as "N" - above 0.5 ppm
Nitrate as "N" - above 10.0 ppm

If ammonia or nitrate is detected above these levels, the reporting and follow-up procedures as detailed in items a, b, c, d, and e on pages 24 and 25 of the O&M manual shall be followed. The extent of contamination report and proposed corrective action plan referred to in item e shall be submitted to the WQD within 30 days after the 3 consecutive months of violations have been established. In any case, the first requirement is an immediate retest (within 7 days of receipt of the sample results) and a report to the Water Quality Division within 7 days after receipt of the retest results.

PROJECT SPECIFIC CONDITIONS

- 17 of 23. Groundwater Standards Exceedance - Any exceedance of the Ammonia standard of 0.5 ppm as "N", or the Nitrate standard of 10.0 ppm as "N", or the Class I standard for any other parameter identified in Chapter VIII of the Wyoming Water Quality Rules and Regulations resulting from the operation of this facility is a violation of the Chapter VIII groundwater standards and this permit. In the event of an exceedance, the reporting and follow-up procedures of condition 16e shall be followed.
- 18 of 23. Prevention of Ponding - The confined feedlot area shall be operated and maintained in such a manner to ensure that drainage occurs as designed and to prevent the creation of low spots or depressions which would lead to ponding.
- 19 of 23. Land Application of Pond Liquids - Land application of the liquids from the retention pond shall be permitted in Section 15 T25N R63W. Land application rates shall be

limited in both volume of water applied and total organic and mineral loading. Not more than 36 inches of water, including precipitation, shall be applied annually, measured from November 1 to October 31. A summary of this information shall be included in the annual reports as required by condition 16.

- 20 of 23. Nitrogen Application Procedures - The nitrate levels in the soil shall be measured annually after crops are harvested. The total nitrogen available in the soil after harvest plus nitrogen applied during the following growing year shall not exceed best agricultural practices for the crops being grown. The nitrogen applied includes commercial fertilizers, agricultural wastes spread mechanically, and land application of liquids through irrigation. If directly edible crops such as dry beans are to be grown, compliance with Chapter XI, Section 55(c)(i) criteria must be verified by testing each batch of water pumped from the retention pond to determine the irrigation water quality. Records shall be maintained and be available for inspections by DEQ/WQD for a period of five years of the amount of effluent land applied and the results of the soil and water tests. A summary of this information shall be included in the annual reports as required by condition 16.
- 21 of 23. Retention Pond Liner Construction Verification - A report documenting the pond liner construction and test results shall be submitted to the DEQ Water Quality Division for review and approval before operations begin.
- 22 of 23. Closure Plan - The owner of this feedlot is required to submit a closure plan to the Water Quality Division for review and approval at least 90 days prior to permanent closure and/or abandonment of this facility.

STATEMENT OF BASIS

- 23 of 23. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

I. General information.

- A. Permit Number: 92-303
- B. Facility Name: Maxfield Farms - Lingle West Feedlot

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

- A. Chapter XI. Yes - Section 29, Feedlots - Runoff Collection and Retention System
- B. Chapter XII. No

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.

NOT Applicable

- B. Briefly state the basis for the deviation.

NOT Applicable

- 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).

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable

- 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.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

NOT Applicable

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

NOT Applicable

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

NOT Applicable

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

YES - This facility is a concentrated cattle feedlot with pens, alley ways, and a runoff collection and retention pond designed to be able to contain the runoff from a 25 year-24 hour storm as required by NPDES regulations until the runoff can be applied at agronomic rates to nearby crop fields. The design concept is that in the pen areas a manure pack will be developed and maintained such that very little, if any, contaminated water will leach into the ground or groundwater. Additionally, the retention pond will have a clay liner designed to minimize exfiltration of contaminated water out of the bottom of the pond and into the groundwater. Any contamination which does escape from either the pens or the pond should be so minor as to not cause a violation of any groundwater standards. Note - monitoring well MW4 is positioned a short distance downgradient of the retention pond to

allow for a mixing zone. The operators of this facility are required to operate, maintain, and regularly sample a set of monitoring wells and report the results to DEQ/WQD to verify that this facility is indeed functioning as designed and not polluting the groundwater. See monitoring system description in G. below.

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

NOT Applicable

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

NOT Applicable

- G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

YES - A detailed description of the monitoring parameters, sampling frequencies, reporting requirements, and follow-up procedures for standard exceedances are contained in the O&M manual for this facility and the permit conditions. This aquifer is considered to be a Class I aquifer, therefore Class I standards are used as the standards. To summarize:

1. Initially there will be 7 monitoring wells.
2. All wells will be sampled monthly for the first year and quarterly thereafter for the following parameters:

<u>Parameter</u>	<u>Standard</u>
Water Level	---
pH	6.5 - 9.0 s.u.
Ammonia as Nitrogen	0.5 ppm
Nitrate as Nitrogen	10.0 ppm

3. Four of the wells, MW1, MW2, MW3, and MW5, will be sampled quarterly for the first year for the following parameters:

Parameter

Aluminum
Total Dissolved Solids
Calcium
Magnesium
Hardness

Sodium/SAR
Potassium
Chloride
Sulfate
Iron
Alkalinity
Fecal Coliform
TOC
TKN
O-Phosphate-P
BOD
COD
Manganese
Copper
Zinc
Arsenic
Barium
Cadmium
Chromium
Lead
Mercury
Selenium
Silver
Endrin
Lindane
Methoxychlor
Toxaphene
2-4-D
2,4,5-TP

4. A violation is considered to be any exceedance of the Ammonia standard of 0.5 ppm as "N", or the Nitrate standard of 10.0 ppm as "N", or the Class I standard for any other parameter identified in Chapter VIII of the Wyoming Water Quality Rules and Regulations resulting from the operation of this facility. In the event of an exceedance, the reporting and follow-up procedures of permit condition 16e and/or 16f shall be followed.

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.



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

September 28, 1993

CERTIFIED MAIL

Lester Maxfield
Maxfield Farms Inc.
Box C
Torrington, Wyoming 82240

Dear Mr. Maxfield:

Enclosed is permit to construct 92-303 for the Maxfield Farms, Lingle West Feedlot. This permit is being issued in accordance with W.S. 35-11-301(a)(iii) and Chapters III, VIII and XI, Wyoming Water Quality Rules and Regulations. This permit authorizes the construction of the facility in accordance with the information presented in the application package, supporting documents and the conditions contained in the permit. Chapters I and II, Rules of Practice and Procedure provide for contested hearings before the Environmental Quality Council (EQC) in the event any person protests a permit issued by the Department. As you know, several persons or groups have indicated their intent to protest the issuance of the construction permit.

Maxfield Farms Inc. has also applied for an NPDES permit for discharge from the facility authorized by Permit 92-303. Section 14, Chapter II, Wyoming Water Quality Rules and Regulations states that the Administrator shall provide an opportunity for the applicant or any interested party to request a public hearing with respect to any discharge permit application. If the Administrator finds that there is a significant degree of public interest, he shall request that the EQC hold such a hearing in the geographic area of the proposed discharge. Due to a number of local residents, organizations and the Town of Lingle expressing objections or concerns with the issuance of a discharge permit, the Administrator has requested that the EQC hold such a hearing in or near the Town of Lingle. This hearing must be held prior to the issuance of a discharge permit.

Several protestants have objected to the issuance of a discharge permit and indicated that they will request a hearing before the Council. These protestants have also indicated that they intend to object to the issuance of the construction permit when it is issued by DEQ. In order to avoid

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Handwritten notes in the lower middle section of the page, continuing the text from above.

Handwritten notes at the bottom of the page, including a large curved line or signature.

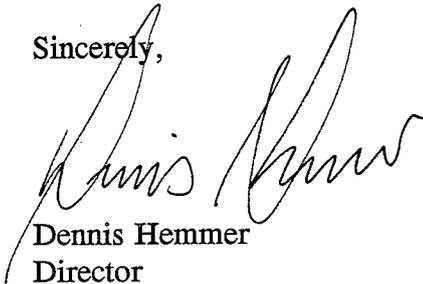
Lester Maxfield
September 28, 1993
Page 2

duplicative hearings on these related issues, the Administrator has requested that the Council hold a single hearing on the matter. The EQC has not yet scheduled a hearing date.

W.S. 35-11-112(b)(ii) provides that the EQC may order that any permit be granted, denied, suspended, revoked or modified. This authority is applicable to both the construction and discharge permits. Although you have received a permit to construct it is also necessary to receive a discharge permit in order to operate the facility. The issuance of the discharge permit is dependant upon the action that will be taken by the EQC. It is also possible that the EQC could revoke or modify the construction permit. If you were to proceed with construction before objections to both permits are addressed by Council, you should do so with a full understanding of the uncertainties involved. You should also be aware that the issuance of the construction permit by this Department does not preclude an adverse decision by the EQC on either the construction or discharge permit.

In order to facilitate the opportunity for public input as required by state regulations and statutes, a copy of this letter will be provided to all parties who have expressed an interest in the project.

Sincerely,



Dennis Hemmer
Director

DH/LR/nc 34524.LTR

Enclosure

cc: Terri Lorenzon, Environmental Quality Council
Mel Eaton, Goshen County Planner
Dorthy Vollmer, Clerk/Treasurer, Town of Lingle
Larry Wilson, Mayor, Town of Lingle
Marvin Billings, Rt. 1, Box 55A, Torrington, WY
Keith Newman, Rt, 1, Box 142, Torrington, WY
Jack Pugsley, Chairman Lingle-Fort Laramie Conservation District
Mary Lou Marcum, Powder River Basin Resource Council

RECORD OF COMMUNICATION

PHONE CALL DISCUSSION FIELD TRIP CONFERENCE

OTHER (SPECIFY)

PHONE NUMBER

T

FROM:

DATE 6-21-2001
TIME

File

Barb

SUBJECT

92-303 - Maxfield Farms, Inc.

SUMMARY OF COMMUNICATION

When a change of ownership for a Permit to Construct is processed, our procedures say that we should also have a copy of the letter requesting the change to be filed in all of the places we file things.

We do not have one, so I am writing this note instead. The request came about through a phone call to DEQ to obtain information. (This per my conversation with Ben Ewald). Barb 6-21-01

INFORMATION COPIES

TO:

PERMIT TRANSFER REQUEST

RECEIVED

JUN 14 2001

WATER QUALITY DIVISION WYOMING

Water Quality Division
Department of Environmental Quality
122 West 25th Street
Herschler Building
Cheyenne, WY 82002

To Whom It May Concern:

Maxfield Farms Inc intends to transfer ownership of the facility
(Original Owner)
associated with Permit Number 92-303 to David & Shirin Kollar
(New Owner)

on _____ It is requested that the said permit be transferred to the new owner in
(Date)

accordance with section 10(c) and (d) of Chapter III, Wyoming Water Quality Rules and Regulations. The new owner agrees to accept and be bound by the provisions of the permit and any amendments, agrees to construct and operate the facility in accordance with the approved permit and agrees to accept responsibility for the facility's compliance with applicable standards and permit conditions, including the responsibility to perform any necessary corrective actions.

The original owner shall retain responsibility for the facility according to the terms of the original permit until the application for permit transfer is approved by the Administrator.

Please transfer the permit to the transferee's name and issue a modified permit reflecting the transfer of ownership. Terms and conditions of the original permit are transferred to and become the responsibility of the new owner.

Maxfield Farms Inc
Signature of Original Owner

David & Shirin Kollar
Signature of New Owner

Name Maxfield Farms Inc

Name David A KOLLAR & SHIRIN KOLLAR

Address PO Box C
Torrington WY

Address 6394 Corinth Rd
Longmont CO 80503

Telephone 307-532-3221
(Chrissy Debusner)

Telephone 303-682-0199(H)

THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
--	---	---	---	--	---	---

November 2, 1998

CERTIFIED

Lester Maxfield
Maxfield Farms Inc.
Box C
Torrington, Wyoming 82240

RE: Lingle West Feedlot (Permit # 92-303), Groundwater Monitoring Program - Revised Sampling Plan

Dear Mr. Maxfield:

The Wyoming Department of Environmental Quality (DEQ)/Water Quality Division (WQD) has recently reviewed the groundwater monitoring data for the first four and a half years of operation of this facility. It is the policy of the WQD to periodically review the monitoring and sampling requirements of permitted facilities, especially newer facilities, in an effort to establish more efficient and cost effective monitoring programs. The purpose of this review was to determine if some of the original monitoring requirements could now be reduced while still protecting the environment and the quality of the groundwater resource.

The monitoring data was reviewed by the WQD Groundwater Pollution Control (GPC) section. The GPC review found that the nitrate concentrations above 10 mg/l appeared to be caused by up gradient or background conditions, and that the background and down gradient nitrate concentrations appear to vary according to recharge events such as precipitation, river level rising, and spring irrigation. The GPC concluded that, "The sampling doesn't provide evidence of significant impacts caused by the operations at the feedlot." Therefore, based on this review, some changes in the

monitoring plan are in order. For the most part these changes are a reduction in sampling requirements. However, please note the addition of monthly precipitation totals, and TDS to the Table 2 parameter list. TDS is being transferred from the Table 1 parameter list to Table 2 in order to provide continuity of data.

Therefore, in accordance with Chapter 3, Section 13 (a) (ii) of the Water Quality Rules and Regulations which provide that the administrator may, for good cause, modify a permit upon receipt of additional information; the following changes to the monitoring and sampling requirements are specified below.

Conditions 14, 16, and 17 of the permit concerning sampling parameters, frequencies, and reporting requirements are being revised as follows:

14 of 23. All monitoring wells/piezometers associated with this facility shall be sampled at the
Revised frequencies specified herein, and the groundwater analyzed for the parameters
11/2/98 indicated herein, according to the following conditions:

a. Table 1 parameters - This requirement has been eliminated.

b. Table 2 parameters shall be:

- Groundwater elevation
- pH
- TDS (Total Dissolved Solids)
- Ammonia as "N"
- Nitrate as "N"

ADDED

Table 2 parameters are not required to be filtered.

c. The groundwater elevation shall be measured and recorded for every well each time it is sampled.

d. Yearly Sampling - This requirement has been eliminated.

- e. Quarterly Sampling - MW's 4, 5, 6, 7, 8, and 9 shall be sampled quarterly for all parameters in Table 2. Quarterly sampling events shall occur as specified below:
- 1st Quarter: March
2nd Quarter: June
3rd Quarter: September
4th Quarter: December
- f. Repeat (Monthly) Sampling - This requirement has been eliminated.
- g. The results and analysis of these sampling events shall be submitted to the WQD office in Cheyenne according to the reporting requirements specified in condition 16 below.

REPORTING

16 of 23.
Revised
11/2/98

- General - All written reports, whether routine or unscheduled, shall be sent to:

SE District Engineering Supervisor
DEQ / Water Quality Division
Herschler Building, 4 West
Cheyenne, Wyoming 82002

Additionally, each report shall have a cover sheet or cover letter which clearly indicates the purpose of the report and which refers to the Permit # 92-303.

- A. Routine Yearly Reports - shall be for the calendar period of January 1 to December 31 and shall be submitted to the WQD before February 28 of the following year. These reports shall contain:
- a. All of the groundwater monitoring data from the required wells for all of the sampling events, whether yearly, quarterly or repeat events.
 - b. Historical graphical presentations of the monitoring data shall also be included in the annual report.
 - c. A summary of the groundwater elevations and flow directions shall be included in the annual report.

- d. A summary of the nitrogen application amounts and the soil nitrate levels as described in conditions 19 and 20 shall be included in the annual report.
- e. Monthly precipitation totals. **ADDED**
- f. Any other pertinent information effecting the operation of the facility.

B. Routine Quarterly Reports - This requirement has been eliminated.

C. Repeat (Monthly) Reports - This requirement has been eliminated.

17 of 23.
Revised
11/2/98

Groundwater Standards Exceedance - Any exceedance of the Ammonia standard of 0.5 ppm as "N", or the Nitrate standard of 10.0 ppm as "N", or the Class I standard for any other parameter identified in Chapter VIII of the Wyoming Water Quality Rules and Regulations resulting from the operation of this facility is a violation of the Chapter VIII groundwater standards and this permit.

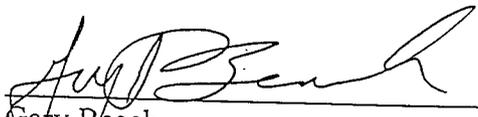
In accordance with Chapter 3, Section 13(d) of the Water Quality Rules and Regulations, these modifications shall become final within 20 days from the date of receipt of this letter unless within that time the permittee requests a hearing before the Environmental Quality Council. Such a request for a hearing shall be made in writing to the administrator and shall state the grounds for the request. Also, please be aware that there are provisions for other interested parties to protest these changes.

Lastly, a review of the files indicates that although the quarterly reports were all submitted, the yearly summary report for 1997 was not submitted. The yearly summary reports are important because they should contain other information in addition to the monitoring well data. Information such as groundwater elevations and flow directions, a summary of the nitrogen application amounts and soil nitrate levels, and precipitation amounts. The specific yearly report requirements are identified in revised permit condition 16A above. Please be advised that as of the end of 1998 the quarterly monitoring reports are no longer required. However, the quarterly monitoring shall be continued and the results submitted in the annual report at the end of each year.

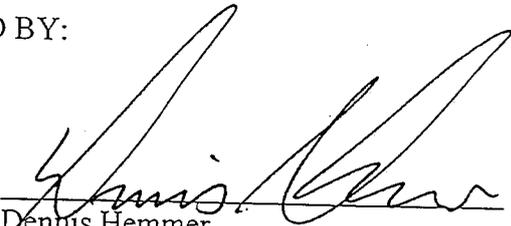
Lester Maxfield
Maxfield Farms Inc.
November 2, 1998
Page 5

If you have any questions concerning these revised groundwater monitoring requirements please call Ron Ewald at (307) 777-6183. Otherwise, please implement this revised plan at your next scheduled sampling event.

PERMIT CONDITION CHANGES AUTHORIZED BY:



Gary Beach
Administrator
Water Quality Division



Dennis Hemmer
Director
Dept. of Environmental Quality

11/4/98

Date of Issuance

✓ RLE:ks
82843.ltr

cc: Archive File - # 92-303
Phil Stump, WQD
Steve McConnell, PRBRC, 23 N. Scott, Sheridan, WY 82801
Town of Lingle
Attn. Dorothy Vollmer, Clerk/Treasurer
P.O. Box 448
Lingle, Wyoming 82223
Lingle-Fort Laramie Conservation District
Attn: Mr. Karl Unverzagt
1441 East M, Suite B
Torrington, WY 82240
Marvin Billings
Rt. 1, Box 55a
Lingle, WY 82223

LAND APPLICATION PERMIT

PERMIT NO.: 92-304R

Jim Bridger Power Plant
(Name of Facility)

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

Jim Bridger Power Plant

Pacific Corp., Inc.

P.O. Box 158

Point of Rocks, WY 82942

to land apply municipal domestic sewage sludge to industrial property for land reclamation. The application site is located in NW¼, NW¼, Section 3, T20N, R101W in the county of Sweetwater in the State of Wyoming. This permit shall be effective for a period of two (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 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

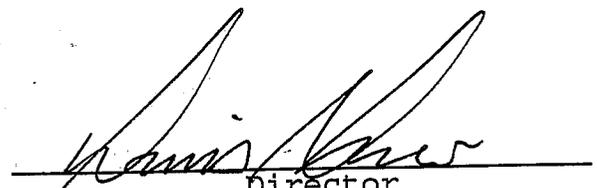
responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-22-92

Date of Issuance

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

BL/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 92-305

MACILRAVIE SEPTIC SYSTEM
(Name of Facility)

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

Clem MacIlravie
Box 83
Carlile, Wyoming 82713

to construct, install or modify a septic system facility according to the procedures and conditions of the application No. 92-305. The facility is located in NW Section 3, Township 52 North, Range 67 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

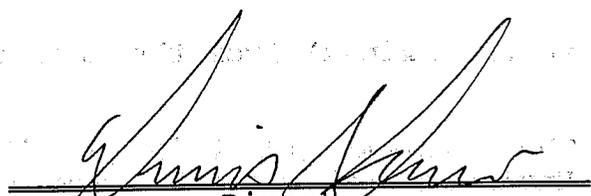
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

9-24-92

Date of Issuance

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

✓
SCF/pr:09/18/92

PERMIT TO CONSTRUCT
Conditioned

- [X] New
[] Renewal
[] Modified

Permit No. 92-306R

Star Valley Ranch R.V. Park
(Name of Facility)

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

Star Valley Ranch R.V. Park

P.O. Box 635

Thayne, WY 83127

to construct a water and sewer system for additional 96 R.V. pads according to the procedures and conditions of the application No. 92-306R. The facility is located in NW 1/4, NW 1/4, Section 6, T34N R118W in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (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 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.

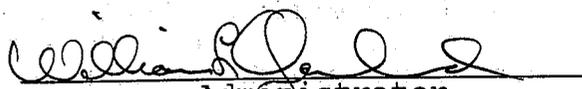
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

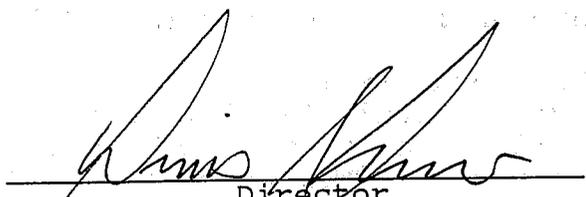
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

11-9-92

Date of Issuance

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

BL/anc

CONDITION

1. of 1 The water distribution system for these additional 96 R.V. pads shall not be connected to the present water distribution system. A separate permit to construct the

Permit to Construct
Star Valley Ranch R.V. Park
92-306R
Page 3

water connection will be required at such time as an adequate source can be identified. The owner assumes the risk that should an adequate water source not be identified, water service to the additional 96 R.V. pads will not be possible.

PERMIT TO CONSTRUCT

New

Permit No. 92-307

Renewal

Modified

Runoff Containment Pond
(Name of Facility)

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

Solvay Soda Ash Joint Venture

P.O. Box 1167

Green River, WY 82935

to install a series of up to five (5) test holes around perimeter of the Runoff Containment Pond for evaluating grouting requirements according to the procedures and conditions of the application No. 92-307. The facility is located in the NE $\frac{1}{4}$ Section 31, T18N, R109W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (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 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.

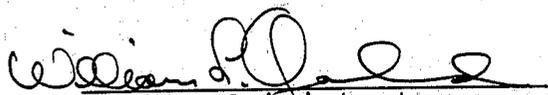
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

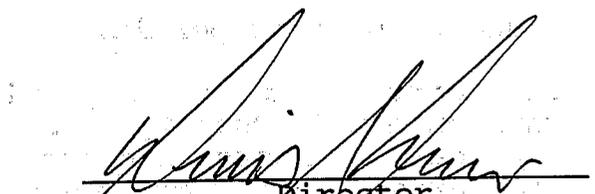
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

9-24-92
Date of Issuance

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

DG/jyi

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-308

Mountain Cement No. 2, Commercial Septic System

This permit hereby authorizes the applicant:

Mountain Cement Company
P.O. Box 339
Laramie, Wyoming 82070

to construct, install or modify a commercial septic system according to the procedures and conditions of the application number 92-308. The facility is located in SE 1/4, Section 17, T15N, 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: Southeast District Engineer, 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.

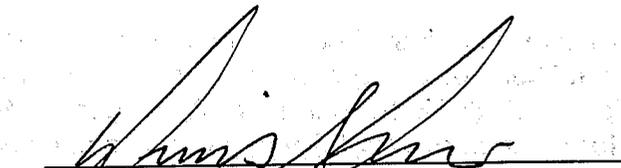
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-29-92

Date of Issuance

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

RLE/bb/23925.ltr
cc: Albany County Sanitarian

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-309
SPECIAL CONDITIONS

Gallenbeck Residential Septic System

This permit hereby authorizes the applicant:

John & Donnalie Gallenbeck
PO Box 8
Baggs Wyoming 82321

to construct, install or modify a Residential Septic System according to the procedures and conditions of the application number 92-309. The facility is located in SE¼ NW¼ Section 2 T12N R91W 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.

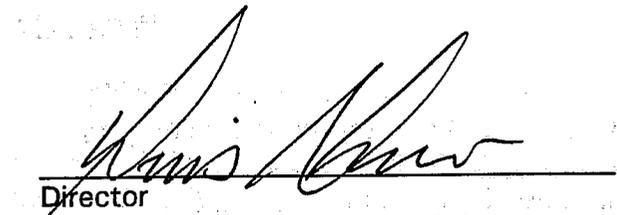
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

10/30/92
Date of Issuance

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

SPECIAL CONDITIONS

1. of 6. The inlet and outlet must be constructed with a tee or baffle. The outlet tee or baffle must extend into the middle third of the water depth. For the standard 1000 gallon tank, the bottom of the tee must end between 17 and 33 inches below the bottom of the outlet pipe.
2. of 6. A cleanout having a minimum diameter of six inches shall be provided in each tank compartment and shall extend to the ground surface and be capped
3. of 6. Maximum depth of cover over top of tank shall be thirty inches.
4. of 6. The tank shall be filled with water during backfilling and immediately after normal maintenance.
5. of 6. Restrict vehicular traffic or heavy equipment near the tank.
6. of 6. Tank shall be installed in accordance with manufacturers instructions.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-310
* CONDITIONED *

FMC Monitoring Wells
(Name of Facility)

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

FMC Wyoming Corporation

P.O. Box 872

Green River, WY 82935

to construct, install, or modify a series of monitoring wells as needed to improve areal coverage in detecting subsurface contamination facility according to the procedures and conditions of the application No. 92-310. The facility is located in on the FMC plant site in Sections 14 and 15, T19N, R110W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of five (5) 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 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.

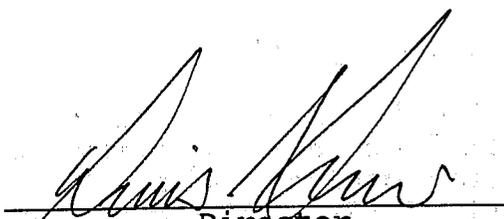
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 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

10-12-92
Date of Issuance

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

DG/jyi

* CONDITIONS ON PAGE 3 thru 6 *

Conditions for Monitoring Wells

1. of 11 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 92-310. 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. of 11 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. of 11 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. of 11 A waterproof protective casing and locking cap is required on all monitoring wells. 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 on the outside of the protective casing and on the inside of the well cap.
5. of 11 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. of 11 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. If contaminants are present or expected to be present, development water should be disposed of in accordance with all state and federal regulation;
 - h. 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
7. of 11 DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. of 11 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. The monitoring well elevation should be measured from the top of casing and that measuring point should be clearly marked on the inside of the casing with an arrow (^).
 - d. Final location, construction details and logs of all monitoring wells;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. Maps delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction of groundwater movement; and
 - k. Interpretation of data and conclusions including recommended remedial measures.
9. of 11 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. of 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.
11. of 11 As-built construction details shall be submitted to the Lander DEQ/WQD office for all monitor wells constructed under this permit. The wells will be sampled semi-annually for the parameters detailed in the Ground Water

Sampling Plan developed for the FMC Plant by Hydro Geo Chem Consultants, specified as follows:

Total Dissolved Solids (TDS)

CO₃ + HCO₃

Specific Conductance

CO₃

Sodium

SO₄

HCO₃

Ca

Mg

pH

Cl

PO₄

K

Nitrate

Cations

Anions

Cation/Anion Balance (CAB)

Analytical results shall be reported in the FMC Wyoming Corporation Annual Report for State of Wyoming Mining Permit No. 335C.

cc: Jake Strohman

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-311
SPECIAL CONDITIONS

Frontier Refining: Coker Unit - Sewer Modifications

This permit hereby authorizes the applicant:

Frontier Refining, Inc.
P.O. Box 1588
Cheyenne, Wyoming 82003

to construct, install or modify a commercial sewer collection system according to the procedures and conditions of the application number 92-311. The facility is located in SE/4 NE/4 Section 05 T13N R66W in the county of Laramie, 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.

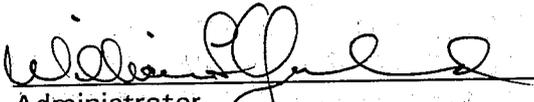
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

11-16-92
Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 1. The plans and specifications as submitted meet the technical requirements for sewer collection systems as specified in Chapter XI of the Wyoming DEQ Water Quality Rules and Regulations. However, since the main purpose of these proposed sewer modifications is to meet Air Quality vapor emission requirements, a review of the plans by DEQ/Air Quality Division was requested. This review concludes that the revised plans submitted on November 2, 1992 do meet the necessary air quality requirements. See November 4, 1992 DEQ/Air Quality letter included. Therefore, this permit is issued based on the condition that the sewer modifications do indeed accomplish the air Quality requirements which they are intended to meet.

RLE/jmm 24201.ltr

cc: Michael Stoll, DEQ/Air Quality

Enclosure: Air Quality Letter, November 4, 1992



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

July 6, 1994

Mr. Ike Eichner
Flying J, Inc.
50 West 990 South
Brigham City, UT 84302

RE: 92-312 Flying J, Rawlins Truck Stop Oil/Water Separator

Dear Mr. Eichner:

From your telephone call of today I learned that Flying J wishes to withdraw permit application #92-312 for a new truck stop at Rawlins. The facility for which plans were submitted to the DEQ was never constructed, but rather the old Gay Johnson truck stop was rehabilitated. You indicated it would not be necessary to return the voluminous plans and specifications, therefore they will be discarded and the application is considered withdrawn.

Enclosed I am sending a few permit application forms for your use in future applications. Fill free to give me a call if you have any questions.

Sincerely,

Randall Taylor

Enclosure

File: to RT for filing with application 92-312

JUL 06 1994

WATER QUALITY DIVISION
WYOMING

PERMIT TO CONSTRUCT

New

Permit No. 92-313

Renewal

Modified

FMC Underdrain Structure No. 2
(Name of Facility)

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

FMC Wyoming Corporation

P.O. Box 872

Green River, WY 82935

to modify a storm pond underdrain structure and construction of a new sump according to the procedures and conditions of the application No. 92-313. The facility is located in the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$, Section 14, Township 19N., Range 110W. in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (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 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.

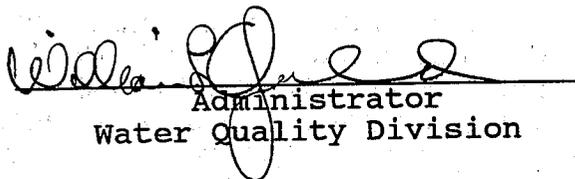
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

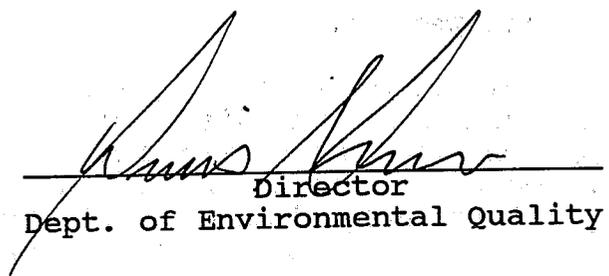
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

12-4-92

Date of Issuance

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

SR:mam

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-314
* CONDITIONED *

Opal Sewage Lagoons Monitoring Wells
(Name of Facility)

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

Town of Opal

135 Chrisman Street

Opal, WY 83124

to install four monitoring wells around municipal sewage lagoons according to the procedures and conditions of the application No. 92-314. The facility is located in SW $\frac{1}{4}$, SE $\frac{1}{4}$, Section 26, T21N, R114W in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

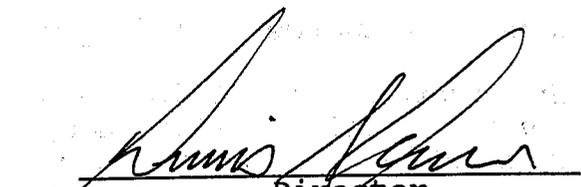
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10-12-92

Date of Issuance

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

BL/jyi

* CONDITIONS CONTINUED on PAGES 3 and 5 *

Opal Service Lagoons Monitoring Wells

92-314

October 6, 1992

Page 3

Conditions for Monitoring Wells

1. of 9 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 92-314. 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. of 9 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. of 9 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. of 9 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. of 9 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 five 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. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 5 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. A protective casing and locking cap is strongly recommended;
 - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
6. of 9 Within 120 days of completion of the wells, 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;
 - b. Final location, construction details and logs of all monitoring wells;
 - c. Water level measurements;
 - d. Sample collection procedures;
 - e. Sampling analytical results;
7. of 9 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
8. of 9 All monitor wells associated with this facility shall be sampled and the wastewater analyzed twice again (schedule) for the parameters listed below:

Opal Service Lagoons Monitoring Wells
92-314
October 6, 1992
Page 5

Chapter VIII parameters less radionuclides for the first year and TDS, electrical conductivity, water level and nitrates, thereafter.

9. of 9

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.

RF
92-315



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
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August 30, 1993

Marathon Pipe Line Company
P.O. Box 2330
Casper, Wyoming 82602

RE: Application (93-340) for a modification to a previous "Permit To Construct" (92-315) for road application of crude oil contaminated soil.

Gentlemen:

Since the modification requested is simply an increase in the amount of material to be road applied from 3500 to 4250 cubic yards and since the nature of the material is the same, and the land owner has approved the additional material; this volumetric increase is hereby approved under the terms and conditions of the original permit #92-315. A separate permit is therefore not required. This letter authorizes the application of the additional material as previously provided by permit #92-315.

Sincerely,

Ronald L. Ewald
Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

RLE/nc 34046.LTR
cc: Thomas J. Pilch, Chen-Northern, Inc., 605 N. Warehouse Road, Casper, WY 82601
Permit File #92-315

RF

LAND APPLICATION PERMIT

PERMIT NO. 92-315
SPECIAL CONDITIONS

ROAD APPLICATION

This permit hereby authorizes the applicant:

Marathon Pipeline Company
P O Box 2330
Casper, WY 82602

to land apply 3,500 cubic yards of crude oil contaminated soil. The application site is located in Section 6, 7 and 31, T20,21N, R76W 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 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 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 permit.

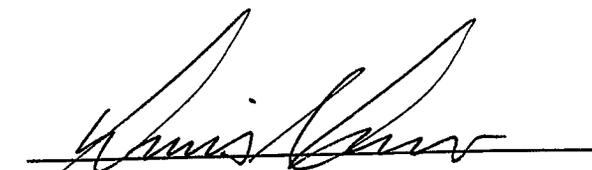
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10/30/92

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
- 2 of 5. The application site slope shall not exceed 8 percent.
- 3 of 5. Application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 4 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 122 West 25th, Herschler Building, 4 West, Cheyenne, Wyoming 82002, phone number 777-7781 to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
- 5 of 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 when frost conditions would not allow for the proper mechanical incorporation into the road bed.

LR/jn - 24045.ltr



THE STATE OF WYOMING

RF
92-316

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

August 30, 1993

Chevron, USA
P.O. Box 6004
Evanston, WY 82931-6004

RE: Application (93-339) for a modification to a previous "Permit To Construct" (92-316) for road application of crude oil contaminated soil.

Gentlemen:

Since the modification requested is simply an increase in the amount of material to be road applied from 3500 to 4250 cubic yards and since the nature of the material is the same, and the land owner has approved the additional material; this volumetric increase is hereby approved under the terms and conditions of the original permit #92-316. A separate permit is therefore not required. This letter authorizes the application of the additional material as previously provided by permit #92-316.

Sincerely,

Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

RLE/nc 34047.LTR

cc: Thomas J. Pilch, Chen-Northern, Inc., 605 N. Warehouse Road, Casper, WY 82601
Permit File #92-316

RF

LAND APPLICATION PERMIT

PERMIT NO. 92-316
SPECIAL CONDITIONS

ROAD APPLICATION

This permit hereby authorizes the applicant:

Chevron USA, Inc.
P O Box 6004
Evanston, WY 82931-6004

to land apply 3,500 cubic yards of crude oil contaminated soil. The application site is located in Section 6, 7 and 31, T20,21N, R76W 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 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 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 permit.

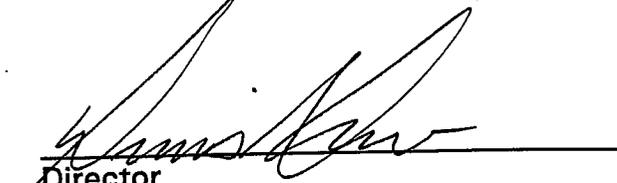
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-30-92

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
- 2 of 5. The application site slope shall not exceed 8 percent.
- 3 of 5. Application shall be terminated within 300 feet of the definable high-water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
- 4 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 122 West 25th, Herschler Building, 4 West, Cheyenne, Wyoming 82002, phone number 777-7781 to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
- 5 of 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 when frost conditions would not allow for the proper mechanical incorporation into the road bed.

LR/jn - 24046.ltr

ROAD APPLICATION PERMIT

PERMIT NO.: 92-317
SEE SPECIAL CONDITIONS

Elk Basin Field Road Application
(Name of Facility)

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

Amoco Production Company

P.O. Box 569

Powell, WY 82435

to road apply about 800 barrels of crude oil sludge from treater tanks. The application site is located in Section 19, T58N, R99W in the county of Park in the State of Wyoming. This permit shall be effective for a period of two (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 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.

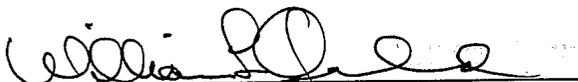
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

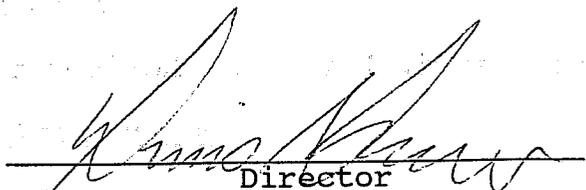
Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-16-92

Date of Issuance

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

ROAD APPLICATION STANDARD CONDITIONS

1. of 6 Waste oil and sludge shall be applied by a method and at a rate which will prevent runoff or ponding after incorporation into the road. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. of 6 The slope of the roads application shall not exceed 8 percent.
3. of 6 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. of 6 The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Jeff Hermansky phone number (307) 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. of 6 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. of 6 Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional or alternate 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.

JH/jyi

PERMIT TO CONSTRUCT

X New
 Renewal
 Modified

PERMIT NO. 92-318RRR

Coastal Chem - Modifications to Septic System

This permit hereby authorizes the applicant:

Coastal Corporation
P.O. Box 1287
ATTN: Charles Barnhart
Cheyenne

to construct, install or modify Septic System according to the procedures and conditions of the application number 92-318RRR. The facility is located in Section 17, NE1/4SE1/4 T13N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (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.

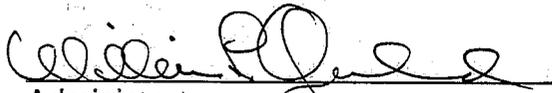
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

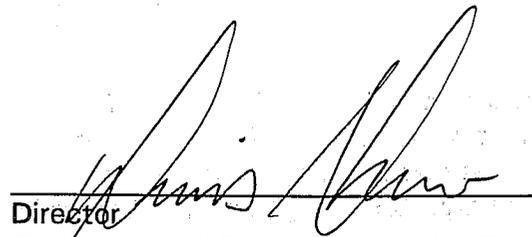
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

8-27-93

Date of Issuance

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

RFL/mad 34015.LTR



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

August 6, 1993

Charlie Barnhart
Coastal Chem, Inc.
P.O. Box 1287
Cheyenne, WY 82003

RE: Permit to Construct Application Number 92-318

Dear Mr. Barnhart:

The concept that you presented in your letter of August 2, 1993 appears to be a reasonable approach to bringing all of your septic systems into compliance with WQD regulations. In order to complete application number 92-318, it will be necessary for you to submit detailed plan sheets showing the location of all new septic tanks, all changes in existing piping, and the location, size and depth of all additions to the drainfields.

Thank you for your cooperation in resolving the issues which have surfaced in conjunction with these septic systems. This department is looking forward to issuing this permit and resolving all outstanding issues.

Sincerely,

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

RL/jn - 33734.ltr



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

June 28, 1993

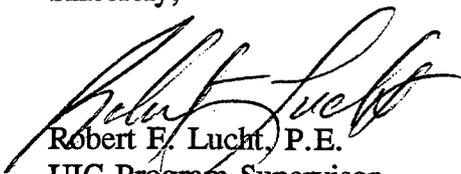
Charlie Barnhart
Coastal Chem, Inc.
P.O. Box 1287
Cheyenne, WY 82003

RE: Permit to Construct Application Number 92-318

Dear Mr. Barnhart:

In November of 1992, this department reviewed the above referenced application. Since that time, nothing has been received in response to that review. Please respond to the review already sent.

Sincerely,


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

RFL/jn - 32986.ltr

PERMIT TO CONSTRUCT

New

Permit No. 92-319

Renewal

Modified

Honor Farm Dormitory Sewer Line
(Name of Facility)

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

Wyoming Honor Farm

P.O. Box 32

Riverton, WY 82501

to construct a 6 inch PVC sewer collection line and manholes according to the procedures and conditions of the application No. 92-319. The facility is located in SW $\frac{1}{4}$ Section 14, T1N, R4E Wind River Meridian in the County of Fremont, in the State of Wyoming.

This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

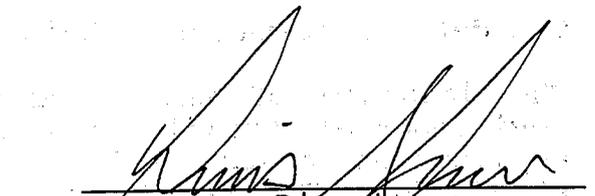
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10/8/92
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-320

Jackson Hole Motors
(Name of Facility)

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

T.A. Skeoch, Trust

P.O. Box 1783

Jackson, WY 83001

to install a five ground water monitoring wells for water level measurements and chemical quality sampling according to the procedures and conditions of the application No. 92-320. The facility is located in SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 32, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 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

9/28/92

Date of Issuance

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

DN/jyi

* CONDITIONS FOR MONITORING WELLS CONTINUED *

Conditions for Monitoring Wells

1. of 11 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 92-320. 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. of 11 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. of 11 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. of 11 A waterproof protective casing and locking cap is required on all monitoring wells. 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 on the outside of the protective casing and on the inside of the well cap.
5. of 11 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. of 11 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. If contaminants are present or expected to be present, development water should be disposed of in accordance with all state and federal regulation;
 - h. 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
7. of 11 DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. of 11 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. The monitoring well elevation should be measured from the top of casing and that measuring point should be clearly marked on the inside of the casing with an arrow (^).

- d. Final location, construction details and logs of all monitoring wells;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. Maps delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction of groundwater movement; and
 - k. Interpretation of data and conclusions including recommended remedial measures.
9. of 11 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. of 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.
11. of 11 The time schedule for plan implementation is submitted in J.B. Plunkett, September 10, 1992, proposal shall be adhered to. Drilling shall commence on or before September 28, 1992.

cc: Jake Strohman



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

July 8, 1993

Mr. Randy Lamdin (8HWM-HW)
US EPA Region VIII
999 18th Street, Suite 500
Denver, CO 80202

**RE: Wyoming Refining Company Recovery Wells: EPA Letter of Approval, August 25, 1992;
WRC Letter of Response, October 29, 1992**

Dear Randy:

Wyoming Refining Company's letter of October 29, 1992 states that certain requirements (conditions) of EPA's approval of WRC's recovery well workplan exceed the requirements of the EPA Consent Decree. To date, I have no record of WRC meeting the following conditions which were part of EPA's approval of WRC's workplan:

1. Condition II(A)(1): Monthly piezometer monitoring and groundwater mapping;
2. Condition III(A)(1): Monthly recovery well monitoring and installation of flow meters.

During EPA and WQD review of the original workplan for installation of the recovery wells, both agencies felt it important that this information be collected to determine the operational effectiveness of the existing recovery well system, as well as providing information to be used to evaluate proper siting for the proposed recovery wells.

Please inform me as to the authority that EPA has to require WRC to collect above information, and the action which EPA intends to take to ensure that its conditions to approval of the proposed recovery wells will be met in the future.

Sincerely,

Kevin D. Frederick, P.G.
Supervisor
Groundwater Pollution Control Program

KDF/nc 33288.LTR

cc: Bill Flynn, Attorney General's Office
File: 92-321 Permit Reporting

WRC/92-321-1.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-321
SPECIAL CONDITIONS

Wyoming Refining Co.

This permit hereby authorizes the applicant:

Dennis McCormick
1600 Broadway
Suite 2500
Denver, CO 80202

to construct, install or modify Piezometers/Monitoring wells for EPA's recovery well system according to the procedures and conditions of the application number 92-321. The facility is located in Section 29, T45N, R61W in the county of Weston, 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: Reviewing Engineer/Geologist: K. Frederick, P.G., 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

10-21-92

Date of Issuance

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

SPECIAL CONDITIONS

NOTE: This Permit authorizes only those piezometers (P-11 through P-25) identified in WRC's proposal (Table 1) to the U.S. EPA; not all of those listed on the application form. Piezometers TP-1 through TP-10 are not authorized for construction under this Permit since they were not addressed in WRC's original proposal to EPA.

WRC is again reminded that piezometers P-11 and P-13 through P-17 approximate, but do not entirely meet the requirements (Sections 6-11) of the Amended Final Order (April 13, 1992) with respect to the placement, type of well, reporting, sampling and analysis requirements, etc. WDEQ-WQD continues to recognize the Order as the process and schedule by which WRC should proceed.

This Permit to Construct authorizes WRC to proceed, in accordance with the attached Conditions to Permit, with its July 6, 1992 proposal to the U.S. EPA to drill additional piezometers to obtain information for the design and construction of groundwater recovery wells. Additional U.S. EPA and WDEQ-WQD requirements for authorization of the above-mentioned proposal were provided to WRC in EPA's

PERMIT NO. 92-321

letter of August 25, 1992 and are attached to this Permit as Conditions. These Conditions are as follows:

Requirements for WRC's Proposed Expanded Recovery Well System

I of VI. Proposed Expanded Recovery Well System

1. "As-built" construction details, plans (including locations), and specifications must, upon completion, be provided to U.S. EPA and the WDEQ-WQD for the following:
 - a) recovery wells, illustrating pumps, pump intakes, and weather protection
 - b) discharge piping
 - c) piezometers
2. Upon completion of the proposed aquifer tests, results of the tests, and an evaluation of the results must be submitted to U.S. EPA and the WDEQ-WQD. U.S. EPA, the WDEQ-WQD and WRC will review the results to determine whether or not the proposed expanded recovery well system is operationally effective.

II of VI. Relating to Section II of WRC's Proposal

- A(1) WRC must develop and implement a program to monitor piezometers for depth to water and product (hydrocarbon) thickness measurements on a monthly basis. A potentiometric map must be developed monthly from these measurements to illustrate the cones of depression associated with each recovery well and to determine the operational effectiveness of the system. WRC must provide and report these measurement results, including the potentiometric surface map, to both U.S. EPA and the WDEQ-WQD.
- B(1) See comment I(1) above.
- B(2) See comment II(A)(1) above.
- B(3) Lithologic logs, slug test results, and an evaluation of the results must be submitted to U.S. EPA and the WDEQ-WQD.
- C(1) See comment I(2) above.
- C(2) See comment I(1) above.

III of VI. Relating to Section III of WRC's Proposal

A(1) All existing recovery wells must be retrofitted with totalizing flow meters. Following the initial sixty days, WRC must continue to report the following on a monthly basis:

- a) Hydrocarbon recovered
- b) Total (water and hydrocarbon) fluid volume recovered
- c) Pump rate (gpd)
- d) Year-to-Date recovered hydrocarbon
- e) Meter reading
- f) Depth to hydrocarbon
- g) Depth to water
- h) Hydrocarbon thickness
- i) Pump elevation
- j) Comments on visual observation of recovered fluid

A(2) Aquifer tests should be maintained as long as is necessary to reach equilibrium in the piezometers being monitored for the test.

A(3) The requirement of "shutting down large portions of the recovery system for some days" to conduct pump tests on the existing system is not necessary. In order to conduct the pump tests, U.S. EPA believes it will be necessary to shut down only the pumping wells directly adjacent to the well being tested. In addition, the period of time required for shut down prior to testing (about two to four days) should not create a detrimental effect to Cambria Creek. In the event containment at the perimeter is compromised, the french drain system located between the creek and the recovery line can be used as a backup system to capture any potential offsite migration.

B(2) See comment III(A)(2) above.

B(3) See comment I(2) above.

C See comment III(A)(1) above.

D See comment II(B)(3) above.

E "As-built" locations must be submitted upon completion of the survey.

F Individual copies must be provided to U.S. EPA and the WDEQ-WQD.

IV of VI. Relating to Section IV Of WRC'S Proposal

WDEQ-WQD will be given the opportunity to be present during all of the field operations, and to take any water or soil samples it desires from the new wells. WDEQ-WQD will be given a two week notification prior to the beginning of field operations.

PERMIT NO. 92-321

V of VI. Relating to Section V of WRC's Proposal

WDEQ-WQD will also be provided copies of all analytical results associated with the proposed monitoring/piezometer/recovery wells.

VI of VI. Standard WQD Piezometer (Monitoring Well) Construction 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 92-321. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Monitoring well construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials free of material having the potential to contaminate groundwater samples.
3. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
4. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
5. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
6. 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. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well shall be abandoned without prior approval from the Water Quality Division.
7. 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 using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
8. The applicant is responsible for obtaining any permits required by the State Engineers Office (777-7354).

9. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the nature and extent of the contamination.

10. 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. The borehole diameter shall be at least 4 inches larger in diameter than the casing diameter;
 - b. The screened interval shall extend at least 2 feet above the highest expected groundwater level and at least five feet below the lowest expected groundwater level. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to one foot above the screened interval;
 - e. A two foot (2') thickness of bentonite or bentonite grout is required from the top of the filter pack to one foot below surface to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement or a sand-cement grout. A protective casing shall be cemented into place when the upper foot of the annular space is completed with cement forming a concrete apron sloping away from the well;
 - f. Filter pack, annular seal, and surface seal material shall be entered into the well in a manner such that no voids or bridging occur;
 - g. A top and bottom cap of the same material as the well casing shall be installed to prevent sediment and surface water from entering the well;
 - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

PERMIT NO. 92-321

- i. All monitor wells shall be designed to contain a minimum of 3 feet of water at all times of the year.
11. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
12. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical-analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
13. Water which is collected during monitoring well development or sampling must be disposed of properly. The Applicant must contact the City for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.
14. The results of any fluid level monitoring and/or analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

KDF/nc 23888.LTR

cc: File: WRC/92-321
Randy Lamdin, U.S. EPA, Denver, CO



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

March 15, 1993

Mr. Bobby Smalley, Manager
Tristate Disposal Company
P.O. Box 1774
Evanston, WY 82931

RE: Tristate Disposal Company
Application: UIC 92-322, class I, non-hazardous
Uinta County, Wyoming

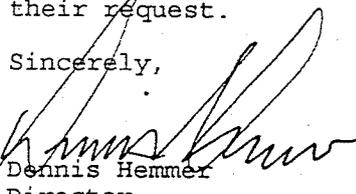
Dear Mr. Smalley:

On September 29, 1992 a review was sent to you concerning the above referenced application. That review noted that Tristate Disposal Company has never provided any documentation that it has a legal right to use the wells covered by the application. In addition, no data has been submitted in compliance with the financial surety requirements for this permit, and no data has been submitted concerning the organization of Tristate Disposal.

The review of September 29, 1992 dealt only briefly with the engineering aspects of this application. As submitted, it is doubtful that this permit could be granted.

It has now been over 6 months since this department received any submittal concerning this application. With this letter, the Department of Environmental Quality hereby denies the above referenced application. You are free to submit a new application when the property rights have been obtained to the well. Any new application must meet all of the requirements of Chapters VIII and XIII, Water Quality Rules and Regulations. Enclosed please find your entire submittal less one copy which was forwarded to the Oil and Gas Conservation Commission at their request.

Sincerely,


Dennis Hemmer
Director,
Department of Environmental Quality

DH/RL/bb/31700.LTR

Enclosure

cc: John Luchetta, P.E.
2020 Foothills Road
Golden, Colorado 80401

PERMIT TO CONSTRUCT

- [X] New
[] Renewal
[] Modified

Permit No. 92-323

Fishbaugh Spetic Tank/Leach Field
(Name of Facility)

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

George Fishbaugh

499 East River Road

Thermopolis, WY 82443

to construct a spetic tank/leach field according to the procedures and conditions of the application No. 92-323. The facility is located in NW/4 NW¼ Section 15, 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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

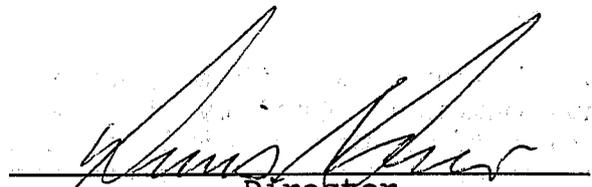
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10-16-92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-324

Grahm - Warpness Sewer Line
(Name of Facility)

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

City of Riverton

P.O. Box 1700

Riverton, WY 82501

to construct 185 L.F. of 8 inch sewer with manhole according to the procedures and conditions of the application No. 92-324. The facility is located in NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 34, T1N, R4E Wind River Meridian in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

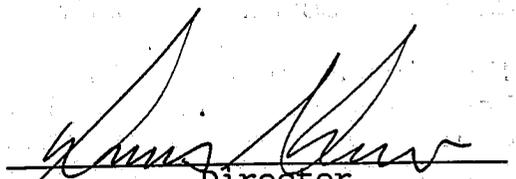
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

9-29-92
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

New

Permit No. 92-325R

Renewal

Modified

Brasel & Sims Waterline
(Name of Facility)

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

Brasel & Sims Construction Company

1290 North 2nd

Lander, WY 82520

to construct a 6 inch PVC waterline according to the procedures and conditions of the application No. 92-325R. The facility is located in Section 8, T33N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

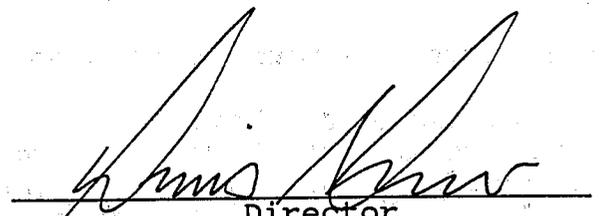
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10-29-92

Date of Issuance

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

JH/jyi

To:

PERMIT FILE 92-326

Evansville Water Tank and Transmission Main

From: Ron Ewald

Date: August 3, 1994

Subject: As-Built Plans and Specifications for Permit 92-326 as required by Special Condition 2 of 2, and response to deficiencies as noted in November 17, 1993 memo.

Remarks: Additional as-built plans and specifications for this project have been received (February 16, 1994) and reviewed by the DEQ Water Quality Division. The additional information received, along with the original information received on August 18, 1993, is sufficient to meet the requirements of special condition 2 of 2 which required that as-built drawings and specifications be submitted for verification of compliance with regulations.

This material is being sent to archive to be placed into permit file 92-326.

Summary: All Permit Conditions ARE SATISFIED!

cc: Archive File # 92-326
Owner - Town of Evansville
Engineer - John H. Hibsman, Hibsman & Associates
Don McKenzie - NE District Supervisor, WQD

92-326



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-5616	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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January 20, 1994

CERTIFIED

Town of Evansville
P.O. Drawer 158
Evansville, Wyoming 82636

RE: **Letter of Violation (LOV)** - Non submission of satisfactory As-Built plans as required by Permit To Construct # 92-326.

Dear Town of Evansville Official:

In January of 1993 a Permit To Construct (#92-326) was issued to the Town of Evansville to construct a water tank and transmission main. One of the conditions of this permit was that as-built drawings of the completed facilities be submitted. In August of 1993 the project engineer submitted what he said were as-built plans. However, after review by the WQD, these plans were found to be incomplete, unsatisfactory, and deficient. Please see copy of file memo attached which was sent to both the town and the engineer.

It has been over two months since the memo indicating that condition 2 of 2 was not satisfied was sent out. As of this date, no corrective response has been received by this office. Therefore, the Water Quality Division of the Wyoming Department of Environmental Quality is requesting that the following steps be taken by the Town of Evansville:

1. Within 30 days of receipt of this LOV the Town of Evansville submit a set of as-built plans which will satisfy the conditions and requirements of the permit.

Town of Evansville
January 20, 1994
Page 2

The Water Quality Division is attempting to resolve this violation through conference and conciliation. This letter does not constitute an order, but rather, identifies steps to be taken by the Town of Evansville to satisfactorily resolve this violation. The intent of this letter is to provide an opportunity for the Town of Evansville to show good faith efforts towards resolving this problem and to prevent the need for more formal enforcement action by this office.

If you should have any questions please call me at (307) 777-6183.

Sincerely,



Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

RLE/nc 40243.LTR

cc: Gary Steele, SE District WQD
Don McKenzie, NE District Supervisor WQD
Engineer, John H. Hibsman, Hibsman & Associates
Enforcement File

Enclosure: Copy of November 17, 1993 As-Built Memo

To: **PERMIT FILE 92-326**
(Evansville Water Tank and Transmission Main)

From: Ronald L. Ewald

Date: November 17, 1993

Subject: As-built plans and specifications for Permit 92-326 as required by Special Condition 2 of 2.

Remarks: The as-built plans for this project have been received (August 18, 1993) and reviewed by the DEQ Water Quality Division. The information received is insufficient to meet the requirements of Special Condition 2 of 2 which states:

"As-Built drawings and specifications of all aspects of this project, including the final specifications of the water tank, shall be submitted to this office within 60 days of completion of this project, to verify compliance with permit conditions and minimum design requirements."

Deficiencies include:

1. No final plan drawings or specifications for the water tank were submitted as required. Additionally, the Professional Engineer (and the company he works for) who did the actual tank design and details must be identified.
2. The tank overflow discharge system was obviously changed and the discharge location moved. However, no real details of this change or of the overflow discharge area were provided.
3. As-built or record drawings should give actual dimensions and actual construction details. There should be no comments or dimensions on as-built drawings which state: 1'-0" min, or 23'+ or -, or Min 3 Guide Bars, and so on. The actual final details and dimensions should be indicated.

This material is being sent to archive to be placed into permit file 93-326.

Summary: Condition 2 of 2 is Not Satisfied!

cc: Archive File 93-326
Owner - Town of Evansville
Engineer - John H. Hibsman, Hibsman & Associates
Don McKenzie - NE District Supervisor / WQD

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-326
SPECIAL CONDITIONS

Evansville Water Tank and Transmission Main

This permit hereby authorizes the applicant:

Town of Evansville
P.O. Drawer 158
Evansville, Wy. 82636

to construct, install or modify a water tank and water transmission main according to the procedures and conditions of the application number 92-326. The facility is located in NE 1/4 Section 12 T33N R79W 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 Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

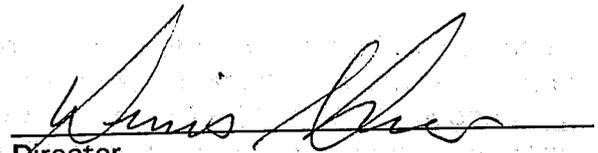
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

1-20-93

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 2. As required by Chapter XII, Section 13,(a),(vi) of the Water Quality Rules and Regulations the outflow of the overflow shall be brought down to an elevation between 12 and 24 inches above the ground, and discharge over a drainage inlet structure or splash plate. The discharge from this overflow pipe shall be visible.
- 2 of 2. **As-Built** drawings and specifications of all aspects of this project, including the final specifications of the water tank, shall be submitted to this office within 60 days of completion of this project, to verify compliance with permit conditions and minimum design requirements.

COMMENT:

These plans indicate that the new 18" line is to be connected to an existing downstream 12" line. This line should be enlarged or enhanced at the earliest possible time so as to be compatible with the capacity of the new 18" line. It appears that this old 12" line will temporarily be adequate as long as no additional new services are added to this line. The

PERMIT NO. 92-326

upgrading of this line is not a requirement of this permit, and this comment is only meant to serve as a precautionary warning of potential future difficulties if this situation is not adequately addressed.

RLE/mad 30201.LTR

cc: Don Mckenzie, Northeast District Supervisor
Mike Besson, Water Development Commission



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

November 23, 1992

Grant Glazier, Chairman
Vista West - Westgate Park
Improvement and Service District
2038 Piney Creek
Casper, Wyoming 82604

RE: Federal Sewage Works Grant C560281-94; Vista West/Westgate Park Wastewater Collection System - WQD Permit Number 92-327

Dear Mr. Glazier:

The preliminary plans and specifications for the above referenced project have been reviewed by the Department of Environmental Quality, the Department of Fire Prevention and Electrical Safety, and the Wyoming OSHA. Due to the uncertainty of this project and the possibility that the project size may decrease, an accurate eligibility determination needs to be completed. The user charge should reflect an accurate eligibility determination to ensure the affordability of the project. Eligible project costs indicated in the grant award were based on preliminary estimates of facilities to meet current needs (copy enclosed). Final determination of the eligible grant amount will be made after the bid opening, at which time the Total Assistance Amount will be adjusted to reflect the eligible project costs.

All comments are presented below:

DESIGN REPORT

A final design criteria report shall be prepared and submitted along with the bidding documents. The facility plan does not represent the final design criteria and cannot be substituted for the final design report. Section 6 of the Water Quality Rules and Regulations, Chapter XI, requires that an engineering design report be included for each project.

PLANS

1. The legend for this set of plans has not been included on Sheet 2.
2. Chapter XI, Section 7, b, (ii), requires pipe material be shown on the profile.
3. The slope between MH #7 and MH #8, on Sheet 6, should be 2.1737% to produce an invert of 65.28 at MH #8.
4. Chapter XI, Section 7, b, (ii), requires that profiles of all sewer lines shall be shown on the same sheet as the plan view.
5. The identification and the number of trees requiring removal is not shown on Sheet 9.
6. Reference points and baselines for establishing the location of the sewer lines, and other appurtenances, in horizontal curves, are not shown on the drawings.
7. The station for the bend at approximate Sta. 40+25 S is not shown on the plan view on Sheet 22.
8. Several references to brand names are made without the "or equal" statement or listing of several approved brands. Some specific examples include Tyler pipe cast iron valve box No. 6895-1, Tyler pipe cast iron valve box 6855, Houston wire and cable B1CC 424-UN02 cable seal, and Fernco flexible coupling.
9. The profiles for all future extensions have not been provided. The pressure sewer profile from Station 26+20 to Station 26+42 is not shown on Sheet 6.
10. The profile of the Casper Alcova Irrigation Ditch is not shown on the profile sheets at all locations where the pressure sewer crosses the irrigation ditch. Some specific locations are Sta. 9+80, Profile A, Sheet 35; Sta. 0+15, Plan A, Sheet 8; Sta. 39+80, Profile A, Sheet 43; and Sta. 92+92 S, Profile A, Sheet 44.
11. The profile depicts the pressure sewer to be set at a constant depth of six feet. Several locations are at a greater depth with no design information as to location, constant grade, and elevation. Is the pressure sewer to be constructed at a constant depth of six feet throughout the entire project?
12. The station location of all special features is not shown on the profile view. Not all appurtenances are shown on the profiles. Station locations and size of appurtenances shown on the plan view do not correspond to station locations and size shown on the profiles. Some specific examples include: the 4" gate valve at Sta. 51+86 (Sheet 19) is not shown on the profile (Sheet 37); the 4x4x4 tee at Sta. 64+14 on the plan view (Sheet 19) is shown at Sta. 64+75 on the profile (Sheet 37); Profiles A and B on Sheet 39 have 3" gate valves on a two inch pressure sewer; the cleanout at Sta. 33+28 on Profile C, Sheet 40 is shown at Sta. 33+38 on the plan view (Sheet 16). These are just a few examples and are not all inclusive.

13. Manhole steps shall be continuous to the surface.
14. Pressure vault requires ladder access for entry.

PHASE I SITE PLANS

1. The pages need to be numbered and a Table of Contents provided.
2. The match lines do not provide cross reference to the project plans.
3. Site plans should list homeowner's name, phone number, contact person and any valuable information which may aid the contractor.

SPECIFICATIONS

1. Insert the date until sealed bids will be received in the Advertisement for Bids.
2. List the non-refundable charge per set of plans in the Advertisement to Bid.
3. The work force goals for minorities and women should be stated in the advertisement to bid (page AB-2, paragraph 6) instead of referring to the "Notice of Requirements" contained in the EPA Supplemental General Conditions. The Goals for this project are 7.5% Minority and 6.9% Female.
4. Insert the date and time for the pre-bid meeting.
5. A 45 day advertisement period is recommended if all written requests for substitutions will be required at least fourteen days prior to the receipt of bids. Allowing only 14 days prior to the bid opening date for evaluation of proposed substitutes or "or Equal" items would be unduly restrictive. This must be avoided. EPA policy is to promote competition. A greater advertisement length is necessary to allow time for review and approval of proposed substitute equipment and material.
6. Section 16.3 states that the owner reserves the right to limit the scope of the project to the monies available for the project. If required, the project scope will be reduced by deleting portions of the work. Section 16.6 states that the low bid shall be determined based on evaluation of the Total Base Bid. The Instructions to Bidders does not specify a clear explanation on the method of evaluations of bid prices and Contract Award in the event that portions of the work are deleted.
7. Prior EPA approval is required in order to reject any or all bids.
8. The contract drawings consist of only 45 sheets bearing the VISTA WEST-WESTGATE PARK WASTEWATER COLLECTION SYSTEM PHASE I title.

9. The Labor and Material Payment Bond and the Performance Bond both state that "shall in any wise release it from".
10. Section 2.3 of the General Conditions states that in no event will the contract time commence to run after the 75th day after the bid opening. The bid will remain in effect for 60 days. The bidder will sign the Agreement and submit the bonds and other documents within 30 days after the Owner's Notice of Award. The number of days needs to be consistent.
11. Service pipe materials, ASTM D2665 Schedule 40, and ASTM 2661 ABS sewer pipe are not approved pipe material. Pipe materials shall be pipe materials as approved in Water Quality Rules and Regulations, Chapter XI. The specifications should reflect approved pipe materials or a waiver must be requested with documentation and justification which substantiates that the substitute pipe materials meet the minimum intent of the above referenced standards.
12. Chapter XI of Water Quality Rules and Regulations approves PVC, ASTM D2241-80 or AWWA C900; Asbestos cement, AWWA C400-80; Ductile iron, AWWA C151-81; or Glass fiber reinforced, AWWA C950-81; for pressure sanitary sewer systems. The specifications should reflect approved pipe materials or a waiver must be requested with documentation and justification which substantiates that the proposed substitute pressure pipe materials will meet the minimum intent of the regulations.
13. Any additional cost incurred due to inclusion of extended warranty periods is not eligible for EPA participation. Costs for extended warranties beyond the traditional one year period (but not beyond the 1-year performance period) are grant eligible if the costs are reasonable and necessary for ensuring achievement of an affirmative certification. An additional bid item, for the extended 10 year period, for the access door to the vault must be included or change the requirement back to the traditional one year period.
14. Any additional cost due to additional warranty requirements and extended warranty periods are not eligible for EPA participation. Costs for extended warranty periods beyond the traditional one year period (but not beyond the 1-year performance period) are grant eligible if the costs are reasonable and necessary for ensuring achievement of an affirmative certification. An additional bid item, for the extended 5 year unlimited warranty period, for fiberglass tanks must be included or change the requirement back to the traditional one year guarantee against material defects.
15. EPA will not pay for a design or product that exceeds the minimum performance needs of the project. If a supplier offers equipment which is able to perform adequately but does not conform to the warranty specification, this demonstrates that the specifications are too strict. If it eliminates even one supplier unnecessarily, it is unduly restrictive.
16. The location of the thrust block detail referred to in section 402.04, A, 2, (a), page 25, paragraph 5 has been left out.

VARIANCES

1. The velocity of the pressure sewers will at times be zero, therefore, no further information is required for a variance from Part B, Section 9, c., (ii), (C) of Water Quality Rules and Regulations.
2. Electricals wiring and controls must assure a safe installation in compliance with the N.E.C..
3. Pig Ports have been provided to allow pigging only in 4" and 6" lines. What method will be used for pig retrieval? Is the 6" pig port at the downstream end of the 6" pressure sewer shown on the Aerator Detail to be used for pig retrieval? Will a 6" pig be able to pass through a resilient gate valve? Will a pig be able to pass through the junction at Station 39+07 Mainline?
4. The pressure sewer varies from the minimum six foot depth at culvert, irrigation ditch, and/or other utility crossings in accordance with the detail on Sheet 29. The configuration at these locations must be looked at for air release valve considerations. On what basis do you believe that air release facilities are unnecessary? Are the summits and sags resulting from the ditch and utility crossings hydraulically insignificant in regards to the air at the summits. Please provide a hydraulic analysis to verify that these variations in the profile are not hydraulically detrimental and that air release facilities are not necessary.

ELIGIBILITY

The project costs considered eligible on this project are those costs of the facilities to meet current needs. Any oversizing is not eligible. Only the size of pipe to serve existing needs is considered eligible. The several stub outs for future expansion are not eligible. Step systems for houses constructed after December 27, 1977 are not eligible for federal funding. Separate bid items will be required for those portions of the contract which are not eligible for federal funding. Additional information is necessary to provide an accurate eligibility determination. A subdivision plat with the dates of construction of buildings to receive STEP systems is needed.

Attached you will find EPA policy on determining eligibility on pressure sewers. The eligibility determination provided in the grant award is only an estimate and was determined from construction estimates to meet current needs submitted with the grant application. Grant funds cannot be reimbursed until an accurate eligibility determination has been made.

The additional information, the revised plans and specifications, the user charge system, and the draft sewer use ordinance must be submitted for review and approval. When revised contract documents are submitted, the Engineer shall in writing, direct specific attention to all revisions and shall list separately any revisions made other than those called for. The plans and specifications shall be approved before advertising for bids. Special Condition Number 6 of the Grant Agreement states, "The Grantee agrees not to advertise the project for bids until plans and specifications, sewer use ordinance and user charge system (including proposed rate methodology) have been approved by the state. Failure to comply with any condition set forth in the assistance agreement may result in a limitation on allowable costs or the imposition of sanctions.

Grant Glazier
November 23, 1992
Page 6

Please contact me at 777-7077 should you have any questions or comments.

Sincerely,

Mark A. Escobedo

Mark A. Escobedo
Program Principal
Water Quality Division

MAE/jn - 24393.ltr

Enclosure

cc: CEPI, Casper
Grant File

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-328
SPECIAL CONDITIONS

Round Top Water Treatment Plant Septic System

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P.O. Box 1469
2100 Pioneer Avenue
Cheyenne, Wyoming 82003

to construct, install or modify a domestic waste septic system according to the procedures and conditions of the application number 92-328. The facility is located in NE 1/4 Section 16 T14N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

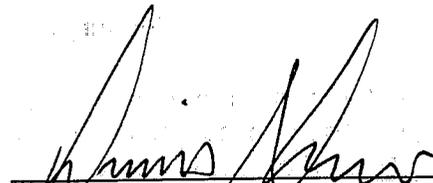
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

1-26-93

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6. This system is approved for the disposal of domestic quality bathroom and sink wastes only. Any wastes or solvents from laboratory operations or wastes from any other commercial or industrial activities SHALL NOT be disposed of into this system.
- 2 of 6. The manholes on the septic tank (one on each compartment) must be extended to the surface because there are no clean-outs included on Vaughn Concrete Products septic tanks as required.
- 3 of 6. A Distribution Box (D-Box) is required to be included in the system. The D-Box shall be located between the septic tank and the leach lines to ensure equal distribution of the effluent to each leach line.

PERMIT NO. 92-328

- 4 of 6. Trench Construction Details: Because this system is to be constructed in an area with a surface slope of approximately 8% the leachfield lines shall be constructed in either a sidehill or tiered configuration. Whichever configuration is used, the trench construction and layout shall meet the following conditions:
- a) Total trench depth shall be a minimum of 2 feet to a maximum of 4 feet.
 - b) All sections of perforated pipe shall be laid level. (Within 3" per 100 linear feet)
 - c) A minimum of 410 linear feet of perforated pipe shall be installed as per the design submitted.
 - d) No four-way cross connectors shall be used at any point in the distribution piping system. If such an arrangement is needed, it shall be accomplished by using 2 Tee connectors connected together.
- 5 of 6. The permittee shall notify the Laramie County Environmental Health Division at least two (2) days prior to installation of this system to arrange for required inspections. Inspection of the installed system is required prior to backfilling. Laramie County Environmental Health charges a fee for these inspection services. Their offices are located at 1700 Snyder Avenue, Cheyenne, Wyoming 82001; or they can be reached by phone at (307) 638-4209.
- 6 of 6. Upon request and notification by DEQ personnel the operator of this facility shall allow access to DEQ personnel for sampling of the septic tank contents to verify compliance with the above listed conditions. This requirement is based on Wyoming Statute 35-11-303(a)(i) of the Wyoming Environmental Quality Act which states:
- "(a) In addition to other duties imposed by law, the administrator of the water quality division at the direction of the director:
 - (i) May conduct on site compliance inspections of all facilities and works during or following the completion of any construction, installation or modification for which a permit is issued under W.S. 35-11-301(a)(iii) or (v);".

RLE/jn - 30310.ltr

cc: Laramie County Environmental Health Division
1710 Snyder Ave., Cheyenne, WY 82001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-329
SPECIAL CONDITIONS

A AND I - FACILITIES MANAGEMENT MONITORING WELLS

This permit hereby authorizes the applicant:

State of Wyoming, A & I Facilities Management
801 West 20th
Cheyenne, WY 82002

to construct, install or modify a system of environmental monitoring wells according to the procedures and conditions of the application number 92-329. The facility is located in SW1/4SW1/4 Section 31, T14N, R66W, 6th P.M. in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

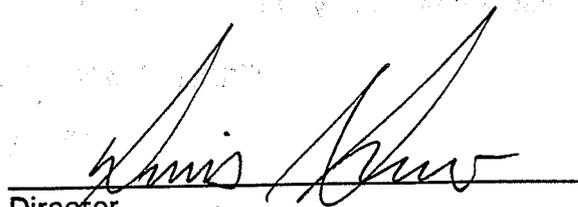
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

9-30-92

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 11. 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 92-329. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 11. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 3 of 11. 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 WQD.
- 4 of 11. 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 using either a stamp to permanently engrave

PERMIT NO. 92-329

the number into the steel top or by writing the number in the wet concrete of the base.

- 5 of 11. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the extent of the contamination.
- 6 of 11. 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. The borehole diameter shall be at least 4 inches larger in diameter than the casing diameter;
 - b. The screened interval shall extend at least 2 feet above the highest expected groundwater level and at least 5 feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;
 - c. If PVC casing is used, the casing shall be installed using mechanical connectors without the use of solvents or glues to hold the casing sections together. This mechanical connection may use set screws, threads, or other types of couplings;
 - d. To minimize the entrance of fine grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - f. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - g. A seal of bentonite or bentonite grout is required from the surface to a foot or 2 above the top perforation. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. Protective casing shall be cemented into a sloping concrete cap; and
 - h. All monitor wells shall be designed to contain a minimum of 3 feet of water at all times of the year.
- 7 of 11. DEQ/WQD personnel shall be given at least 24 hours notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.

PERMIT NO. 92-329

8 of 11. Within 90 days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:

- a. A chronology of events leading up to the investigation;
- b. A site map showing the physical features, well locations and sea level elevations;
- c. The permittee shall provide the exact latitude and longitude or the exact state plane coordinate for each of the monitor wells being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude;
- d. Final location, construction details and logs of monitor wells;
- e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
- f. Water level and product thickness measurements;
- g. Sample collection procedures;
- h. Sampling analytical results;
- i. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
- j. A potentiometric surface map showing the direction of groundwater movement; and
- k. Interpretation of the data and conclusions including recommended remedial measures.

9 of 11. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

10 of 11. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters:

- a. Cadmium using EPA 200 series methods;
- b. Lead using EPA 200 series methods;
- c. Chromium using EPA 200 series methods;

PERMIT NO. 92-329

- d. Benzene using EPA Method 502.2;
- e. Ethylbenzene using EPA Method 502.2;
- f. Toluene using EPA Method 502.2;
- g. Total Xylenes using EPA Method 502.2;
- h. Methylene Chloride using EPA Method 502.1;
- i. Trichloroethene (TCE) using EPA Method 502.1;
- j. Tetrachloroethene (PCE) using EPA Method 502.1;
- k. 1,1,1-Trichloroethane (TCA) using EPA Method 502.1;
- l. 1,1-Dichloroethane (DCA) using EPA Method 502.1;
- m. 1,2-Dichloroethane (DCA) using EPA Method 502.1;
- n. 1,2-Dichloroethene (DCE) using EPA Method 502.1;
- o. 1,2-Dichloropropane (DCP) using EPA Method 502.1;
- p. Chlorobenzene using EPA Method 502.1;
- q. 1,2-Dichlorobenzene using EPA Method 502.1;
- r. 1,3-Dichlorobenzene using EPA Method 502.1;
- s. After the first monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the first monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring;
- t. The results of these analyses shall be submitted to the Cheyenne 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 September, 1992; and

11 of 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. 92-330R

Gun Barrel Steakhouse
(Name of Facility)

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

Dan W. Cook IV

P. O. Box 8102

Jackson, WY 83001

to construct a 6 inch diameter sewer and 4 inch diameter DIP water main according to the procedures and conditions of the application No. 92-330R. The facility is located in SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 33, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

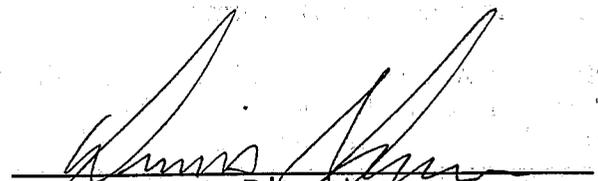
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

11-25-92

Date of Issuance

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

JH/jyi



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

RECEIVED

OCT 05 1992

WATER QUALITY DIVISION
WYOMING



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6724	WATER QUALITY (307) 332-3144
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September 30, 1992

Clarence Kemp, P.E.
Forsgren Associates
849 Front Street, Suite #201
Evanston, WY 82930

RE: Medicine Lodge Archeological Site/Campground Water System
DEQ Ref. No. 92-331

Dear Clarence:

The water system proposed for the referenced site has less than 20 service connections and, therefore, does not meet the Department of Environmental Quality, Water Quality Division (DEQ/WQD) definition of a public water supply. As a result, the DEQ/WQD does not need to permit the plans and specifications.

The plans are hereby returned to you and the application for a permit canceled. Call if you have questions.

Sincerely,

Jeff Hermansky
Jeff Hermansky, P.E.
Water Quality Evaluator

JH/jyi
xc: IPS, Cheyenne
file (2)

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-332
* CONDITIONED *

Jackson Hole Christian Center
(Name of Facility)

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

Jackson Hole Christian Center

3205 West Big Trails Drive

Jackson, WY 83001

to construct a 6 inch sewer with manholes and 1000 gallon sedimentation tank according to the procedures and conditions of the application No. 92-332. The facility is located in NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 18, T40N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (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 insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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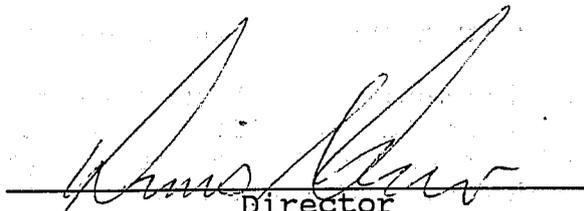
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10-16-92

Date of Issuance

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

JH/jyi

* CONDITION *

This permit is issued with the requirement that the owner measure the sludge level in the settling tank on a yearly basis. Pumping is required when the sludge level reaches two (2) feet deep.

PERMIT TO CONSTRUCT

New

PERMIT NO. 92-333

(See Attached Special Conditions)

Renewal

Modified

WYODAK ASH POND GROUNDWATER MONITORING WELLS

(Name of Facility)

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

Pacific Power & Light
48 Wyodak Road
Gillette, Wyoming 82716

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application No. 92-333. The facility is located in NE/NE Section 28, Township 50 North, Range 71 West, in the County of Campbell in the State of Wyoming. This permit shall be effective for a period of two (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: State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

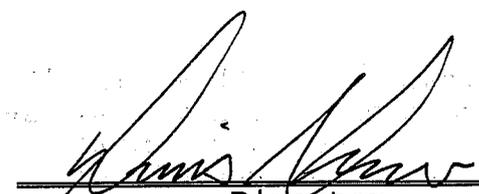
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10-22-92

Date of Issuance

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

SCF:10/20/92:pr/nc

Special Conditions to Permit Number 92-333
Wyodak Ash Pond Groundwater Monitoring Wells

- 1 of 16. 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 92-333. 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 of 16. Monitoring well construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations (WQRR). Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials which have no potential to contaminate groundwater samples.
- 3 of 16. All downhole equipment shall be decontaminated between wells and/or borings to minimize the potential for cross-contamination.
- 4 of 16. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 5 of 16. Pursuant to WQRR, 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.
- 6 of 16. 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 WQRR. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well shall be abandoned without prior approval from the WQD.
- 7 of 16. 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 using either a stamp to permanently engrave the number into the top or by writing the number in the concrete apron prior to curing.
- 8 of 16. The applicant is responsible for obtaining any Permits required by the State Engineers Office (777-7354).

Special Conditions to Permit Number 92-333
Wyodak Ash Pond Groundwater Monitoring Wells (Continued)

- 9 of 16. 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.
- 10 of 16. 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. The borehole diameter shall be at least four inches larger in diameter than the casing diameter.
 - b. If more than one water bearing zone is expected or encountered during drilling, provisions must be made to avoid inter-aquifer communication. Any drilling technique used other than proposed in the application must be approved by the WQD prior to implementation.
 - c. The screened interval shall extend at least two 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, the casing shall be installed using threaded joints, couplings, or mechanical connectors. 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. The filter pack shall extend to one foot above the screened interval;
 - f. A bentonite or bentonite grout (minimum two foot thickness) is required from the top of the filter pack to one foot below the ground surface to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. The remaining one foot

Special Conditions to Permit Number 92-333
Wyodak Ash Pond Groundwater Monitoring Wells (Continued)

- of annular space shall be sealed with Portland cement or a sand-cement grout. A protective casing shall be cemented into place with the concrete apron sloping away from the casing;
- g. Filter pack, annular seal, and surface seal material shall be placed in the well in a manner such that bridging or voids will not occur;
 - h. A top and bottom cap of the same material as the well casing shall be installed to prevent sediment and surface water from entering the well;
 - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - j. All monitor wells shall be designed to contain a minimum of three feet of water at all times;
- 11 of 16. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
- 12 of 16. 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. The permittee shall provide the exact latitude and longitude for each of the monitor wells being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude.
 - d. Final location, construction details and logs of all monitoring wells;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;

Special Conditions to Permit Number 92-333
Wyodak Ash Pond Groundwater Monitoring Wells (Continued)

- h. Sampling analytical results;
- i. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
- j. A potentiometric surface map showing the direction of groundwater movement; and
- k. Interpretation of data and conclusions including recommended remedial measures.

13 of 16. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

14 of 16. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the following listed parameters:

Nitrate as N	Cadmium
Nitrite as N	Chromium
Oil & Grease	Magnesium
Sulfate	Chloride
Carbonate	Bicarbonate
Total Dissolved Solids	Ammonia
Specific Conductance	Selenium
pH	Alkalinity
Aluminum	Iron
Zinc	Copper

The results of these analyses shall be submitted to the Sheridan office in the report due in 90 days. From two consecutive sampling events, the sampling schedule and/or parameter list may be amended.

15 of 16. Water collected during monitoring well development or sampling must be disposed of properly. The Applicant must contact the appropriate agency prior to disposal.

16 of 16. 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: GPC Section Supervisor, Cheyenne

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-334
SPECIAL CONDITIONS

Hough Duplex Septic System

This permit hereby authorizes the applicant:

K. F. Hough
1016 Southwest Dr.
Cheyenne, Wy. 82007

to construct, install or modify a Residential Duplex Septic System according to the procedures and conditions of the application number 92-334. The facility is located in NW 1/4, Section 12, T13N, R67W in the county of Laramie, 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.

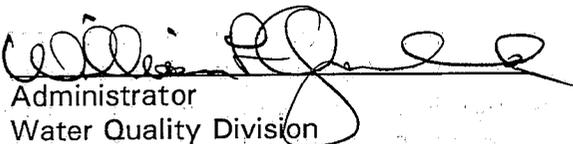
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

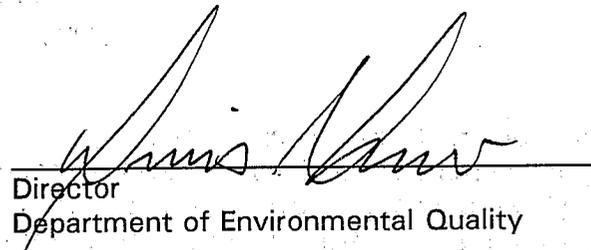
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

11/5/92
Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 3. The old leach field shall be physically disconnected from the system at the septic tank.
- 2 of 3. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater collection and treatment system. The 201 Facilities Plan Final Report: City of Cheyenne, South Cheyenne Water and Sewer District, and Laramie County requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be properly abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan.
- 3 of 3. The permittee shall notify the Laramie County Environmental Health Division at least two (2) days prior to installation of this system to arrange for required inspections. Inspection of the installed system is required prior to backfilling. Laramie County Environmental Health charges a fee for these inspection services. Their offices are located at 1710 Snyder Avenue, Cheyenne, Wyoming 82001; or they can be reached by phone at (307) 638-4209.

RLE//bb/24092.ltr

cc: Laramie County Environmental Health Division
1710 Snyder Ave., Cheyenne, Wy. 82001

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-335
SPECIAL CONDITIONS

Coastal Chem, Inc. Wastewater Pond #5

This permit hereby authorizes the applicant:

Coastal Chem, Inc.
P.O. Box 1287
Cheyenne

to construct, install or modify a completely lined wastewater pond with a leak detection system according to the procedures and conditions of the application number 92-335. The facility is located in Section 16 NW1/4SW1/4, T13N, R67W in the county of Laramie, 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: Program Supervisor, UIC Section, 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.

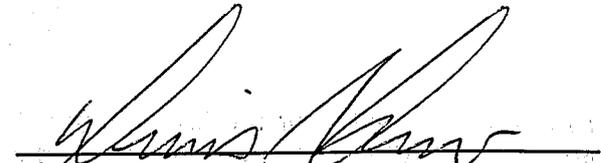
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10-16-92

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 2. Coastal Chem shall perform one compressive strength test for each 9 cubic yards of concrete used in this project. According to the manufacturer, this is a valid method of insuring that the Corrocem additive is properly mixed. Proper mixing is imperative for proper performance of this product. Concrete not meeting a minimum of 3,000 psi at 28 days shall be replaced.
- 2 of 2. Coastal shall check the leak detection system a minimum of once per month and shall keep records of the dates and results of these checks. In the event that a leak is detected during one of these checks, Coastal shall notify the Water Quality Division within 24 hours by telephone and follow this report up with a written report within 7 days. The written report shall include a description of measures taken to repair the leak, the cause of the leak and any corrective measures to recover the spilled material.

RFL/nc 23707.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-336
SPECIAL CONDITIONS

Rabbit Row Repair Monitoring Wells

This permit hereby authorizes the applicant:

Rabbit Row Repair
1755 Teton Village Road

Wilson, Wyoming 83014

to construct, install or modify a system of environmental monitoring wells according to the procedures and conditions of the application number 92-336. The facility is located in NW1/4NE1/4 Section 23, T41N, R117W, 6th P.M. in the county of Teton, 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: Program Supervisor, UIC Section, 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.

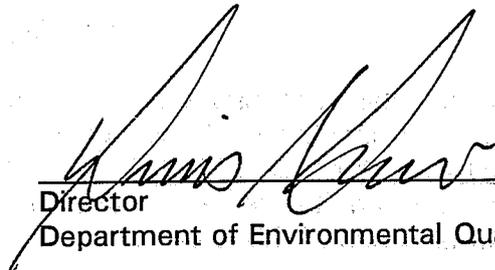
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

10/8/92

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 10. 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 92-336. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 10. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 3 of 10. 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 WQD.

PERMIT NO. 92-336

- 4 of 10. 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 using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 5 of 10. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the extent of the contamination.
- 6 of 10. 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. The screened interval shall extend at least 2 feet above the highest expected groundwater level and at least five feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;
 - b. If PVC casing is used, the casing shall be installed using mechanical connectors without the use of solvents or glues to hold the casing sections together. This mechanical connection may use set screws, threads, or other types of couplings;
 - c. 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;
 - d. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - e. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - f. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. After the bentonite has been placed in the annular space, it shall be hydrated to insure an proper seal. Protective casing shall be cemented into a sloping concrete cap; and
 - g. All monitor wells shall be designed to contain a minimum of 3 feet of water at all times of the year.
- 7 of 10. Within 90 days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:

PERMIT NO. 92-336

- a. A chronology of events leading up to the investigation;
 - b. A site map showing the physical features, well locations and sea level elevations;
 - c. The permittee shall provide the exact latitude and longitude or the exact state plane coordinate for each of the monitor wells being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude;
 - d. Final location, construction details and logs of monitor wells;
 - e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
 - f. Water level and product thickness measurements;
 - g. Sample collection procedures;
 - h. Sampling analytical results;
 - i. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - j. A potentiometric surface map showing the direction of groundwater movement; and
 - k. Interpretation of the data and conclusions including recommended remedial measures.
- 8 of 10. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
- 9 of 10. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters:
- a. Total Phenolic Hydrocarbons using EPA Method 420.1;
 - b. Arsenic using EPA 200 series methods;
 - c. Cadmium using EPA 200 series methods;
 - d. Purgeable Aromatic and Halogenated Hydrocarbons using EPA Method 624;
 - e. Total Dissolved Solids using EPA Method 160.1;

PERMIT NO. 92-336

- f. After the first monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the first monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring; and
- g. The results of these analyses shall be submitted to the Cheyenne 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, 1993.

10 of 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.

RFL/mad 23582.LTR

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-337R

Basin, South 5th Street Waterline Replacement
(Name of Facility)

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

Town of Basin

P.O. Box 599

Basin, WY 82410

to install a 6 inch PVC water main to replace an existing cast iron main according to the procedures and conditions of the application No. 92-337R. The facility is located in SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 21, 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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

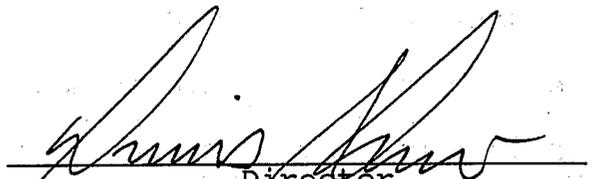
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

11/5/92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-338R

Best Western Motel
(Name of Facility)

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

Jerry Johnson

P.O. Box 328

Teton Village, WY 83025

to construct 120 LF of 6 inch diameter D.I.P. water line and 112 LF of 8 inch diameter PVC sewer according to the procedures and conditions of the application No. 92-338R. The facility is located in SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 33, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (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 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.

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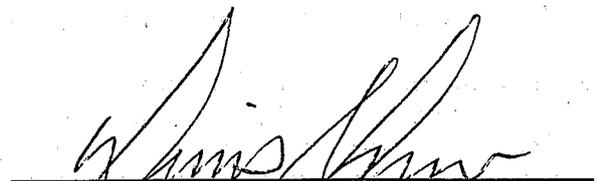
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10/26/92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-339RR

Line Shack Septic System
(Name of Facility)

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

Hollis Arrendale

27 Stoney Point Road

Dubois, WY 82513

to construct two septic tank/leach field systems for a motel and motel/restaurant according to the procedures and conditions of the application No. 92-339RR. The facility is located in NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 27, T.42N., R.108W. in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

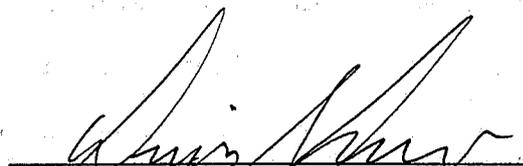
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

11/12/92

Date of Issuance

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

JH:mam

PERMIT TO CONSTRUCT

New

PERMIT NO. 92-340

Renewal

SEE SPECIAL CONDITIONS

Modified

BLACK THUNDER MINE 27-BP-1 RESERVOIR

(Name of Facility)

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

Thunder Basin Coal Company

P.O. Box 406

Wright, WY 82732

to construct, install or modify a storage pond for pit pumpage according to the procedures and conditions of the application No. 92-340. The facility is located in NW/4 NE/4 Section 27, Township 43 North, Range 70 West in the County of Campbell in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

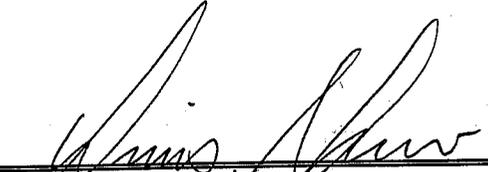
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

6/15/93

Date of Issuance

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


DRM/pr:06/08/93

PERMIT CONDITIONS

1 of 1 As-built drawings shall be submitted to the DEQ/WQD Sheridan District Office once construction is complete.

PERMIT TO CONSTRUCT

New

PERMIT NO. 92-341

Renewal

Modified

SUNDANCE 21ST STREET WATER MAIN
(Name of Facility)

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

Town of Sundance
213 Main Street
Sundance, WY 82729

to construct, install or modify a 6-inch PVC water main to service existing residences according to the procedures and conditions of the application No. 92-341. The facility is located in SE/4, Section 12, Township 51 North, Range 63 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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

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

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

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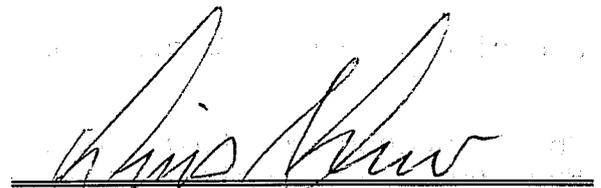
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10/26/92

Date of Issuance

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

^{DEM}
DRM/pr:10/15/92

PERMIT TO CONSTRUCT

New

Permit No. 92-342

Renewal

Modified

Millward Street Townhomes
(Name of Facility)

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

Allen Budge

P.O. Box 1465

Jackson, WY 83001

to install 142 LF, 6 inch diameter sewer and manholes according to the procedures and conditions of the application No. 92-342. The facility is located in SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 33, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (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 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

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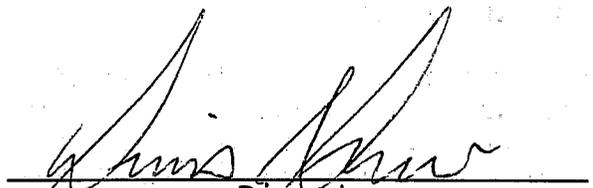
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10/26/92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

New

Permit No. 92-343R

Renewal

Modified

Water Main Replacement, Block 11, Evans Addition
(Name of Facility)

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

City of Worland

P.O. Box 226

Worland, WY 82401

to install a 6 inch diameter ASTM D2241 SDR21 PVC water main to replace an existing 4 inch CIP according to the procedures and conditions of the application No. 92-343R. The facility is located in SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 30, T47N, R92W in the County of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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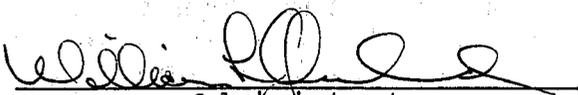
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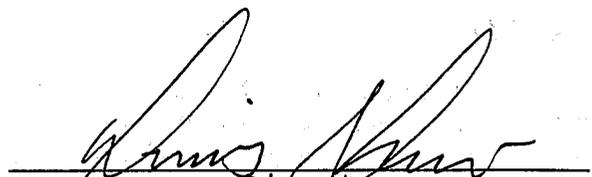
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

11/5/92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

New

Permit No. 92-344R

Renewal

Modified

North Muddy String Waterline Upgrade
(Name of Facility)

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

Star Valley Ranch Association

P.O. Box 159

Thayne, WY 83127

to replace 200 LF of existing steel pipeline with new construction 6" PVC according to the procedures and conditions of the application No. 92-344R. The facility is located in S30 and S19, T35N, R118W in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (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.

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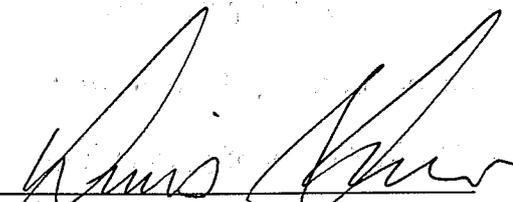
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AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality

11-16-92
Date of Issuance

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

RRT:fi



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
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October 8, 1992

Gertsch/Baker and Associates, Inc.
307 Grand Ave.
P.O. Box 880
Laramie, Wyoming 82070

RE: Preliminary Review of plans submitted for Big Horn Lumber Water Line Extension. DEQ reference number 92-345. **Incomplete Application - Not Authorized for Construction**

Gentlemen:

All that came in for this project was a blueprint (3 copies) and a very brief cover letter. Before we can review this project you need to submit the following:

1. An official application signed by the owner (application enclosed).
2. An engineering design report, in addition to plans and specifications, must be submitted. This report should include a description of the project, design parameters such as flows and pressures and how they were arrived at, details of the fire hydrant assemblies, and any other pertinent information. Refer to Chapter XII, Sections 6 and 7 of the Wyoming DEQ Water Quality Rules and Regulations to see what types of information should be included.
3. All submittals should be in triplicate.

As mentioned above, we will not be able to start the review process on this project until we receive the materials listed above. If you have any questions, please call me at 777-6183.

Sincerely,

Ronald L. Ewald
Engineering Evaluator
Water Quality Division / SE District

RLE/nc 23671.LTR

Enclosure: "Permit To Construct" Application

October, 1992
CLEAN WATER MONTH

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-345

Big Horn Lumber - Water Line Extension

This permit hereby authorizes the applicant:

Big Horn Lumber
1100 South Pine St.
Laramie, Wyoming 82070

to construct, install or modify a water distribution line extension according to the procedures and conditions of the application number 92-345. The facility is located in NE 1/4 Section 05 T15N 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.

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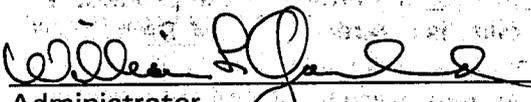
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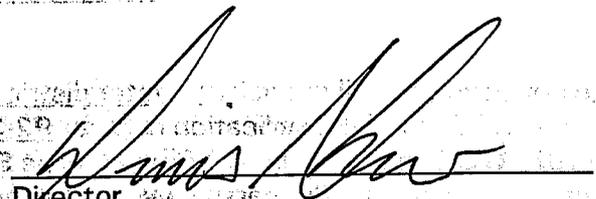
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

12-17-92

Date of Issuance

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

RLE/nc 24628.LTR

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-346

Dixon Septic Tank/Leach Field
(Name of Facility)

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

Lyle R. Dixon
Rt. 1, Box 51C
Basin, WY 82410

to construct a septic tank/leach field according to the procedures and conditions of the application No. 92-346. The facility is located in Section 21, 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 from the date of issuance of this permit.

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

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

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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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

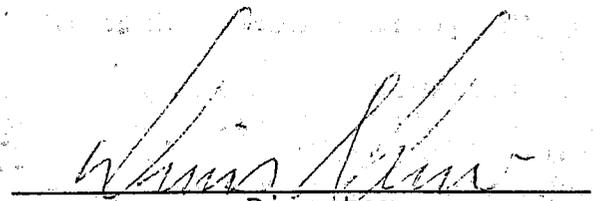
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AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

10/26/92

Date of Issuance

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

JH/jyi

RECEIVED

OCT 19 1992

WATER QUALITY DIVISION
WYOMING



THE STATE



OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6724

WATER QUALITY
(307) 332-3144

October 14, 1992

Larry Sims
Regulatory Affairs Department
Halliburton Company
P.O. Drawer 1431
Duncan, OK 73536-0100

RE: Permit to Construct #92-347, boreholes at the Evanston, WY soil treatment area.

Dear Mr. Sims,

It has been determined that the above referenced soil borings drilled to determine depth to ground water at the proposed petroleum contaminated soil treatment site **do not need to be permitted by the Department of Environmental Quality, Water Quality Division (DEQ/WQD)**. The application has been canceled and destroyed. The above decision was based on the fact that the site is being managed by the DEQ/Solid and Hazardous Waste Division and any required permitting will be via that Division.

I am awaiting the results of ground water and soil monitoring at the pit excavation site so as to determine if closure will be allowed at this time. During our phone conversation yesterday you provided data that indicated that the impacted soil had been excavated to a point where contamination remaining was below the regulatory limit, and that it appeared that the ground water was not impacted.

Your efforts in satisfactorily remediating this site are greatly appreciated. Please feel free to call or write should you have any questions or concerns.

Sincerely,

Doug Gilmer, P.G.
Water Quality Division

xc: Vickie Vance, DEQ/SHWD Lander
File (2)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 92-347

Halliburton Test Boring
 (Name of Facility)

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

G.M. Stewart Corp.

P.O. Box 3180

Evanston, WY 82931

to drill a test soil boring to determine depth to ground water according to the procedures and conditions of the application No. 92-347. The facility is located in NW $\frac{1}{4}$ Section 23, T15N, m R120W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (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.

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Put record as such

Toby Dwyer

2/3/2011

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, 250 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.

DG/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-348

Gregory Lane Sewer Project
(Name of Facility)

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

Town of Jackson

P.O. Box 1687

Jackson, WY 83001

to construct approximately 1,225 L.F. of sewer mains with manholes and service connection according to the procedures and conditions of the application No. 92-348. The facility is located in NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 6, T40N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 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

10/26/92

Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 92-349

Black Butte Holding Pond
(Name of Facility)

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

Black Butte Coal Company

P.O. Box 98

Point of rocks, WY

to replace pond liner and construct a sediment detention box according to the procedures and conditions of the application No. 92-349. The facility is located in the NW 1/4 of Section 11; T20N, R101W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (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 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

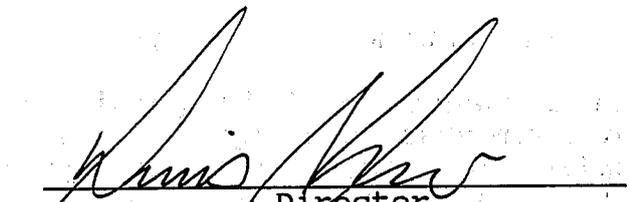
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

10-29-92
Date of Issuance

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

RT/anc

RF

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 92-350
SPECIAL CONDITIONS

Scoleri Residential Septic System

This permit hereby authorizes the applicant:

Leonard R. & Synthia L. Scoleri
P.O. Box 650
Guernsey, Wyoming 82214

to construct, install or modify a Residential Septic System according to the procedures and conditions of the application number 92-350. The facility is located in W 1/2 Section 34 T27N R66W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

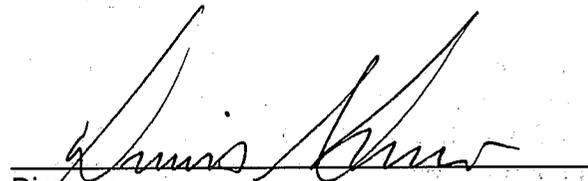
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

11/5/92

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 1. A cleanout having a minimum diameter of six inches shall be provided in each tank compartment and shall extend to the ground surface and shall be capped. If the manway is extended to the surface in order to meet this requirement precaution should be taken to secure the access from entry by children.

LRR/jn - 24122.ltr

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Scoleri Residential Septic System

ENGINEER: None

APPLICANT: Leonard R. & Synthia S. Scoleri

WATER QUALITY REFERENCE NUMBER: 92-350

APPROVING ENGINEER:

Larry Robinson



DATE OF REVIEW:

October 29, 1992

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. The field data for the percolation test is not adequate and may be inaccurate. Refer to item (c) of the percolation test procedures. The intent of presoaking is to reach a stable percolation rate. The data reported does not reflect stable conditions and the percolation rate was calculated incorrectly. The data presented would indicate a percolation rate of less than one minute per inch. If this is correct, the soils are excessively permeable for a standard design and the system would have to be designed by a registered professional engineer. The data presented, however, does not reflect a stable percolation rate and the data reported may be accumulative water level drops rather than incremental drops for each time interval.
2. The Vaughn Tank does not have a cleanout. It will therefore be necessary for the manhole to be extended to the ground surface and capped.
3. If you have any questions or need a explanation of the percolation rate procedures, my telephone number is 777-7075.

LR/jn - 24062.ltr

