

cc: Charles A. Haas  
1225 Sage St.  
Gering, NE 69341

11-13-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-651

Burlington Northern Inc. Locomotive Fueling Facility at Guernsey, WY  
(Name of Facility)

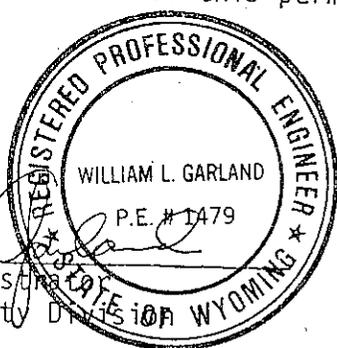
This permit hereby authorizes the applicant:

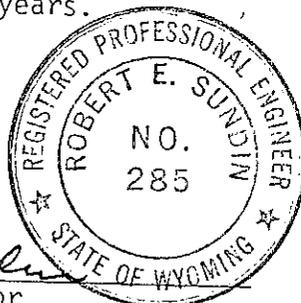
W. J. Condotta, Asst. Vice President of Operations  
(Last) (First) (Middle)  
Denver Region, Burlington Northern Inc.  
2000 Executive Tower  
1405 Curtis St.  
(Street or P.O. Box)  
Denver, CO 80202  
(City) (County) (State)

to construct, install, or modify a industrial evaporative sewage system  
facility located in SE SW Sec. 36, T27N, R66W  
(Legal Description)

in the County of Platte, 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 not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administra...  
Water Quality Div...  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


November 8, 1979  
Date of Issuance

"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."



*Department of Environmental Quality*  
*Water Quality Division*

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

May 23, 1980

Mr. Tim Smith  
Supervisory Environmental Engineer  
Cotter Uranium Corporation  
9305 West Alameda Parkway  
Lakewood, Colorado 80226

RE: Charlie Area Uranium Mine  
WY 0027685  
WQD Ref. No. 79-652RRR

Dear Mr. Smith:

This office has reviewed the plans and pertinent design information that you have recently submitted as a response to our January 3, 1980 letter and hereby informs you that those plans proposing to modify or upgrade the as-built runoff/sediment control facility around the main spoil pile and to install such facilities in other spoil piles, in order to comply with state requirements, were found acceptable. These facilities include:

- (1) Main spoil pile catchment basin (Fig. No. 1)
- (2) Runoff control reservoir for undisturbed area, north and east of the main spoil pile (Fig. No. 1)
- (3) Runoff control structure - North Topsoil Pile (Fig. No. 2)
- (4) Runoff control structure - South Topsoil Pile (Fig. No. 3)
- (5) Runoff and spill retention basin at TL pilot plant (Fig. No. 4)

Since this project involves as-built systems, this office cannot issue any permits for this project. However, this letter serves as concurrence with the design information and allows you to initiate construction of subject facilities per approved plans.

Meanwhile, this office expects a follow-up notification from you in the near future of the result of the on-going leach tests in conjunction with the proposed tailings disposal plan.

If you have any questions, feel free to let me know.

Sincerely yours,

A handwritten signature in cursive script that reads "Dan H. Kim".

Dan H. Kim  
Environmental Engineer

DHK/kn

cc: Jake Strohman, DEQ/WQD  
Dennis Morrow, DEQ/LQD



*Department of Environmental Quality*  
*Water Quality Division*

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

January 3, 1980

Mr. Tim Smith  
Cotter Corporation  
9305 West Alameda Parkway  
Lakewood, Colorado 80226

RE: Charlie Area Uranium Mine  
WY 0027685  
WQD Ref. No. 79-652R

Dear Mr. Smith:

Pursuant to our phone conversations on January 2, 1980, this is the summary of our discussions and agreements. This also includes comments in reply to your letter of November 30, 1979.

1. Diversion ditch will be converted to a runoff control pond. The entire ditch will be modified so that it will retain the sediment and the runoff from the spoil pile and adjacent disturbed area resulting from 10-year 24-hour storm. The runoff to be generated from the undisturbed natural drainage will be diverted and controlled in a separate impoundment.
2. According to the agreement made with Land Quality Division, Solid Waste Management Division and Cotter Corporation in late 1978, Cotter Corporation will submit the results of an analysis of the physical, chemical and radiochemical properties of the dry tailings (15% moisture) generated by the TL leach process to the Land Quality Division as soon as data will be available. Land Quality Division, in conjunction with the Water Quality Division and the Solid Waste Management Division, will make a decision regarding approval or disapproval of Cotter's proposed tailings disposal system upon receipt of those analysis. Should the Land Quality Division disapprove Cotter's proposed tailings disposal system, Cotter Corporation will dispose of the TL leach tailings in the licensed tailings pond at the Bear Creek site. Cotter has been granted permission to do so by Rocky Mountain Energy Company.

3. Details of Cotter's proposed tailings disposal system will be submitted to the Water Quality Division for its review. The information should include:
  - a. Production rate of the tailings
  - b. Capacity of the storage pond
  - c. Appropriate cross-sections and plan view of pond and embankment.
  - d. Possibility of groundwater and surface water contamination.
  - e. Monitoring system
  - f. Tailings hauling method, etc.
  
4. It was made clear that any structures designed to control and/or retain the runoff generated from the disturbed area must be constructed per requirements of "Runoff Control Pond" as delineated in NPDES permit. Therefore, complete engineering data, calculations, drawings, etc., will be submitted to identify the design criteria of the as-built ponds and new ponds to be in conformity with the State requirements. The information should include, at a minimum:
  - a. Hydrologic and hydraulic design of pond.
  - b. Estimated volume of the design storm and mean annual sediment inflow.
  - c. Water and sediment storage volume and pond surface area (an area-capacity curve or table is sufficient).
  - d. Retention time
  - e. Appropriate cross-sections and plan view of pond, embankment and spillway.
  - f. Spillway design
  - g. Supernatant drawoff structure design. Supernatant in the pond must be drawn off five days after a storm but no later than 15 days; an outlet with a valve or a pump, portable or fixed, is normally used for this purpose.

The ponds that above-mentioned information are needed include:

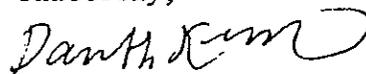
- a. The pond, converted from diversion ditch.
- b. The pond for topsoil pile at the north area.

- c. Runoff control structure at TL pilot plant.
  - d. The pond for topsoil pile at the south site.
5. Information as to the diversion structure and impoundment, designed to control the runoff from the undisturbed natural drainage (about 116 acres), located north and east of the mine, will be submitted.

In order to expedite correctional processes of current deficiencies in the said mine, this office again requests that you respond to this letter within forty (40) days in as a detailed manner as possible upon receipt of this letter.

If you have any questions please let me know.

Sincerely,



Dan H. Kim  
Environmental Engineer

DHK/lis

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

cc: Dennis Morrow, LQD Sheridan  
Charles Porter, Solid Waste Management, Cheyenne  
Jake Strohman, WQD, Cheyenne



*Department of Environmental Quality*  
*Water Quality Division*

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

October 23, 1979

Mr. Tim Smith  
Environmental Engineer  
Cotter Corporation  
9305 West Alameda Parkway  
Lakewood, Colorado 80226

RE: Charlie Area Uranium Mine  
WY 0027685  
WQD Reference No. 79-652

Dear Mr. Smith:

This office has reviewed the letter dated October 19, 1979, and an as-built drawing of the evaporation pond submitted by you as part of follow-up responses to our previous meeting of October 2, 1979, and on-site inspection of October 10, 1979.

Initially, with regard to two temporary trailer sites where "seepage pit" type 55-gallon sewage disposal drums were installed without a Permit to Construct having been obtained, this office has agreed to grant permission to operate said facilities on a temporary basis as requested by the Cotter Corporation under the following conditions:

1. The trailers being used by the employees of Cotter's contractor will be removed by November 25, 1979.
2. The 55-gallon seepage drums, currently serving the four trailers located adjacent to the pilot plant, will be removed by December 31, 1979.
3. Any future installation of public water supply and sewage treatment facility will not be initiated until a Permit to Construct is obtained from this office.

Secondly, the submitted information for evaporation pond and diversion ditch is not considered complete. Complete design criteria needs to be provided, including the following information, but not necessarily be limited to:

1. Total drainage area

It appears that the evaporation pond will hold the runoff from the undisturbed natural drainage basin, located at the northeast side of the mine, as well as the disturbed spoil pile area.

Estimated acreages of both disturbed area and natural drainage basin need to be addressed.

2. Total runoff volume estimated.

3. Soil characteristics

4. Estimated sediment volume

5. Freeboard design

The drawing indicated there is no freeboard provided above the high water level. Since the winds in Wyoming can reach 90 mph, a design calculation of the freeboard based on wave action must be provided.

6. Detailed information of inlet structure and its elevation.

7. Evaporation rate used

8. Groundwater depths and percolation rate at the pond.

9. Diversion ditch design

Our October 10, 1979 inspection revealed that the spoil pile diversion channel is not graded in such a way that all the runoff can be conveyed by gravity to the evaporation pond, which is considered unauthorized variation to the approved mine permit from Land Quality Division. Since this situation must be corrected, when and how it is to be done shall be stated.

10. Earth work and embankment specification.

Thirdly, the October 10 inspection also revealed that there are not sufficient provisions made to control all runoff from the disturbed area. NPDES permit WY 0027685 requires that the permittee must control all runoff occurring from any disturbed areas in the mine permit area to insure there is no violation of Wyoming's surface water quality standards. The NPDES permit further states that if runoff from disturbed areas is controlled through the use of settling ponds (including catchment basin around the topsoil pile storage or pilot plant

Mr. Tim Smith  
October 23, 1979  
Page three

area, suggested by Cotter Corporation) the pond must be sized to handle the runoff resulting from 10-year, 24-hour precipitation event (2.6 inches) in order not to be identified as a discharge pond. If a pond is sized less than the said criteria, the outfall from such a pond is identified as a discharge point and must be regulated by the provisions of part IA of the NPDES permit.

Currently there is only one evaporation reservoir constructed which is designed to control the runoff from the spoil pile, located immediately east of the pond. Therefore, more detailed plans showing how the runoff from other disturbed areas are to be controlled must be presented to this office.

Again, a Permit to Construct needs to be obtained prior to construction of any runoff control ponds.

Fourthly, since this office has not received any plans as to the proposed standby tailings storage pond either, you are also advised to submit necessary plans and relevant design information for our approval.

In order to avoid any further violation of state regulations and expedite correctional processes of current deficiencies in the said mine, this office requests that you respond to this letter within forty (40) days in as a detailed manner as possible.

If you have any questions please let me know.

Sincerely,



Dan H. Kim  
Environmental Engineer

DHK/lis

cc: Dennis Morrow, LQD Sheridan  
Kathy Ritmueller, WQD Cheyenne  
Jake Strohman, WQD Cheyenne

cc: James D. White  
#25 Goshen Mobile Estates  
Torrington, WY 82240

117  
4-10-80

PERMIT TO CONSTRUCT

New

Permit No. 79-653RR

Renewal

Modified

PV Estates

(Name of Facility)

This permit hereby authorizes the applicant:

Ventures Seven

(Last)

(First)

(Middle)

Rural Rt. 1, Box 416

(Street or P.O. Box)

Torrington,

WY 82240

(City)

(County)

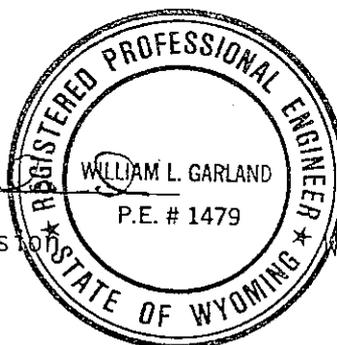
(State)

to construct, install, or modify a wastewater collection system and small stabilization pond  
facility located in Sections 6 and 7, T24N, R61W  
(Legal Description)

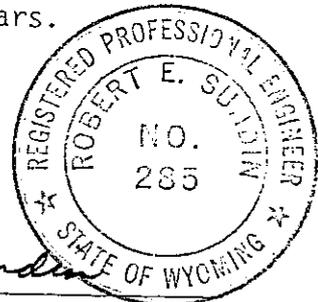
in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sunden  
Director  
Wyoming Dept. of Environmental Quality



April 9, 1980

Date of Issuance

"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."



*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 24, 1980

Mr. Jim White  
#25 Goshen Mobile Estates  
Torrington, WY 82240

Re: PV Bar Estates, First Addition, Sewage  
Collection and Treatment, Goshen County,  
Project Ref. No. 79-653R

Dear Mr. White:

In regards to our telephone conversation of March 24, 1980, I have discussed the proposed wastewater lagoon construction with our geological engineer to determine potential impact on existing groundwater quality. Based upon that conversation, the following information is presented for your use:

1. Construction of any wastewater ponds (lagoons) requires submission of back-ground data contained in the attached "Guidelines for Wastewater Pond Construction Permit Applications" in accordance with Chapter III, Wyoming Water Quality Rules and Regulations. Information listed in Section II, Design Information, must be provided with the application for a Permit to Construct.
2. Since an emergency overflow capability is being designed into the lagoon system, it is highly recommended that the applicant apply for a National Pollutant Discharge Elimination System (NPDES) Permit through the discharge permit section of this Division.
3. New sewerage systems shall be designed on the basis of an average daily capita flow of sewage of not less than 100 gallons/capita/day using a minimum of 35 capita per single family residence.

As was discussed on the telephone, please review your submittal for compliance with the guidelines and Ten State Standards. If you desire a joint meeting here in Cheyenne to further discuss this project, please contact me and we'll establish a time and a date.

Sincerely,

A handwritten signature in black ink, appearing to read "LeRoy C. Feusner".

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

LCF/nc

Enclosures - 2

77  
3-21-80

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~XX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: PV Bar Estates, First Addition, Sewage Collection and Treatment,  
Goshen Co.

ARCHITECT OR ENGINEER: James D. White, P.E., #25 Goshen Mobile Estates,  
Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 79-653R, Ref. No. 75-12

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: March 19, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Collection System

1. The 10 inch sewer requires a minimum slope of .28%.
2. Provide a profile of the sewer line between MH-0 and MH-1.
3. Provide a profile of the sewer line between MH-6 and MH-4.
4. The distance between MH-0 and MH-1 of about 525 feet exceeds the maximum permissible spacing of 400 feet.

Lagoons

1. The calculation of the population served should be based on at least 3.5 persons per single family residence.
2. Submit specifications covering the excavation and embankment for the lagoon.
3. A minimum separation of 4 feet between the bottom of the pond and the maximum groundwater level should be maintained.
4. Submit specifications covering sealing of the lagoon to limit percolation.
5. As a minimum the lagoon system should consist of 3 cells designed to facilitate both series and parallel flow.
6. Embankments shall be seeded from the outside toe to 2 feet above the pond bottom on the interior.

7. Submit details of the inlet line. It shall discharge in the center of the lagoon after carrying along the bottom just below the seal. It shall discharge horizontally into a shallow saucer-shaped depression with the end of the line resting on a concrete apron at least 2 feet square.
8. The overflow structure should be designed to allow adjustment of the water depth in the range of 2 to 6 feet and provide for subsurface discharge.
9. Provisions shall be made for draining the lagoons.
10. An all-weather access road shall be provided to the pond site to allow year-round maintenance of the facility. All access gates shall be provided with locks.
11. At least one warning sign designating the nature of the facility shall be provided on each side of the site and at least one for every 500 feet of its perimeter.

THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 2, 1979

Mr. William L. McKenna  
Route #1, Box 416  
Torrington, WY 82240

Re: Preliminary Layout of Addition to PV  
Estates Subdivision, Torrington, WY  
DEQ/WQD Ref. No. 79-653 (75-12)

Dear Mr. McKenna:

We have reviewed the referenced preliminary layout and have the following comments to offer:

1. The minimum size of the sewers shall be 8 inches in diameter.
2. The treatment facility shall be expanded to provide capacity which is sufficient to adequately treat the increased volume of sewage which is represented by the expansion of the sewage collection system.
3. Provide adequate right-of-way easements where the sewer mains cross property which is not dedicated sewer right-of-way.
4. To prevent overtopping of lagoon dikes, emergency overflow should be provided.

Aside from the above comments, the general layout of this addition, as set forth in the sketches you submitted, appears to be satisfactory.

Sincerely,

Handwritten signature of Robert H. Pinther in cursive.  
Robert H. Pinther, M.S., P.E.  
Environmental Engineer

RHP/nc

PERMIT TO CONSTRUCT

M. 705  
11-26-79

- New
- Renewal
- Modified

Permit No. 79-654

CABALLO MINE - GUARD SHACK SPETIC TANK  
(Name of Facility)

This permit hereby authorizes the applicant:

Attention: E. L. Reed (

The Carter Mining Company

(Last)

(First)

(Middle)

Box 209

(Street or P.O. Box)

Gillette

Campbell

Wyoming 82716

(City)

(County)

(State)

to construct, install, or modify a sewage disposal

facility located in Section 24, T.48N., R.71W.

(Legal Description)

in the County of Campbell,

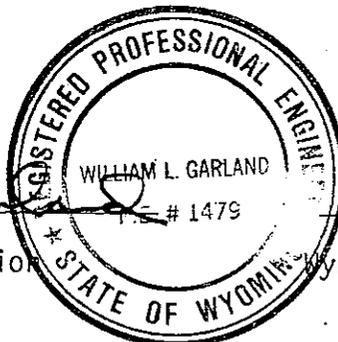
in the State of

Wyoming. This permit shall be effective for a period of two (2) years

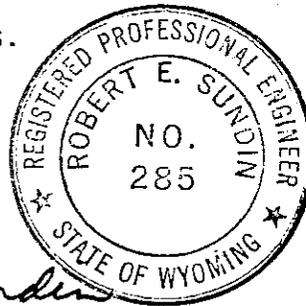
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



November 9, 1979  
Date of Issuance

"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."

79-655  
Book 1-  
10-25-79



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 25, 1979

Mr. Lindy McNamee  
Design and Construction Department  
Safeway Stores, Inc.  
2600 South Parker Rd., Suite 140  
Aurora, CO 80014

Dear Mr. McNamee:

The construction plans and specifications for the proposed Safeway Store in Douglas, Wyoming, are being returned to you without action as a permit to construct is not required for a sewer service line connection to an existing town sewer.

Sincerely,

LeRoy C. Feusner, P.E.  
District Supervisor  
Water Quality Division

LCF/nc

Enclosures

79-655



**SAFEWAY STORES, INCORPORATED**

#4 - Parker Place  
2600 South Parker Road - Suite 140  
Aurora, Colorado 80014

Real Estate Department - (303)755-2714  
Design & Const. Dept. - (303)755-5808

October 17, 1979

Leroy C. Fensher  
Wyoming Department of Environmental Quality  
Water Quality Division  
Hathaway Building  
Cheyenne, Wyoming 82002



Dear Mr. Fensher:

Per your comments to Bourn and Dulaney, architects on our Rawlins, Wyoming store, we are forwarding plans for store #464, Douglas per your review.

Very truly yours,

Safeway Stores, Inc.  
Lindy McNamee  
Senior Draftsman

LM:lr  
attached: Plans #24

cc: David H. Kieper  
General Delivery  
Saratoga, WY 82331

M  
11-1-79

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 79-656R

Sedimentation Dam #2A - Seminoe #1 Mine, Arch Mineral Corp.  
(Name of Facility)

This permit hereby authorizes the applicant:

Arch Mineral Corp.  
(Last) (First) (Middle)

P.O. Box 490  
(Street or P.O. Box)

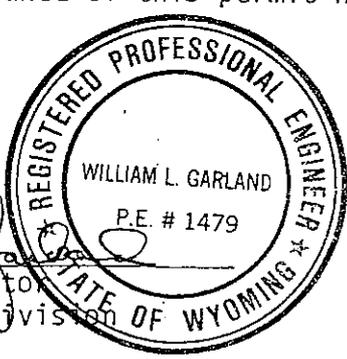
Hanna, WY 82327  
(City) (County) (State)

to construct, install, or modify a industrial sedimentation pond  
facility located in Sec. 24, T22N, R83W  
(Legal Description)

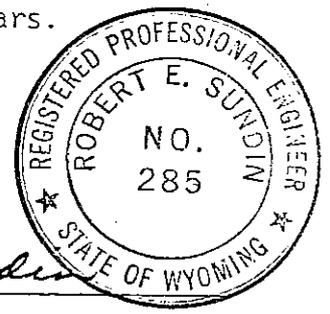
in the County of Carbon, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 29, 1979  
Date of Issuance

"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."

4-4-84



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 3, 1984

Town of Rock River  
P.O. Box 280  
Rock River, WY 82083

Dear Sir:

On March 14, 1984, a status letter was sent to you concerning a permit to construct, reference number 79-657, facility name Sewer Line, Block 8, Highland Addition Alley St. Praiger Bosler Avenue to Morris Street. The application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

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

Sincerely,

LeRoy C. Feusner, P.E.  
Southeast District Supervisor  
Water Quality Division

LCF/nc

cc: William Goodrich  
Garrett Rt.  
Rock River, WY 82083

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

# Department of Environmental Quality

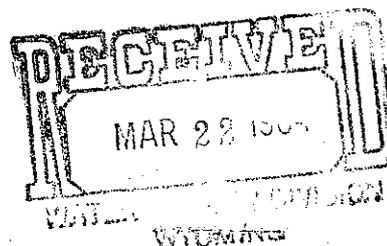
## Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 14, 1984



✓ Town of Rock River  
P.O. Box 280  
Rock River, WY 82083

Dear Sir:

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

Facility name:	Sewer Line, Block 8, Highland Addition Alley St. Praiger Bosler Avenue to Morris Street
DEQ/WQD Reference Number:	79-657
Engineering Consultant:	William Goodrich
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	October 15, 1979

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

The application will not be resubmitted as the proposed project has been cancelled.

The application will be resubmitted within 30 days.

The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

Other remarks A service line was run to the main on White Street in lieu of the main construction

3-14-84



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 14, 1984

Town of Rock River  
P.O. Box 280  
Rock River, WY 82083

Dear Sir:

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

Facility name:	Sewer Line, Block 8, Highland Addition Alley St. Praiger Bosler Avenue to Morris Street
DEQ/WQD Reference Number:	79-657
Engineering Consultant:	William Goodrich
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	October 15, 1979

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

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

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

Sincerely,



LeRoy C. Feusner, P.E.  
Southeast District Supervisor  
Water Quality Division

cc: William Goodrich  
Garrett Rt.  
Rock River, WY 82083

10-25-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~STATE OFFICE BUILDING~~

Hathaway Bldg.

Cheyenne, Wyoming 82002

PROJECT: Town of Rock River, Albany Co.

ARCHITECT OR ENGINEER: William Goodrich, Garrett Rt., Rock River, WY 82083

WATER QUALITY DIVISION REFERENCE NUMBER: 79-657

REVIEWING ENGINEER: LeRoy C. Feusner, P.E. *LF*

DATE OF REVIEW: October 25, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Per my telephone conversation of October 25, 1979 with Sylvia Parvin, Town Clerk, a review of the Block 8 sewer line extension cannot be accomplished until engineering plans and specifications are drawn-up and submitted to this Division. A resubmittal to this Division with the plans and specifications is required prior to project approval.

cc: Jon Anderson  
1111 E. Lincolnway  
Cheyenne, WY 82001

12-28-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-658R

Imperial Heights Subdivision  
(Name of Facility)

This permit hereby authorizes the applicant:

Imperial Heights Assoc.  
(Last) (First) (Middle)

1111 E. Lincolnway  
(Street or P.O. Box)

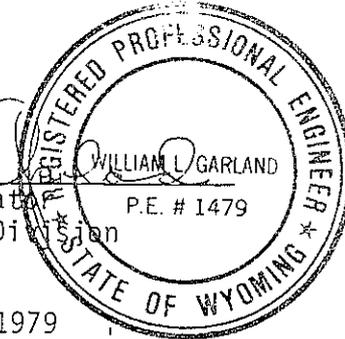
Cheyenne, WY 82001  
(City) (County) (State)

to construct, install, or modify a municipal distribution and collection system  
facility located in Sec. 1, T15N, R73W  
(Legal Description)

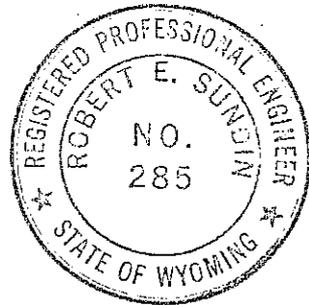
in the County of Albany, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



December 26, 1979  
Date of Issuance

"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."

Book  
M-10-31-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~State Office Building~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Imperial Heights Subdivision, City of Laramie, Albany Co.

ARCHITECT OR ENGINEER: Jim Voeller, Suite 215, Imperial Plaza,  
1111 East Lincoln Way, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-658

REVIEWING ENGINEER: LeRoy C. Feusner, P.E. *LF*

DATE OF REVIEW: October 30, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

General

1. Two copies of an application for a permit to construct must be included with the construction plans and specifications submission.
2. The City of Laramie construction specifications are currently being reviewed. They have not yet been accepted by this Division. Therefore, provide construction specifications for this project. This review will be based upon current contents of City of Laramie specifications. Remove DEQ approval note on front page of construction plans.

Sewer Line Construction

1. A letter of verification from the City of Laramie stating that the municipal wastewater treatment plant is capable of handling the added organic and hydraulic loading must be included with this submission.
2. Include the attached paragraphs for water main and sewer separations/cross-overs. Show a construction detail.
3. Indicate acceptable leakage test procedures, i.e., the appropriate water or low pressure air test.
4. Expand alignment testing procedure to include following: After burial, a light source at one end of a test section should be observed at the other end as nearly a full circle of light. The ability to see only segments, ovals, or reflections indicate serious misalignment or collapse of the sewer.

Imperial Heights Subdivision  
DEQ/WQD Ref. No. 79-658  
October 30, 1979  
Page two

Water Line Construction

1. A letter of verification from the City of Laramie that they can adequately supply 350 gallons per residence per day at a required pressure of 20 psi under all flow conditions at all points in the distribution system must be submitted.
2. What will be the water pressure in the proposed subdivision?
3. How do the pumps in the pumping station work? What is the minimum intake and cutoff water pressure for the pumping system?
4. What type of automatic signaling apparatus will be used to indicate when the pumping station is out of service? (Ten State Standards)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-659RR

Wagonhound Rest Area Water & Sewer  
(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming State Highway Department  
 (Last) (First) (Middle)

ATTN: Gary Brown  
 P.O. Box 1708  
 (Street or P.O. Box)

Cheyenne, WY 82001  
 (City) (County) (State)

to construct, install, or modify a public water supply and small subsurface disposal  
 facility located in Sec. 9, T19N, R79W  
 (Legal Description)

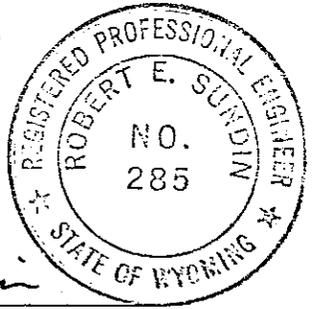
in the County of Carbon, in the State of  
 Wyoming. This permit shall be effective for a period of two (2) years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
 Administrator P.E. # 1479  
 Water Quality Division



Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



May 28, 1980  
Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~State Office Building~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Wagonhound Rest Area, Carbon Co.

ARCHITECT OR ENGINEER: Gary Brown, Wyoming Highway Dept., P.O. Box 1708,  
Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 79-659R

REVIEWING ENGINEER: Frank R. Harman, M.S., P.E. *Frank R. Harman*

DATE OF REVIEW: December 6, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Final approval has been withheld pending receipt of bacteriological safe results following post-constructional disinfection of the well source of water supply. Resubmit complete chemical/bacteriological results to this office. Care should be exercised in sampling procedure not to contaminate sample prior to testing.

*Doc  
11-26-79*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~Water Quality Division~~ Hathaway Bldg.

Cheyenne, Wyoming 82002

PROJECT: Wagonhound Rest Area Rest Room Facilities, Rawlins-Laramie Road, Carbon Co.

ARCHITECT OR ENGINEER: Civil Design Section, Wyoming Highway Dept., P.O. Box 1708, Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 79-659

REVIEWING ENGINEER: Frank R. Harman, M.S., P.E. *Frank R. Harman*

DATE OF REVIEW: November 13, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Water Well

Final approval will be given when bacteriological, chemical and radiological quality is assessed and a copy submitted to this Department for evaluation.

Leach Beds

1. All laterals in leach beds shall be tied together for more efficient functioning.
2. Percolation test results, upon which the sizing of the leach bed was determined, shall be submitted for evaluation.

Water Line and Sewer Crossings

Specifications did not cover this item. Where water lines and sewers cross, the water lines shall be above the sewers with a minimum vertical separation of 18 inches.

cc: Gray C. Wangelin  
Engineering Inspection & Testing Service  
5024 Alcova Rt., Box 14  
Casper, WY 82601

M  
11-28-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-660R

Southwest Power Tool  
(Name of Facility)

This permit hereby authorizes the applicant:

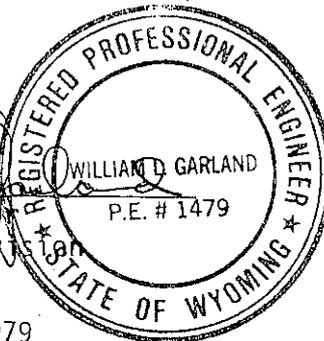
Southwest Power Tool  
(Last) (First) (Middle)  
John Gardenhire  
Navajo Building Systems Co., Inc.  
(Street or P.O. Box)  
P.O. Box 2158  
Farmington, NM 87401  
(City) (County) (State)

to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 28, T34N, R80W  
(Legal Description)

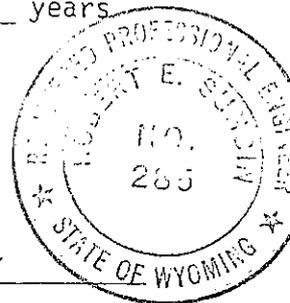
in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sardin  
Director  
Wyoming Dept. of Environmental Quality



November 27, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

Beck  
11/5/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~XXXXXXXXXXXXXXXXXXXX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Southwest Power Tool, Septic System and Drain Field, Natrona Co.

ARCHITECT OR ENGINEER: Gray C. Wangelin, Engineering Inspection & Testing Service,  
5024 Alcova Rt., Box 14, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-660

REVIEWING ENGINEER: Frank R. Harman, M.S., P.E. *Frank R. Harman*

DATE OF REVIEW: November 5, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The septic tank shall be so located that the minimum distance of separation between the septic tank and the water service line shall be 25 feet.

cc: Gray C. Wangelin  
Engineering Inspection & Testing Services  
5024 Alcova Route, Box 14  
Casper, WY 82601

M 11-13 79

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 79-661

Macy Pipe & Threading  
(Name of Facility)

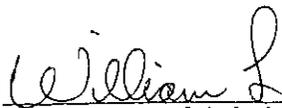
This permit hereby authorizes the applicant:

Macy Pipe & Threading  
(Last) (First) (Middle)  
P.O. Box 94785  
(Street or P.O. Box)  
Oklahoma City, OK 73143  
(City) (County) (State)

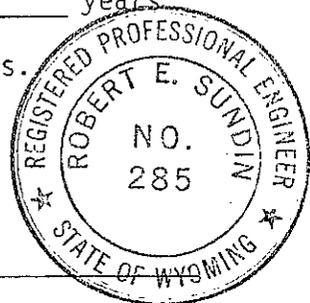
to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 14, T34N, R81W  
(Legal Description)

in the County of Natrona, 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 not to exceed five (5) years.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division  
STATE OF WYOMING

  
ROBERT E. SUNDIN  
Director  
Wyoming Dept. of Environmental Quality



November 8, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

cc: Gray C. Wangelin  
Engineering Inspection & Testing Services  
5024 Alcova Rt., Box 14  
Casper, WY 82601

11-13-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-662

Kendavis Industries - Warehouse and Office Building  
(Name of Facility)

This permit hereby authorizes the applicant:

Kendavis Industries  
(Last) (First) (Middle)  
Attn: Verl McNeil  
P.O. Box 2847  
(Street or P.O. Box)  
Tulsa, OK 74101  
(City) (County) (State)

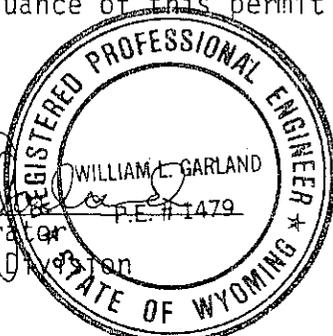
to construct, install, or modify a commercial wastewater disposal system  
facility located in Sec. 32, T34N, R79W, Lot 2, Interstate Industrial Park Subdivision  
(Legal Description)

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

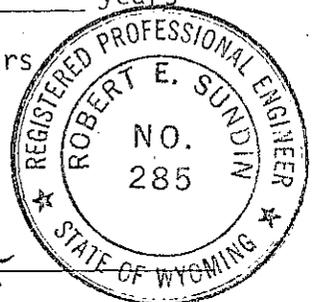
from the date of issuance of this permit not to exceed five (5) years

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division  
P.E. # 1479



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



November 8, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

cc: Tom Barker  
237 North Main  
Sheridan, WY 82801

11 to 5  
2-27-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-663RR

CRYSTAL CREEK SUBDIVISION

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Fleming</u>	<u>Floyd</u>	<u></u>
(Last)	(First)	(Middle)

<u>P.O. Box 453</u>	<u></u>
(Street or P.O. Box)	

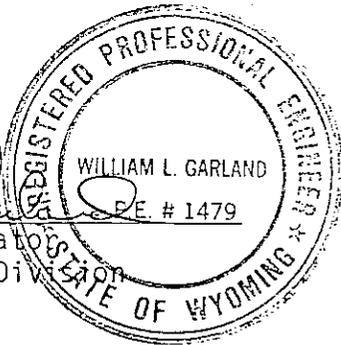
<u>Sheridan</u>	<u>Sheridan</u>	<u>Wyoming 82801</u>
(City)	(County)	(State)

to construct, install, or modify a water distribution  
 facility located in Section 10, T.55N., R.84W.  
 (Legal Description)

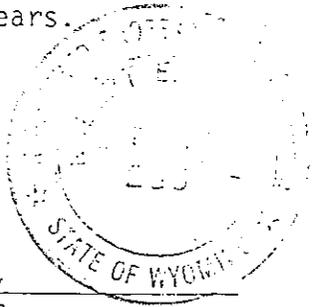
in the County of Sheridan, in the State of  
 Wyoming. This permit shall be effective for a period of two (2) years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division



Robert E. Gurdin  
 Director  
 Wyoming Dept. of Environmental Quality



February 21, 1980  
 Date of Issuance

"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."

cc: Tom Barker  
237 North Main  
Sheridan, WY 82801

MtoS  
11-29-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-664

WESTERN MODULAR SYSTEMS, INC.  
(Name of Facility)

This permit hereby authorizes the applicant:

Western Modular Systems  
(Last) (First) (Middle)

P.O. Box 931  
(Street or P.O. Box)

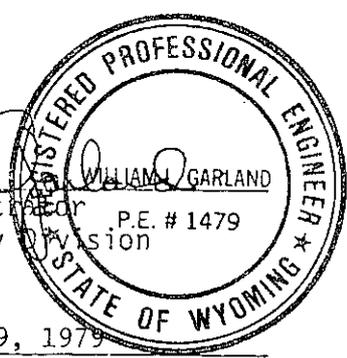
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a sewage collection  
facility located in Section 25, T.56N., R.84W.  
(Legal Description)

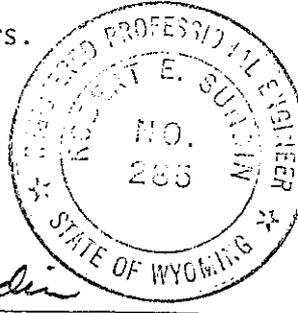
in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division  
 P.E. # 1479



Robert E. Surdin  
 Director  
 Wyoming Dept. of Environmental Quality



November 19, 1979  
Date of Issuance

"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."

cc: Ed S. Rate  
P.O. Box 930  
Casper, WY 82602

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 79-665

Jebens J. Hewitt

(Name of Facility)

This permit hereby authorizes the applicant:

Hewitt, Jebens J.  
(Last) (First) (Middle)  
c/o Derrell Dudley  
P.O. Box 110  
(Street or P.O. Box)

Rawlins, WY 82301  
(City) (County) (State)

to construct, install, or modify a small wastewater disposal system  
facility located in Sec. 34, T34N, R80W, Lot 37, Westgate #2  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance. This permit not to exceed five (5) years.

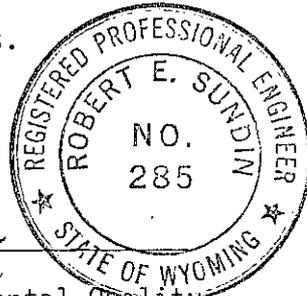
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



November 8, 1979

Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

cc: Terry Titus  
Worthington, Lenhart, Carpenter & Johnson, Inc.  
632 S. David  
Casper, WY 82601

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 79-666

Bank of Casper Addition

(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities

(Last) (First) (Middle)

200 N. David

(Street or P.O. Box)

Casper,

WY 82601

(City) (County) (State)

to construct, install, or modify a municipal distribution and collection system  
facility located in City of Casper

(Legal Description)

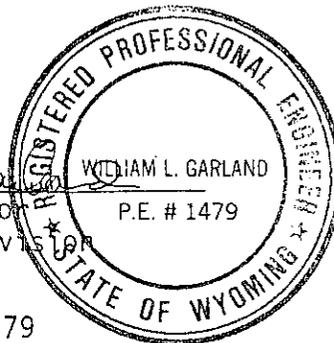
in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of two (2) years

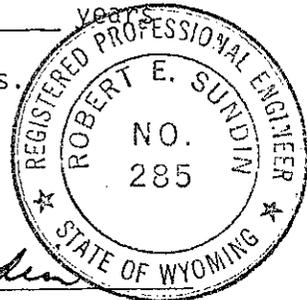
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



November 2, 1979

Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

Mt. View  
1-7-80

- New
- Renewal
- Modified

Permit No. 79-667R

Mountain View Mobile Home Park Water and Wastewater Systems  
(Name of Facility)

This permit hereby authorizes the applicant:

Mountain View Development Co.  
(Last) (First) (Middle)

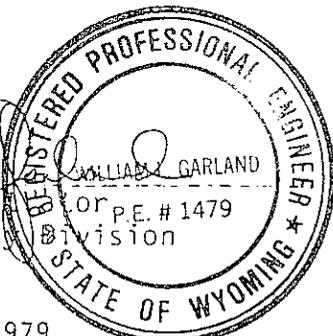
P. O. Box 470  
(Street or P.O. Box)

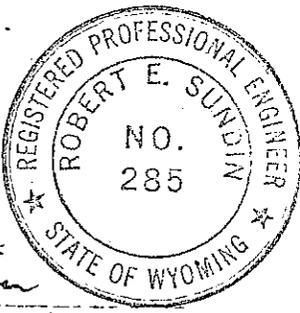
Mountain View WY 82939  
(City) (County) (State)

to construct, install, or modify a Water system and sewer extension of the town  
of Mountain View  
facility located in Section 24, T. 15N., R. 115W.  
(Legal Description)

in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Adminis. or P.E. # 1479  
Water Quality Division  


*Robert E. Sundin*  
Director  
Wyoming Dept. of Environmental Quality  


December 21, 1979  
Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144



PROJECT: Mountain View Mobile Home Park Water and Wastewater Systems  
NW¼ Sec. 24, T. 15 N., R. 115 W. - Uinta County

ENGINEER: Rocky Mountain Engineering & Surveying, Inc.  
P.O. Box 805  
Evanston, WY 82930  
ATTN: Dale E. Peterson, P.E.

OWNER: Mountain View Development  
P.O. Box 470  
Mountain View, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 79-667

REVIEWING ENGINEER: M. Robin Collins, P.E. *M. Robin Collins*

DATE OF REVIEW: November 14, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

After reviewing the aforementioned report, I would like to offer the following comments for your consideration and reply in processing the necessary permit:

1. The well and water connections to the fourteen trailers will constitute a public water supply and thus will have to satisfy the requirements as outlined in "Ten States Standards." Some of the specific information requested are as follows:
  - a. The design plans and specifications for the pump house and well need to be submitted.
  - b. A map showing the location of all existing and potential sources of pollution within 250 feet of the well must also be submitted.
  - c. The specific location of all water valves, especially gate valves, need to be shown. It is recommended that gate valves be installed at the intersection of all water mains.
  - d. The public water works must show an ability to consistently meet the bacteriological standards. If it cannot be met, chlorination equipment must be used to disinfect the water supply.
  - e. Before the well can be put into service, we must be provided chemical and bacteriological analyses from the well water.
  - f. All public water supplies must be maintained by a certified operator. Please provide a name and address of the proposed operator so that he can be provided with the necessary information for certification.

2. It is highly recommended that the mobile home park abandon their well and

REVIEW OF PLANS

MOUNTAIN VIEW MOBILE HOME PARK WATER AND WASTEWATER SYSTEMS

79-667

NOVEMBER 14, 1979

PAGE TWO

ask permission from the City of Mountain View to be able to connect onto the City's public water supply. If this cannot reasonably be accomplished, then the aforementioned requirements must be met.

3. The amount of hypochlorite powder (and its % purity) per 1000 feet of pipe required for disinfection for a two inch pipe should be mentioned in the specifications.

4. As described in Chapter 8 of the Uniform Plumbing Code for threaded joints, the pipe joint material should be non-toxic and insoluble in water. On page 4 of the specs, you mentioned that the thread coating shall be "white lead and pure linseed oil mixed to the consistency of thick paint" or teflon tape. Please provide further information on the toxicity of this white lead-pure linseed oil mixture.

If further information is required or if you have any questions concerning this review, please do not hesitate to contact us.

PERMIT TO CONSTRUCT

M 70 J  
11-29-79

- New
- Renewal
- Modified

Permit No. 79-668

City of Green River Collection System  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Green River  
(Last) (First) (Middle)

c/o Mayor R. W. Waggener

P.O. Box 1140

(Street or P.O. Box)

Green River, Wyoming 82935  
(City) (County) (State)

to construct, install, or modify a wastewater collection system

facility located in Sec. 15, T. 18 N., R. 107 W.  
(Legal Description)

in the County of Sweetwater, in the State of

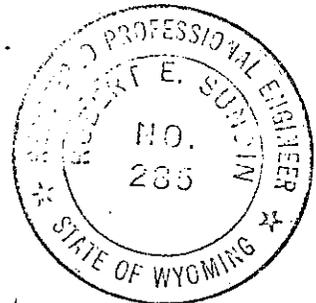
Wyoming. This permit shall be effective for a period of two years

from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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

*Robert E. Sundin*  
 Director  
 Wyoming Dept. of Environmental Quality



November 19, 1979

Date of Issuance

"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."



## Department of Environmental Quality

### Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 19, 1979

Mayor R. W. Waggener  
City of Green River  
P.O. Box 127  
Green River, WY 82935

RE: (1) Review of Plans and Specifications for the Blake Street Sewer Replacement and (2) the Standards Specifications for Public Works Improvements - City of Green River 79-668

Dear Mayor Waggener:

In order to help the City expedite the sewer replacement project for Blake Street, we have reviewed the aforementioned plans and specifications and have authorized a "Permit to Construct" to be issued to the City of Green River.

As far as our review of the "Standard Specifications for Public Works Improvements," we would like to offer the following comments for your consideration and action.

1. The references to pipe bedding, Division 4, Section 3-4.3 and Division 7, Section 10-5, should at least mention as complying with such references as ASCE MOP No. 37, ASTM C12-74, ASTM D2321-74, and/or UNI-B-4.

2. As discussed in Division 4, Section 1-4.4, the distances between manholes for sewers 18 inches to 30 inches in diameter should be 500 feet, not 600 feet as stated unless adequate modern cleaning equipment for such spacing is provided. If the City has such equipment, it should be so stated in the "Standard Specifications."

If further information is required or if you have any questions concerning this letter, please do not hesitate to contact us.

Respectfully,

A handwritten signature in cursive script that reads "M. Robin Collins".

M. ROBIN COLLINS, P.E.  
Environmental Engineer

cc: City Engineer's Office - Green River  
DEQ/WQD, Cheyenne

MRC/ms

1140  
10-21-79

PERMIT TO CONSTRUCT

New

Permit No. 79-669

Renewal

Modified

FMC Corporation

(Name of Facility)

This permit hereby authorizes the applicant:

FMC Corporation

(Last)

(First)

(Middle)

P.O. Box 872

(Street or P.O. Box)

Green River,

(City)

(County)

WY 82935

(State)

to construct, install, or modify a plant solids lake and dikes

facility located in Sec. 22, T. 19 N., R. 110 W.

(Legal Description)

in the County of Sweetwater,

in the State of

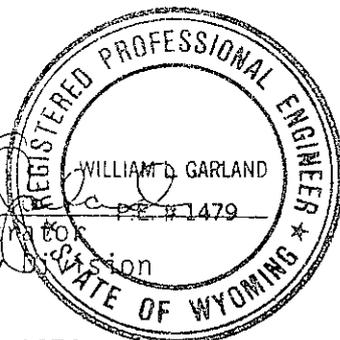
Wyoming. This permit shall be effective for a period of two (2) years

from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

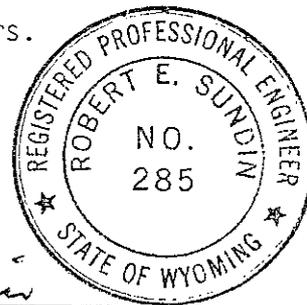
William D. Garland  
PE # 1479

Administrator  
Division  
Water Quality



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



December 4, 1979

Date of Issuance

"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."

cc: Philip M. Hoyt  
Laramie Engineering  
504 South Fourth  
Laramie, WY 82070

NOV 13 1979

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-670  
Ref. No. 72-102

Final Phase of Sunny Meadows Village - Trailer Court  
(Name of Facility)

This permit hereby authorizes the applicant:

Sunny Meadows Village  
(Last) (First) (Middle)

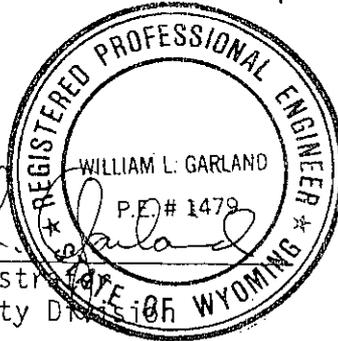
c/o Mr. Donald W. Bunn and Mrs. Doris L. Bunn  
P.O. Box 1010  
(Street or P.O. Box)

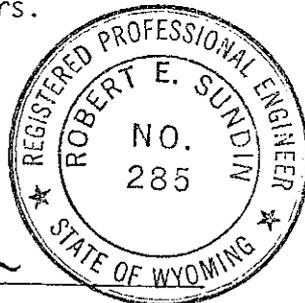
Laramie, WY 82070  
(City) (County) (State)

to construct, install, or modify a municipal distribution and collection system  
facility located in Sec. 29, T16N, R73W  
(Legal Description)

in the County of Albany, 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 not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrative Director  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


November 9, 1979  
Date of Issuance

"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."

cc: Frank Luers  
Western Engineers-Architects, Inc.  
501 N. Sun Drive  
Casper, WY 82601

PERMIT TO CONSTRUCT

11-15-79  
Don  
11-15-79

- New
- Renewal
- Modified

Permit No. 79-671

North Platte Park Waterline Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities  
(Last) (First) (Middle)

200 N. David  
(Street or P.O. Box)

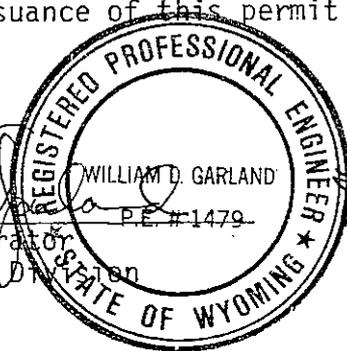
Casper, WY 82601  
(City) (County) (State)

to construct, install, or modify a municipal water distribution system  
facility located in City of Casper  
(Legal Description)

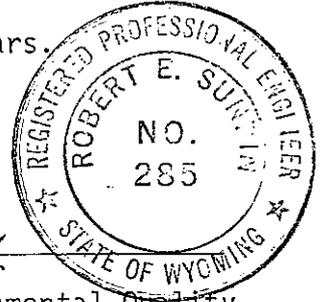
in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



November 9, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



THE STATE OF WYOMING

1-7-86

~~79-672RR~~  
79-672RR  
ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING CHEYENNE, WYOMING 82002 TELEPHONE 307 777-7781

January 3, 1986

Mayor Alan L. Sword  
Town of Mills  
P.O. Box 789  
Mills, WY 82644

RE: Standard Specifications and Design Criteria for Water Mains and Sanitary Sewers

Dear Mayor Sword:

The current Mills' "Standard Specifications and Design Criteria for Water Mains and Sanitary Sewers" were authorized under Department of Environmental Quality, Water Quality Division permit number 79-672RR on December 12, 1979. The Water Quality Division promulgated new standards for water mains and sanitary sewers in 1984 and 1985. Therefore the Mills' standard specifications are no longer valid or effective because of the Water Quality Division's recent changes.

I suggest that you update your specifications and resubmit them to the Water Quality Division for authorization. Another suggestion would be to adopt the Wyoming Public Works (WPW) standard specifications as published by the Wyoming Public Works Council and then modify them by special provisions to meet your specific requirements. The WPW standard specifications have been authorized by the Water Quality Division and meet the current Water Quality Division standards.

Please call if you have any questions.

Sincerely,

*Thomas S. Norman*

Thomas S. Norman  
Water Quality Engineer

TSN/nc

cc: Terry Titus

M-  
12-7-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Standard Specifications & Design Criteria for Water Mains and Sanitary Sewers, Town of Mills, Natrona Co.

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., 632 S. David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-672RR

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: December 4, 1979

ACTION: Approved with Following Requirement

COMMENTS:

WATERMAINS - STANDARD SPECIFICATIONS

Venting of Air Relief Pipes - All plans which incorporate air relief valves shall also include an addendum or standard detail which describes or illustrates the following construction: THE OPEN END OF ALL AIR RELIEF PIPES SHALL BE EXTENDED FROM THE MANHOLE OR ENCLOSING CHAMBER TO A POINT AT LEAST ONE FOOT ABOVE GROUND AND PROVIDED WITH A SCREENED DOWNWARD-FACING ELBOW.

M)  
11-27-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
XXXXXXXXXXXXXXXXXXXXXXXXXXXX  
State Office Building Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Standard Specifications and Design Criteria for Water Mains & Sanitary Sewers, Town of Mills, Natrona Co.

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., 632 S. David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-672R

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: November 16, 1979

ACTION: NOT APPROVED

COMMENTS:

Water Mains - Standard Specifications

1. Incorporate in the specifications or provide standard details or an addendum illustrating or consisting of the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains."
2. Incorporate in the specifications or provide a standard detail or addendum illustrating or consisting of the contents of Section 12.2.8.10 (pertaining to venting of air relief valves) of the "Water Main Design Criteria."

Sewer Mains - Standard Specifications

Incorporate in the specifications or provide standard details or an addendum illustrating or consisting of the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains."

DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
HATHAWAY BUILDING  
CHEYENNE, WYOMING 82002

REQUIREMENTS FOR HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER AND SEWER MAINS

I. Parallel Installation

A. Normal Conditions

Water mains shall be laid at least 10 feet horizontally from any sanitary sewer, storm sewer or sewer manhole, whenever possible; the distance shall be measured edge-to-edge.

B. Unusual Conditions

When local conditions prevent a horizontal separation of 10 feet, a water main may be laid closer to a storm or sanitary sewer provided that:

1. the bottom of the water main is at least 18 inches above the top of the sewer;
2. where this vertical separation cannot be obtained, the sewer shall be constructed of materials and with joints that are equivalent to water main standards of construction and shall be pressure tested to assure watertightness prior to backfilling.

II. Crossings

A. Normal Conditions

Water mains crossing house sewers, storm sewers or sanitary sewers shall be laid above the sewers to provide a separation of at least 18 inches between the bottom of the water main and the top of the sewer, whenever possible.

B. Unusual Conditions

When local conditions prevent a vertical separation as described in "A" above, the following construction shall be used:

1. sewers passing over or under water mains shall be constructed of materials described in "B.2." above for a horizontal distance of at least 10 feet on each side of the crossing;

## II. Crossings (Continued)

### B. Unusual Conditions (Continued)

2. water mains passing under sewers shall, in addition, be protected by providing:
  - a. A vertical separation of at least 18 inches between the bottom of the sewer and the top of the water main;
  - b. adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking the water mains;
  - c. that the length of water pipe be centered at the point of crossing so that the joints will be equidistant and as far as possible from the sewer.

Sub  
R-119-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Standard Specifications and Design Criteria for Water Mains and Sanitary Sewers, Town of Mills, Natrona Co.

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., 632 S. David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-672

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: November 7, 1979

ACTION: NOT APPROVED

COMMENTS:

Water Mains - Design Criteria

Insert the word "separation" following "prevent a vertical" in item "II, Crossings, B. Unusual Conditions" on page 12-6A.

Water Main - Standard Specifications

1. Insert the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains."
2. Insert the contents of Section 12.2.8.10 (pertaining to venting of air relief valves) of the "Water Main Design Criteria".

Sewer Mains - Design Criteria

Replace paragraphs 10.2.12.7, 10.2.12.8 and 10.2.12.9 with the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains."

DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
HATHAWAY BUILDING  
CHEYENNE, WYOMING 82002

REQUIREMENTS FOR HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER AND SEWER MAINS

I. Parallel Installation

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B. Unusual Conditions

When local conditions prevent a horizontal separation of 10 feet, a water main may be laid closer to a storm or sanitary sewer provided that:

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2. where this vertical separation cannot be obtained, the sewer shall be constructed of materials and with joints that are equivalent to water main standards of construction and shall be pressure tested to assure watertightness prior to backfilling.

II. Crossings

A. Normal Conditions

Water mains crossing house sewers, storm sewers or sanitary sewers shall be laid above the sewers to provide a separation of at least 18 inches between the bottom of the water main and the top of the sewer, whenever possible.

B. Unusual Conditions

When local conditions prevent a vertical separation as described in "A" above, the following construction shall be used:

1. sewers passing over or under water mains shall be constructed of materials described in "B.2." above for a horizontal distance of at least 10 feet on each side of the crossing;

## II. Crossings (Continued)

### B. Unusual Conditions (Continued)

2. water mains passing under sewers shall, in addition, be protected by providing:
  - a. A vertical separation of at least 18 inches between the bottom of the sewer and the top of the water main;
  - b. adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking the water mains;
  - c. that the length of water pipe be centered at the point of crossing so that the joints will be equidistant and as far as possible from the sewer.

cc: James R. Graves, P.E.  
3100 E. Sinclair  
Casper, WY 82601

PERMIT TO CONSTRUCT

New Permit No. 79-673R  
 Renewal  
 Modified

Cole's Trailer Park  
(Name of Facility)

This permit hereby authorizes the applicant:

Cole, Cora  
(Last) (First) (Middle)

Route 6  
(Street or P.O. Box)

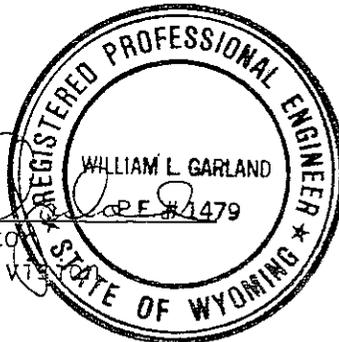
Douglas, WY 82633  
(City) (County) (State)

to construct, install, or modify a commercial subsurface wastewater disposal system  
facility located in Sec. 21, T32N, R71W  
(Legal Description)

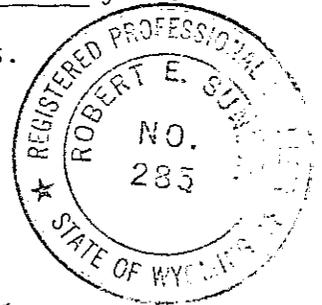
in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Surdin  
Director  
Wyoming Dept. of Environmental Quality



February 28, 1980  
Date of Issuance

"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."





Department of Environmental Quality  
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

Center West Partners  
1624 Market Street, Suite 307  
Denver, CO 80202

Gentlemen:

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

Facility name:	Mills Pump Station and 12" Water Transmission Line to Center West Subdivision, Casper, WY
DEQ/WQD Reference Number:	79-674
Engineering Consultant:	Tom Kukla, CEI, Inc.
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	November 28, 1979

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

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

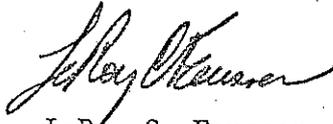
*Called Town of Mills. Project was never built and original applicant went bankrupt. Engineering firm is also out of business. Town does not want old plans for project that will never be built. 13 Apr 84  
Therefore, I am discontinuing plans.*

*never built*

*JK*

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

Sincerely,



LeRoy C. Feusner, P.E.  
Southeast District Supervisor  
Water Quality Division

cc: Tom Kukla  
CEI, Inc.  
P.O. Box 2000  
Casper, WY 82602



*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

Center West Partners  
1624 Market Street, Suite 307  
Denver, CO 80202

Gentlemen:

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DEQ/WQD Reference Number:	79-674
Engineering Consultant:	Tom Kukla, CEI, Inc.
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	November 28, 1979

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

The application will not be resubmitted as the proposed project has been cancelled.

The application will be resubmitted within 30 days.

The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

Other remarks \_\_\_\_\_

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

Sincerely,



LeRoy C. Feusner, P.E.  
Southeast District Supervisor  
Water Quality Division

cc: Tom Kukla  
CEI, Inc.  
P.O. Box 2000  
Casper, WY 82602

12-8-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~State Office Building~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Mills Pump Station and 12" Water Transmission Line to Center West  
Subdivision, Natrona Co.

ARCHITECT OR ENGINEER: CEI, Inc., P.O. Box 2000, Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 79-674

REVIEWING ENGINEER: LeRoy C. Feusner, P.E. *LF*

DATE OF REVIEW: November 28, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Water Main

1. All plans must carry the signature or seal of a registered professional engineer licensed in Wyoming.
2. Provide a letter of verification from the Town of Mills indicating that they can adequately supply at least 350 gallons of drinking water per home at a required pressure of 20 psi under all flow conditions.
3. Air relief valves or flushing hydrants are required at the water main high points near profile locations 14 + 00, 20 + 00, and 32.5 + 00 to remove excess trapped air from the mains. The open end of an air relief valve shall be extended at least one foot above grade and be provided with a screened, downward-facing elbow.
4. Provide deflection testing procedures and maximum allowable deflection (5%) for the 12" PVC water pipe.

Pumping Station

1. Eliminate drain to gravel sump and provide hookup to sanitary sewer for pump station wastewater.
2. Provisions shall be made for adequate heating to allow safe and efficient equipment operation.
3. What will be minimum intake water pressure under all flow conditions? Intake pressure shall be at least 20 psi when pump is in normal operation.

Mills Pump Station and 12" Water Transmission  
Line to Center West Subdivision  
DEQ/WQD Ref. No. 79-674  
November 28, 1979  
Page two

4. What type of automatic signaling apparatus will be installed to report when the station is out of service? Where will it sound?
5. What type of emergency power source can be provided when a power failure occurs? Will it provide enough energy to operate all three pumps?



*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 27, 1979

CEI, Inc.  
P. O. Box 2000  
Casper, WY 82602

Dear Sir:

This office has reviewed the proposed pump station and proposed transmission line for the Center West Subdivision. While reviewing the application with regard to a safe and adequate water supply, this office looked into the present and proposed source, storage and hydraulic analysis of the Mills system. The source, storage and a minimum pressure of 20 psi under all conditions of flow were evaluated to be inadequate to allow the proposed Center West development to be serviced by Mills under the present Mills system.

In researching where additional storage and supply was to be obtained, the applications to the Farm Loan Board were discovered. The proposed supply improvements were to be provided by a new water treatment plant with construction funds being obtained through a joint powers application with the Town of Mills and Wardwell Water and Sewer District. Further investigation revealed that the proposed subdivision could be provided water from a transmission line owned by Wardwell Water and Sewer District which is within fifty (50) feet of a possible Center West Subdivision connection.

The approximately three quarters of a mile of water transmission line and the booster station seem highly uneconomical. Even if the Town of Mills does not have to pay for the construction of the booster station and transmission line, the O&M costs would cause the Town additional financial burdens which are not realized by a gravity system.

This same three quarters of a mile of proposed transmission line parallels a line of Wardwell Water and Sewer District. It is my understanding that Wardwell is proposing to apply for loans from the Farm Loan Board to increase the size of this paralleling line to a 14" diameter. The duplication and wasted energy for operation and maintenance seem to be highly unjustified.

Water Quality Division will continue with the review process on the proposed water system. However, Water Quality Division policy has always been to try to achieve centralized facilities. Therefore, by copy of this letter, the Farm Loan Board is being made aware of this proposed project and the resultant waste of funds. This office requests that the Farm Loan Board provide assistance in any way it can and strongly recommends that Mills and Wardwell Water and Sewer District get together and work out an agreement to resolve the duplication with an economic solution.

My understanding of the "Land Use Plan" for this area calls for centralized water and sewer systems. The water treatment plant is being funded through a joint application. Therefore, the water will be provided by the same water treatment plant. I would recommend that the Center West subdivision and future subdivisions be serviced by a gravity system. Under present and proposed facilities, this can be accomplished more readily off of the Wardwell transmission line.

Realizing that ordinances of both entities prevent the sale of water outside the respective boundaries, a recommendation is made to have both entities own the transmission line to the point of distribution to the Mills area. By this joint ownership of the transmission line, an agreement could be drafted to allow the use without actual sale from Mills. Pumping costs could be reimbursed to Wardwell. I am sure Mills could work out an agreement with the Center West developer to help pay a portion of the costs of the new transmission line which Wardwell is proposing to ask for funds from the Farm Loan Board. The line would probably require a slight enlargement over the original design.

Should any questions arise or any clarification be required, do not hesitate to contact me. This office is available to attend any meetings scheduled concerning this matter.

Yours Truly,



Jake Strohmman  
Control Engineering Supervisor  
Water Quality Division

JS/jn

cc: Oscar Swan  
Town of Mills  
Wardwell Water and Sewer District  
Russ Donley, Western Engineers  
Doran Boston, Town of Mills Engineer  
Natrona County Planning Office  
Bill Garland, DEQ, WQD  
Paul Schweiger, DEQ, WQD

cc: Russell L. Donley  
Western Engineers  
501 N. Sun Drive  
Casper, WY 82601

12-22-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-675RR  
(SEE ATTACHMENT)

Town of Mills - Booster Pump Station  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Mills  
(Last) (First) (Middle)

P.O. Box 789  
(Street or P.O. Box)

Mills, WY 82644  
(City) (County) (State)

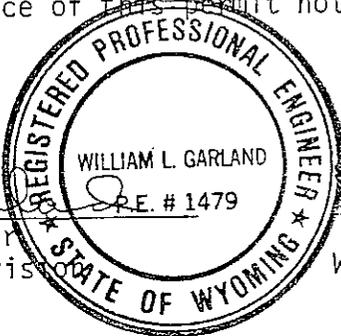
to construct, install, or modify a booster pump station  
facility located in Sec. 12, T33N, R79W  
--(Legal Description)

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

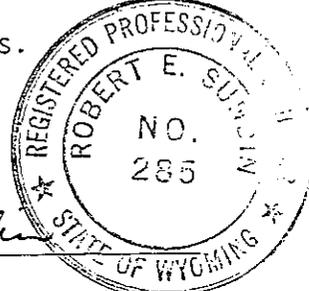
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sunden  
Director  
Wyoming Dept. of Environmental Quality



February 12, 1980  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.





REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~XXXXXXXXXXXXXXXXXXXX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Booster Pump Station, Town of Mills, Natrona Co.

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc., 501 N. Sun Drive,  
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-675

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: November 20, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Pump Station

1. Submit the data and the design calculations on which the required number of pumps and the pump capacities were determined.
2. Since only 2 pumps are to be provided at present, each shall be capable of carrying the peak demand.
3. The booster pumps shall be so located or controlled that the intake pressure and the distribution pressure at all locations shall be at least 20 psi under all conditions of flow.
4. Provide for automatic pump cut off at a pressure of not less than 5 psi in the pump suction line.
5. Each pump shall have a standard pressure gauge on its discharge line and a compound gauge on its suction line.
6. If power failure would result in cessation of minimum essential service, power supply shall be provided from at least two independent sources or standby or auxiliary source shall be provided.
7. Provide a bypass if minimum essential service can be provided without pumping.
8. Provide crane ways, hoist beams, eyebolts or other adequate facilities for servicing or removal of pumps, motors, etc.
9. Provide any necessary openings in the floor, walls, or roof to remove heavy or bulky equipment.

Chlorination Facility

1. Scales shall be provided for weighing chlorine cylinders. It is recommended that the chlorination room floor be recessed to accommodate the scales.
2. Empty and full chlorine cylinders should be restrained in position to prevent upset.

Note: Rigid bars around the cylinders on the scales but not in contact with the cylinders will prevent upset while not interfering with weighing.

3. Specify that all openings for pipes, wires, etc. in the partition between the chlorine room and the pump room shall be gas tight.
4. Provide a corrosion resistant vent pipe to the outside above grade to serve the chlorinator vent.
5. Since no toxic powdered chemical will be employed, it appears that the safety equipment specified in item 7.c. on page XII-4 of the specifications will not be required.

General

Submit a letter from the Town of Mills Water Department indicating the availability of an adequate supply of potable water to serve the proposed booster station.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~STATE OFFICE XXXXXXXXX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Booster Pump Station, Town of Mills, Natrona Co.

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc., 501 N. Sun Drive,  
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-675

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: November 20, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Pump Station

1. Submit the data and the design calculations on which the required number of pumps and the pump capacities were determined.
2. Since only 2 pumps are to be provided at present, each shall be capable of carrying the peak demand.
3. The booster pumps shall be so located or controlled that the intake pressure and the distribution pressure at all locations shall be at least 20 psi under all conditions of flow.
4. Provide for automatic pump cut off at a pressure of not less than 5 psi in the pump suction line.
5. Each pump shall have a standard pressure gauge on its discharge line and a compound gauge on its suction line.
6. If power failure would result in cessation of minimum essential service, power supply shall be provided from at least two independent sources or standby or auxiliary source shall be provided.
7. Provide a bypass if minimum essential service can be provided without pumping.
8. Provide crane ways, hoist beams, eyebolts or other adequate facilities for servicing or removal of pumps, motors, etc.
9. Provide any necessary openings in the floor, walls, or roof to remove heavy or bulky equipment.

Chlorination Facility

1. Scales shall be provided for weighing chlorine cylinders. It is recommended that the chlorination room floor be recessed to accommodate the scales.
2. Empty and full chlorine cylinders should be restrained in position to prevent upset.

Note: Rigid bars around the cylinders on the scales but not in contact with the cylinders will prevent upset while not interfering with weighing.

3. Specify that all openings for pipes, wires, etc. in the partition between the chlorine room and the pump room shall be gas tight.
4. Provide a corrosion resistant vent pipe to the outside above grade to serve the chlorinator vent.
5. Since no toxic powdered chemical will be employed, it appears that the safety equipment specified in item 7.c. on page XII-4 of the specifications will not be required.

General

Submit a letter from the Town of Mills Water Department indicating the availability of an adequate supply of potable water to serve the proposed booster station.

cc: Paul McCarthy  
Robert Jack Smith & Associates  
Box 1104  
Rawlins, WY 82301

M  
11-27-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-676

Town of Saratoga, Farm Ave. Water Line Extension  
(Name of Facility)

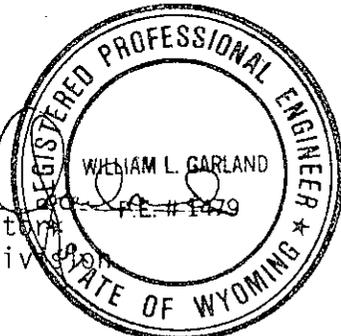
This permit hereby authorizes the applicant:

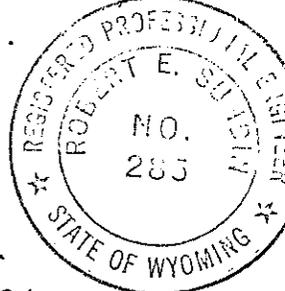
T. Lowell Construction  
(Last) (First) (Middle)  
Box 302  
(Street or P.O. Box)  
Rawlins, WY 82301  
(City) (County) (State)

to construct, install, or modify a municipal water distribution system  
facility located in Sec. 12, T17N, R84W  
(Legal Description)

in the County of Carbon, 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 not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


November 27, 1979  
Date of Issuance

"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."

cc: John E. Donmyer  
P.O. Box 3478  
Casper, WY 82602

11-26-77

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-677

Mountain View Addition Renovation, Water Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

Brooks Water & Sewer District  
 (Last) (First) (Middle)  
 c/o HNTB  
P.O. Box 3478  
 (Street or P.O. Box)

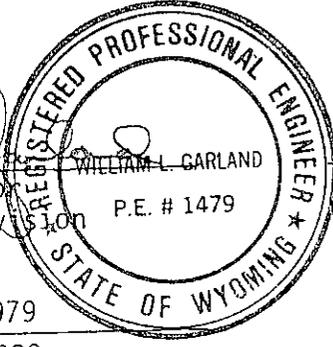
Casper, WY 82602  
 (City) (County) (State)

to construct, install, or modify a municipal water distribution system  
 facility located in Sec. 1 & 12, T33N, R80W  
 (Legal Description)

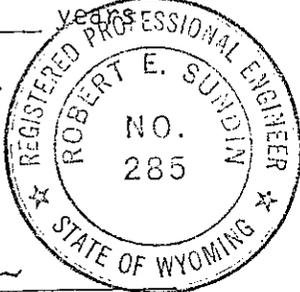
in the County of Natrona, in the State of  
 Wyoming. This permit shall be effective for a period of two (2) years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division  
 P.E. # 1479



Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



November 14, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

cc: Frank Luers  
Western Engineers  
501 N. Sun Dr.  
Casper, WY 82601

11-26-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-678

North Platte Park Sewer Improvements  
(Name of Facility)

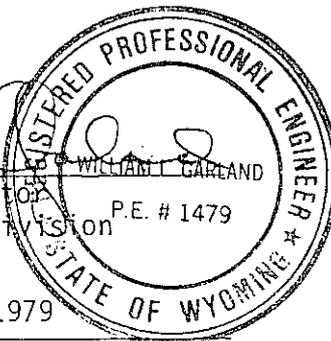
This permit hereby authorizes the applicant:

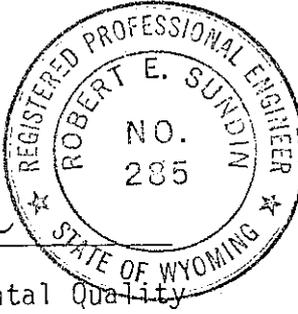
Casper Board of Public Utilities  
 (Last) (First) (Middle)  
200 N. David  
 (Street or P.O. Box)  
Casper, WY 82601  
 (City) (County) (State)

to construct, install, or modify a municipal sewer collection system  
 facility located in the City of Casper  
 (Legal Description)

in the County of Natrona, 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 not to exceed five (5) years.

AUTHORIZED BY:

William J. Garland  
 Administrator  
 Water Quality Division  
 P.E. # 1479  


Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality  


November 14, 1979  
 Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

M to L  
11-27-79

- New
- Renewal
- Modified

Permit No. 79-679R

Western Hills Mobile Home Park Addition Sewage Lift Pump Station  
(Name of Facility)

This permit hereby authorizes the applicant:

Western Hills, LTD., Boris Vukovich  
(Last) (First) (Middle)

5650 E. Evans, Suite 200  
(Street or P.O. Box)

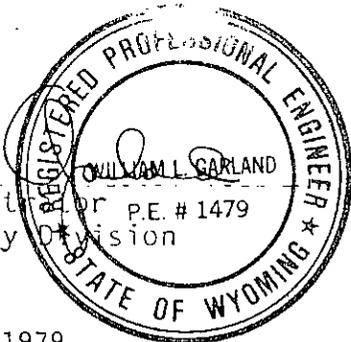
Denver CO 80222  
(City) (County) (State)

to construct, install, or modify a sewage lift pump station  
facility located in Section 12, T. 18N., R. 106W.  
(Legal Description)

in the County of Sweetwater, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

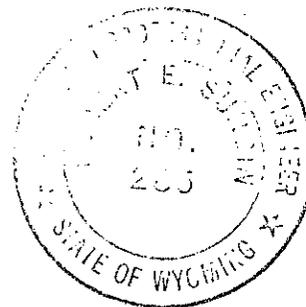
AUTHORIZED BY:

William L. ...  
Administrator  
Water Quality Division



Robert E. Sandin  
Director

Wyoming Dept. of Environmental Quality



November 21, 1979  
Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144



PROJECT: Western Hills Mobile Home Park Addition Sewage Lift Pump Station

ENGINEER: Indo American Engineering  
P. O. Box 1813  
Rock Springs, WY 82901  
ATTN: Dinesh P. Sheth

OWNER: Western Hills LTD.  
Boris M. Vukovich  
5650 E. Evans, Suite 200  
Denver, CO 80222

WATER QUALITY DIVISION REFERENCE NUMBER: 79-679

REVIEWING ENGINEER: M. Robin Collins, P. E.

DATE OF REVIEW: November 12, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

After reviewing the aforementioned report, I would like to offer the following comments for your consideration and reply in processing the necessary permit:

1. An "Application for Permit to Construct, Install, or Modify Public Water Supplies and Wastewater Facilities in Wyoming" must be properly completed and submitted to this District Office for the proposed sewage lift pump station.
2. More clarifying information is needed on the combination manhole/lift pump station. Such information are as described below:
  - a. The diameter of the unit is not clear. You've indicated that you plan to use a 36 inch diameter pump station, yet according to your notes on "Exhibit A", the City of Rock Springs has a minimum diameter for a precast manhole of 42 inches. Which size do you plan to use?
  - b. The anticipated flow to the manhole/pump station should be completely analyzed. You gave no information on how the flow from the existing sewer line to the manhole will affect the capacity of the pump station. How much flow does the existing sewer line now carry? Will the existing line from the manhole to the sewage treatment plant have enough carrying capacity to handle the discharge from the pump station without subcharging?

Reference Number: 79-679.  
Review of Plans & Specifications  
Western Hills Mobile Home Park  
PAGE 2

- c. Where will the pump controls and the emergency pump lights be specifically located?
3. The pump station should have enough storage capacity to adequately handle a normal power outage for this region. Please provide the necessary data to insure us that no serious back-up problems will develop for a typical power outage.

If further information is required or if you have any questions concerning this review, please do not hesitate to contact us.

cc: J. Kenneth Kennedy  
P.O. Box 1089  
Wheatland, WY 82201

M 27 1979

PERMIT TO CONSTRUCT

New

Permit No. 79-680

Renewal

Modified

Fairacre Tracts 8" Sewer Line

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Wheatland

(Last)

(First)

(Middle)

600 Ninth Street

(Street or P.O. Box)

Wheatland,

(City)

(County)

WY 82201

(State)

to construct, install, or modify a municipal sewage collection system

facility located in Sec. 13, T24N, R68W

(Legal Description)

in the County of Platte,

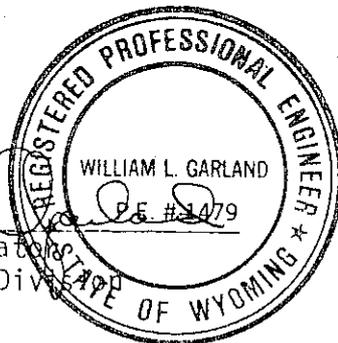
in the State of

Wyoming. This permit shall be effective for a period of two (2) years

from the date of issuance of this permit not to exceed five (5) years.

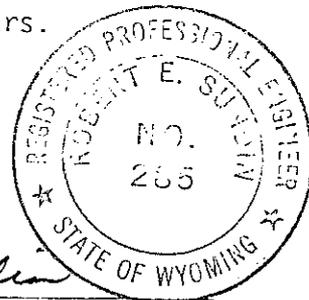
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



November 27, 1979

Date of Issuance

"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."

cc: Ed S. Rate, Jr.  
P.O. Box 930  
Casper, WY 82602

M  
11-27-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-681

B. Moore Mobil Home Spaces  
(Name of Facility)

This permit hereby authorizes the applicant:

Moore, Ben  
 (Last) (First) (Middle)

Bates Creek Route, Box 5847  
 (Street or P.O. Box)

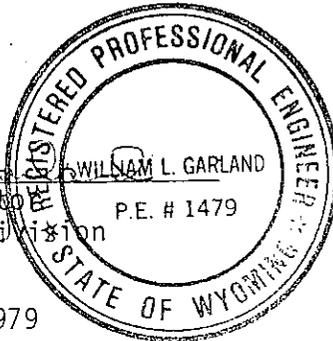
Casper, WY 82601  
 (City) (County) (State)

to construct, install, or modify a small subsurface disposal  
 facility located in Sec. 34, T31N, R80W  
 (Legal Description)

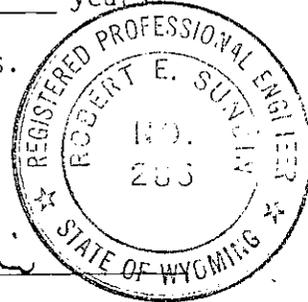
in the County of Natrona, in the State of  
 Wyoming. This permit shall be effective for a period of two (2) years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
 Administrator  
 Water Quality Division



*Robert E. Sundin*  
 Director  
 Wyoming Dept. of Environmental Quality



November 19, 1979  
 Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



THE STATE OF WYOMING

*Norma file*

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

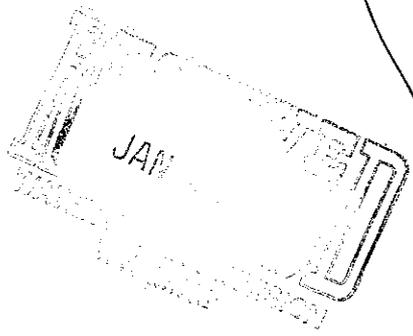
2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING, 82801

TELEPHONE 307-672-6457

January 10, 1983

Mr. Truman E. Louderback  
Cleveland-Cliffs  
P.O. Box 3140  
Casper, Wyoming 82602-3140



Dear Truman:

This is in reply to your letter of November 12, 1982, regarding the process wastewater drain field at the Collins Draw Project. In the letter, you request that the Water Quality Division terminate Permit to Construct 79-682, in order that reclamation of the drain field could proceed.

Termination of the Permit is not necessary in this situation. Although operational requirements were attached to it, the Permit was primarily for construction of the facility. Since the facility was constructed and operated in the authorized manner, and will now be abandoned, the Permit is moot, except for those conditions dealing with shut down and post-operational monitoring.

The groundwater section of the Water Quality Division will continue to cooperate with the Land Quality Division in evaluating the groundwater impacts of the Collins Draw Project, and further correspondence on this should be directed to: Mr. Richard Lennox, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming, 82002.

Thank you for your cooperation in this matter, and in particular for the timely filing of the reports required by the Permit. They were very useful. If you have any further questions on this, feel free to contact myself or Mr. Lennox.

Yours truly,

*Tom Mueller*

Tom Mueller  
District Supervisor

TM:ls

xc: Jake Strohan  
Dick Lennox  
Rick Chancellor  
John H. Linehan

cc: Robert O. Birkle  
2680 18th Street  
Denver, Colorado 80211

MtoS  
2-7-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-682  
(Reference 79-323R)

COLLINS DRAW INDUSTRIAL WASTEWATER FACILITY

(Name of Facility)

This permit hereby authorizes the applicant:

The Cleveland-Cliffs Iron Company  
(Last) (First) (Middle)

P.O. Box 3140  
(Street or P.O. Box)

Casper, Wyoming 82602  
(City) (County) (State)

to construct, install, or modify a industrial wastewater leach field  
facility located in Section 35, T.43N., R.76W.  
(Legal Description)

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 not to exceed five (5) years.

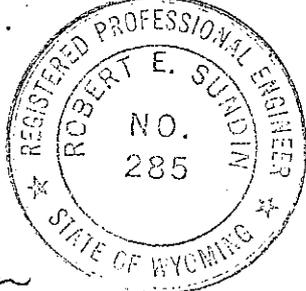
NOTE: See Attached Conditions

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division  
 P.E. # 1479



Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



January 29, 1980  
Date of Issuance

"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."

Conditions Attached to Water Quality Division  
Permit to Construct Number 79-682

(Permittee: Cleveland Cliffs Iron Company)

Condition 1

The permittee shall construct only one of the four leach fields shown on Figure 2 of the application.

Condition 2

The permittee shall monitor the quantity of wastewater discharged to the leach field, and shall take and analyze samples of the wastewater and shall maintain an inventory of the accumulated wastewater constituents discharged, as further explained below. All sampling, analyses, and monitoring required herein shall be representative of the volume and nature of the discharge.

Listed below are the constituents of which an inventory is to be maintained by the permittee. Listed with each constituent is the accuracy to which the inventory shall be maintained for that constituent, the maximum total amount of that constituent to be discharged, and the maximum permissible concentration of the constituent in any single sample.

<u>Constituent</u>	<u>Accuracy of Inventory</u>	<u>Maximum Discharge</u>	<u>Maximum Concentration</u>
Wastewater	5%	950,000 gallons	Not Applicable
Total Dissolved Solids	15%	None	None
Ammonia Nitrogen	10%	None	None
Sodium	10%	None	None
Total Radium-226	10%	$3.5 \times 10^7$ picoCuries	50 picoCuries per liter
Arsenic	10%	2 kilograms	5 milligrams per liter
Selenium	10%	2 kilograms	5 milligrams per liter
Uranium (as U)	10%	2 kilograms	20 milligrams per liter

The permittee shall sample the wastewater discharged to the leach field at least once on every day that a discharge is made. However, in the interest of reducing the amount and cost of sample analysis, samples may be combined, or "composited." The compositing of samples, however, is to be proportioned in such a manner that an accurate inventory is maintained. Sample preservation requirements must be met for composited, as well as un-composited, samples (see Condition 6).

### Condition 3

The permittee shall complete a minimum of three monitoring wells into the first subsurface groundwater, below the "impermeable shale layer," as shown in Figure 3 of the application. A minimum of one well shall be completed "up-gradient," of the leach field, A minimum of two wells shall be completed "down-gradient" of the leach field. For the purposes of this requirement, "down-gradient" shall be interpreted as being in the direction of groundwater flow, and "up-gradient" shall be interpreted as the opposite direction.

These monitoring wells shall be sampled at least once monthly, and the samples shall be analyzed for Uranium, Ammonia Nitrogen, Sodium, Chloride, and Total Dissolved Solids. In addition, once every three months (quarterly), the samples shall also be analyzed for Arsenic, Selenium, and Radium-226. Prior to sampling, sufficient water shall be pumped from the monitoring wells to assure that representative samples are obtained.

### Condition 4

Prior to the discharge of wastewater to the leach field, the permittee shall prepare estimates of the distances, horizontal and vertical, which the wastewater is anticipated to migrate. These estimates and supporting documentation for them shall be made available, in report form, to the Department of Environmental Quality. Supporting documentation should address the effects of saturated versus unsaturated flow, evaporation, precipitation and post-operational wastewater movement, at a minimum.

Based on the above-mentioned estimates, the permittee shall drill six monitoring holes around the leach field. The holes shall be a short distance beyond the anticipated wastewater migration. Neutron probes, or equivalent soil moisture equipment, shall be used to monitor these holes monthly. The holes shall be drilled and monitored from the surface to the impermeable shale layer.

In the event that the above-mentioned monitoring indicates significant increases in soil moisture in any monitoring hole(s), the permittee shall drill additional holes, adjacent to the monitoring hole(s), and to the depth(s) of the increased soil moisture. Suction-cup apparatus shall then be used to obtain samples from these additional holes, and the samples shall be analyzed for all the constituents listed in Condition 2. Such sampling and analysis, when instituted, shall be repeated monthly until at least six months following the cessation of all wastewater discharge to the leach field.

If there is any dispute regarding the requirement for suction-cup sampling as described in this Condition, the determination of the Director of the Department of Environmental Quality shall prevail.

### Condition 5

The permittee shall retain records of all the monitoring, sampling and analyses required in Conditions 2, 3 and 4 of this Permit. Such records are to be made available to the Department of Environmental Quality upon request.

In addition, the permittee shall submit reports, at intervals of not less than once every two calendar months, to the Land Quality and Water Quality Divisions of the Department of Environmental Quality. Such reports shall contain, at a minimum, the following information:

1. A copy of the wastewater constituents inventory described in Condition 2, updated to reflect the most recent analyses and quantity information available as of the date of the report.
2. The constituent concentration, and date-of-sampling for any and all sample analyses which exceed the Maximum Concentrations described in the table in Condition 2, for the reporting period.
3. Results of all sample analyses obtained during the reporting period for samples taken from the monitoring wells described in Condition 3.
4. A listing of any and all increases and decreases in soil moisture, in excess of 5%, found by the neutron probe monitoring described in Condition 4. The increase or decrease shall be measured from the initial value determined at the time the holes were drilled. The location of the monitoring hole, and depth to the increased moisture, shall also be reported. Additionally, any increase in soil moisture of 10% or greater, when compared to the most recent previous measurement, shall be reported to the Department of Environmental Quality within 48 hours by telephone, and an immediate written follow-up report shall also be made.
5. Results of all sample analyses obtained during the reporting period for the suction-cup samples described in Condition 4.

It is recognized that the time required for certain wastewater analyses (in particular Radium-226) will delay reporting of these analyses results beyond the reporting date for the period in which the samples were taken. This will be allowed; however, such delayed analyses results should be reported as soon as they are available. Note that this paragraph in no way excuses the permittee from prompt sampling, monitoring, analysis and reporting as required elsewhere in these Conditions.

#### Condition 6

Procedures for all sampling, storage and analysis of samples required by these conditions shall be in accordance with the most recent edition of Standard Methods for the Examination of Water and Wastewater, or otherwise with regulations published pursuant to Section 304(g) of the Federal Water Pollution Control Act, as amended by the Clean Waters Act.

#### Condition 7

Under any of the following conditions, the permittee shall cause operation of the leach field to be shut down, (i.e., all discharge of wastewater to the leach field shall be ceased):

1. Failure on the part of the permittee to comply with Conditions 2, 3, 4, or 5 of this Permit.
2. Discharges of Wastewater, Radium-226, Arsenic, Selenium or Uranium in excess of the Maximum Discharges of these constituents as defined in Condition 2, or a finding that any said Maximum Discharge will be significantly exceeded prior to final shutdown of the leach field.
3. Significant increases in the concentrations of Radium-226, Arsenic, Selenium, Uranium, Ammonia Nitrogen or Total Dissolved Solids in the samples taken from the monitoring wells described under Condition 3.
4. Determination, based on results of the neutron probe investigations described under Condition 4, that wastewater is moving away from the leach field a) immediately beneath the ground surface, b) preferentially in some direction, c) significantly further than anticipated, or d) in any manner which may cause irreversible environmental damage.
5. Determination, based on analysis results of suction-cup sampling as described under Condition 4, that the discharged wastewater is not being essentially purified of Radium-226, Selenium, Arsenic, Uranium, Ammonia Nitrogen and extremely high Total Dissolved Solids.
6. Surfacing of the wastewater discharged to the leach field.
7. The appearance on the surface of the ground of salt deposits which are attributable to the operation of the leach field, or significant vegetative loss in the vicinity of the leach field attributable to the salts discharged to the leach field.

If there should arise any dispute as to the significance of any findings indicating the existence of any of the above-listed conditions, the decision of the Director of the Department of Environmental Quality shall prevail. If

the leach field is ever shut down due to a finding of any of the above-listed conditions, further wastewater discharge to the leach field is to take place only with the written permission of the Director.

Any requirement to shut down the leach field shall not relieve the permittee of any obligation under Land Quality Division Permit No. RD 3 to restore subsurface aquifers into which he has made chemical injections.

#### Condition 8

It is anticipated by the Water Quality Division that experience gained from operation of the permitted facility will be used to justify future applications for similar, commercial scale facilities. While not strictly a condition of this Permit, the following requirements will be considered necessary, by the Water Quality Division, in considering any such future application(s).

The permittee shall conduct a post-shutdown monitoring study of the leach field. The study shall consist, at a very minimum, of drilling four sampling holes in the area influenced by the wastewater discharge.

Soil samples, and water samples where obtainable, shall be analyzed for the various wastewater constituents, and the values obtained shall be compared with values for adjacent areas unaffected by the leach field. Regarding soil samples, analyses for both soluble and insoluble constituents should be made.

The study should compare the results of the sampling program with anticipated effects on the leach field area, and discuss anticipated long range effects on the groundwater, soil, and vegetation, caused by the leach field.

79-682

MEMORANDUM

TO: Tony Mancini  
    ~~Jake Strohman~~

FROM: Tom Mueller *T.M.*

DATE: December 12, 1979

SUBJECT: Cleveland-Cliffs' Collins Draw  
          Process Disposal Leach Field

This memo is intended to convey my thoughts on the Cleveland-Cliffs application dated November 8, 1979 (Reference 79-682). The application proposes disposal of Radium-226, in a leach field, at levels which are very low but in excess of drinking water standards. For this reason, a joint Land Quality/Water Quality meeting has been arranged for Tuesday, December 18, 1979. I feel that even though I might favor approval of this particular facility, such a (possibly) precedent-setting action should also be approved by the Engineering Supervisor or Administrator of Water Quality. I should mention that Cleveland-Cliffs personnel will probably be present at the above mentioned meeting.

Technically, I will make the following comments on the proposed facility:

- 1) In previous meetings and conversations with Cleveland-Cliffs representatives, I have indicated that if a Permit to Construct is issued, there will be attached to it limitations on quantities and concentrations of certain materials to be discharged, as well as monitoring requirements (similar to a NPDES permit). I have no qualms about doing this and feel I can, with Tony Mancini's help if necessary, prepare the necessary conditions.
- 2) Regarding the extent of migration of Radium, Arsenic and Selenium in the drainfield, I feel the application, in particular Appendix I, presents incomplete and incorrect information. The incompleteness stems from the assumption of a constant distribution coefficient, whereas in actuality the coefficient may be strongly influenced by (a) very high solution strengths at certain times during the life of the leach field, (b) the presence at times of considerable quantities of ammonia, which is preferentially absorbed. Added to this is the fact that the application assumes a constant concentration of the materials in question, which will not be the case.

The incorrectness lies in the following equation, found on page A-I-3:

$$d = \frac{(Ra)_{\text{feed}} Q t}{5 \text{ pCi/l } K A \rho_b}$$

This equation should be:

$$d = \frac{\ln \left( \frac{(Ra)_{\text{feed}}}{5 \text{ pCi/l}} \right) Q t}{K A \rho_b}$$

Tony Mancini  
Jake Strohman  
December 12, 1979  
Page Two

I am prepared to argue this point at length, if necessary, with Cleveland-Cliffs personnel. However, I don't think it will be necessary, since the effect is to substantially reduce the calculated penetration depth of the species in question. The same problems exist in Appendix II, on ammonia penetration depth.

- 3) In spite of the above weaknesses, I feel the facility should be approved. I believe, in fact, that this might be the best way to dispose of this type of waste. The only things that I feel need to be clarified are (a) the process flow sheet, to assure us that we know exactly what is being discharged and (2) a commercial scale operation will not necessarily be approved, pending analysis of cores taken from this facility after it is shut down. We need to know with a little more certainty the final disposition of the Radium in particular.

79-682

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 15, 1979

Tom Mueller, Area I Engineer  
DEQ--WQD  
30 East Grinnell  
Sheridan, WY 82801

Dear Tom:

I have been provided a copy of: Application for Permit to Construct and Operate an Industrial Wastewater Facility Collins Draw, dated November 14, 1979 with our number 79-682. This was prepared by the Cleveland-Cliffs Iron Company.

I assume that we are going to abide by our past discussion. If you want me to do otherwise, let me know. I will read the Application for information, when I have time, but will not offer additional comments unless you believe new comments are appropriate, and so advise.

Sincerely,

A handwritten signature in cursive script that reads "Tom".

A. J. Mancini

AJM/tb

cc: C.K. Wolz  
Wolz & Associates  
933 W. 14th St.  
Casper, WY 82601

12-25-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-683R

Harnischfeger Corporation  
(Name of Facility)

This permit hereby authorizes the applicant:

Harnischfeger Corp.  
(Last) (First) (Middle)

4400 National Ave.  
(Street or P.O. Box)

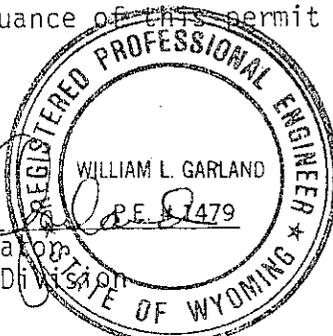
Milwaukee, WI 53246  
(City) (County) (State)

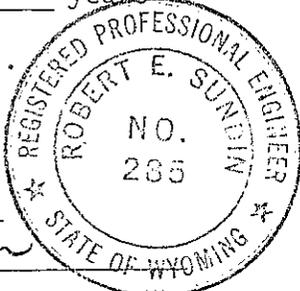
to construct, install, or modify a commercial subsurface disposal  
facility located in Lot 24, Interstate Industrial Park  
(Legal Description)

in the County of Natrona, 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 not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrative  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


December 21, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



cc: Elmo G. Peterson  
Wind River Engineers  
2333 Rose Lane  
Riverton, WY 82501

PERMIT TO CONSTRUCT

misc  
11-20-79

- New
- Renewal
- Modified

Permit No. 79-684  
modification of Permit 79-277R

Lot 82, Spyglass Point Townhomes Water and Sewer  
(Name of Facility)

This permit hereby authorizes the applicant:

Empire Land and Development  
(Last) (First) (Middle)

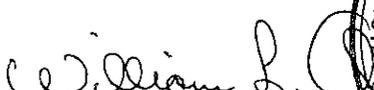
P. O. Box 1175  
(Street or P.O. Box)

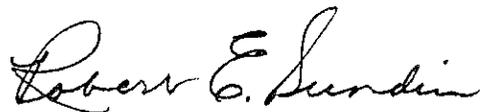
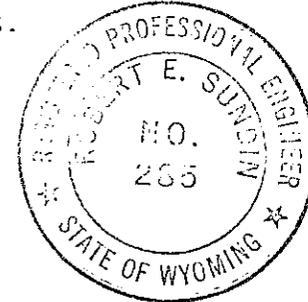
Riverton, Wyoming 82501  
(City) (County) (State)

to construct, install, or modify a water distribution and sewage collection  
facility located in Section 31, T. 1N., R. 4E.  
(Legal Description)

in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

  
Administrative  
Water Quality Division  


  
Director  
Wyoming Dept. of Environmental Quality  


November 21, 1979  
Date of Issuance

"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."

cc: Carlton & Carlton  
P.O. Box 435  
Evanston, WY 82930

PERMIT TO CONSTRUCT

MTOJ  
11-29-79

- New
- Renewal
- Modified

Permit No. 79-685

Ranch Estates Apartments Sewer System  
(Name of Facility)

This permit hereby authorizes the applicant:

Forest Investment Corporation  
(Last) (First) (Middle)

314 - 108 Ave. NE  
(Street or P.O. Box)

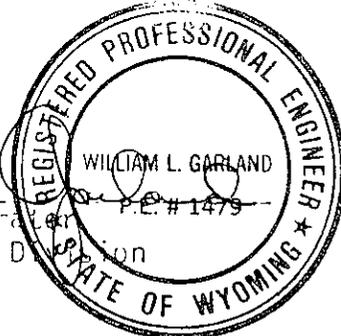
Bellevue, Washington 98004  
(City) (County) (State)

to construct, install, or modify a wastewater collection  
facility located in Sec. 16, T. 15 N., R. 120 W.  
(Legal Description)

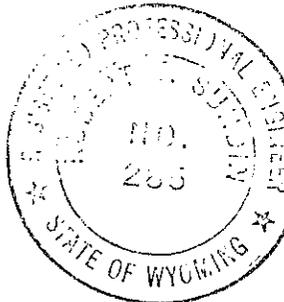
in the County of Uinta, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
 Administrator  
 Water Quality Division



*Robert E. Sundin*  
 Director  
 Wyoming Dept. of Environmental Quality



November 19, 1979  
Date of Issuance

"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."

Case Closed

79-686RRR

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

## Department of Environmental Quality

### Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING  
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 25, 1980

Mr. Donald Lamb  
Associated Engineers  
910 Garfield  
Laramie, WY 82070

Re: Notice of Violation and Order, Docket No. 707-80,  
Bob Burnett Apartments, Medicine Bow, DEQ #79-686RRR

Dear Don:

We have received your letter, dated August 4, 1980, concerning compliance construction for the referenced project. With completion of the 240 foot, eight inch sewer line to replace the existing six inch line, it appears that minimum State of Wyoming standards have been satisfactorily met for this project. Since a Permit to Construct cannot be issued, this letter will serve as your final approval document.

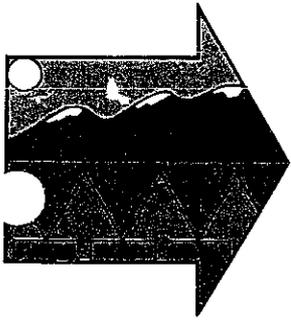
Sincerely,

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

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

LCF/pjb

cc: Bob Burnett  
Enforcement file



# ASSOCIATED ENGINEERS

William E. Grenier, P.E., L.S.

79-686 RRR  
Donald R. Lamb, Ph.D., P.E.

910 Garfield Street

Laramie, Wyoming 82070

Phone (307) 742-6271

August 4, 1980



Mr. LeRoy Feusner, P.E.  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
Hathaway Building  
Cheyenne, Wyoming 82002

RE: BOB BURNETT'S MEDICINE BOW PROJECT

Dear LeRoy:

This morning I went to Medicine Bow and checked the 8 inch line that has now replaced the old 240 ft. 6 inch line. I checked visually to see if it was straight and it was.

This completes the list of things you needed to accept the project. Will be looking forward to receiving your acceptance letter. Thanks for all you help in this matter.

Cordially,

ASSOCIATED ENGINEERS

Donald R. Lamb

DRL:lsc  
pc:Bob Burnett  
Marilyn Kite

11  
3-17-80

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Hathaway Building  
Cheyenne, Wyoming 82002

PROJECT: Bob Burnett, Medicine Bow, WY, Carbon County

ARCHITECT OR ENGINEER: Submitted by Associated Engineers, 910 Garfield Street,  
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-686R

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, P.E., M.S.

DATE OF REVIEW: March 14, 1980

ACTION: Reviewed "As Built" plans to determine compliance with State Regulations  
and Standards

COMMENTS:

1. The plans do not contain the seal or signature of the designing engineer.
2. The specifications for laying the sewer lines which were submitted are incomplete in the following respects:
  - a. No limitations were included covering the particulate size of the bedding up to the top of the PVC sewer pipe,
  - b. No limitation was specified pertaining to the maximum allowable deflection by ovalation of the PVC sewer pipe.
  - c. It was not required that the inspector at the construction site be supplied with a copy of the manufacturer's recommended installation procedures.
3. The six inch sewer employed for the initial 240 feet of the sewer project is not in compliance with the required minimum size of 8 inches.
4. No leakage tests nor tests for ovalation of the sewer pipe were obtained or submitted.
5. Two sections of the 10 inch sewer main are not laid at the required slope of no less than 0.28 feet per 100 feet.
6. The plans and specifications of the water line in Spruce Street are not complete and do not conform with the water lines on the plans prepared by MSM, Consulting Engineers, and authorized for construction by Permit Number 79-30 of this Division. The following deviations and omissions from the authorized plans and specifications were noted:
  - a. The plans do not show the connection to the existing municipal water system.

Bob Burnett  
DEQ/WOD Ref. No. 79-686R  
March 14, 1980  
Page two

- b. The section which apparently connects to the municipal system is only 8 inches rather than 10 inches.
- c. Stub-outs for water mains and hydrants to serve the area south of Spruce Street are not shown.
- d. The specifications do not cover method of laying and testing the water lines.

21  
12-7-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
~~STATE OF WYOMING~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Bob Burnett, Medicine Bow, WY, Carbon Co.

ARCHITECT OR ENGINEER: Submitted by Associated Engineers, 910 Garfield St.,  
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-686

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: November 29, 1979

ACTION: Reviewed "as built" plans to determine compliance with State regulations  
and standards.

COMMENTS:

1. The plans shall bear the seal or signature of the designing engineer.
2. Submit the specifications which were used in laying the sewer mains.
3. Submit the profile of the 6 inch sewer which extends from MH #6A at the west end of the apartment site eastward 240 feet to the manhole on apartment property where the sewer originates.
4. The six inch sewer is not in compliance with the required minimum size of 8 inches.
5. Re-check your invert elevation of 6540.89 at MH #2A.

Note: It has been brought to our attention that MH #2A was too high to receive sewage at this location from the 12 inch Dolling sewer if it had been brought in at the designed and authorized elevation of 6541.47.

6. Submit "as built" plans and specifications for the section of sewer mains between MH #2A and the existing manhole located immediately upstream from the existing lift station at the Town of Medicine Bow's first lagoon.
7. Provide results of sewer line infiltration or exfiltration leakage tests as well as lamping or equivalent testing of all sewers between manholes for determination of compliance with alignment, grade and maximum allowable deflection.
8. Submit a standard "as built" sewer manhole detail.

cc: Terry Titus  
632 S. David  
Casper, WY 82601

11 # 79  
12

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-687

Marvin Gardens Addition  
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities  
(Last) (First) (Middle)

200 N. David  
(Street or P.O. Box)

Casper, WY 82601  
(City) (County) (State)

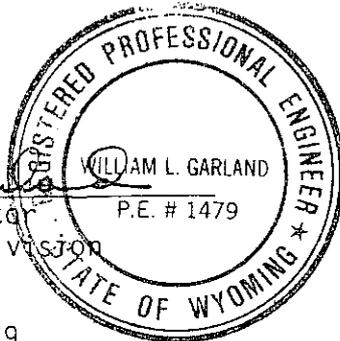
to construct, install, or modify a municipal distribution & collection system  
facility located in the City of Casper  
(Legal Description)

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

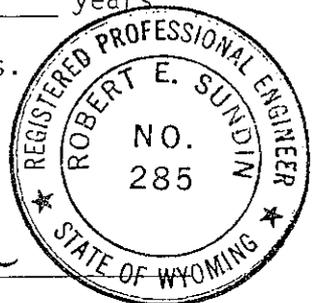
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



December 3, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



PERMIT TO CONSTRUCT

New

Permit No. 79-689R

Renewal

Modified

Z & S Construction Trailer Court Wastewater Disposal System  
(Name of Facility)

This permit hereby authorizes the applicant:

Z & S Construction - Jim Wertz  
(Last) (First) (Middle)

P.O. Box 189  
(Street or P.O. Box)

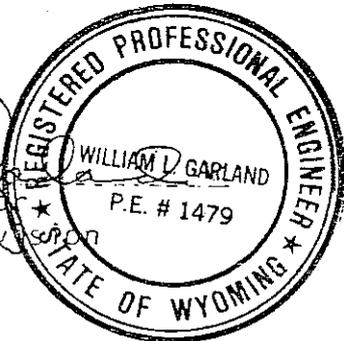
Wamsutter, Wyoming 82336  
(City) (County) (State)

to construct, install, or modify a septic tank/evapotranspiration bed  
facility located in Sec. 34, T. 20 N., R. 94 W.  
(Legal Description)

in the County of Sweetwater, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

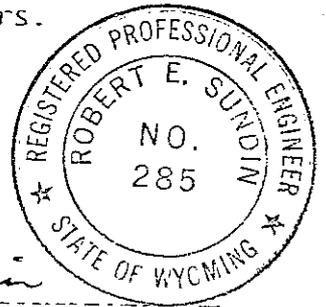
AUTHORIZED BY:

*William D. Garland*  
Administrator  
Water Quality Division



*Robert E. Sundin*  
Director

Wyoming Dept. of Environmental Quality



February 15, 1980

Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144

PROJECT: Z & S Construction Trailer Court Wastewater Disposal System

ENGINEER: Nelson Engineering  
P. O. Box 1141  
Jackson, WY 83001  
ATTN: Paul Allison, P. E.

OWNER: Z & S Construction  
Wamsutter, WY 82336

WATER QUALITY DIVISION REFERENCE NUMBER: 79-689

REVIEWING ENGINEER: M. Robin Collins, P. E.



DATE OF REVIEW: November 21, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

After reviewing the aforementioned report, I would like to offer the following comments for your consideration and action in processing the necessary permit:

1. Percolation tests near the vicinity of the absorption area will have to be properly run before we can determine the adequacy of the disposal system.
2. An estimated water usage figure for the development should be given both now and in the future.
3. If the soil is considered to be too "tight" for adequacy handling the estimated wastewater flow, other disposal methods will have to be utilized. Such methods may include a different type of absorption system or, if certain conditions are met, a waste stabilization pond may be used.
4. Information on the highest known groundwater or impervious layer in the development must be given in the more detailed engineering report.
5. An estimated slope of both existing laterals must also be given. A lateral length of 150 feet is generally considered excessive, unless the wastewater flow can be evenly distributed along its entire length without premature depositing or "gushing" from its end.



6. The exact distance between the laterals and the nearest property lines must also be shown.
7. The location of all, if any, sewer cleanouts must be given. Cleanouts should be provided at every change in direction of the sewer and at approximately every 150 feet on a straight line.
8. The size and type of septic tank utilized must be given.
9. More information on the crossing of the water line with the sewer line and the horizontal separation distances between the two must be provided in the engineering report.
10. An application for a "Permit to Construct" must be properly completed, signed, and submitted to this office before we can complete our review of this wastewater disposal system.
11. An application may also have to be submitted to the State Engineer's Office for approval of the water well. If more than ten service connections are provided off of this well, another "Permit to Construct" a public water supply and its engineering plans will have to be submitted and approved by this department.
12. As a general reminder, construction of a wastewater system or a public water supply without a "Permit to Construct" from this department is a violation of Section 35-11-301, part 3 and 5, of the Wyoming Environmental Quality Act as amended. If that is true in this case, then it is the decision of this department that the complete plans of the existing wastewater disposal system or the plans for its improvement and/or modifications be submitted to this office for review and comment by no later than February 10, 1980. We would expect the improvements to be installed by April 30, 1980, which taked into account inclement weather conditions.

If you have any questions concerning this review, please do not hesitate to contact us.

cc: Scott Engineering Company  
P.O. Box 2097  
Gillette, WY 82716

11-405  
12-21-79

PERMIT TO CONSTRUCT

New

Permit No. 79-690

Renewal

Modified

PETROLANE PLANT OFFICE SEWER

(Name of Facility)

This permit hereby authorizes the applicant:

Petrolane, Incorporated

(Last)

(First)

(Middle)

301 Douglas Highway

(Street or P.O. Box)

Gillette

(City)

Campbell

(County)

Wyoming 82716

(State)

to construct, install, or modify a sewage disposal

facility located in Section 11, T.49N., R.72W.

(Legal Description)

in the County of Campbell,

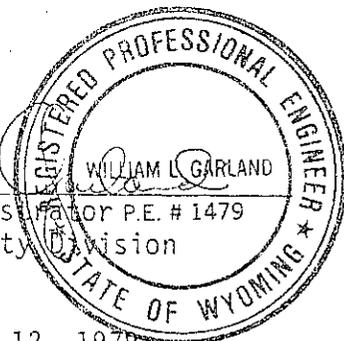
in the State of

Wyoming. This permit shall be effective for a period of two (2) years

from the date of issuance of this permit not to exceed five (5) years.

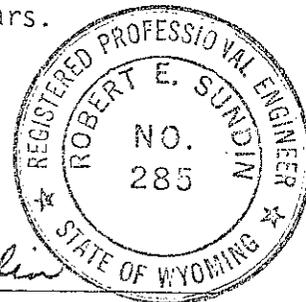
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director

Wyoming Dept. of Environmental Quality



December 12, 1979

Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
30 East Grinnell  
Sheridan, Wyoming 82801

PROJECT: Tract L Sewer Extension, Sunburst Water and Sewer District

DEVELOPER: Darrell Coulter  
Wyoming Real Estate  
P.O. Box 579  
Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-691 (Reference: 76-396RRRR,  
78-113, and 78-476)

REVIEWING ENGINEER: Dan H. Kim and Jake Strohman, P.E.

DATE OF REVIEW: December 4, 1979

ACTION: ✓ Tacit Concurrence with As-Built

COMMENTS:

This office was informed that an 8-inch sewage collection line, designed to serve a portion of the Tract L, had already been installed without a permit having been obtained. This is considered a violation of the Environmental Quality Act. This office must stress the fact that a permit shall be obtained prior to construction of any sewerage system or disposal facility in the future.

Since the manager of the Sunburst Water and Sewer District agrees to provide necessary maintenance for the said 8-inch sewer line, this office hereby grants a tacit concurrence with the as-built.

cc: Mike McDill  
Manager, Sunburst Water and Sewer District

Received  
11-23-79

79-692

Book  
11-27-79

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 27, 1979

Albany County School District No. 1  
Administrative Offices  
1948 Grand Avenue  
Laramie, WY 82070

Re: Coughlin-Pole Mountain Addition  
(Laramie School District)  
Block 12, Lot 1  
Our letter dated October 9, 1979

Dear Sir:

The Water Quality Division has completed an engineering review of the "as built" construction plans and specifications submitted by Banner Associates, Inc., Laramie, Wyoming, for the referenced addition, and have found that they meet minimum State standards for water and sewer line construction. Since a Permit to Construct cannot be issued for "as built" facilities, this letter will serve as your approval document.

Sincerely,

LeRoy C. Feusner, P.E.  
District Supervisor  
Water Quality Division

LCF/nc

cc: Joseph Lord  
Banner Associates  
P.O. Box 550  
Laramie, WY 82070

cc: Stephen C. Behrens  
URS Company  
3955 East Exposition Ave.  
Denver, CO 80209

PERMIT TO CONSTRUCT

New

Permit No. 79-693RR

Renewal

Modified

City of Rawlins  
(Name of Facility)

This permit hereby authorizes the applicant:

Carney James H.  
(Last) (First) (Middle)

City Engineer  
P.O. Box 953  
(Street or P.O. Box)

Rawlins          WY 82301  
(City) (County) (State)

to construct, install, or modify a 12" water line between Bennet & Washington Streets  
facility located in Sections 16 & 17, T21N, R87W  
(Legal Description)

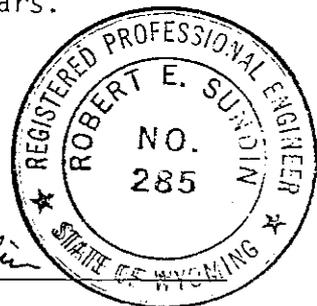
in the County of Carbon, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



March 6, 1980

Date of Issuance

"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."

A 10 400 79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~STATE OFFICE BUILDING~~ Hathaway Bldg.

Cheyenne, Wyoming 82002

PROJECT: Twelve Inch Water Line Between Bennett Street and Washington Street,  
City of Rawlins, Carbon Co.

ARCHITECT OR ENGINEER: Stephen C. Behrens, URS Company, 3955 East Exposition  
Avenue, Denver, CO 80209

WATER QUALITY DIVISION REFERENCE NUMBER: 79-693

REVIEWING ENGINEER: *Robert H. Pinther*  
Robert H. Pinther, M.S., P.E.

DATE OF REVIEW: December 21, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

PLANS

1. The plans shall bear the seal or signature of the designing engineer who is a registered engineer in Wyoming.
2. It appears that the required 10 feet, measured edge to edge, of horizontal separation between water and sewer mains is not provided at the following locations:
  - a. The section of water main between stations 5 + 00 and 9 + 00 along south Front Street.
  - b. The point where the water main changes direction near the intersection of Pershing and Railroad Streets.
3. Show the vertical separation between the water main and drainage line at the location identified as the "Drainage Inlet" with 20 L.F. of concrete encasement and located immediately east of Station 18 + 6.
4. Show the vertical separation between the water main and the drain line at the location identified as "12" RCP DRAIN" at a point 85' S.W. of Station 34 + 11. Provide encasement of the drain line if it is above the water main.
5. Revise "Air Valve Assembly" of Sheet 6 by extending the open end of the air relief pipe from the enclosing manhole to a point at least one foot above ground and providing a screened downward facing elbow at the open end.

Twelve Inch Water Line Between Bennett  
Street and Washington Street,  
City of Rawlins  
DEQ/WQD Ref. No. 79-693  
December 21, 1979  
Page two

## SPECIFICATIONS

### I. Page I-2, Section 101.1. ABBREVIATIONS

Add the following: "All references to other specifications, such as ASTM, AWWA, ect., shall mean the latest published edition available on the date of advertisement for bids."

### II. Section 601. TRENCH EXCAVATION, BACKFILLING & COMPACTION

Page VI-5, OVER-EXCAVATION, Paragraph 3, change to read:

"Whenever rock of unsuitable soil incapable of properly supporting the pipe is encountered in the trench, such material shall be removed to provide a minimum clearance of 6 inches below and on each side of all pipes, valves and fittings for the length designated by the engineer, and the trench backfilled-----pipeline."

### III. Section 603. WATER LINE CONSTRUCTION

#### 1. Page VI-18, 603.1, GENERAL. Revise as follows:

- a. Omit the following wording: "insofar as such recommendations and provisions are not in variance with the standard specifications and details."
- b. Add the following paragraph:

"A copy of AWWA Standards and/or the manufacturer's installation recommendations for each kind of pipe must be supplied to each foreman and inspector prior to construction and must be followed during construction."

#### 2. Page VI-19, 603.2, MATERIALS. Revise as follows:

- a. Add to paragraph 3 pertaining to A.C. pipe the following: "and to AWWA Standard C400-77 with the more stringent prevailing where they conflict."
- b. Submit for review all sections of the 700 series of the proposed "Standard Specifications".

#### 3. Page VI-19, 603.3, CONSTRUCTION METHODS.

- a. Add the following to the "Material Handling" subsection:

"All foreign matter or dirt shall be removed from the inside of each section of pipe and each fitting before it is lowered into position in the trench."

- b. Revise the sentence which starts in line 6 of the subsection entitled "Alignment" to read as follows:

"Deflection at field joints shall not exceed the maximum allowable deflection as set forth in applicable provisions of subsection 3.4.3 Pipe Deflection of AWWA Standard C600-77 and/or as recommended by the pipe manufacturers."

4. Page VI-25, 603.8, MANHOLES AND VAULTS. Add the following requirement:  
"Chambers, pits or manholes housing valves, meters, or other such appurtenances shall be drained to the surface of the ground where they are not subject to flooding by surface water or to absorption pits underground."
5. Page VI-29, 30, 31, 603.14, TESTING. Revise paragraph under "Testing" and Pressure and Leakage tests to comply in all respects to AWWA Standard C600-77 by making the following revisions:
  - a. Omit "except as modified below" from paragraph under "Testing".
  - b. Revise the second sentence under "Pressure Tests" to read:  
"The pressure test shall be at least 125 percent of the working pressure at the highest point along the test section (See AWWA Standard C600-77, Sec. 4, Hydrostatic Testing)."
  - c. Revise the fourth sentence under "Pressure Tests" by omitting all wording after "AWWA C-600".
  - d. Revise the formula under "Leakage Test" to read as follows:  
$$L = \frac{ND\sqrt{P}}{7400}$$
  - e. Revise the value of "P" in the above formula to be at least 125 percent of the working pressure and not greater than the design rating of the pipe being tested.

#### IV. Section 605. DISINFECTING WATER MAINS

1. Page VI-38, 605.6, CHLORINE RESIDUAL. Replace the designation of "10 ppm" with "25 ppm".
2. Page VI-38, 605.9, RETENTION PERIOD
  - a. Replace the designation of "10 ppm" with "25 ppm".
  - b. Replace the designation of "100 ppm" with "300 ppm" and retained for at least 3 hours."

V. Section 609. WATER LINE VALVES

1. Page VI-50, 609.6, AIR AND VACUUM VALVES. Add the following requirements:  
"The open end of an air relief pipe shall extend from the enclosing man-hole or vault to a point at least one foot above ground and be provided with a screened, downward facing elbow. The pipe from a manually operated valve should extend to the top of the pit."
2. Page VI-53, 609.8, DRAIN VALVE ASSEMBLY. Replace the paragraph at the bottom of the page with the following:  
  
"Where dead-end mains, such as cul-de-sacs, occur, they shall be provided with a fire hydrant if flow and pressure are sufficient, or with an approved flushing hydrant or blow-off for flushing purposes. All discharge pipes shall terminate above grade at a location not subject to flooding by surface water. Temporary blow-offs shall be installed in those portions of the water mains which could not be chlorinated, flushed, or tested by other means."
3. Page VI-54, 609.8, DRAIN VALVE ASSEMBLY. Replace the paragraph at the top of the page with the following:  
  
"A flushing hydrant or blow-off consisting of valve, piping, and material necessary to install the appurtenance complete in place shall be constructed in accordance with the standard details."

VI. ADDITIONAL REQUIRED WATER LINE STANDARDS

SEPARATION OF WATER MAINS AND SEWERS:

Incorporate in the specifications the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains."

VII. ADDITIONAL REQUIRED WATER LINE STANDARD DETAILS

DRAIN VALVE ASSEMBLY (with discharge pipe extending above grade)

THIS IS NOT A FINAL REVIEW.

DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
HATHAWAY BUILDING  
CHEYENNE, WYOMING 82002

REQUIREMENTS FOR HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER AND SEWER MAINS

I. Parallel Installation

A. Normal Conditions

Water mains shall be laid at least 10 feet horizontally from any sanitary sewer, storm sewer or sewer manhole, whenever possible; the distance shall be measured edge-to-edge.

B. Unusual Conditions

When local conditions prevent a horizontal separation of 10 feet, a water main may be laid closer to a storm or sanitary sewer provided that:

1. the bottom of the water main is at least 18 inches above the top of the sewer;
2. where this vertical separation cannot be obtained, the sewer shall be constructed of materials and with joints that are equivalent to water main standards of construction and shall be pressure tested to assure watertightness prior to backfilling.

II. Crossings

A. Normal Conditions

Water mains crossing house sewers, storm sewers or sanitary sewers shall be laid above the sewers to provide a separation of at least 18 inches between the bottom of the water main and the top of the sewer, whenever possible.

B. Unusual Conditions

When local conditions prevent a vertical separation as described in "A" above, the following construction shall be used:

1. sewers passing over or under water mains shall be constructed of materials described in "B.2." above for a horizontal distance of at least 10 feet on each side of the crossing;

## II. Crossings (Continued)

### B. Unusual Conditions (Continued)

2. water mains passing under sewers shall, in addition, be protected by providing:
  - a. A vertical separation of at least 18 inches between the bottom of the sewer and the top of the water main;
  - b. adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking the water mains;
  - c. that the length of water pipe be centered at the point of crossing so that the joints will be equidistant and as far as possible from the sewer.

cc: James C. Gores  
ARIX  
625 East Madison  
Riverton, WY 82501

MHS  
1 31 80

PERMIT TO CONSTRUCT

New

Permit No. 79-694

Renewal

Modified

RECONDITIONING WATER LINE - TOWN OF MIDWEST  
(Name of Facility)

This permit hereby authorizes the applicant:

Pipe Service, Inc.

(Last)

(First)

(Middle)

2201 South Valentia Street

(Street or P.O. Box)

Denver, Colorado 80231

(City)

(County)

(State)

to construct, install, or modify a water transmission pipeline and associated wastewater pits  
facility located in Sections 6 and 7, T.33N., R.79W.; Sections 4, 19, 16, 21, 29, 31, 32, T.34N., R.79W.; Section 33, T.35N., R.79W.  
(Legal Description)

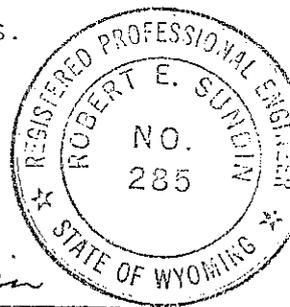
in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



January 16, 1980  
Date of Issuance

"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."

cc: Gray C. Wangelin  
Engineering Testing Inspection Service  
5024 Alcova Rt., Box 14  
Casper, WY 82601

11 29-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-695

Casper Metal Buildings  
(Name of Facility)

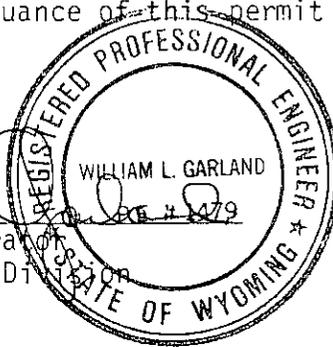
This permit hereby authorizes the applicant:

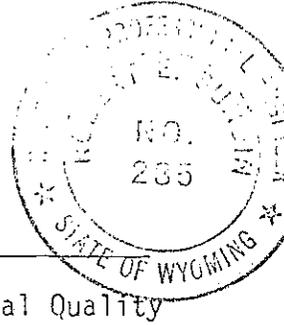
Casper Metal Buildings  
(Last) (First) (Middle)  
7072 Salt Creek Rt., Box 9  
(Street or P.O. Box)  
Casper, WY 82601  
(City) (County) (State)

to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 34, T34N, R80W  
(Legal Description)

in the County of Natrona, 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 not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrative  
Water Quality Division  


Robert E. Lardin  
Director  
Wyoming Dept. of Environmental Quality  


November 27, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

cc: Gray C. Wangelin  
Engineering Testing Inspection Service  
5024 Alcova Rt., Box 14  
Casper, WY 82601

11-28-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-696

Sue Adams - Two Mobile Homes  
(Name of Facility)

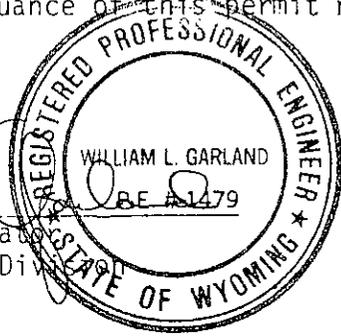
This permit hereby authorizes the applicant:

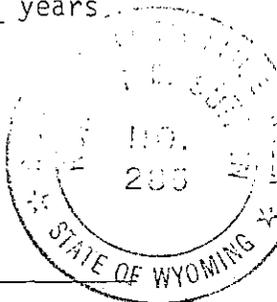
Sue Adams  
(Last) (First) (Middle)  
P.O. Box 1180  
(Street or P.O. Box)  
Mills, WY 82644  
(City) (County) (State)

to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 4, T33N, R80W  
(Legal Description)

in the County of Natrona, 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 not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrative  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


November 27, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

M-507  
2-22-80

New

Permit No. 79-697R

Renewal

Modified

Water Storage Improvements - Lovell  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Lovell  
(Last)

(First)

(Middle)

336 Nevada Ave.

(Street or P.O. Box)

Lovell,  
(City)

Wyoming  
(County)

82431

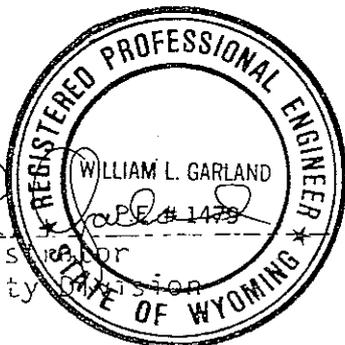
(State)

to construct, install, or modify a one million gallon ground storage water tank facility located in Sec. 15, T. 56 N., R. 96 W. (Legal Description)

in the County of Bighorn, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit not to exceed five (5) years.

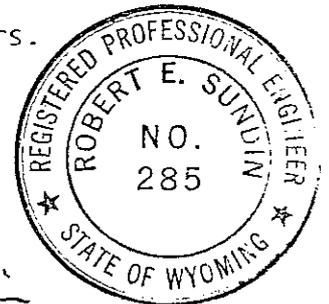
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



February 14, 1980  
Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144

PROJECT: Water Storage Improvements, Lovell, Wyoming

ENGINEER: Gerald M. Gaston  
Sanderson/Stewart/Gaston  
1629 Avenue D  
Billings, Montana 59102

OWNER: Town of Lovell  
336 Nevada Ave.  
Lovell, WY 82431  
ATTN: Bob Brandt

WATER QUALITY DIVISION REFERENCE NUMBER: 79-697

REVIEWING ENGINEER: Rick Engelmann *RE*

DATE OF REVIEW: November 23, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

Dear Gerry:

As we discussed on the phone this afternoon, it appears that everything is in order for the proposed water storage tank. We will, however, need to look at the shop drawings for the tank before a permit to construct can be issued. We will look at these things first thing in order to eliminate unnecessary delays.

One minor comment: the current AWWA D102-78 contains nothing on disinfection. AWWA D102-64 does have disinfection standards, and perhaps these should be specifically cited in the Spec. (p. 53). In addition, we need a signed application for permit to construct (see enclosed).

It is our understanding that you will apply separately for a permit to construct for the tank water line and foundation.

Sincerely,

*Rick Engelmann*  
Rick Engelmann  
District Engineer

RE/dll

Enclosure



(A, C)

11/10/80  
5-2-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-698RR

Black Acres Mobile Home Court  
(Name of Facility)

This permit hereby authorizes the applicant:

Tom Black (Agent: John A Proffit, P.E.)  
(Last) (First) (Middle)

P.O. Box 1768  
(Street or P.O. Box)

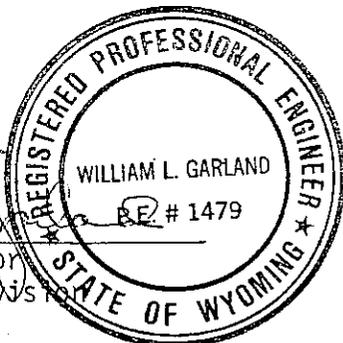
Casper Wyoming 82602  
(City) (County) (State)

to construct, install, or modify a Water Supply and Wastewater Disposal System  
facility located in Sec. 25, T15N, R121W  
(Legal Description)

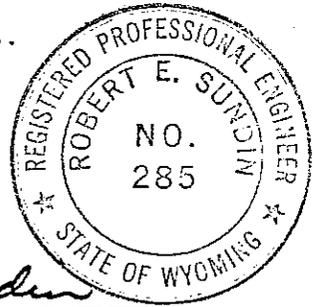
in the County of Uinta, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sunden  
Director  
Wyoming Dept. of Environmental Quality



April 23, 1980  
Date of Issuance

"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."

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144

PROJECT: Black Acres Water and Sewer Systems  
Sec. 25, T. 15N., R 121W. Uinta County

ENGINEER: Uinta Engineering & Surveying, Inc.  
Attn: John A. Proffit, PE  
P.O. Box 746  
Evanston, Wyoming 82930

OWNER: Tom Black  
Box 1768  
Casper, Wyoming 82602

WATER QUALITY DIVISION REFERENCE NUMBER:  
79-698 R

REVIEWING ENGINEER: *DWH*  
David W. Hill, PE

DATE OF REVIEW:  
*April* ~~March~~ 8, 1980

ACTION: NOT AUTHORIZED.

REMARKS: See following pages



### SEWER SYSTEM

- 1.) Please submit all design criteria for sizing the aerated-facultative lagoon system (i.e. - influent BOD, removal, K factors, sludge-ice allowance, flows, detention times, etc.). A BOD of 0.17 lbs. per person can be allowed for the trailer court but 0.23 lbs. per person should be used for the housing subdivision because of garbage grinders.
- 2.) Submit total design flows to each lift station. Include peak flows to each station.
- 3.) Details of the chlorination building are needed.
- 4.) Good initial mixing of the chlorine solution and the wastewater is essential. Provide more details. Also please provide diffuser details.
- 5.) Please submit manufacturers information on the portable generators.
- 6.) The force main should discharge into a manhole before the primary cell. The invert of this manhole should be at least six inches above the maximum level in the ponds. Piping flexibility is needed to bypass the primary cell to the second cell.
- 7.) The inlet to the primary cell must be located away from the bank to prevent solids deposition on the banks.
- 8.) A Parshall flume with a six-inch throat is too large for this subdivision. Consider using a 3 or 4 inch throat.
- 9.) Please specify additional details on gas mask required ( i.e. - suitable for chlorine, etc.)

### WATER SYSTEM

- 10.) Because the water will now be supplied from the City of Evanston, will any air valves be needed at high points in the system.



*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 1, 1982

CERTIFIED MAIL

Mr. Tom Black  
PO Box 1768  
Casper, WY 82602

RE: Renewal of Permit #79-698RR, Black Acres Mobile Home Park

Dear Mr. Black:

Your request for a permit renewal cannot be granted until the question of ultimate sewage disposal has been addressed. Since the time your original permit was written, the City of Evanston undertook regional planning. The City's regional plan includes your mobile home park, therefore, sewage disposal must be to the City's wastewater treatment plant.

Before work on your mobile home park may continue, we need to receive a letter from the City accepting the sewage from your mobile home park, a time table for plans and specifications on the sewerline to the City sewer system, an application for permit modification, and documentation that the lagoon system and appurtenances are to be deleted from the originally authorized plans and specifications.

Please contact me if you have questions on the proceeding.

Respectfully

*Albert J. Berreth*

Albert J. Berreth  
Area III Engineer

AJB:ch

cc: Uinta Eng.-Ken Walker  
Cheyenne DEQ/WQD  
File (2)

79-698RR



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

# Department of Environmental Quality

## Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3044 <sup>3144</sup>

April 18, 1980

John Proffit, P.E.  
P. O. Box 746  
Evanston, WY 82930

RE: Review of Engineering Plans and Specifications for issuance of a "Permit to Construct".

Dear Sir:

This office has recently received engineering plans and specifications for a project located in the Southwest District. Since we currently do not have any engineering positions filled for this region, this letter is to request your patience in waiting to receive our departmental reply for your submittal.

Because of the limited staff in the Lander office and until we are able to hire new employees, I will try to review your projects as soon as time permits. Hopefully, this undesirable arrangement will be for only a short period of time.

Again, your cooperation and understanding in this matter will be greatly appreciated.

Respectfully,

M. Robin Collins, P.E.  
Northwest District Engineer

✓cc: Bill Garland, Administrator Water Quality Division



REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144

PROJECT: Black Acres Mobile Home Court Water and Sewer System  
Sec. 25, T. 15 N., R. 121 W., Uinta County

ENGINEER: John A. Proffit, P.E.  
Uinta Engineering & Surveying, Inc.  
P.O. Box 746  
Evanston, WY 82930

OWNER: Tom Black  
P.O. Box 1768  
Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 79-698

REVIEWING ENGINEER: David W. Hill, P.E.

DATE OF REVIEW: December 10, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

General

1. A typical mobile home lot layout is requested showing water and sewer service lot locations and risers.

Water System

2. Specify the normal operations pressure and testing pressure for the system.
3. No PVC pipe shall be laid on earth mounds (Sec. 30-6.2).

Sewage System

Sewer Lines

4. All sewer service taps must be branch "Y's" if groundwater is a problem.

Lift Station

5. Please indicate the force main testing pressure.
6. Please submit the pump curves.
7. Can the pumps be removed without having a worker crawl into the wet well?
8. More information is needed on power outages and emergency power considerations.  
Is there enough storage in the system or will an emergency generator be provided?

Lagoon

9. Fencing details are needed.



REVIEW OF PLANS  
BLACK ACRES MOBILE HOME COURT WATER AND SEWER SYSTEM  
79-698  
DECEMBER 10, 1979  
PA TWO

10. Will the lagoon dikes (especially the fill) be seeded to help retard erosion?
11. An actual seepage rate allowed should be specified.
12. The entrance line to the lagoon should extend out further from the bank to help prevent sludge banks, etc.
13. This department is very concerned about using aerators for evaporative purposes. Before any "Permit to Construct" can be issued for lagoon construction, this department must receive and review detailed testing data from the chosen aerator company. The data must show that the aerators will provide the evaporation needed. Will this be a permanent installation or a temporary one?
14. Because the aerators are responsible for the evaporation needed, one spare aerator will be needed.
15. Your letter indicated that the water would be sprayed up into the air about 20 feet and that there are no houses within one-half mile down wind. What is the present zoning downwind, and is there any potential for development? If possible a wind rose of the area should be provided also.

cc: H.S. Adnan  
AA Engineers Inc.  
888 So. Lipan St.  
Denver, CO 80223

M, 29 79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-699  
Ref. No. 79-157R

BJ-Hughes Inc.  
(Name of Facility)

This permit hereby authorizes the applicant:

BJ-Hughes Inc.  
(Last) (First) (Middle)

Suite 414, 1776 Lincoln St.  
(Street or P.O. Box)

Denver, CO 80401  
(City) (County) (State)

to construct, install, or modify a industrial subsurface disposal  
facility located in Sec. 27, T34~~N~~R80W, Lots 14 & 15, Westgate Park No. 2  
(Legal Description)

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

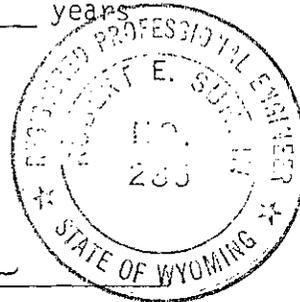
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrator  
Water Quality Division



*Robert E. Sundin*  
Director  
Wyoming Dept. of Environmental Quality



November 27, 1979  
Date of Issuance

"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."

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

cc: Mr. R. F. Bolender  
Marathon Oil  
P.O. Box 120  
Casper, WY 82602

PERMIT TO CONSTRUCT

M to J  
12-11-79

New

Permit No. 79-700

Renewal

Modified

Office, Marathon Oil, Hidden Dome Oil Field  
(Name of Facility)

This permit hereby authorizes the applicant:

Marathon Oil Co.  
(Last) (First) (Middle)

P.O. Box 208  
(Street or P.O. Box)

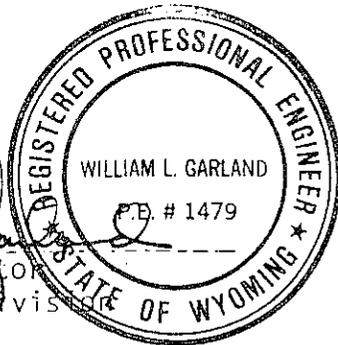
Grass Creek, Wyoming 82425  
(City) (County) (State)

to construct, install, or modify a septic tank - leach field  
facility located in SE 1/4 Sec. 31, T. 48 N., R. 90 W.  
(Legal Description)

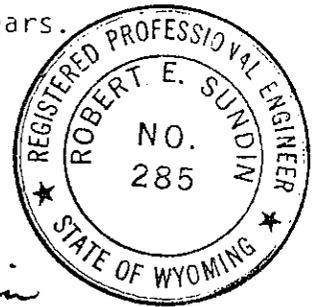
in the County of Washakie, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrator  
Water Quality Division



*Robert E. Sundin*  
Director  
Wyoming Dept. of Environmental Quality



November 28, 1979  
Date of Issuance

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