

cc: Charles Hruby, Jr.  
Hoskins-Western-Sonderegger  
P.O. Box 2020  
Gillette, WY 82716

M + 05  
10-1-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-501R

FOOT HILL BOULEVARD IN GILLETTE - MID-CONTINENT BUILDERS  
(Name of Facility)

This permit hereby authorizes the applicant:

Mid-Continent Builders, Inc.  
(Last) (First) (Middle)

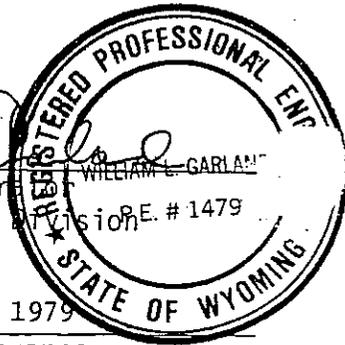
30 E. Plato Boulevard  
(Street or P.O. Box)

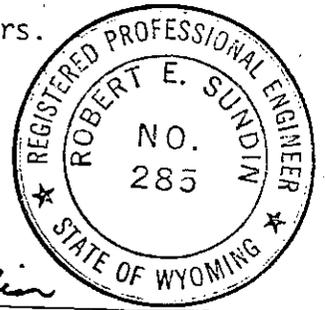
St. Paul, Minnesota 55107  
(City) (County) (State)

to construct, install, or modify a water distribution and sewage collection  
facility located in Section 20, T.50N., 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 # 1479  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


October 1, 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: Ivester Construction Co. Inc.  
508 North 5th  
Douglas, WY 82633

1-12-80

PERMIT TO CONSTRUCT

New

Permit No. 79-502R

Renewal

Modified

RENO JUNCTION — BURLINGTON NORTHERN, INC.

(Name of Facility)

This permit hereby authorizes the applicant:

Burlington Northern, Inc. Attention: E. A. Johnson  
(Last) (First) (Middle)

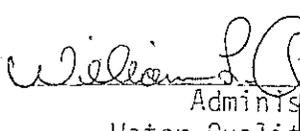
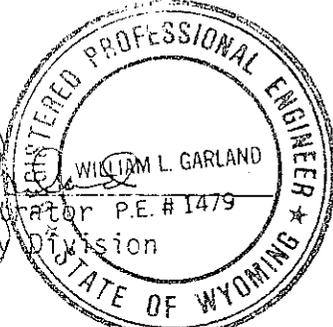
176 East 5th Street  
(Street or P.O. Box)

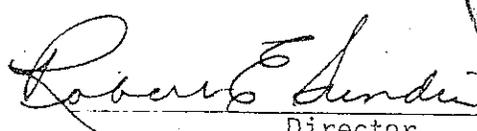
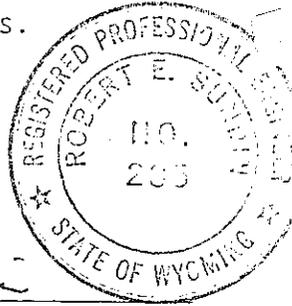
St. Paul, MN 55101  
(City) (County) (State)

to construct, install, or modify a sewage disposal  
facility located in Section 2, T.43N., 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 P.E. #1479  
Water Quality Division  


  
Director  
Wyoming Dept. of Environmental Quality  


January 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."

Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Burlington Northern, Inc.

ARCHITECT OR ENGINEER: E. A. Johnson  
Burlington Northern, Inc.  
176 East 5th Street  
St. Paul, MN 55101

WATER QUALITY DIVISION REFERENCE NUMBER: 79-502, 79-503, 79-504, 79-505

REVIEWING ENGINEER: Dan H. Kim, Jake Strohmman, P.E.

DATE OF REVIEW: September 26, 1979

ACTION: Not Authorized for Construction

Reference: 79-502 (Reno Junction) Section 2, T.43N., R.71W., Campbell County  
79-503 (Bill 55 Road) Section 4, T.34N., R.70W., Converse County  
79-504 (Bill ?) Section 33, T.38N., R.70W., Converse County  
79-505 (Orin Junction) Section 18, T.31N., R.69W., Converse County

COMMENTS:

1. State regulations require that bottom of the waste disposal system be laid at least four feet above the seasonal high groundwater table or the underlying impervious rock formation. Should local conditions prevent this, the proposed standard leach bed is not considered adequate to install. Therefore, information as to highest groundwater or impervious layer must be provided to verify the above requirements.
2. Location map or vicinity map of each site is needed.
3. Two sets of plans of each project are required.

cc: Ivester Construction Company, Inc.  
508 North 5th, Douglas, Wyoming 82633

cc: Ivester Construction Co., Inc.  
508 North 5th  
Douglas, WY 82633

MTC 5  
1-17-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-503R

BILL 55 ROAD — BURLINGTON NORTHERN, INC.  
(Name of Facility)

This permit hereby authorizes the applicant:

Burlington Northern, Inc.                      Attention: E. A. Johnson  
(Last)    (First)    (Middle)

176 East 5th Street  
(Street or P.O. Box)

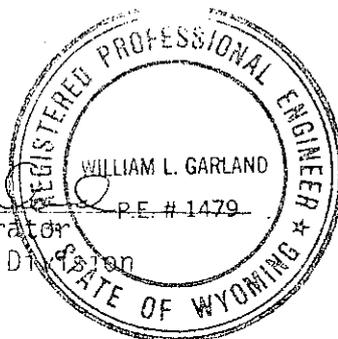
St. Paul, MN 55101  
(City)    (County)    (State)

to construct, install, or modify a sewage disposal  
facility located in Section 4, T.34N., R.70W.  
(Legal Description)

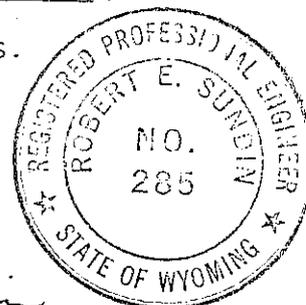
in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrator  
Water Quality Division



*Robert E. Sundin*  
Director



Wyoming Dept. of Environmental Quality

January 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."

17-19

PERMIT TO CONSTRUCT

New

Permit No. 79-504R

Renewal

Modified

BILL, WYOMING — BURLINGTON NORTHERN, INC.  
(Name of Facility)

This permit hereby authorizes the applicant:

Burlington Northern, Inc. Attention: E. A. Johnson  
(Last) (First) (Middle)

176 East 5th Street  
(Street or P.O. Box)

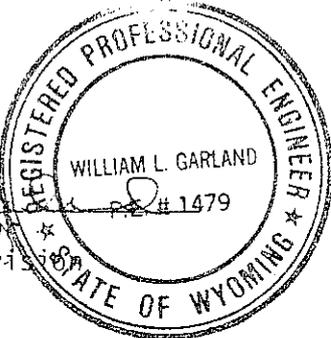
St. Paul, MN 55101  
(City) (County) (State)

to construct, install, or modify a sewage disposal  
facility located in Section 33, T.38N., R.70W.  
(Legal Description)

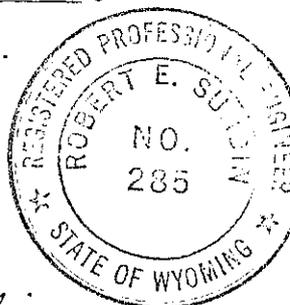
in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



January 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."

1/12/80

PERMIT TO CONSTRUCT

New

Permit No. 79-505R

Renewal

Modified

ORIN JUNCTION — BURLINGTON NORTHERN, INC.

(Name of Facility)

This permit hereby authorizes the applicant:

Burlington Northern, Inc.

(Last)

Attention: E. A. Johnson

(First)

(Middle)

176 East 5th Street

(Street or P.O. Box)

St. Paul, MN 55101

(City)

(County)

(State)

to construct, install, or modify a sewage disposal

facility located in Section 18, T.31N., R.69W.

(Legal Description)

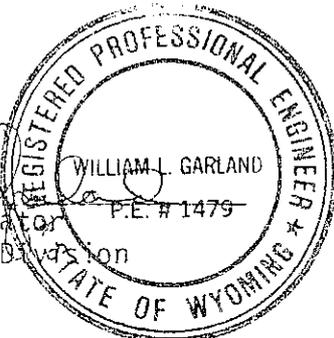
in the County of Converse, in the State of

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

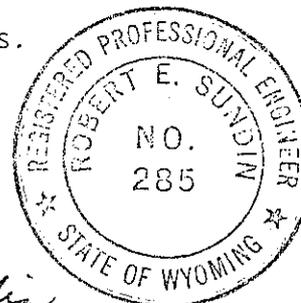
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



January 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."

PERMIT TO CONSTRUCT

17-08  
10-1-79

- New
- Renewal
- Modified

Permit No. 79-506R

Mountain Meadow Subdivision Water Project  
(Name of Facility)

This permit hereby authorizes the applicant:

Mountain Meadow Subdivision  
 (Last) (First) (Middle)  
 Agent: Carlton & Carlton Land Surveying - Civil Engineering  
P.O. Box 435  
 (Street or P.O. Box)

Evanston Wyoming 82930  
 (City) (County) (State)

to construct, install, or modify a water distribution system  
 facility located in Sec. 1, T. 15 N., R. 115 W.  
 (Legal Description)

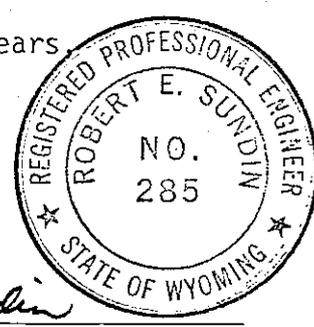
in the County of Uinta, in the State of  
 Wyoming. This permit shall be effective for a period of two years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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



Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



October 1, 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  
Engineering & Surveying  
P. O. Box 435  
Evanston, WY 82930

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.

(307) 332-3144

*Choyenne*

PROJECT: MOUNTAIN MEADOW SUBDIVISION WATER PROJECT  
Sec. 1, T. 15N, R. 115W, Urie, WY, Uinta County

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

OWNER: Rodney C. Bluemel, Nola E. Bluemel  
Keith A. Martin, Peggy L. Martin

WATER QUALITY DIVISION REFERENCE NUMBER: 79-506

REVIEWING ENGINEER: <sup>DWA</sup> David W. Hill, P. E.

DATE OF REVIEW: August 30, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

#### GENERAL

- 1) A letter or copy of the agreement is needed indicating the Bridger Valley Joint Powers Board will supply water for this subdivision.
- 2) A "Application For Permit to Construct" is needed.
- 3) Please specify SDR of the PVC pipe you propose to use.
- 4) The water lines shall be pressure tested to at least 150% of working pressure at the point of test, but no less than 125% of working pressure at the highest point in the system (Ref. Uni-B-3-78A)

#### ON-SITE SEWAGE DISPOSAL SYSTEMS

- 5) It is recommended that mound systems (elevated leach beds) be used rather than evapotranspiration beds. Evapotranspiration beds are not really suited to a climate like Bridger Valley's.

Enclosure - Application for Permit to Construct (two)



cc: C.E. Spurlock & Assoc.  
P.O. Box 0  
Lander, WY 82520

cc: Teton County Planning Comm.  
Teton County Courthouse  
Jackson, WY 83001  
ATTN: Bob Ablondi

M to J  
9-7-79

PERMIT TO CONSTRUCT

New

Permit No. 79-507

Renewal

Modified

Sewage Retention Pond

(Name of Facility)

This permit hereby authorizes the applicant:

Williams Company

(Last)

(First)

(Middle)

Suite 200, 1451 Larimer St.

(Street or P.O. Box)

Denver,

CO 80202

(City)

(County)

(State)

to construct, install, or modify a wastewater holding lagoon

facility located in Sec. 31, T44N, R112W

(Legal Description)

in the County of Teton

, in the State of

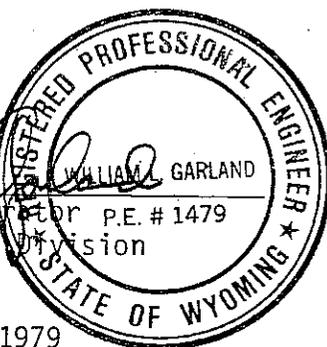
Wyoming. This permit shall be effective for a period of two (2) years

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

AUTHORIZED BY:

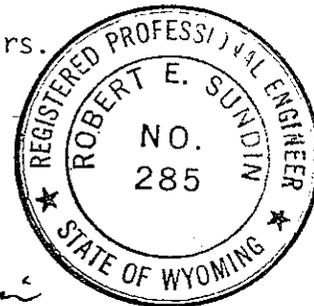
William L. Garland

Administrator P.E. # 1479  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



August 30, 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: Orren J. Bower  
801 S. Second St.  
Lander, WY 82520

M to L  
10-2-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-508R

Switzerland Park Extension No. 4  
(Name of Facility)

This permit hereby authorizes the applicant:

Switzerland Park Company  
(Last) (First) (Middle)

P.O. Box 674  
(Street or P.O. Box)

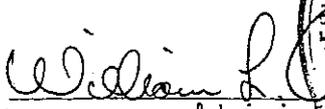
Dubois, Wyoming 82513  
(City) (County) (State)

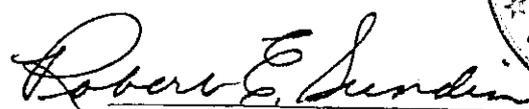
ATTN: Charles Welty

to construct, install, or modify a water distribution, sewage collection  
facility located in Sec. 1, T. 41 N., R. 107 W.  
(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:

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

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

September 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."

*Complete*

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Switzerland Park Extension No. 4

ENGINEER: Orren J. Bower  
801 S. Second  
Lander, WY 82520

OWNER: Welty Land Co.  
c/o Orren Bower  
801 South Second  
Lander, WY 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 79-508

REVIEWING ENGINEER: Rick Engelmann *DIA For*

DATE OF REVIEW: August 31, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

General

We need the following:

- a. A completed "Application for Permit to Construct..." form. See enclosed.
- b. A letter from the town of Dubois stating that they can and are willing to provide sewer and water service for the development.

Sewerage

1. Leakage tests must be performed, and the procedure must be outlined in the specs. See Section 2A, page 4.
2. When will ovalation tests be performed? After final backfill, after paving? See Section 2A, page 5.
3. The sewer/water crossing specs do not meet our standards. See enclosed.

Water

1. Allowable leakage specified is excessive (Section 4, page 4). According to AWWA C600-77, maximum leakage is 0.55 gph per 1000 feet for a 6 inch pipe.
2. Allowable leakage specified for PVC pipe, Section 5, page 7 is too high. See comment 1.

3. Allowable leakage specified for AC pipe, Section 5A, page 7 is too high. AWWA C603-78 specifies a maximum of 30 gpd per mile per nominal inch  $\emptyset$ .
4. Please provide the following:
  - a. Specification for test pressures (see Section 5, page 7, and Section 5A, page 7). What are the expected working pressures in this part of town?
  - b. A requirement for the contractor to maintain AWWA C601-68 on the job site. We have been requiring this when this standard has been called out in the specs. See Section 4, page 4; Section 5, page 10; and Section 5A, page 10.
  - c. Please update references to AWWA C502-73 in Section 6, page 1, and to AWWA C500-71 in Section 7, page 1. Though I realize page GC-1 refers to "latest editions" of standards, this is confusing.



cc: J. H. Hibsman  
ARIX  
625 E. Madison Ave.  
Riverton, WY 82501

MtoZ  
9-19-79

PERMIT TO CONSTRUCT

New

Permit No. 79-510R

Renewal

Modified

East Side Mobile Home Park  
(Name of Facility)

This permit hereby authorizes the applicant:

ATTN: Joe Lynde

U. S. Energy Corporation  
(Last) (First) (Middle)

625 East Madison Ave.  
(Street or P.O. Box)

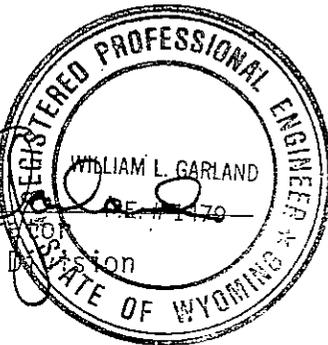
Riverton, Wyoming 82501  
(City) (County) (State)

to construct, install, or modify a water distribution and sewage collection  
facility located in Sec. 35, T. 1 N., R. 4 E.  
(Legal Description)

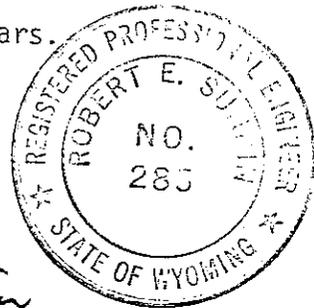
in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

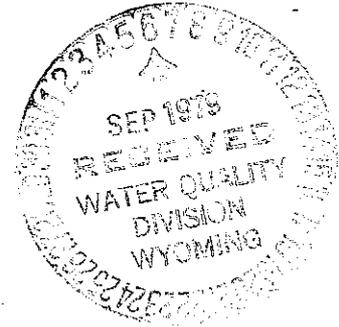


September 13, 1979  
Date of Issuance

"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: East Side Mobile Home Park

ENGINEER: J. H. Hibsman, ARIX Corp.  
625 East Madison Ave.  
Riverton, WY 82501

OWNER: U. S. Energy Corp.  
625 East Madison  
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-510

REVIEWING ENGINEER: <sup>DNA For</sup> Rick Engelmann

DATE OF REVIEW: August 31, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. The water/sewer crossing specs do not meet our standards. Method 2 on page D3, A6 in Section 02560 is not acceptable.
2. The specs are very loose when it comes to backfilling above the pipe zone (see page D1, B24, Section 02220). For PVC sewer line, UNI-B-5-78 warns against wheel-loading until there is at least 30 inches of fill over the line.

cc: Uinta Engr. & Surveying, Inc.  
P.O. Box 746  
Evanston, WY 82930  
ATTN: John A. Proffitt PERMIT TO CONSTRUCT

10-28-79

- New
- Renewal
- Modified

Permit No. 79-511RR

Evanston Industrial Center  
(Name of Facility)

This permit hereby authorizes the applicant:

Evanston Industrial Center  
(Last) (First) (Middle)  
c/o Uinta Realty

728 Main St.  
(Street or P.O. Box)

Evanston, Wyoming 82930  
(City) (County) (State)

to construct, install, or modify a water distribution, wastewater collector and lift station facility located in Sec. 19, T. 15 N., R. 120 W. (Legal Description)

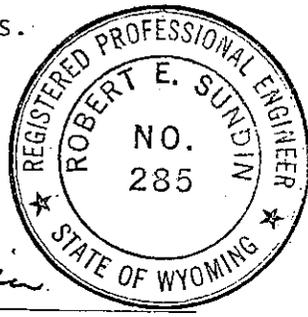
in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 17, 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: Evanston Industrial Center  
Sec. 19, T. 15 N., R. 120 W.  
Evanston, Wyoming, Uinta County

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

OWNER: Evanston Industrial Center  
c/o Uinta Realty  
728 Main  
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 79-511R

REVIEWING ENGINEER: David W. Hill, P.E. <sup>out</sup>

DATE OF REVIEW: October 3, 1979

ACTION: NOT AUTHORIZED.



REMARKS:

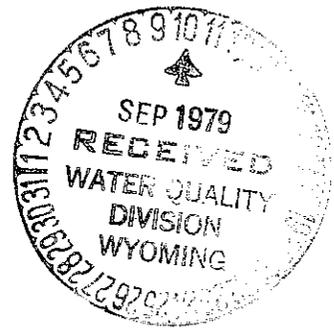
Details of the air-release valves are needed (i.e. manufacturer, model, chamber details, etc.). If at all possible, I would recommend laying out a profile without any peaks in the force main. It might also be possible to come out the side of the lift station.

(A,C)

*Check*

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Evanston Industrial Center  
Sec. 19, T. 15 N., R. 120 W.  
Evanston, WY Uinta Co.

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

OWNER: Evanston Industrial Center  
c/o Uinta Realty  
728 Main  
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 79-511

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

DATE OF REVIEW: September 6, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:                      General

- 1) A letter is needed from the City of Evanston indicating water and sewer service will be provided.

Water System

- 2) Please specify working pressure in system.
- 3) If SDR 21 pipe is used, tapping bands are needed for all service connections. Provide details.
- 4) Thrust block details are needed.
- 5) Water main - sewer line crossover details are needed.
- 6) Yye branches should be used for all service connections.
- 7) SDR 35 PVC pipe is recommended. SDR 41 pipe requires extremely careful backfilling techniques.
- 8) Water main - sewer line - force line crossover details are needed.

Lift Station

- 9) Complete design criteria (ie. lots, flow per lots, peak flow, ultimate service area, etc.) is needed.
- 10) Complete details of the proposed lift station are needed (ie. ventilation blower size, piping details, control system, alarms, sump pump, well detention, suction pipe size, etc.). Submission of proposed suppliers information or shop drawings would be helpful.

- 11) Address emergency power. Emergency power is needed or information indicating storage capacity of lines, power outage history, etc.).
- 12) A force main profile is needed. Simply specifying depth of cover could result in air release at high points.
- 13) At 175 gpm, the velocity in a six inch line would be two feet/sec. This is not enough velocity to resuspend all the settled material in the line. If a six inch line is used, I suggest running both pumps at once at least one to two times weekly to clean the force main.
- 14) The force main has a high point just outside of the lift station. Will a vacuum-air release valve be needed to prevent air locking?

cc: John A. Lambert  
Box 34  
Douglas, WY 82633

PERMIT TO CONSTRUCT

New

Permit No. 79-512

Renewal

Modified

Continental Pipe Line Co.  
(Name of Facility)

This permit hereby authorizes the applicant:

Continental Pipe Line Co.

(Last)

(First)

(Middle)

1750 Westland Road

(Street or P.O. Box)

Cheyenne,

WY 82001

(City)

(County)

(State)

to construct, install, or modify a bathroom facilities for office building

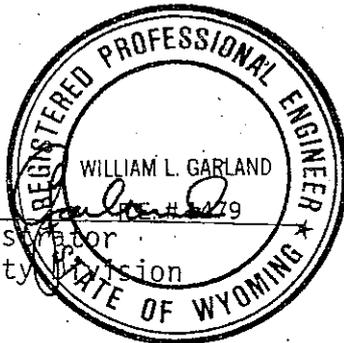
facility located in Sec. 13, T33N, R71W

(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.

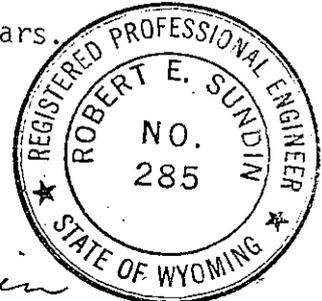
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



September 6, 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: Larry Wester  
P.O. Box 550  
Laramie, WY 82070

111  
6-23-80

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-513RRR

Black Mountain Village Well #1, Wheatland, WY  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Wheatland  
(Last) (First) (Middle)

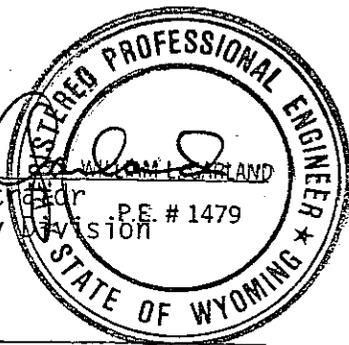
Town Hall  
(Street or P.O. Box)

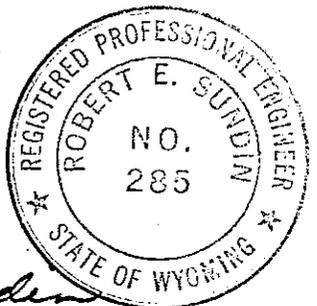
Wheatland Platte WY 82201  
(City) (County) (State)

to construct, install, or modify a Public Water Supply  
facility located in Sec. 14, Township 24N, Range 68W  
(Legal Description)

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

AUTHORIZED BY:

William L. [Signature]  
 Administrator  
 Water Quality Division  
 P.E. # 1479  


Robert E. Sunden  
 Director  
 Wyoming Dept. of Environmental Quality  


June 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."

3-19-80

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Black Mountain Well #1, Wheatland, WY, Platte County

ARCHITECT OR ENGINEER: J.T. Banner & Associates, P.O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-513RR

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

DATE OF REVIEW: March 18, 1980

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

We have some real concern about the radiological quality of the water from Well #1. Based upon the CDM (Acculab) laboratory results, it appears that a potential public health problem may exist. Therefore, the following additional laboratory analyses must be accomplished, analyzed, and submitted to this Division for further consideration prior to issuance of a Permit to Construct:

- 1. Gross alpha
- 2. Radium 226
- 3. Radium 228
- 4. Total Uranium

It is recommended that strict compliance with sampling/shipping procedures be followed to ensure accurate results. The CDM/Acculab facility is approved by EPA for drinking water analyses.

Also, repeat the heavy metal analyses for lead and silver. The laboratory results (Wyoming Department of Agriculture) are not precise enough to determine compliance with the Safe Drinking Water Act. Analytical sensitivity must be at or below the EPA Standard of 0.05 mg/l. The laboratory should accomplish these analyses at no additional charge to you.

205  
11/10/79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Black Mountain Well #1, Wheatland, WY, Platte Co.

ARCHITECT OR ENGINEER: J. T. Banner & Associates, P.O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-513

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

DATE OF REVIEW: September 7, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Well Accessories

1. No vent indicated on casing.
2. No sampling tap provided.
3. The casing shall extend 12 inches above concrete floor.
4. Heater to be provided in well house.
5. The concrete floor shall be at least 6 inches above ground level.
6. The ground around the well house shall be fraded away from well house.
7. Provide specifications for cement grouting.

Tests

1. Provide yield tests and drawdown curve showing zone of interference.
2. Provide chemical analyses of water from the well.
3. Prior to use and following post structural disinfection, the water shall be analyzed for bacteriological safety and results submitted to this office. Also chemical analyses including heavy metals and radiological results shall be submitted.

Auxiliary Power

Is auxiliary power provided to well pump?

cc: Tom McDill  
6405 Indian Scout  
Casper, WY 82601

9-7-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-514

Mountain Village #2 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, Natrona, WY 82601  
 (City) (County) (State)

to construct, install, or modify a municipal distribution & 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  
 REGISTERED PROFESSIONAL ENGINEER  
 WILLIAM L. GARLAND  
 P.E. # 1479  
 STATE OF WYOMING

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

September 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."

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

cc: Arthur Peavey  
P.O. Box 1339  
Boise, Idaho 83701

M-  
2-15-80

PERMIT TO CONSTRUCT

New

Permit No. 79-515R

Renewal

Modified

North American Car Corporation - Railcar Maintenance Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

Bloom, Art L.  
(Last) (First) (Middle)  
Morrison-Knudsen Company, Inc.  
Agent for North American Car Corp.  
P.O. Box 1339  
(Street or P.O. Box)

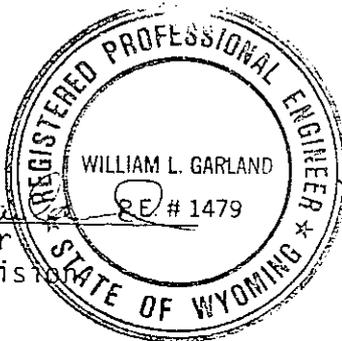
Boise, Idaho 83701  
(City) (County) (State)

to construct, install, or modify a industrial subsurface disposal  
facility located in Sec. 21, T37N, R70W  
(Legal Description)

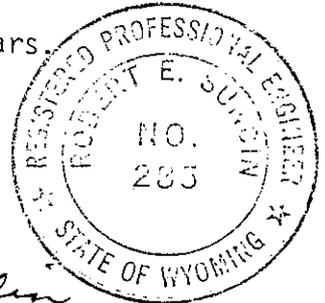
in the County of Converse, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality



February 7, 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."

Book  
No 9-21-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~XXXXXXXXXXXXXXXXXXXX~~ Hathaway Bldg.

Cheyenne, Wyoming 82002

PROJECT: North American Car Corporation Unit Coal Train Car Shop, Douglas, WY,  
Converse Co.

ARCHITECT OR ENGINEER: Morrison-Knudsen Company, Inc., P.O. Box 7808,  
Boise, ID 83729

WATER QUALITY DIVISION REFERENCE NUMBER: 79-515

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

DATE OF REVIEW: September 10, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Construction plans must carry seal or signature of professional engineer licensed in the State of Wyoming.
2. Provide specifications for sewer line pipe. Indicate slop and size of sewer line. What is the depth of bury?

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-516

Oregon Trail Extension, Water Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

Brooks Water & Sewer District  
(Last) (First) (Middle)

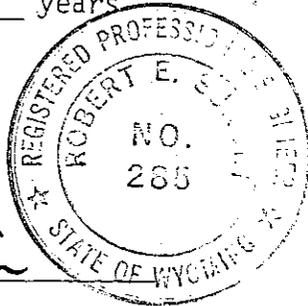
P.O. Box 2080  
(Street or P.O. Box)

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

to construct, install, or modify a municipal water distribution  
facility located in Sec. 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 J. DeLoe  
Administrator  
Water Quality Division

Robert E. Surdin  
Director  
Wyoming Dept. of Environmental Quality

September 18, 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.

4-11-84



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 11, 1984

Whispering Springs Development  
P.O. Drawer 460  
Evansville, WY 82636

Dear Sir:

On March 13, 1984, a status letter was sent to you concerning a permit to construct, reference number 79-517, facility name Whispering Springs. 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

*Plans were returned to us undeliverable.  
LeRoy checked with Natrona Co.  
Planning office 4-23-84 and was  
informed that the developers had left  
the area.*



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

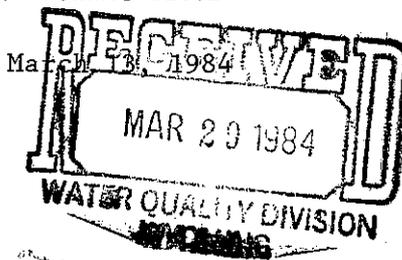
# Department of Environmental Quality

## Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781



✓ Ko-Ko International Property  
6820 West Yellowstone  
Casper, WY 82601

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:	Whispering Springs
DEQ/WQD Reference Number:	79-517
Engineering Consultant:	R. G. Zinn, Civil Engineering Consultants (out of business)
DEQ/WQD Reviewing Engineer:	Robert Pinther
Date of DEQ/WQD Review:	September 19, 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 \_\_\_\_\_

*Natura County Planning Office 235-9435 verified project was never constructed and provided mailing address for former applicant. Therefore, am returning plans.*

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,

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

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



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 13, 1984

Ko-Ko International Property  
6820 West Yellowstone  
Casper, WY 82601

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:

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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

10-9-21-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water & Sewer Distribution and Collection Systems, Whispering Springs  
Subdivision, Brooks Water & Sewer District, Natrona Co.

ARCHITECT OR ENGINEER: Civil Engineering Consultants, 6820 West Yellowstone Highway,  
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-517

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

DATE OF REVIEW: September 19, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

General

1. The plans shall bear the seal or signature of the designing engineer.
2. Submit a letter from the Brooks Water & Sewer District which states that the District is willing to provide water and sewer services for this project and has adequate capacity to handle both.
3. A Permit to Construct will not be issued until facilities are provided to give adequate treatment to this waste.

Sewer Main

1. Provide an "overall sewer plan", preferably, on the same sheet (sheet 4) that the "overall water plan" is on.
2. Provide a manhole of the drop type at manhole E-3.
3. Provide a detail of a typical drop manhole.
4. Provide profiles of connections to existing sewers at the north and south ends of Whispering Springs Trails.
5. Eliminate sanitary sewer crossing detail on sheet 2 of the plans.

Note: Provide construction at crossings as specified in the Casper Board of Public Utilities Standard Specifications - 1979.

Whispering Springs Subdivision  
DEQ/WQD Ref. No. 79-517  
September 19, 1979  
Page two

Water Main

1. Submit pressure study data to assure a minimum pressure of 20 psi under all conditions of flow and a normal operating pressure in the range of 60 psi to 35 psi.
2. There is not a 10 foot separation between water and sewer mains in the cul-de-sac off Apache Pass.

cc: Rocky Mtn. Engineering & Surveying  
P.O. Box 805  
Evanston, WY 82930  
ATTN: Dale E. Peterson, P.E.

cc: City of Evanston  
P.O. Box 130  
Evanston, WY 82930

PERMIT TO CONSTRUCT

111  
10-12-79

- New  
 Renewal  
 Modified

Permit No. 79-518R

Red Mountain Mesa Subdivision No. 1  
(Name of Facility)

This permit hereby authorizes the applicant:

Red Mountain Properties, Inc.

(Last) (First) (Middle)

c/o Dan South

324 Third St.

(Street or P.O. Box)

Evanston, Wyoming 82930

(City) (County) (State)

to construct, install, or modify a water distribution and 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.

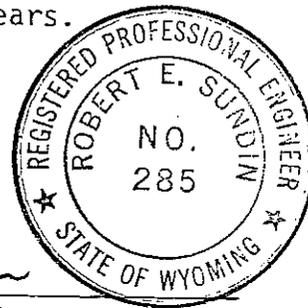
AUTHORIZED BY:

William L. Galand

Administrator  
Water Quality Division

Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



October 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."

C. S. ...

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144

PROJECT: Red Mountain Mesa  
Sec 16, T. 15 N., R. 120 W.  
Evanston, WY, Uinta County

ENGINEER: Rocky Mountain Engineering & Surveying, Inc.  
P. O. Box 725  
Evanston, WY 82930

OWNER: Red Mountain Properties, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 79-518

REVIEWING ENGINEER: <sup>DWH</sup> David W. Hill, P.E.

DATE OF REVIEW: September 13, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

General

- 1) An "Application For Permit to Construct" is needed from the applicant or applicant's designated representative.
- 2) A letter is needed from the city indicating water and sewer service will be provided.

Sewer System

No Comments.

Water System

- 3) Please indicate normal pressure range in this subdivision..



REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Keenan Supply Company

ENGINEER: David A. Violette, P.E.  
Nelson Engineering  
P. O. Box 365  
Green River, WY 82935

OWNER:  
Larry L. Richards  
370 Cedar  
Green River, WY 82935

WATER QUALITY DIVISION REFERENCE NUMBER: 79-519

REVIEWING ENGINEER: David <sup>our</sup> W. Hill, P.E.

DATE OF REVIEW: 9-4-79

ACTION: NOT AUTHORIZED.



REMARKS:

GENERAL

- 1) Three copies of all plans and specifications are needed.

DISPOSAL SYSTEM

- 2) Septic tank details are needed.
- 3) Leach line ends should be tied together.
- 4) Please indicate groundwater depth.
- 5) What is the distance from leach field to well or water supply piping?

cc: Richard Zinn  
6820 W. Yellowstone  
Casper, WY 82601

*Permit Book*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-520R

A & B Development Company  
(Name of Facility)

This permit hereby authorizes the applicant:

A & B Development Company  
(Last) (First) (Middle)

3035 C.Y. Ave.  
(Street or P.O. Box)

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

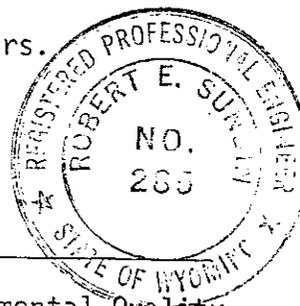
to construct, install, or modify a commercial source development and distribution system and sewage evaporative facility located in Sec. 19, T34N, R86W  
(Legal Description)

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. Gale  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 18, 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.

*Book  
A-7-6-79*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

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

PROJECT: A & B Construction, Casper, WY, Natrona Co.

ARCHITECT OR ENGINEER: Richard Zinn, 6820 W. Yellowstone, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-520

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

DATE OF REVIEW: September 5, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The drawing which you have included for disposal contains a pvc liner. This liner is used for evapotranspiration beds. The size of your disposal bed design is not adequate for evapotranspiration.

cc: Doran Boston  
Worthington, Lenhart & Carpenter, Inc.  
632 S. David  
Casper, WY 82601

11-10-2079

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-521

Teton Exploration (Porta-Test Systems, Inc. Annexation)  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper  
(Last) (First) (Middle)

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

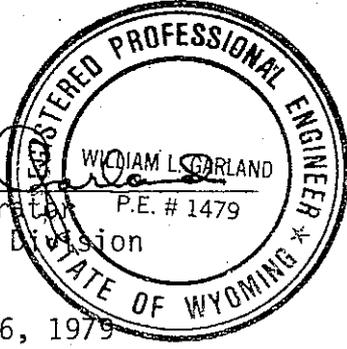
Casper, Natrona, WY 82601  
(City) (County) (State)

to construct, install, or modify a municipal water source and mechanical treatment  
facility located in the City of Casper  
(Legal Description)

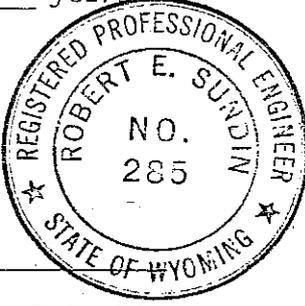
in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 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."

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

cc: E. C. Lenhart  
632 S. David  
Casper, WY 82601

8-29-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-522

Rustic Ridge 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, Natrona, WY 82601  
(City) (County) (State)

to construct, install, or modify a municipal distribution & collection  
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  
 P.E. # 1479  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF WYOMING

Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality  
 REGISTERED PROFESSIONAL ENGINEER  
 NO. 285  
 STATE OF WYOMING

September 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."

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



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 13, 1985

Town of Evansville  
Evansville, WY 82636

RE: DEQ/WQD Ref. No. 79-523, Luker Motel Extension

Gentlemen:

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

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

Sincerely,

William L. Garland  
Administrator

WLG/CGN/nc

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



*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

Town of Evansville  
Evansville, WY 82636

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:

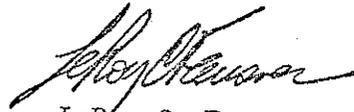
Facility name:	Luker Motel Extension
DEQ/WQD Reference Number:	79-523
Engineering Consultant:	Terry Titus, Worthington, Lenhart, Carpenter & Johnson
DEQ/WQD Reviewing Engineer:	Frank Harmon
Date of DEQ/WQD Review:	October 9, 1979

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: Terry Titus  
Worthington, Lenhart, Carpenter & Johnson  
632 South David  
Casper, WY 82601

*Book # 10-15-79*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Luker Motel Water & Sewer Extension, Casper, WY, Natrona Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-523

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

DATE OF REVIEW: October 9, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Post constructional disinfection of water lines is not indicated. Disinfection shall be carried out in accordance with AWWA practice of 50 ppm of chlorine for 24 hours, then flushed out until only faint smell of chlorine is detectable. Samples of the water should then be tested for bacteriological safety prior to use.
2. Provide a detailed drawing of a typical manhole.
3. Water lines and sewer crossings shall be in accordance with Ten State Standards (enclosed).
4. Submit a complete copy of the project specifications prepared by the Town of Evansville.
5. Submit a letter from the Town of Evansville certifying that water will be supplied and sewage disposal provided to the Luker Motel.

- 8.4 8.4.2 8.4.2.2 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:
- a. the bottom of the water main is at least 18 inches above the top of the sewer;
  - b. 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 back-filling.

#### 8.4.3 Crossings -

- 8.4.3.1 Normal conditions - Water mains crossing house sewers, storm sewers or sanitary sewers shall be laid to provide a separation of at least 18 inches between the bottom of the water main and the top of the sewer, whenever possible.
- 8.4.3.2 Unusual conditions - When local conditions prevent a vertical separation as described in 8.4.3.1, the following construction shall be used:
- a. Sewers passing over or under water mains should be constructed of the materials described in 8.4.2.2.b, for a horizontal distance of at least 10 feet on each side of the crossing.
  - b. Water mains passing under sewers shall, in addition, be protected by providing:
    1. a vertical separation of at least 18 inches between the bottom of the sewer and the top of the water main;
    2. adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking the water mains;
    3. 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: Johnson - Fermelia & Crank, Inc.  
P.O. ox 1633  
Rock Springs, WY 82901  
ATTN: Harry Moore, P.E.

M/4 to 5  
10-2-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-524R

Smith Energy No. 1  
(Name of Facility)

This permit hereby authorizes the applicant:

Craftsmen Construction Company, Inc.  
(Last) (First) (Middle)

5660 S. Syracuse Circle - Lower Level  
(Street or P.O. Box)

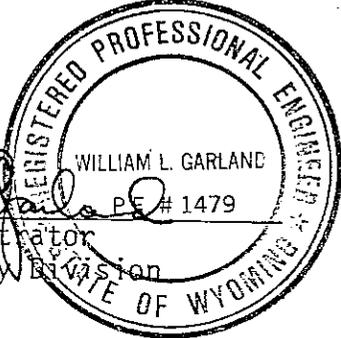
Englewood, Colorado 80111  
(City) (County) (State)

to construct, install, or modify a septic tank - leach field  
facility located in Sec. 4, T. 18 N., R. 105 W.  
(Legal Description)

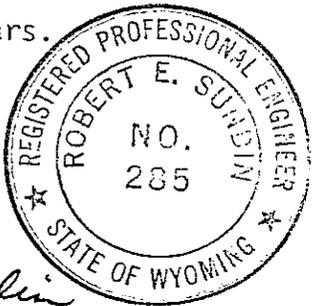
in the County of Sweetwater, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division  
STATE OF WYOMING



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 25, 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: Smith Energy Services No. 1  
Sec. 4, T. 18N, R. 105W, Sweetwater County

ENGINEER: Johnson - Fermelia & Crank, Inc.  
P. O. Box 1633  
Rock Springs, WY 82901  
ATTN: Harry Moore, P.E.

OWNER:  
Craftsman Construction Company, Inc.  
Lower Level 5660 S. Syracuse Circle  
Englewood, CO 80111

WATER QUALITY DIVISION REFERENCE NUMBER: 79-524

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

DATE OF REVIEW: 9-4-79

ACTION: NOT AUTHORIZED.

REMARKS:

- 1) At a percolation rate of 40 minutes/inch, the allowable loading rate is 0.79 gal/ft<sup>2</sup>/day (i.e.  $q = \frac{5}{\sqrt{t}} = \frac{5}{\sqrt{40}} = 0.79$ ).
- 2) Please indicate distance from leach field to well or water supply piping.

PERMIT TO CONSTRUCT

11/20/79  
10-22-79

- New
- Renewal
- Modified

Permit No. 79-525RR

Mammoth Hot Springs; Phase 2 Domestic Water System  
(Name of Facility)

This permit hereby authorizes the applicant:

Yellowstone National Park - Superintendent  
(last) (First) (Middle)

Mammoth Hot Springs  
(Street or P.O. Box)

Yellowstone National Park, Wyoming 82190  
(City) (County) (State)

to construct, install, or modify a water treatment plant, storage tank, & distribution line facility located in 44° 58'N, 110°40'E (Legal Description)

in the County of Park, 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  
 REGISTERED PROFESSIONAL ENGINEER  
 ROBERT E. SUNDIN  
 NO. 285  
 STATE OF WYOMING

December 18, 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: Yellowstone National Park, Package No. 113, Mammoth Hot Springs, Domestic Water System

ENGINEER: Mr. Ronald McLaughlin, P.E.  
Wright-McLaughlin Engineers  
2420 Alcott St.  
Denver, CO 80211

OWNER: U. S. Dept. of the Interior  
National Park Service  
Denver Service Center, P.O. Box 25287  
Denver, CO 80225

Ref. #05039-DSC-TMW  
ATTN: Clifford Blackstun

WATER QUALITY DIVISION REFERENCE NUMBER: 79-525R

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

DATE OF REVIEW: November 28, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

In order to be consistent in our review of engineering projects, I have coordinated my review with Rick Engelmann and would like to offer the following comments for your consideration and action:

1. Cannibalizing the lime feeder for parts and/or replacement of the alum feeder is not acceptable. Because of the low turbidity-low alkalinity characteristics of the raw water, the use of alum as a coagulant in the sweet floc mechanism for turbidity removal necessitates the use of an artificially induced alkalinity source (lime).

The elimination of lime addition will reduce the efficiency of alum as well as possibly creating an unstable finished water. It is strongly recommended that a spare feeder or at least a complete set of its spare parts be made available.

2. The G value for the rapid mix appears to be low. My calculations indicate a G factor, at 50° F water temperature (optimum condition) and assuming an 85% motor efficiency, of only 391 sec.<sup>-1</sup>. Shouldn't the motor horsepower be increased?
3. Sample taps on the filter effluent lines before chlorination must be provided.
4. A 1 - 1½ inch hose bibb and appropriate equipment (pressure hose and storage rack) should be provided near the filtration process for assistance in cleaning the filter walls.
5. It is recommended that the disinfection specification for the million gallon reservoir be amended to include something along the following theme:  
"The water from the reservoir may be used in the distribution system only after a satisfactory bacteriological sample has been taken."

REVIEW OF PLANS AND SPECS  
YELLOWSTONE NATIONAL PARK, MAMMOTH HOT SPRINGS  
79-525R  
NOVEMBER 28, 1979  
PAGE TWO

6. The layout of the proposed domestic wastewater disposal system appears to be satisfactory. However, it is recommended that percolation tests be run in the planned absorption area in order to insure the hydraulic adequacy of the leach field for the expected wastewater flows.
7. "Lifting out" of the tube settler modules for occasional maintenance seems to be a contradiction with the care given in the specs to their handling and installation. Shouldn't some type of handles be provided to assist in this "lifting out" process?
8. It has been the policy of this Department to critically review the need for providing emergency overflows for the backwash ponds. Technically, these overflows will require a discharge permit. Could you provide us with further information on the need for installing an emergency spillway on the backwash ponds?
9. Due to the exceptional quality of the raw water, we agree with the statement that a direct filtration process will work for this location. We recommend that serious consideration be given to such processes in the future for similar raw water quality characteristics.

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

*Chapman*

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Yellowstone National Park, Package No. 113, Mammoth Hot Springs, Domestic Water System

ENGINEER: Mr. Ronald McLaughlin  
Wright - McLaughlin Engineers  
2420 Alcott St.  
Denver, CO 80211

OWNER: U.S. Dept. of the Interior  
National Park Service  
Denver Service Center  
P.O. Box 25287, Denver, CO 80225

ATTN: Clifford Blackstun  
Ref. #D5039-DSC-TMW

WATER QUALITY DIVISION REFERENCE NUMBER: 79-525

REVIEWING ENGINEER: Rick Engelmann *Rick Engelmann*

DATE OF REVIEW: September 24, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

General

1. We need three (3) copies of plans and specifications sent to us. On approval, one copy is placed in DEQ archives, one approved copy is sent to the engineer, and one copy is kept in our Lander Office until construction is complete.
2. Please fill out the enclosed "Application for Permit to Construct..." and return.

Diversions

Are the diversions going to be rebuilt? It was my understanding from the water system report that they were.

Water Treatment Plant

1. Because no duplicate feeders are being used, there must be a complete set of spare parts available. The alum and lime feeders are the critical units.
2. The filter media spec (15251) for the coal and sand seems to be very loose. Standard practice is to spec a maximum allowable uniformity coefficient. We permit no greater than 1.7.
3. How would an operator get access to the settling basin hopper? He might find it necessary to routinely push sludge off the hopper walls.
4. Please provide the following:
  - a. the process design - any experimental basis, reason for choice of G factors, design of tube settler arrangement, etc.

REVIEW OF PLANS  
YELLOWSTONE NATL. PARK, MAMMOTH HOT SPRINGS (79-525)  
SEPT. 24, 1979

- b. drains for all basins, including clear wells. I could not find any in the drawings.
- c. the purpose for the filter effluent header overflows. I've never seen this done before.
- d. details on the alum, lime, and PAC feeders. Specifically, is backflow prevention built into the specified units, and do these have overflows plumbed to the plant drain system? Overflow of polymer can be particularly messy.

Water Distribution System

Spec. 15042 must conform to AWWA C600-77 for pressure and leakage testing.

(ABC)

cc: Dravo Corp.  
Dravo Building  
1250 Fourteenth St.  
Denver, CO 80202

71 to 2  
9-15-79

ATTN: Victor S. Vynych, P.E. PERMIT TO CONSTRUCT

New

Permit No. 79-526

Renewal

Modified

15-C Sedimentation Reservoir

(Name of Facility)

This permit hereby authorizes the applicant:

Kemmerer Coal Co.

(Last)

(First)

(Middle)

(Street or P.O. Box)

Frontier, Wyoming 83121

(City)

(County)

(State)

to construct, install, or modify a sedimentation reservoir

facility located in Sec. 20, T. 20 N., R. 117 W.

(Legal Description)

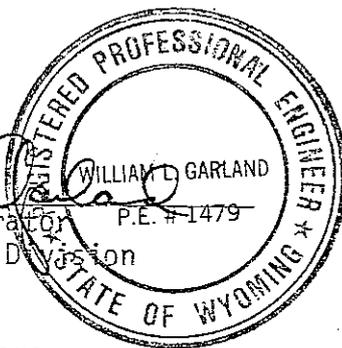
in the County of Lincoln, in the State of

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

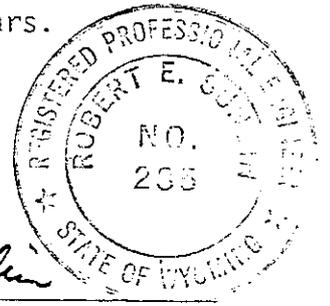
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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



Robert E. Gunden  
Director  
Wyoming Dept. of Environmental Quality



September 11, 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: Bennett-Gardner & Assoc., Inc.  
P.O. Box 1324  
Rock Springs, WY 82901

PERMIT TO CONSTRUCT

New

Permit No. 79-527R

Renewal

Modified

Sullivan Rat Hole Drilling

(Name of Facility)

This permit hereby authorizes the applicant:

Sullivan,  
(Last)

John

(First)

(Middle)

P.O. Box 1541

(Street or P.O. Box)

Rock Springs,  
(City)

Wyoming

(County)

82901

(State)

to construct, install, or modify a septic tank - leach field

facility located in Sec. 9, T. 19 N., R. 105 W.

(Legal Description)

in the County of Sweetwater,

in the State of

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

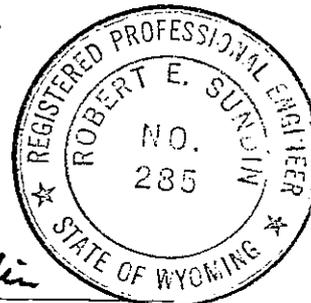
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 1, 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: Sullivan Rat Hole Drilling  
Sec. 9, T. 19 N., R 105 W.  
Sweetwater County

ENGINEER: Bennett-Carder & Associates, Inc.  
P. O. Box 1324  
Rock Springs, WY 82901

OWNER: John Sullivan  
P. O. Box 1541  
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 79 - 527

REVIEWING ENGINEER: <sup>DWH</sup> David W. Hill, P. E.

DATE OF REVIEW: September 6, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

- 1) Indicate distance from leach field to wells in the area (own well or neighboring wells). These distances must be at least 100 feet.





REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FEDERAL AMERICAN PARTNERS MILL WASTE SUBSURFACE DISPOSAL FACILITY

ENGINEER: Dames & Moore  
250 E. Broadway, Suite 200  
Salt Lake City, UT 84111  
ATT: W.R. Highland

Kaiser Engineering  
4155 E. Jewell Avenue  
Denver, CO 80222  
ATT: Gene Michel, P.E.

OWNER: Federal American Partners  
Gas Hills Star Route  
Riverton, WY 82501  
ATT: Jerry Lucas

WATER QUALITY DIVISION REFERENCE NUMBER: 79-528RRRRRRRR

REVIEWING ENGINEER: Mr. Robin Collins, P.E. and Tony Mancini, P.E.

DATE OF REVIEW: March 10, 1982

ACTION: Not authorized.

COMMENTS: As discussed in our phone conversation, I would like to offer the following comments for your consideration in processing the necessary "Permit to Construct":

1. As originally discussed in our October meeting, we were initially of the opinion that we did not have enough information to fully evaluate subsurface conditions, including pit walls. However, we were willing to forego additional drilling and testing for an adequate monitoring program with an appropriate contingency plan.  
  
Because it has not been fully shown that the degree of "imperviousness" is everywhere the same and because of the relatively large (1000 feet) gap between monitoring wells C-2 & C-3, we are still recommending one and preferably two additional confined monitoring wells (C-4 and/or C-5) be installed just north of the subsurface disposal pit.
2. We still do not feel the proposed lead indicators are sufficient enough to determine compliance with Chapter VIII "Quality Standards for Wyoming Groundwaters". We, again, would like to have the lead indicators expanded to include the following: chlorides, nitrates, sulfates and total dissolved solids.

A.C

Review of Plans and Specifications

Federal American Partners

79-528RRRRRRRRR

March 10, 1982

Page 2

Basically, we do not feel small changes in specific conductivity can be easily associated with small changes in the uranium (radium, etc.) concentration. Short of requiring uranium and radium <sup>226</sup> analyses as part of the lead indicators, we feel inclusion of the aforementioned parameters coupled with specific conductivity measurements can better address the importance of any small changes.

MRC:ch

THE STATE



OF WYOMING

M-3-3-82  
Tony W. plans

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Robin Collins  
FROM: A. J. Mancini *AJM*  
DATE: March 3, 1982  
SUBJECT: FAP Sagebrush - Tablestakes Subgrade Disposal, DEQ/WQD Ref. No. 79-528RRRRRRR

Concerning Item 1, I am still of the opinion that additional monitoring wells on the north side of the pit should be required. When we reviewed the resubmitted application sometime ago, we were of the opinion that we did not have enough information to evaluate subsurface conditions, including pit walls. We were willing to forego additional drilling for an adequate monitoring program. FAP has not documented that the proposed program is adequate; i.e., why are the number of proposed monitoring wells considered adequate? I believe more wells are necessary because it has not been shown that the degree of "imperviousness" is everywhere the same.

Concerning Item 2, much can be said about this. First, according to my notes, Uranium and Radium were to be included in WQD's comments to FAP. Perhaps we discussed removing these from the list, but if so, I have nothing to indicate that we did. Second, FAP's consultant has omitted the parameters for wells around the pit from Table 2 which leads me to suspect there was some uncertainty in the preparation of this material. In addition, the methodology of FAP's consultant, to the best of my knowledge, has not yet been proven (or even tried) in Wyoming. Also, specific-conductance differences can mask other things, such as changes in the concentration of Uranium (and other metals), which could indicate unwanted subsurface movement of fluid from the disposal pit. Lastly, none of the lead indicators, other than pH, are standards described in WQD, Chapter VIII. How would we determine compliance with Chapter VIII, if necessary?

AJM/nc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FEDERAL AMERICAN PARTNERS MILL WASTE SUBSURFACE DISPOSAL FACILITY

ENGINEER: Dames & Moore  
250 E. Broadway, Suite 200  
Salt Lake City, UT 84111  
ATTN: W. R. Highland  
Kaiser Engineering  
4155 E. Jewell Avenue  
Denver, CO 80222  
ATTN: Gene Michel, P.E.

OWNER: Federal American Partners  
Gas Hills Star Route  
Riverton, WY 82501  
ATTN: Ken Watts

WATER QUALITY DIVISION REFERENCE NUMBER: 79-528RRRRRRR

*M.R.C. by KCH*

REVIEWING ENGINEER: M. Robin Collins, P.E. and Tony Mancini, P.E.

DATE OF REVIEW: October 16, 1981

ACTION: Not authorized.

COMMENTS: As discussed in our phone conversation, I would like to offer the following comments for your consideration in processing the necessary "Permit to Construct":

1. Recommend that at least one and possibly two additional confined wells (C-4 and/or C-5) be installed just north of the subsurface disposal pit.
2. The proposed lead indicators as described in Table 1 should be expanded to include the following: chlorides, nitrates, sulfates and total dissolved solids.
3. The "perimeter" wells as described on Page 4 of the Dames & Moore letter should be further defined.
4. We recommend the following addition to the criteria for instituting the contingency plan:  
(3.) If the lead indicators or geophysical logging results exceed a certain limit, to be determined at a later date following the first year's monitoring results, then the contingency plan will be initiated.

5. Recommend the second sentence of the first stage of the contingency plan read as follows:  

"A mutually agreed to approach for defining the extent of contamination and possible remedial actions, with appropriate time limits, is the purpose of that meeting."
6. Recommend the contingency plan include a fourth stage to read as follows:  

"All physical modifications to control seepage, such as the installation of a liner and/or a pump-back system, will be expedited through the DEQ's "Permit to Construct" process prior to any construction."
7. How will the proposed operational monitoring indicate saturated velocity fronts in excess of 100 feet per year?
8. Recommend construction drawings(s) for each different type of monitoring well be included as part of the application. If all wells are of same construction, then one drawing will be acceptable.
9. Recommend page 6 of the Dames & Moore's letter be removed from this application.
10. On page 3 of this same letter, request further clarification of the "and/or" used in describing geophysical logging.

We trust that a satisfactory response to the above listed concerns can lead to the issuance of the "Permit to Construct." If further information is required, please do not hesitate to contact us.

MRC:nb  
10/19/81

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
933 MAIN STREET  
LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Federal-American Partners/Sagebrush Tablestakes Subgrade Disposal

ENGINEER: Kaiser Engineering                      Dames & Moore  
4155 E. Jewell Ave.                      250 East Broadway, Suite 200  
Denver, CO 80222                      Salt Lake City, UT 84111  
Attn: Gene Michel, P.E.                      Attn: W. R. Highland

OWNER: Federal-American Partners  
Gas Hills Star Route  
Riverton, WY 82501  
Attn: Richard Blubaugh

WATER QUALITY DIVISION REFERENCE NUMBER: 79-528RRRRR

REVIEWING ENGINEER: *M. Robin Collins*  
M. Robin Collins, P.E., and Tony Mancini, P.E.

DATE OF REVIEW: April 2, 1981

ACTION: Not authorized.

COMMENTS:

As discussed in our recent phone conversations, I would like to offer the following comments for your consideration in processing the necessary "Permit to Construct":

- 1) Because of conflicting concerns and justifications concerning the impermeability of the mudstone on the floor of the subsurface disposal pit, we would like to propose a meeting in this office on April 21, 1981 in order to discuss the advisability of drilling two to three additional test borings between ST-F11 and ST-F12. A final decision requiring these additional borings will be made at this meeting.
- 2) Further design information and appropriate drawings on the pit drainage system needs to be given. Submittal should include information on splitter box, desired slope gradients of pit bottom to drain pipes, valves (if any), sump sizing detail, placement details of 14-inch casings (horizontal through pit wall?) and electrical control arrangements for submersible pumps.
- 3) Formal application for a "Permit to Construct" for the evaporation ponds should be submitted as soon as possible. Evaporation ponds A, B, C and D may be approved under one submittal and constructed as needed with periodic renewal of the permit or applied for, permitted and built in combinations, as needed.

If further information is required, please do not hesitate to advise.

*A, B, C*

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Federal American Partners Mill Waste Subsurface Disposal Facility

ENGINEER: Dames and Moore  
250 E. Broadway, Suite 200  
Salt Lake City, UT 84111  
ATTN: W. R. Highland, Project Manager

OWNER: Federal American Partners  
Gas Hills Star Route  
Riverton, WY 82501  
ATTN: Richard E. Blubaugh

WATER QUALITY DIVISION REFERENCE NUMBER: 79-528RRRR

REVIEWING ENGINEER: *M. Robin Collins*  
M. Robin Collins and Tony Mancini

DATE OF REVIEW: February 26, 1981

ACTION: NOT AUTHORIZED.

COMMENTS: After reviewing the aforementioned project, we would like to offer the following comments for your consideration in processing the necessary permit:

1. A properly completed and signed application form for a "Permit to Construct" must be submitted to this office as part of the review process.
2. The submittal does not include drawings/specifications needed for the drain/pump system for removing fluids from the Sagebrush-Tablestakes Disposal Pit and the conjunctive use of the evaporation pond.
3. Any additional evaporation ponds which will be required to handle excesses generated by the recovery well system and expansion of the mill should be designed, approved and constructed in a timely manner.
4. The applicant implies that mudstone on the floor of the subsurface disposal pit is impermeable, with a vertical conductivity of  $10^{-7}$  cm/sec or less. Data submitted previously indicates that part of the floor has greater conductivity:

<u>Borings</u>	<u>Hydraulic Conductivity</u>
ST - F11	$1.1 \times 10^{-5}$ cm/sec
ST - F12	$2.6 \times 10^{-4}$ cm/sec
ST - F15	$2.7 \times 10^{-6}$ cm/sec

In order to clarify this potential problem, we would like to request three (3) additional borings be drilled along a line between the above mentioned borings and test for vertical hydraulic conductivity.

.... /2  
A, B, C

Federal American Partners Mill Waste Subsurface Disposal Facility  
Review of Plans and Specifications  
Date of Review, February 26, 1981  
Page Two

5. The applicant's latest proposal is not the most environmentally attractive method or alternative. A more attractive alternative, previously described, is one which provides for protection of groundwater resources by allowing for liners where necessary to contain the wastewater and prevent fluid migration.

Information about the impermeability of the pit bottom should be further clarified by the additional borings requested. However, we feel information about the potential fluid migration through the sides of the subsurface disposal pit should be further addressed. Particular attention should be given to why a liner is not required on the sides of the pit.

If further information is required, please do not hesitate to contact us.

MRC:nb

Copy



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 27, 1982

Mr. Ken Watts  
Federal American Partners  
Gas Hills Star Route  
Riverton, WY 82501

Dear Mr. Watts:

Enclosed are my specific concerns with the application to construct a mill waste subsurface disposal facility (79-528RRRRRRRRR).

Sincerely,

A. J. Mancini  
Groundwater Control Supervisor

AJM/nc

cc: Robin Collins, DEQ/WQD, Lander



*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Files

FROM: A. J. Mancini

DATE: April 25, 1982; May 27, 1982

SUBJECT: F.A.P. subgrade disposal, concerns and questions following meeting in Casper of April 20, 1982, DEQ/WQD Ref. No. 79-528RRRRRRRRR

At the subject meeting, I was asked to put all my concerns and questions on paper for FAP to respond to, as a means of resolving differences relative to the FPA submittal.

Background

The WQD have been reviewing submittal 79-528 and related documents, and numerous revisions ever since the first submittal was made in 1979.

WQD had two original groundwater concerns:

1. The applicant proposed to disposal of uranium tailings in a worked-out pit, below the water table. A sidewall liner would be installed from the base of the pit to above the water table.
2. The applicant intended to use natural in-place materials as a "liner" at the bottom of the pit.

An additional concern was voiced by the WQD when the applicant revised the submittal to indicate that sidewall lining would not be utilized in the disposal pit.

The WQD suggested that the applicant verify permeabilities of the mudstone by drilling and testing several more holes. The applicant did not want to do this. WQD relented and was willing to accept an adequate monitoring program in lieu of additional drilling.

The applicant submitted a monitoring program which was not considered adequate by the WQD. WQD asked for additional wells drilled into the confined aquifer below the mudstone. The applicant would not agree. WQD met with the applicant for further discussion on two occasions. At the second meeting, WQD was willing to forego additional confined aquifer wells if the applicant would install 5-6 additional monitor wells in the unconfined aquifer. The applicant did not agree to do this either.

In response to WQD's question relating to the applicant's basis for the number and locations of proposed monitoring wells, it was reported only that if evidence of fluid movement was noted (from the pit to a monitoring well) then additional wells would have to be drilled.

Following are all of the concerns/questions which I feel the applicant has not addressed adequately.

Concern/Question #1

The applicant states that there is more than 30 feet of impermeable mudstone at the bottom of the pit. A clay source investigation was made early in 1980 and revealed that "only five feet of material is usable from the basal mudstone layer" (suitable for lining material). How can both of these statements be factual? I asked this question at the April meeting but an answer was not provided.

Concern/Question #2

The WQD commented on permeability (hydraulic conductivity) in borings STF-11 and STF-12, as being much greater than  $10^{-7}$  cm/sec reported for the mudstone. The applicant responded that the reported permeability (hydraulic conductivity) in STF-11 was a horizontal permeability, and therefore is not relevant. If horizontal hydraulic conductivity is  $1.1 \times 10^{-5}$  cm/sec, why should it be assumed that vertical hydraulic conductivity is only  $10^{-7}$  cm/sec or worse? And why should fluid movement in a horizontal direction be ignored? As to STF-12: Why should the WQD believe, as implied by the applicant, that the laboratory test ( $KV = 1 \times 10^{-4}$  cm/sec) was in error? Even if data "generally indicate permeabilities on the order of  $10^{-7}$  cm/sec or less", it is possible for local permeability to be much better, in which case fluid would readily find a way out of the pit.

Concern/Question #3

WQD learned at the April meeting that certain plans (for the sump in the bottom of the disposal pit and the fluid removal wells) had not officially been submitted as part of the revised application. These plans have not yet been submitted. The discussion of the sump fluid removal wells and lateral drains revealed that there was no method for maintenance or "clean-out" of the drains or sump over the life of the pit, and that pumps in the wells undoubtedly would have to be replaced during the operation of the pit. It was also stated by the applicant that the lateral drains would prevent seepage through the pit walls, but this statement was not supported by data.

Concern/Question #4

This concern is related to the model used to support the applicant's proposal for utilizing the pit as described in the latest revised application. Part of the concern undoubtedly is caused by the fact that WQD reviewers are not experts in the design or use of groundwater models. It is the responsibility of the applicant to provide enough information to relieve concerns of the reviewers. Relative to Concern #4:

1. The plan view model is shown to be for a relatively small area at the east end of the pit, yet the model is applied for the entire pit area (3-4 times the size

of the model itself). What is the rationale for doing this? How was the model verified for the entire pit area, including pit walls?

2. How is flow which would seek a less resistive horizontal path in the unconfined aquifer constrained to move in a vertical direction by the model? Why was this necessary? Was the "less resistive" horizontal flow evaluated, by model or otherwise? What changes would occur if only a 5-foot thickness of claystone/siltstone were assumed, instead of 20 feet? (Refer to Concern #1.)
3. Anticipated maximum vertical seepage rate is 5 gpm. Is this for the entire pit area or only for the small part at the east end? If for the latter only, would the seepage rate for the entire pit be significant? What seepage rate cannot be neglected when modelling horizontal flow?
4. Seepage to the perched aquifer was assessed. The model was used to "estimate seepage into the upper, unlined portions of the pit walls". What portion of the pit walls will be lined? Do results change if no portion of the wall is lined?
5. Please verify that the perimeter for the disposal pit is 4,000 feet. (Or is it greater than 4,000 feet?)
6. Were input parameters for models assumed? Verified? Table 5 shows porosity of .40 for silty sandstone. Table 7 shows porosity of .20 for silty sandstone. Why the difference?
7. What is "Plate 2" referred to in the discussion of the Plan View Model?
8. It appears that the alternatives considered with the Plan View Model are for a small area. Verify the area considered. If this is only a small area, how are the results applied to the entire pit? Will seepage be greater for the entire pit?
9. According to information submitted January 30, 1981, perimeter drains will only reduce transport rates slightly; i.e., they will not prevent seepage through the pit wall as was implied by the applicant at the April meeting.
10. Was modelling used to show "a worst case" seepage condition? (What is the highest value of anticipated hydraulic conductivity and was it used in modelling? If not, why not?)
11. Is there documentation for the various input parameters as utilized? (Is it logical to apply the parameters uniformly? Should they not vary spatially?)
12. Was sensitivity testing and analysis used in making the models? To what degree? With what results?

The submitted information indicates there will be seepage from the disposal pit. I believe a monitoring program should be adequate to indicate the extent of seepage (assuming WQD issues a permit to construct) and to provide a means of determining that any mitigation activities, as may be required are effective. In my opinion, the adequacy of the proposed monitoring program has not been justified by the applicant.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 Lincoln

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: FEDERAL AMERICAN PARTNERS MILL WASTE SUBSURFACE DISPOSAL FACILITY

ENGINEER: Dames & Moore                      Kaiser Engineering                      Emmerson Kemp & Assoc.  
250 E. Broadway, Suite 200      4155 E. Jewell Ave.                      8795 Ralston Rd.-Suite 101  
Salt Lake City, UT 84111      Denver, CO 80222                      Arvada, CO 80002  
ATT: W. R. Highland                      ATT: Gene Michel, P.E.

OWNER: Federal American Partners  
Gas Hills Star Route  
Riverton, WY 82501  
ATT: Ken Watts & Niles Andrus

WATER QUALITY DIVISION REFERENCE NUMBER: 79-528RRRRRRRRR

REVIEWING ENGINEER: *M. Robin Collins*, P.E. and Tony Mancini, P.E.

DATE OF REVIEW: April 22, 1982

ACTION: Not authorized.

COMMENTS: As discussed in our April 20, 1982 meeting in Casper, we would like to offer the following comments for clarification and consideration in processing the necessary permit:

1. The graded pit bottom and sump detail sheets need to be formally submitted in order to be included with this application.
2. Plans to adequately plug Well P-1 needs to be updated and possibly reclarified.
3. The adequacy of the monitoring program along the north and east sides of the disposal pit needs to be readdressed in light of possible shortcomings associated with the discussed modeling program. Either specific concerns with the model used to predict fluid movement from the subsurface disposal pit be clarified or more monitoring wells along the north and east sides of the disposal pit may need to be installed in order to "make-up" for program assumptions.

Tony Mancini will be forwarding a letter in the near future which will list specific problems, statements and/or concerns with the compute model and other facets with the submittal. Responses to his comments will be used as a basis to determine if additional monitoring wells should be installed.

*A/C*

Review of Plans and Specifications  
Federal American Partners  
DEQ #79-528RRRRRRRRRR  
April 22, 1982  
Page 2

4. Reassurances concerning the development of adequate background data from the appropriate monitoring wells should be included.

If further information is required, please do not hesitate to contact us.

MRC:ch

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
933 MAIN STREET,  
LANDER, WYOMING, 82520.  
(307) 332-3144

PROJECT: Federal American Partners Mill Waste Subsurface Disposal Facility

ENGINEER: Donald R. Clark  
F. M. Fox & Associates  
4765 Independence St.  
Wheatridge, Colorado 80033

OWNER: Federal American Partners  
Gas Hills Star Route  
Riverton, WY 82501  
ATTN: Ken Watts

WATER QUALITY DIVISION REFERENCE NUMBER: 79-528

REVIEWING ENGINEER: Rick Engelmann, Tony Mancini



DATE OF REVIEW: October 12, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

General

1. On the basis of less than 100 years of record, an assumption that there will be no earthquakes of over Mercalli IV intensity in the Gas Hills area (p. 4) is not reasonable in the opinion of these reviewers. How important is the question of earthquake intensity to the proposed facility? Was it designed with consideration to possible earthquake damage?
2. We believe that the upthrown and downthrown sides of the fault were incorrectly labeled on Figure 9.0-1. This was very confusing.
3. It would be very difficult to approve this system without having the recovered fluid disposal plans firmed up.

Disposal Pit

1. The results from the Theis well discharge (point discharge) equation estimation (pp. 9-10) of water table drawdown can be considered only very approximate; the equation's application to a nonhomogenous, perched aquifer with a very large drainage area is very far from the ideal situation for which the Theis equation was derived. In light of this, we are not entirely satisfied that the proposed clay pit sidewall liner will be high enough.
2. What is the vertical permeability of the mudstone unit? Can it be safely assumed to be a homogenous unit in the pit area? Are we assured that it is free of cracks and that it will not crack under loading?
3. No background data for the monitoring wells was provided.

PERMIT TO CONSTRUCT

MLO  
10-22-79

- New
- Renewal
- Modified

Permit No. 79-529RR

Western Hills Mobile Home Park Addition  
(Name of Facility)

This permit hereby authorizes the applicant:

Western Hills LTD

(Last) Boris B. Vukovich (First) (Middle)

5650 E. Evans, Suite 200

(Street or P.O. Box)

Denver

(City)

CO

(County)

80222

(State)

to construct, install, or modify a water distribution and wastewater collection.

facility located in Section 12, T. 18N., R. 106W.

(Legal Description)

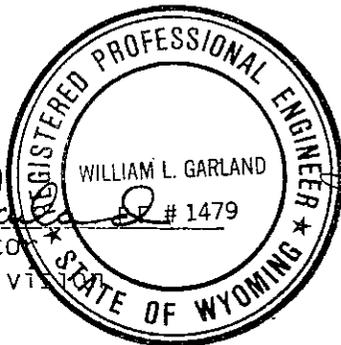
in the County of Sweetwater, in the State of

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

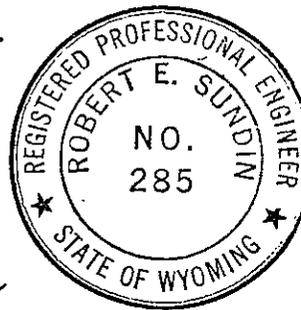
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director



Wyoming Dept. of Environmental Quality

October 16, 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  
Section 12, T. 18N., R. 106W.  
Sweetwater County

ENGINEER: Jack E. Hansen, P.E.  
P. O. Box 1813  
Rock Springs, WY 82901

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-529R

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

DATE OF REVIEW: October 10, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

Comment #4 was not answered. Cleanouts may only be used if the distance to the downstream manhole is about 150 feet or less. Otherwise, a manhole is needed. The distance from the manhole to the cleanout on Palmer - High Plains appears to still be about 190 feet as scaled.

*Chapman*

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  
Sec. 12, T. 18N, R. 106W, Sweetwater County

ENGINEER: Jack E. Hansen, P.E.  
Box 1813  
Rock Springs, WY 82901

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-529

REVIEWING ENGINEER: *M.S. Jan* David W. Hill, P.E.

DATE OF REVIEW: September 15, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

WATER SYSTEM

- (1) Complete water line installation and testing specifications are needed. If P. P. & L specifications are to be used, please include them in the submission.
- (2) Details of the proposed water line blow offs are needed.
- (3) For future maintenance purposes, shutoff valves are recommended on the two east-west lines where they takeoff from the six inch line.

SEWER SYSTEM

- (4) Cleanouts may only be used if the distance to the downstream manhole is 150 feet or less. Otherwise, a manhole is needed. The distance from the cleanout to the manhole on Palmer-High Plains appears to be about 200 ft.
- (5) Water main - sewer service line crossover details are needed.

SEWAGE PLANT

- (6) The addition of 18 units to the existing plant should be satisfactory provided the plant is properly operated and maintained.

Western Hills Mobile Home Park Addition  
Review of Plans & Specs.  
PAGE 2

The plant should have the ability to work in at least two modes of operation (i.e. - extended aeration and~contact stabilization). The sketched in change on the plan sheet is not the change that was discussed with me when I inspected the plant on September 11. Please straighten this out.

cc: John Donmyer  
200 N. Wolcott  
Casper, WY 82601

Book  
11-15-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-530R

Water Main From Paradise Valley to Robertson Road  
(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, Natrona, WY 82601  
 (City) (County) (State)

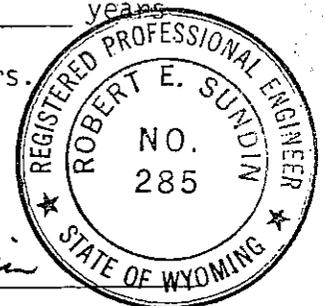
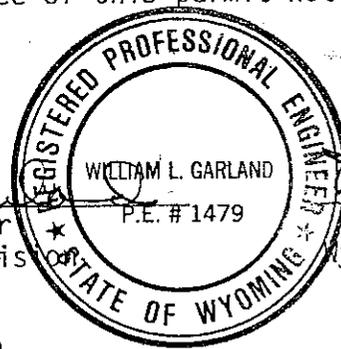
to construct, install, or modify a municipal water distribution  
 facility located in City of Casper  
 (Legal Description)

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



October 15, 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.

*Back  
9/18/79*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water Main from Paradise Valley to Robertson Road, City of Casper,  
Natrona Co.

ARCHITECT OR ENGINEER: John Donmyer, 200 N. Wolcott, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-530

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

DATE OF REVIEW: September 18, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Provide detailed drawings of blow-off valve and air relief valve.

4-4-84



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 13, 1984, a status letter was sent to you concerning a permit to construct, reference number 79-531R, facility name Public Water Supply Modifications, Distribution System. 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  
7096

March 13, 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:	Town of Rock River, Public Water Supply Modifications, Distribution System
DEQ/WQD Reference Number:	79-531R
Engineering Consultant:	William Goodrich
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	October 22, 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 \_\_\_\_\_

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 13, 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:	Town of Rock River, Public Water Supply Modifications, Distribution System
DEQ/WQD Reference Number:	79-531R
Engineering Consultant:	William Goodrich
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	October 22, 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 \_\_\_\_\_

6-16

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Rock River, Public Water Supply Modifications, Albany Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-531R

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

DATE OF REVIEW: October 22, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

We have not received the engineering construction plans and specifications for the public water supply modifications in your town. The Farm Loan Board in Cheyenne has a report accomplished by J. T. Banner Associates concerning the study and possible alternatives. I have reviewed that document. It does not contain the necessary engineering drawings or construction specifications to facilitate a review by this Division. The report may be used to develop the necessary drawings and specifications. I suggest that you have your town engineer or a consultant finalize your plans, develop the drawings and specifications, and submit them to us for review.

11-7-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Rock River, Albany Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-531

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

DATE OF REVIEW: September 13, 1979

ACTION: No plans were submitted, therefore, a review cannot be completed.

COMMENTS:

cc: Wolz & Associates  
933 West 14th St.  
Casper, WY 82601

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-532R

Patton Plastic Coating Warehouse  
(Name of Facility)

This permit hereby authorizes the applicant:

Patton, Marshall  
(Last) (First) (Middle)  
P.O. Box 831  
(Street or P.O. Box)

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

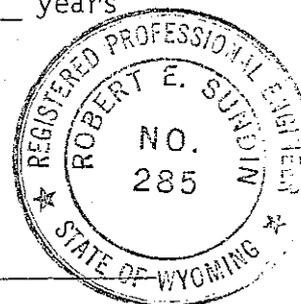
to construct, install, or modify a industrial subsurface disposal  
facility located in Sec. 29, T34N, R80W  
(Legal Description)

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 P. Jala  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 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.

cc: Ron Yoder  
RR #1, Box 374  
Torrington, WY 82240

Beck  
10-22-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-533R

West Highway Sewer District Extension  
(Name of Facility)

This permit hereby authorizes the applicant:

West Highway Sewer  
(Last) (First) (Middle)

P.O. Box 1027

(Street or P.O. Box)

Torrington,  
(City)

(County)

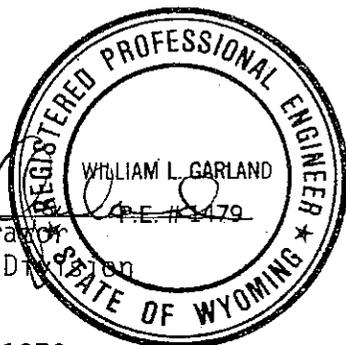
WY 82240  
(State)

to construct, install, or modify a small sewage collection system  
facility located in Sec. 5, T24N, R61W  
(Legal Description)

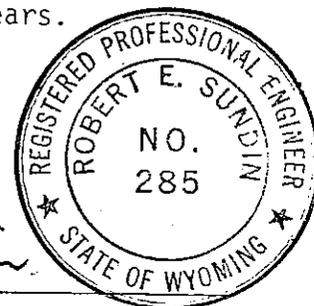
in the County of Goshen, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 16, 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."

Boyle  
10/24/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

XXXXXXXXXXXXXXXXXXXXXXXXXX State Office Building Hathaway Bldg.

Cheyenne, Wyoming 82002

PROJECT: West Highway Sewer District Extension, University of Wyoming Research and Extension Center, Torrington, WY, Goshen Co.

ARCHITECT OR ENGINEER: Ron Yoder, RR #1, Box 374, Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 79-533

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

DATE OF REVIEW: September 24, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. All plans and specifications must carry the seal or signature of a registered professional engineer licensed in Wyoming.
2. Specification III d must be expanded to following: "The Contractor shall provide all required assistance to the Engineer for lamping each section of sewer constructed 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 indicates serious misalignment or collapse of the sewer and shall be immediately remedied by the Contractor.
3. Specification III e. The leakage test must be specified as either water or low pressure air. The air test must follow ASTM C-828-76T specifications.
4. A letter of verification from the Town of Torrington stating that they can adequately transport and treat the additional wastewater has not been received by this Division.

Sewage Lift Station

1. "Ten State Standards" requires two pumps for a lift station.
2. What are the material specifications for the lift station?
3. Indicate detail drawing of lift station, pumping system, valves and maintenance accessibility.
4. An alarm system is required for the lift station.

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

*Bob - in. e. Sundin*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-534 R

Miller-Spiker Enterprises, Inc.  
(Name of Facility)

This permit hereby authorizes the applicant:

Miller-Spiker Enterprises  
(Last) (First) (Middle)

RR #1, Box 626  
(Street or P.O. Box)

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

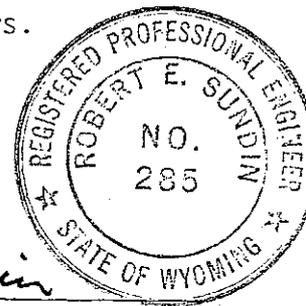
to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 9, T14N, R75W  
(Legal Description)

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 J. Ojala  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 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."

*Handwritten:*  
9-10-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Miller-Spiker Enterprises, Inc., Albany Co.

ARCHITECT OR ENGINEER: Joseph C. Lord, P.E., P.O. Box 550, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-534

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

DATE OF REVIEW: September 6, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Size and material of sewer line and grade not indicated.  
Note: The first 5 feet from a building shall be cast iron.
2. Detailed drawing of side view of septic tank not submitted (sample enclosed).
3. Detailed drawing of side view of standard absorption trench including leach line and back fill material to be submitted also (sample enclosed).

FRH/nc

Enclosures - 2

cc: Kanti Patel  
310-4J Road  
Gillette, WY 82716

PERMIT TO CONSTRUCT

Atto I  
12-13-79

- New
- Renewal
- Modified

Permit No. 79-535RR  
(Ref. 78-507RRRRRRR)

Water Supply Storage Tank, Pleasant Valley Subdivision  
(Name of Facility)

This permit hereby authorizes the applicant:

Mader, Kelly F.  
(Last) (First) (Middle)

P.O. Box 699  
(Street or P.O. Box)

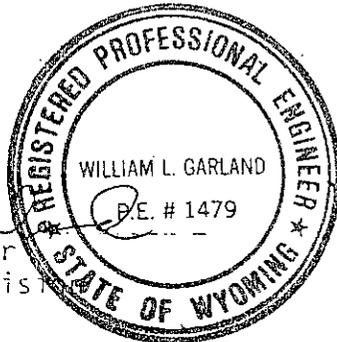
Gillette, Wyoming 82716  
(City) (County) (State)

to construct, install, or modify a water supply storage  
facility located in Sec. 27, T. 32 N., R. 99 W.  
(Legal Description)

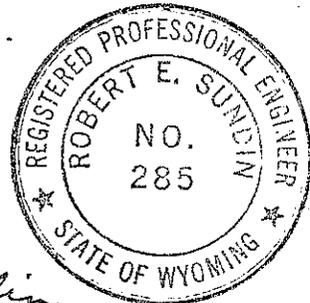
in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



December 6, 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."

THE STATE OF WYOMING



79-535R  
ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 13, 1979

Mr. Chuck Belke  
Parkersburg Tank  
P.O. Box 659  
Tulsa, Oklahoma 74101

Dear Mr. Belke:

Thank you for calling yesterday. I hope we can get this problem straightened out.

As promised, I have enclosed a copy of my review dated October 15, 1979.

Sincerely,

A handwritten signature in cursive script that reads "Rick Englemann".

RICK ENGLEMAN  
District Engineer

RE/ms

Enclosure

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Pleasant Valley Subdivision Water System  
(Water Storage Tank)

ENGINEER: Kanti F. Patel  
310 4J Road  
Gillette, WY 82716

OWNER: Kelly F. Mader  
P.O. Box 699  
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-535R

REVIEWING ENGINEER: Rick Engelmann 

DATE OF REVIEW: October 15, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

1. All submissions must, by State law, be sent in under the signature of the registered engineer.
2. I am not entirely satisfied that the proposed Parmac steel tank meets the AWWA D103 draft standards and Ten State Standards. However, from talking with a representative with Parmac in Tulsa, I feel that the tank may meet our requirements. In order to verify this, we will need (1) a statement from the company about their tank's compliance with draft AWWA D104 (outlining specifically what points it does comply with and does not comply with); (2) some type of detailed, dimensioned company drawing showing the tank layout (overflows, vents, hatches, inlet & outlet pipes, etc.); and (3) the erection specs to be used. A satisfactory reply on this point should answer our questions concerning tank structural strength, gasket material, and liners (if the liner is factory applied).
3. Plans and installation specs for the tank foundation.
4. Specs for the tank liner if field applied. Note that the tank liner must be approved for contact with drinking water by AWWA, U.S. EPA, or U.S. FDA.

Note: This review is essentially a repeat of the review of September 11, 1979. I did not feel that that review was adequately answered.

My contact with Parmac was

Mike Skoller  
Parmac, Inc.  
P.O. Box 659  
Tulsa, Oklahoma 74101  
telephone (918) 582-4177

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Pleasant Valley Subdivision Water System  
(Water Storage Tank)

ENGINEER: Kanti F. Patel  
310 4J Road  
Gillette, WY 82716

OWNER: Kelly F. Mader  
P.O. Box 699  
Gillette, WY 82716



WATER QUALITY DIVISION REFERENCE NUMBER: 79-535R

REVIEWING ENGINEER: Rick Engelmann

DATE OF REVIEW: October 15, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. All submissions must, by State law, be sent in under the signature of the registered engineer.
2. I am not entirely satisfied that the proposed Parmac steel tank meets the AWWA D103 draft standards and Ten State Standards. However, from talking with a representative with Parmac in Tulsa, I feel that the tank may meet our requirements. In order to verify this, we will need (1) a statement from the company about their tank's compliance with draft AWWA D104 (outlining specifically what points it does comply with and does not comply with); (2) some type of detailed, dimensioned company drawing showing the tank layout (overflows, vents, hatches, inlet & outlet pipes, etc.); and (3) the erection specs to be used. A satisfactory reply on this point should answer our questions concerning tank structural strength, gasket material, and liners (if the liner is factory applied).
3. Plans and installation specs for the tank foundation.
4. Specs for the tank liner if field applied. Note that the tank liner must be approved for contact with drinking water by AWWA, U.S. EPA, or U.S. FDA.

Note: This review is essentially a repeat of the review of September 11, 1979. I did not feel that that review was adequately answered.

My contact with Parmac was

Mike Skoller  
Parmac, Inc.  
P.O. Box 659  
Tulsa, Oklahoma 74101  
telephone (918) 582-4177

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Pleasant Valley Subdivision Water System (Water Storage Tank)

ENGINEER: Kanti F. Patel  
310-4J Road  
Gillette, WY 82716

OWNER: Kelly F. Mader  
P. O. Box 699  
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-535

REVIEWING ENGINEER: Rick Engelmann



DATE OF REVIEW: September 11, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

From discussions with Dan Kim of our Sheridan Office I've found that they have been requiring the following for bolted tanks: a structural analysis from the tank manufacturer; a completely dimensioned drawing of the tank showing inlet and outlet pipes, overflows, hatches, vents, etc.; a description of the gasket material and tank lining material, including some verification of the materials' compatibility with drinking water (AWWA, U.S. EPA, or U.S. FDA certification); and plans and specs for the tank foundation.

Dan Kim informs me that a welded steel tank was approved for the Cedar Hills Subdivision, yet you indicated that a Parmac bolted tank was installed. What is going on here?



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

M-5-80

PERMIT TO CONSTRUCT

New

Permit No. 79-536RR

Renewal

Modified

Squaw Mountain Trailer Park

(Name of Facility)

This permit hereby authorizes the applicant:

Shafer,

Max

(Last)

(First)

(Middle)

904 15th Street

(Street or P.O. Box)

Wheatland,

WY 82201

(City)

(County)

(State)

to construct, install, or modify a water distribution and waste collection

facility located in Sec. 11, T24N, R68W

(Legal Description)

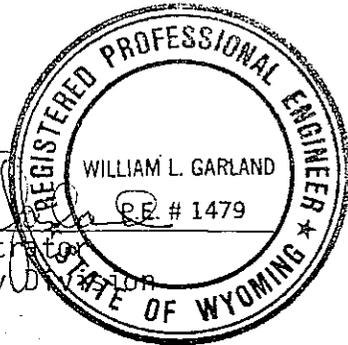
in the County of Platte, in the State of

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

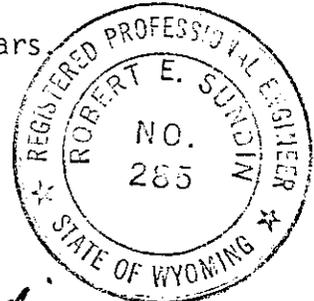
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



April 30, 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."

M-2-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Squaw Mountain Trailer Park, Wheatland, WY, Platte Co.

ARCHITECT OR ENGINEER: K & H Engineering, P.O. Box 1089, Wheatland, WY 82201

WATER QUALITY DIVISION REFERENCE NUMBER: 79-536

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

DATE OF REVIEW: September 28, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Manholes

Provide a typical cross sectional drawing of typical manhole.

Water & Sewer Riser

The minimum horizontal distance between individual water and sewer risers shall be 5 feet. The horizontal separation of the water and sewer main shall be 10 feet.

Sewer Profiles

Provide profiles of sewer lines giving grades and distances between manholes.

Water & Sewer Crossings

Water and sewer crossings shall be made to comply with the Ten State Standards providing a minimum vertical separation of 18 inches between the bottom of the water line and crown of the sewer.

Specifications

Submit a complete set of specifications including lamping of sewers and trenching and backfilling water and sewer crossings and vertical horizontal separations, disinfection, pressure testing, infiltration and exfiltration, bedding, etc.

What pressure is provided for the distribution systems?

cc: Ted C. Gertsch  
203 Grand Ave.  
Laramie, WY 82070

M-16-2-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-537

University of Wyoming - Water System Alterations  
(Name of Facility)

This permit hereby authorizes the applicant:

University of Wyoming  
(Last) (First) (Middle)

Attn: Board of Trustees  
University Station  
(Street or P.O. Box)

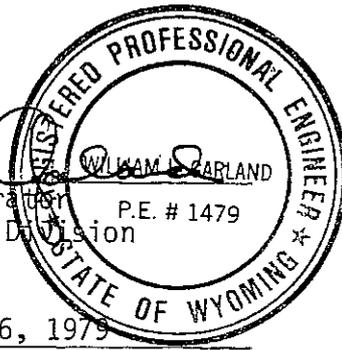
Laramie, Albany, WY 82071  
(City) (County) (State)

to construct, install, or modify a municipal distribution system  
facility located in Sec. 33 & 34, T16N, R73W  
(Legal Description)

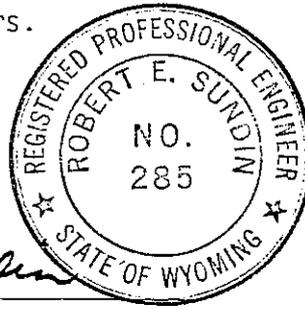
in the County of Albany, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 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."



THE STATE OF WYOMING

79-538R  
11-10-17-79

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 16, 1979

Mr. Ted Gertsch  
Gertsch/Baker & Associates  
203 Grand Avenue  
Laramie, WY 82070

Re: Alta Vista, Third Addition, DEQ/WQD Ref. No. 79-538R  
Riverview, First Addition, Block 3, DEQ/WQD Ref. No. 79-641  
Riverview, First Addition, Lots 1 & 2, Block 4, DEQ/WQD Ref. No. 79-642

Dear Mr. Gertsch:

The above referenced projects have been reviewed by this Division and their construction meets minimum State standards for sewer and water lines. Since a Permit to Construct cannot be issued for "as built" facilities, this letter will serve as the approval document.

Sincerely,

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

LCF/nc

M  
10-19-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~XXXXXXXXXXXXXXXXXXXX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Alta Vista, 3rd Addition, Laramie, WY, Albany Co.

ARCHITECT OR ENGINEER: Ted Gertsch, Gertsch/Baker & Associates, 203 Grand Ave.  
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-538

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

DATE OF REVIEW: October 5, 1979

ACTION:

COMMENTS:

1. An application for a permit to construct must be submitted.
2. What materials were used for the sewer main pipes? Provide specifications.
3. How were the sewer/water line crossovers installed? Provide construction detail.
4. What method was used for pressure testing and disinfection of water lines? Provide results.
5. What were the construction specifications and minimum sizes for water line thrust blocks?
6. What was depth of bury for water lines?
7. What sewer line leakage tests were performed? Indicate criteria for acceptable exfiltration/infiltration rates. Provide test results.
8. What alignment tests were performed on sewer pipe?
9. Provide detail on air relief valves for water lines.

cc: Harry Patterson  
437 So. Spruce  
Casper, WY 82601

*Book  
1979-82-79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-539R

S & I Repair  
(Name of Facility)

This permit hereby authorizes the applicant:

Commercial Bldg. System  
(Last) (First) (Middle)

1917 E. Yellowstone  
(Street or P.O. Box)

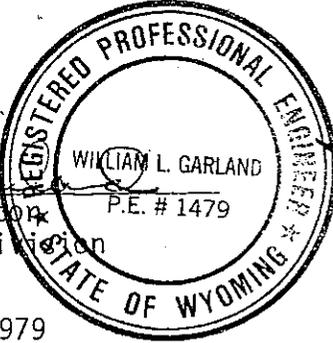
Casper, Natrona, WY 82601  
(City) (County) (State)

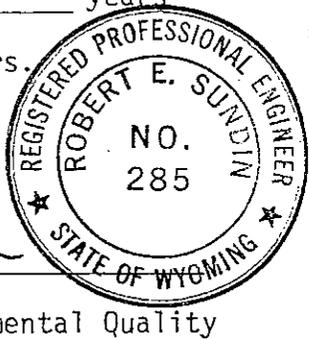
to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 34, T34N, R80W, Westgate Park Area  
(Legal Description)

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

October 15, 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: Wayne Haug  
Scott Engineering Company  
704 Douglas Highway  
Box 2097  
Gillette, WY 82716

PERMIT TO CONSTRUCT

10-22-79

New Permit No. 79-540  
 Renewal  
 Modified

WESTSIDE ADDITION  
(Name of Facility)

This permit hereby authorizes the applicant:

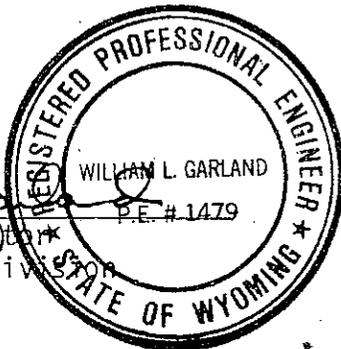
Tower West, Inc.  
(Last) (First) (Middle)  
710 West 8th  
(Street or P.O. Box)  
Gillette Campbell Wyoming 82716  
(City) (County) (State)

to construct, install, or modify a water distribution and sewage collection  
facility located in Sections 20 and 21, T.50N., R.72W.  
(Legal Description)

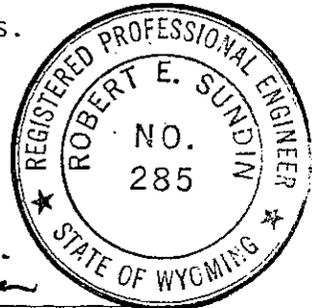
in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 16, 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."

PERMIT TO CONSTRUCT

1146

New

Permit No. 79-541R

Renewal

Modified

Paul Johnson's Steel Shop Building Wastewater Disposal  
(Name of Facility)

This permit hereby authorizes the applicant:

Johnson Paul  
(last) (first) (Middle)  
(phone: 362-5975)

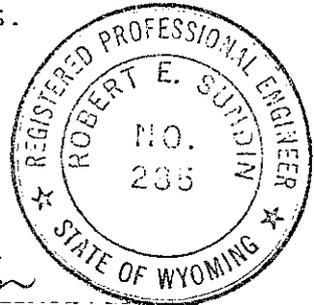
1125 Hilltop  
(Street or P.O. Box)

Rock Springs WY 82901  
(City) (County) (State)

to construct, install, or modify a septic tank/leach field  
facility located in Mountaineer 5th Addition, Section 9, T. 19N., R. 105W.  
(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

Robert E. Surdin  
Director  
Wyoming Dept. of Environmental Quality

January 2, 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*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 14, 1979

Mr. Paul Johnson  
1125 Hilltop  
Rock Springs, Wyoming 82901

Re: Shop Building Septic Tank - Leach Field System, 79-541

Dear Mr. Johnson:

This department has received copies of the plans for the above said system. They cannot be reviewed at this time. The Wyoming Water Quality Rules and Regulations, 1976, Chapter III requires that the plans carry the seal or signature of an engineer registered in the state of Wyoming. Your plans will not be reviewed until this is done.

Please realize that the Environmental Quality Act of 1974 provides for severe penalties for construction without a "Permit to Construct."

If any question comes up, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "David W. Hill".

DAVID W. HILL  
District Supervisor  
District III

Enc.

cc: Klein Drilling, Inc.

DH/ms

cc: Jerry L. Nelson, P.E.  
P.O. Box 25  
Grover, WY 83122

PERMIT TO CONSTRUCT

*M to 2:00*

- New
- Renewal
- Modified

Permit No. 79-542RR

Star Valley Funeral Service Mortuary  
(Name of Facility)

This permit hereby authorizes the applicant:

Richins, Boyd W.  
(Last) (First) (Middle)

P.O. Box 5  
(Street or P.O. Box)

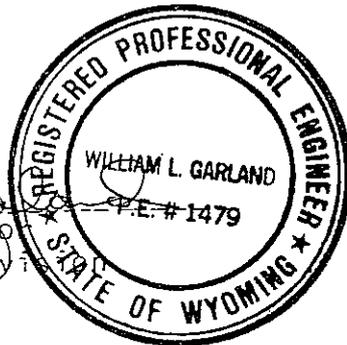
Grover, Wyoming 83122  
(City) (County) (State)

construct, install, or modify a septic tank/leach field  
facility located in Sec. 6, T. 32 N., R. 118 W.  
(Legal Description)

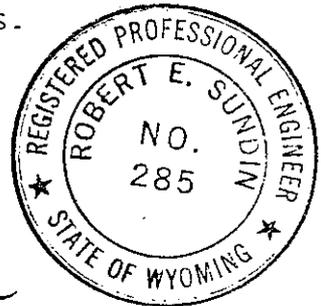
in the County of Lincoln, in the State of  
Wyoming. This permit shall be effective for a period of two years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrator  
Water Quality Division



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



March 3, 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: Star Valley Funeral Services Mortuary.  
Sec. 6, T. 32 N., R. 118 W., Lincoln County

ENGINEER: Jerry L. Nelson, P.E.  
P.O. Box 25  
Grover, WY 83122

OWNER: Boyd W. Richins  
P.O. Box 5  
Grover, WY 83122

WATER QUALITY DIVISION REFERENCE NUMBER: 79-542R

REVIEWING ENGINEER: ~~544~~ David W. Hill, P.E.

DATE OF REVIEW: February 5, 1980

ACTION: NOT AUTHORIZED.

COMMENTS:

1. The application looks good; however, please detail the loading criteria for the disposal system (i.e. visitors per day, flow per person, etc.).
2. Are any wells nearby or is it all on a centralized system? The leach field must be at least 100 feet from any well.
3. Is the system to handle only sanitary waste or will chemicals be introduced from the operating room?

*Department of Environmental Quality**Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-~~3047~~<sup>3144</sup>

September 14, 1979

Mr. Boyd W. Richins  
P. O. Box 5  
Grover, WY 83122

Re: Star Valley Funeral Service  
Mortuary Septic Tank  
Leach Field System 79-542

Dear Mr. Richins:

This department has received copies of the plans for the above said system. They cannot be reviewed at this time. The Wyoming Water Quality Rules & Regulations, 1976, Chapter III requires that the plans carry the seal or signature of an engineer registered in the state of Wyoming. Your plans will not be reviewed until this is done.

Please realize that the Environmental Quality Act of 1974 provides for severe penalties for construction without a "Permit to Construct."

If any question comes up, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "David W. Hill".

David W. Hill  
District Supervisor, Dist. III

DWH/dll

Enclosure - Chapter III

cc: Allen Grasmick  
350 West A  
Casper, WY 82601

*Just  
12-19-79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-543

Stoneywood Addition  
(Name of Facility)

This permit hereby authorizes the applicant:

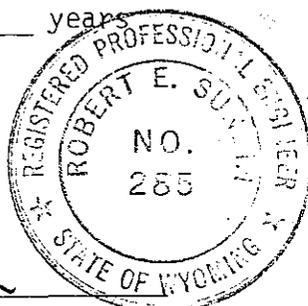
Board of Public Utilities  
 (Last) (First) (Middle)  
200 N. David  
 (Street or P.O. Box)  
Casper, Natrona WY 82601  
 (City) (County) (State)

to construct, install, or modify a municipal distribution and 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. Gaudin  
 Administrator  
 Water Quality Division

Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality

September 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



79-54HRR  
Book  
11.13.79

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 7, 1979

Mr. J. W. Nollenberger  
Black & Veatch  
12075 East 45th Ave., Suite 400  
Denver, CO 80239

Re: Paradise Valley Tank  
Casper, WY

Dear Jim:

We have reviewed the plans and specifications for the referenced project and other enclosures and have found that it is keeping with Wyoming Rules and Regulations. However, since it has been elected not to construct the project, we have not issued a permit for it.

We are returning the subject plans and specifications for your disposal.

Yours very truly,

*Frank R. Harman*

Frank R. Harman, M.S., P.E.  
Environmental Engineer

FRH/nc

Enclosures

Book  
10-15-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~XXXXXXXXXXXXXXXXXXXX~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Paradise Valley 500,000 Gallon Water Tank, Casper, Natrona Co.

ARCHITECT OR ENGINEER: Bruce Elms, Black & Veatch, 12075 E. 45th Ave., Suite 400,  
Denver, CO 80239

WATER QUALITY DIVISION REFERENCE NUMBER: 79-544R

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

DATE OF REVIEW: October 11, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Silt stop and valve to drain tank are not indicated.
2. Overflow pipe out of tank is not indicated.
3. Vent stack out of tank is not indicated. Vent should be goose-necked and screened to keep out birds and rodents.

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

79-10-2379

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-545R

Service Building Septic Tank - Burlington Northern Inc.  
(Name of Facility)

This permit hereby authorizes the applicant:

Burlington Northern Inc.  
(Last) (First) (Middle)

Attn: Ronald L. Vogel  
Wolcott & C Street  
(Street or P.O. Box)

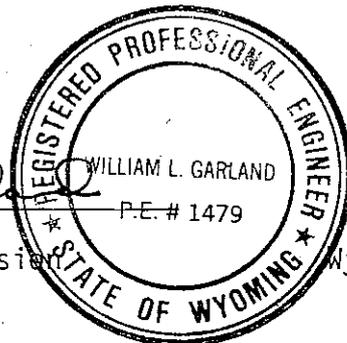
Casper, WY 82601  
(City) (County) (State)

to construct, install, or modify a industrial subsurface disposal  
facility located in Sec. 36, T27N, R66W  
(Legal Description)

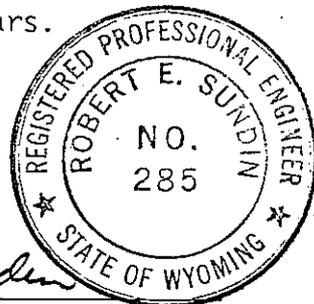
in the County of Platte, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 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."

*Boel  
M. 9. 26-79*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Burlington-Northern Service Bldg., Septic Tank System,  
Guernsey, WY, Platte Co.

ARCHITECT OR ENGINEER: Wells Engineering, Inc. 1225 Sage Street, Gering, NE 69341

WATER QUALITY DIVISION REFERENCE NUMBER: 79-545

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

DATE OF REVIEW: September 11, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide an audio-visual alarm system for the lift station. The alarm shall be activated in cases of power failure, pump failure or any cause of pump station malfunction.
2. All electrical equipment shall be of the non-explosive type and shall comply with the National Electrical Code, Class I, Division I.
3. The pump station shall not be subjected to flooding.
4. Two pumps are required.
5. Please fill out the enclosed Permit to Construct application form in duplicate and return it to this office.

M to S  
10-10-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-546

TOWN OF SUNDANCE, ALDEN STREET WATER LINE  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Sundance  
c/o Ralph Goodson  
\_\_\_\_\_  
(Last) (First) (Middle)

Box 130  
\_\_\_\_\_  
(Street or P.O. Box)

Sundance Crook Wyoming 82729  
\_\_\_\_\_  
(City) (County) (State)

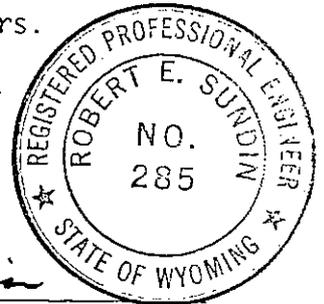
to construct, install, or modify a water distribution line  
facility located in Section 24, T.51N., R.63W.  
(Legal Description)

in the County of Crook, 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 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."

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

1979  
9-19-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-547

Spyglass Cluster Homes 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)

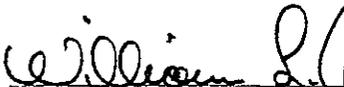
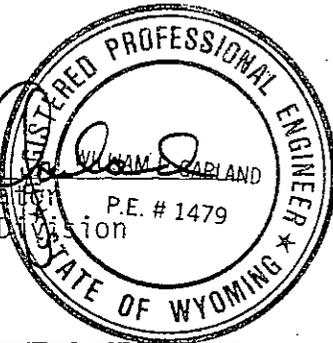
Riverton, Wyoming 82501  
(City) (County) (State)

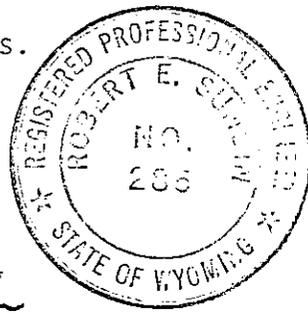
ATTN: Ray Bickel

to construct, install, or modify a water distribution - sewage collection  
facility located in Sec. 31, T. 1 N., R. 4 E.  
(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  


September 13, 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: Val Simmons, P.E.  
3252 Cherokee Lane  
Provo, Utah 84601

PERMIT TO CONSTRUCT

2.7.80

New

Permit No. 79-548RR

Renewal

Modified

Lyman Stake LDS Building

(Name of Facility)

This permit hereby authorizes the applicant:

Lyman Stake - LDS Church

(Last)

(First)

(Middle)

c/o Ronald C. Walker

(Street or P.O. Box)

Lyman

(City)

Wyoming

(County)

82937

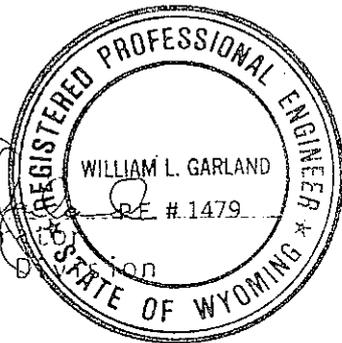
(State)

to construct, install, or modify a septic tank - lift station - leach field facility located in 1/2 mile north Urie Jct., Highway 412 (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.

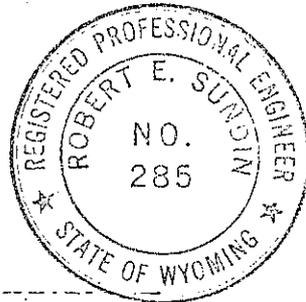
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director

Wyoming Dept. of Environmental Quality



January 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."

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*

*Water Quality Division*

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 9, 1980

Val Simmons, P.E.  
3252 Cherokee Lane  
Provo, Utah 84601

RE: 79-548RRR - Lyman Stake Center Wastewater System

Dear Val:

Per our phone conversation in December, this Department in Cheyenne has decided to allow the variance requested (i.e. four feet separation). A "Permit to Construct" will be issued for the project when two more complete copies of the plans and specifications are received for our permanent records.

If any question comes up, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "David W. Hill".

DAVID W. HILL, P.E.  
District Engineer

DWH/ms

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Lyman Stake LDS Building  
Urie, Wyoming, Uinta County

ENGINEER: Val Simmons, P.E.  
3252 Cherokee Lane  
Provo, Utah 84601

OWNER: Lyman Stake LDS Church  
c/o Ronald Walker  
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 79-548R

REVIEWING ENGINEER: <sup>CCA</sup> David W. Hill, P.E.

DATE OF REVIEW: October 1, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

Please indicate all elevations in leach field area (i.e. ground elevation, bottom of trenches, seasonal high groundwater level, etc.). The distance between the bottom of the leach field and the top of the seasonal high groundwater table must be at least four feet.

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

*Chryseme*

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

PROJECT: Lyman Stake L.D.S. Building  
Urie, WY, Uinta County

ENGINEER: Val Simmons, P.E.  
3252 Cherokee Lane  
Provo, Utah 84601

OWNER: Lyman Stake  
c/o Ronald Walker  
Lyman, WY 82937

WATER QUALITY DIVISION REFERENCE NUMBER: 79-548

*M.S. Jan*  
REVIEWING ENGINEER: David W. Hill, P.E.

DATE OF REVIEW: September 14, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

- (1) Complete design criteria is needed (i.e. - people, flow per person, percolation rate, etc.).
- (2) The collection line is too long to be served by cleanouts. One manhole is needed somewhere near the middle.
- (3) A four foot separation is needed between the bottom of the leach trenches to the top of the seasonal high groundwater table. Will this criteria be met?

cc: Johnson - Fermelia & Crank, Inc.  
P. O. Box 1633  
Rock Springs, WY 82901  
ATTN: Terry L. Sell, P.E.

cc: City of Rock Springs  
P. O. Box 1030  
Rock Springs, WY 82901  
ATTN: Ernie Kern, Asst.  
City Engineer

Mto 4  
9-26-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-549

Rock Springs Industrial Park Sanitary Sewer  
(Name of Facility)

This permit hereby authorizes the applicant:

Rock Springs Industrial Park  
 (Last) (First) (Middle)  
 c/o W. D. Thomas  
1304 Marchant  
 (Street or P.O. Box)

Rock Springs WY 82901  
 (City) (County) (State)

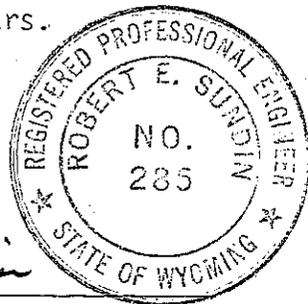
to construct, install, or modify a Wastewater Collection  
 facility located in Sec. 4 & 5, T. 18N, R. 105W  
 (Legal Description)

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. Janda  
 Administrator  
 Water Quality Division

Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



September 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."

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-550R

Prairie Addition Sewer Extension  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Rock Springs  
(Last) (First) (Middle)

P.O. Box 1030  
(Street or P.O. Box)

Rock Springs, Wyoming 82901  
(City) (County) (State)

to construct, install, or modify a wastewater collection system  
facility located in Sec. 36, T. 19 N., R. 105 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  
 Registered Professional Engineer  
 STATE OF WYOMING  
 P.E. # 1479  
 Administrator  
 Water Quality Division

Robert E. Sinden  
 Registered Professional Engineer  
 STATE OF WYOMING  
 Director  
 Wyoming Dept. of Environmental Quality

October 1, 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: Johnson-Fermelia & Crank, Inc  
P.O. Box 1633  
Rock Springs, WY 82901  
ATTN: Terry L. Sell, P.E.

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Prairie Addition Sewer Extension  
Sec. 36, T. 19 N., R. 105 W.  
Rock Springs, Wyoming, Sweetwater County

ENGINEER: Johnson-Fermelia & Crank, Inc.  
P.O. Box 1633  
Rock Springs, WY 82901  
ATTN: Terry L. Sell, P.E.

OWNER: City of Rock Springs  
P.O. Box 1030  
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 79-550R

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

DATE OF REVIEW: October 1, 1979

ACTION: ~~NOT~~ AUTHORIZED.

COMMENTS:

The "Permit to Construct" is issued on the condition that as indicated in your letter manholes will be used at the ends of the sewers if the distance from the last manhole exceeds 150 feet.

Any request for a variation due to the steep slopes, city sewer jet cleaner, economics, etc. must go through our administrator in Cheyenne.

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

*Change*

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

PROJECT: Prairie Addition Sewer Extension  
Sec. 36, T. 19N, R. 105W  
Rock Springs, WY, Sweetwater County

ENGINEER: Johnson - Fermelia & Crank, Inc.  
P. O. Box 1633  
Rock Springs, WY 82901  
ATTN: Terry Sell, P.E.

OWNER: City of Rock Springs  
P. O. Box 1030  
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 79- 550

*M.S. Jan*  
REVIEWING ENGINEER: David W. Hill, P.E.

DATE OF REVIEW: September 15, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

- (1) Three copies of all plans and specifications are needed. One more set is required.
- (2) Ten State Standards specifies that cleanouts may be used at the end of laterals only if the distance is 150 feet or less. Otherwise, manholes should be used.