

cc: Michael J. Taylor  
D'Appolonia Cons. Eng.  
Box 22417  
Denver, CO 80222

PERMIT TO CONSTRUCT

M to S  
9-7-79

- New
- Renewal
- Modified

Permit No. 79-301R

WELCH NO. 1 - NORTH MINE, POND A, TEMPORARY RESERVOIR  
(Name of Facility)

This permit hereby authorizes the applicant:

Sheridan Enterprises, Inc.  
(Last) (First) (Middle)

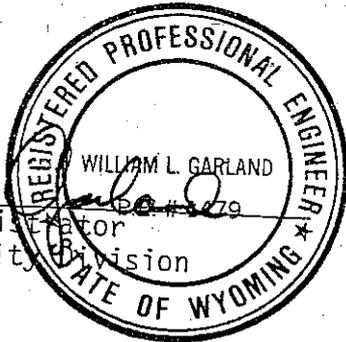
49 East Loucks  
(Street or P.O. Box)

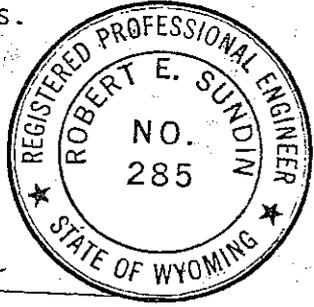
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a temporary mine settling reservoir  
facility located in Section 2, T.57N., R.84W.  
(Legal Description)

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

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


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."

cc: Michael J. Taylor  
D'Appolonia Cons. Eng.  
Box-22417  
Denver, CO 80222

PERMIT TO CONSTRUCT

M705  
9-7-79

- New
- Renewal
- Modified

Permit No. 79-302R

WELCH NO. 1 - NORTH MINE, POND C 1 RESERVOIR  
(Name of Facility)

This permit hereby authorizes the applicant:

Sheridan Enterprises, Inc.  
(Last) (First) (Middle)

49 East Loucks  
(Street or P.O. Box)

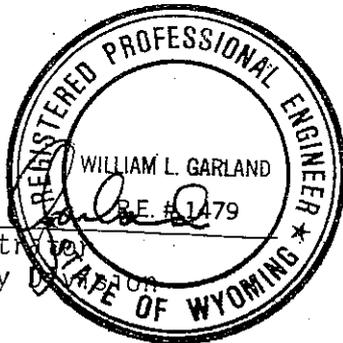
Sheridan Sheridan Wyoming  
(City) (County) (State) 82801

to construct, install, or modify a mine settling reservoir  
facility located in Section 2, T.47N., R.84W.  
(Legal Description)

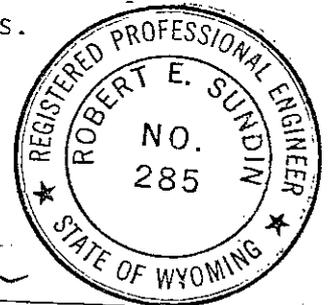
in the County of Sheridan, in the State of

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

AUTHORIZED BY:



William L. Garland  
Administrator  
Water Quality Division  
STATE OF WYOMING



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

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."

cc: Michael J. Taylor  
D'Appolonia Cons. Eng.  
Box 22417  
Denver, CO 80222

M705  
9-7-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-303R

WELCH NO. 1 - NORTH MINE, POND C 2 RESERVOIR  
(Name of Facility)

This permit hereby authorizes the applicant:

Sheridan Enterprises, Inc.  
(Last) (First) (Middle)

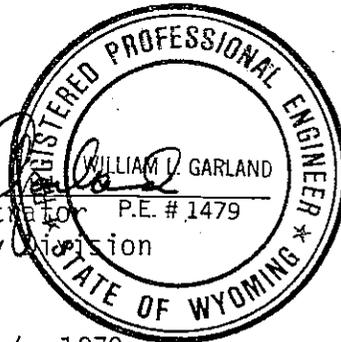
49 East Loucks  
(Street or P.O. Box)

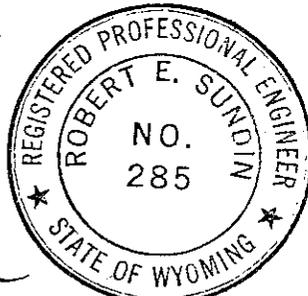
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a mine settling reservoir  
facility located in Section 2, T.57N., R.84W.  
(Legal Description)

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

AUTHORIZED BY:

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

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

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."

1145  
7-12-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-304R

BIG HORN MINE - NO. 7 SETTLING POND  
(Name of Facility)

This permit hereby authorizes the applicant:

Attention: Bert Brooks

Big Horn Coal Company

(Last) (First) (Middle)

P.O. Box 724

(Street or P.O. Box)

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

to construct, install, or modify a runoff settling pond

facility located in Section 22, T.57N., R.84W.  
(Legal Description)

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

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division  
 REGISTERED PROFESSIONAL ENGINEER  
 WILLIAM L. GARLAND  
 STATE OF WYOMING

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

July 12, 1979  
Date of Issuance

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

book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-305

Y-0 Ranch Estates, Inc.  
(Name of Facility)

This permit hereby authorizes the applicant:

Y-0 Ranch Estates, Inc.  
(Last) (First) (Middle)

\_\_\_\_\_  
(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. 30, T34N, R67W  
(Legal Description)

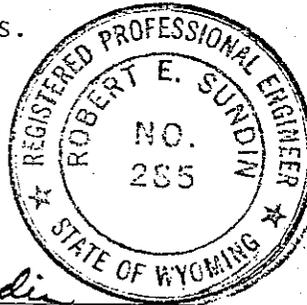
in the County of Platte, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sordin  
Director  
Wyoming Dept. of Environmental Quality



June 8, 1979  
Date of Issuance

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

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

*Rec'd  
9/11/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-306RR  
Ref. No. 79-334 and 78-177MR

Wyoming State Penitentiary - WCCM Site  
(Name of Facility)

This permit hereby authorizes the applicant:

State Board of Charities & Reform  
(Last) (First) (Middle)

Capitol Building  
(Street or P.O. Box)

Cheyenne, WY 82002  
(City) (County) (State)

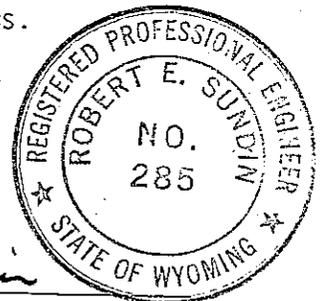
to construct, install, or modify a 12" Low Pressure By-Pass Line  
facility located in Sec. 30, T21N, R87W  
(Legal Description)

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

AUTHORIZED BY:

William J. [Signature]  
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."

Book  
M-8-14-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Proposed 12" Low Pressure By-Pass Line, WCCM Site, Existing Tank Site,  
City of Rawlins, Carbon Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-306R

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

DATE OF REVIEW: August 10, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION PENDING COMPLIANCE WITH THE COMMENT  
SET FORTH BELOW

COMMENTS:

Submit a letter from the City of Rawlins stating that the City will supply  
ptable water for this project in a quantity adequate to serve the needs of the  
user.

RHP/nc

cc: City of Rawlins, Rawlins, WY

cc: Donald R. Horton  
P.O. Box 147  
Torrington, WY 82240

Book  
# 7-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-307

Waste Disposal System - Long Branch Saloon  
(Name of Facility)

This permit hereby authorizes the applicant:

Lemaster, Colin  
(Last) (First) (Middle)

Box 115  
(Street or P.O. Box)

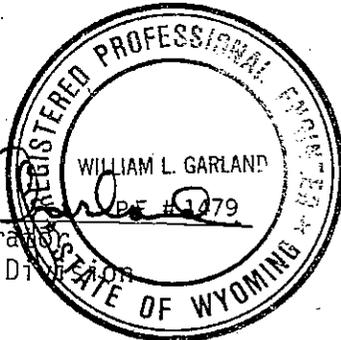
Hawk Springs, WY 82217  
(City) (County) (State)

to construct, install, or modify a commercial subsurface disposal  
facility located in Sec. 13, T21N, R62W  
(Legal Description)

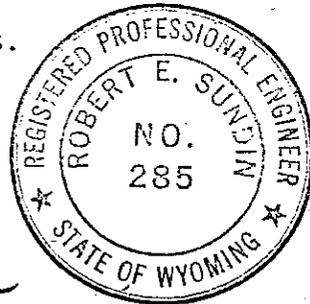
in the County of Goshen, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



August 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."

PERMIT TO CONSTRUCT

10-6-1979

- New
- Renewal
- Modified

Permit No. 79-309

Pride Oil Well Service  
(Name of Facility)

This permit hereby authorizes the applicant:

Herman Howard  
(Last) (First) (Middle)

P.O. Box 2994  
(Street or P.O. Box)

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

to construct, install, or modify a small subsurface disposal (municipal public water supply) facility located in Sec. 32, T34N, R79W  
(Legal Description)

in the County of Natrona, in the State of

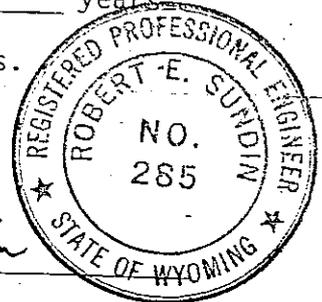
Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



June 7, 1979  
Date of Issuance

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

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-310

Buss Plumbing

(Name of Facility)

This permit hereby authorizes the applicant:

Buss Plumbing

(Last) (First) (Middle)

P.O. Box 1266

(Street or P.O. Box)

Casper, Natrona, WY 82602

(City) (County) (State)

to construct, install, or modify a small subsurface disposal (public water supply - municipal - Brooks-Hat Six) facility located in Sec. 9, T33N, R78W

(Legal Description)

in the County of Natrona, in the State of

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

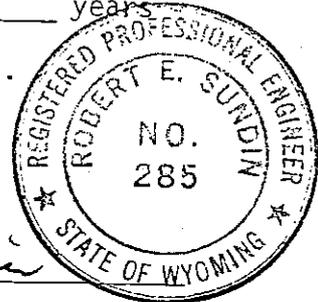
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



June 8, 1979

Date of Issuance

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

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



9-5-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-312R

SLEEPY HOLLOW SUBDIVISION, PHASE II WATER AND SEWER  
(Name of Facility)

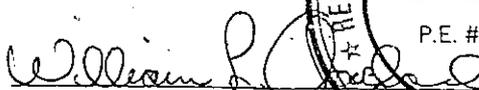
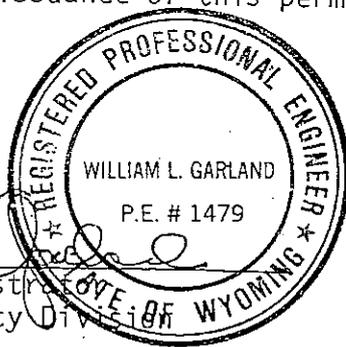
This permit hereby authorizes the applicant:

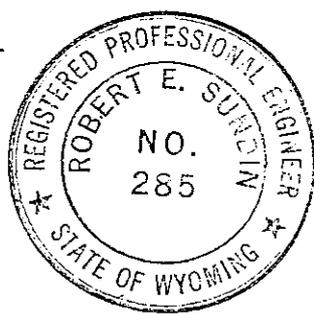
Suchor Investment Corporation  
 (Last) (First) (Middle)  
 c/o Larson & Brimacombe  
1901 Energy Court, Suite 120  
 (Street or P.O. Box)  
  
Gillette, Wyoming 82716  
 (City) (County) (State)

to construct, install, or modify a sewer collection and water distribution  
 facility located in Sections 7, 8, 17, 18, T.49N., 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:

  
 Administrator  
 Water Quality Division  


  
 Director  
 Wyoming Dept. of Environmental Quality  


August 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."

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-313  
 Reference 79-173

CENTENNIAL SUBDIVISION - MOORCROFT  
 (Name of Facility)

This permit hereby authorizes the applicant:

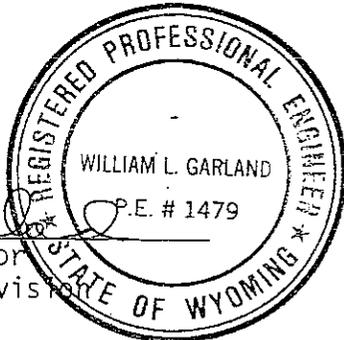
<u>Ellison</u>	<u>Claude</u>	
(Last)	(First)	(Middle)
<u>c/o Bearlodge Engineering</u>		
<u>Box 125</u>		
(Street or P.O. Box)		
<u>Sundance</u>	<u>Crook</u>	<u>Wyoming 82729</u>
(City)	(County)	(State)

to construct, install, or modify a water distribution and sewage collection  
 facility located in Section 6. T.49N., R.67W.  
 (Legal Description)

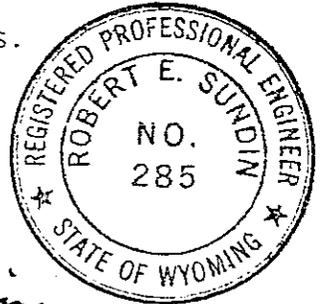
in the County of Crook, in the State of  
 Wyoming. This permit shall be effective for a period of two (2) years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division



Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



June 27, 1979

Date of Issuance

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

PERMIT TO CONSTRUCT

New

Permit No. 79-314

Renewal

Reference 79-95

Modified

SPECIAL IMPROVEMENT DISTRICT NO. 62 (TRACTS 2 and 3)  
(Name of Facility)

This permit hereby authorizes the applicant:

Attention: Cliff Sanders

City of Sheridan

(Last)

(First)

(Middle)

P.O. Box 848

(Street or P.O. Box)

Sheridan

Sheridan

Wyoming 82801

(City)

(County)

--(State)

to construct, install, or modify a water and distribution and sewage collection  
facility located in Section 22, T.56N., R.84W.  
(Legal Description)

in the County of Sheridan, in the State of

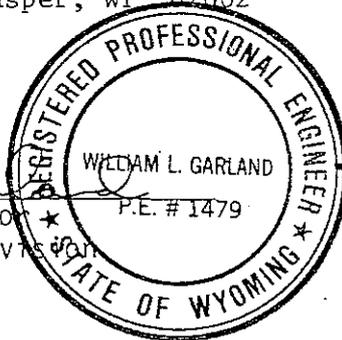
Wyoming. This permit shall be effective for a period of two (2) years

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

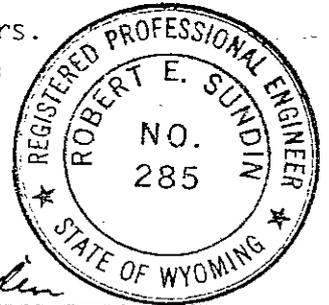
cc: John E. Donmyer, Howard, Needles, Tammen & Bergendoff Engineers  
- P.O. Box 3478, Casper, WY 82602

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



June 27, 1979  
Date of Issuance

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

PERMIT TO CONSTRUCT

New

Permit No. 79-315

Renewal

Modified

WELTY TRAILER COURT SEPTIC SYSTEM  
(Name of Facility)

This permit hereby authorizes the applicant:

Welty Don  
(Last) (First) (Middle)

P. O. Box 427  
(Street or P.O. Box)

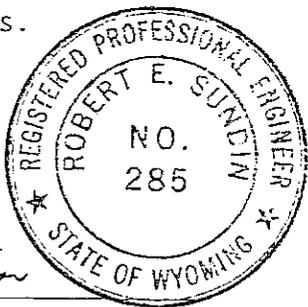
Superior, Fremont Wyoming 82945  
(City) (County) (State)

to construct, install, or modify ~~xx~~ six septic tank - drainfield  
facility<sup>ies</sup> located in Sec. 28, T. 21 N., R. 102 W.,  
(Legal Description)

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

AUTHORIZED BY:

William L. Garland  
WILLIAM L. GARLAND  
P.E. # 2479  
Administrator \*  
Water Quality Division  


Robert E. Sunden  
Director  
Wyoming Dept. of Environmental Quality  


June 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."

M 30 7  
7-27-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-316

GARDENS NORTH WELL NO. 1  
(Name of Facility)

This permit hereby authorizes the applicant:

THE G.N.C. CORPORATION  
(Last) (First) (Middle)

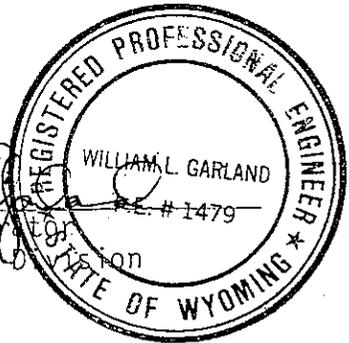
P. O. BOX 489  
(Street or P.O. Box)

Riverton WY 82501  
(City) (County) (State)

to construct, install, or modify a public water supply well  
facility located in Sec. 13, T. 1N, R. 4E  
(Legal Description)

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

AUTHORIZED BY:

*William L. Garland*  
 Administrator  
 Water Quality Division  


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


July 20, 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: Jerry Crews  
P. O. Box 1293  
Riverton, WY 82520

7/19/79  
S-1779

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-317R

South Ten Sleep Water Line and Shriver Park Sub-  
division Water Distribution System  
(Name of Facility)

This permit hereby authorizes the applicant:

Smith And Trombley  
(Last) (First) (Middle)

P. O. Box 224  
(Street or P.O. Box)

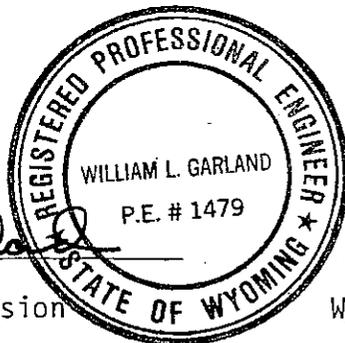
Ten Sleep WY 82442  
(City) (County) (State)

to construct, install, or modify a water transmission and water distribution  
facility located in Sec. 20, 21, T. 47N, R. 88W  
(Legal Description)

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

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



July 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."

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



PROJECT: SOUTH TEN SLEEP WATER LINE AND SHRIVER PARK SUBDIVISION  
WATER DISTRIBUTION SYSTEM

ENGINEER: JERALD B. CREWS  
P. O. BOX 1293  
RIVERTON, WY 82501

OWNER: SMITH AND TROMBLEY  
P. O. BOX 224  
TEN SLEEP, WY 82442

WATER QUALITY DIVISION REFERENCE NUMBER: 79-317

REVIEWING ENGINEER: RICK ENGELMANN

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

DATE OF REVIEW: JULY 16, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

PLANS

1. The plans submitted to and approved by us for water line work in Ten Sleep last year, project 78-9R, show that a 6" water line was to be constructed in Cottonwood Street south of First. Your plans indicate that this is a 10" line. What is going on here?
2. The radius of curvature for the waterline shown on p. 2 appears to be too small if you are using standard 20' lengths of PVC pipe. The Uni-Bell Handbook of PVC Pipe, 1977, Table 31, p. 171 specifies a minimum radius of 179' for ASTM D2241, SDR 21 pipe.
3. Will the proposed valve vaults fill with water?
4. Please provide thrust blocking at the end of the line on Bluff Lane, at the tee at station 62+08, at the tee at station 64+32, and at the line end in the Downwind Drive cul-de-sac.

SPEC.S

1. The spec.s sent were not approved by DEQ for last summer's water line work in Ten Sleep. These spec.s along with an addendum were authorized for the job.

2. Disinfection shall conform to AWWA C601-68, the most current disinfection spec. C603-65 has nothing to do with disinfection.

Construction Spec.s

1. If C601-68 is used for disinfection (4.6), either a copy must be required on the job site, or a copy must be provided with the construction spec.s, or the procedures must be outlined in the spec.s.
2. Mounding is not acceptable bedding for PVC pipe (4.3b). See the addendum approved for last year's project.
3. There are several spec. items referring to casings (4.3c, 4.3k, 4.4.i). Are casings being used? If so, we need details.
4. The spec.s call out corrugated metal pipe as an alternate for the valve vaults (4.8), but this alternate is x'ed out on the plans -??
5. Is DIP being used just between the valve vaults?
6. Please provide:
  - a. Acceptable trench widths (4.2.c).
  - b. A Spec. for the stop and waste valve for the air release assembly.

Book  
6-17-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-318

Eastridge Plaza Addition - City of Casper  
(Name of Facility)

This permit hereby authorizes the applicant:

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

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

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

AUTHORIZED BY:

William L. Galan  
 Administrator  
 Water Quality Division # 1479  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF WYOMING

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

June 14, 1979  
Date of Issuance

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

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

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

*Book*  
*8-8-14-79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-319RR

Town of Rock River Sewer Collector & Outfall Lines  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Rock River  
(Last) (First) (Middle)

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

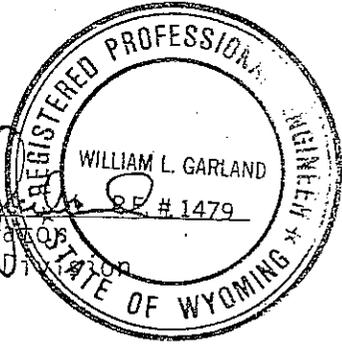
Rock River, Albany, WY 82083  
(City) (County) (State)

to construct, install, or modify a sewer collector lines  
facility located in Sec. 32, T21N, R76W  
(Legal Description)

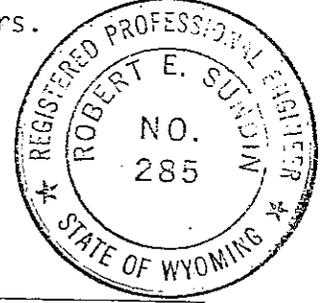
in the County of Albany, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrator  
Water Quality Division



*Robert E. Sundin*  
Director



Wyoming Dept. of Environmental Quality

August 7, 1979  
Date of Issuance

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

79-319  
Albany Co.

NORMA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Memo - Letter of Transmittal

FROM: Construction Grants Section

Tom Hamm

PROJECT:

Rock River  
Grantee

C560 III

TO:

Paul Schwieger  
Norma Carlson

ATTN:

SUBJECT:

Rock River Plans & Specs

COMMENTS:

1:30 PM, 2 July 79 - Talked with Dale Hampton, Banner Associates about subject plans. Requested Engineering Design and hydraulic analyses. Hampton requested the Plans & Specs be held in abeyance until further word from him since he was checking on a redesign which would eliminate the 10PT station.

cc:

Chron.	<u>X</u>
Grant File	<u>X</u>
Initiator	<u>X</u>
Others	<u>    </u>

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

Book  
#-6-28-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-320

Eastman Whipstock  
(Name of Facility)

This permit hereby authorizes the applicant:

Williams, W. G.  
(Last) (First) (Middle)

3000 S. Post Oak Rd.  
(Street or P.O. Box)

Houston, Texas 77056  
(City) (County) (State)

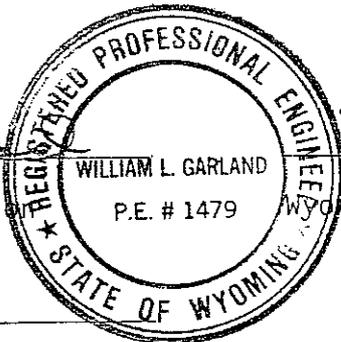
to construct, install, or modify a small subsurface disposal  
facility located in Sec. 34, T34N, R80W  
(Legal Description)

in the County of Natrona, in the State of

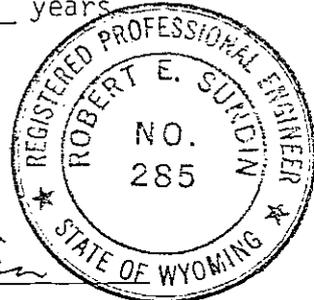
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
- Water Quality Division



Robert E. Sunden  
Director  
Wyoming Dept. of Environmental Quality



June 27, 1979  
Date of Issuance

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

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

PERMIT TO CONSTRUCT

600-  
1-7-79

- New
- Renewal
- Modified

Permit No. 79-321

Windy City Enterprises  
(Name of Facility)

This permit hereby authorizes the applicant:

Windy City Enterprises  
(Last) (First) (Middle)

1501 Nottingham  
(Street or P.O. Box)

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

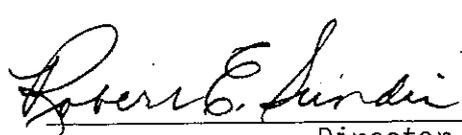
to construct, install, or modify a small subsurface disposal  
facility located in Sec. 27, T34N, R80W  
(Legal Description)

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. This permit not to exceed five (5) years.

AUTHORIZED BY:

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

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

June 28, 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: Gertsch/Baker & Associates  
Lloyd H. Baker  
203 Grand Avenue  
Laramie, WY 82070

3/27/79  
1/23/80

PERMIT TO CONSTRUCT

New Permit No. 79-322RR  
 Renewal  
 Modified

Wyoming Persons Addition, Block 15 Lots 1-7;  
Block 16 Lots 1-5; City of Laramie  
(Name of Facility)

This permit hereby authorizes the applicant:

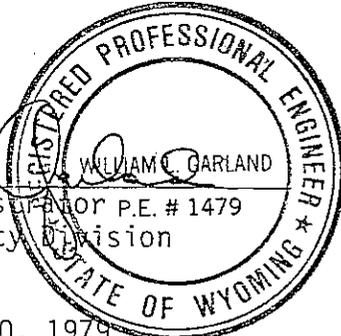
Quad Development  
Attn: Donald S. Bird & Donald E. Johnson  
(Last) (First) (Middle)  
  
1160 Escalera Road  
(Street or P.O. Box)  
  
Laramie, Albany, WY 82070  
(City) (County) (State)

to construct, install, or modify a municipal water distribution & sewage collection  
facility located in Sec. 3, T15N, R73W  
(Legal Description)

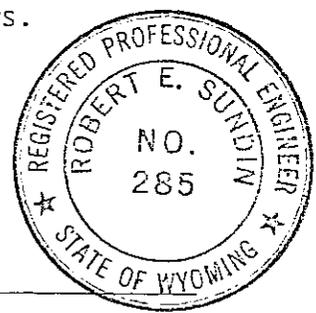
in the County of Albany, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



August 10, 1979  
Date of Issuance

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

Book  
M-8-1-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wyoming Persons Addition, Block 15, Lots 1-7, Block 16, Lots 1-5,  
City of Laramie, Albany Co.

ARCHITECT OR ENGINEER: Gertsch/Baker & Associates, 203 Grand Avenue,  
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-322R

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

DATE OF REVIEW: July 30, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Resubmitted drawings have not been corrected for 10" PVC water line slope to meet minimum State standard of 0.28%.
2. Sewer mains, not service line connections, are to be disinfected.

Beck  
11-6-27-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wyoming Persons Addition, City of Laramie, Laramie, WY, Albany Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-322

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

DATE OF REVIEW: June 25, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

A. Sewer Line Construction

1. A letter of verification from the City of Laramie stating that the City municipal wastewater treatment plant is capable of handling the added organic and hydraulic loads must be included with this application (Paragraph 1.0, Page 9, Wyoming Water Quality Rules & Regulations, Chapter III).
2. The slope of the 10" PVC sewer pipe is less than the minimum state standard of 0.28 feet/100 feet. Slope should be increased to make it equal to or greater than 0.28 feet/100 feet.
3. Insert the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains" to the construction specifications. Show typical sewer/water line crossover detail on plans.
4. Recommend use of following phrase to describe test. "The Contractor shall provide all required assistance to the Engineer for lamping each section of sewer constructed. After burial, a light source at the 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 misalignments or collapse of the sewer and shall be immediately remedied by the Contractor."

B. Water Line Construction

1. A letter of verification is required from the City of Laramie stating that they can adequately supply drinking water at a required pressure of 20 psi under all flow conditions at all points in the distribution system.

Review of:

Wyoming Persons Addition, City of Laramie

#79-322

June 25, 1979

Page two

2. Who will accomplish pressure testing and disinfection of installed water lines? What procedure will be followed? If problems are found, who will fix them?
3. Indicate thrust block details for water lines.
4. Indicate construction material for water lines.
5. What is depth of bury for water lines?

*Copy*

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Collins Draw Project, The Cleveland-Cliffs Iron Company  
P.O. Box 3140, Casper, WY 82602

ARCHITECT OR ENGINEER: Robert V. Behrent  
Behrent Engineering Company, Denver, CO

WATER QUALITY DIVISION REFERENCE NUMBER: 79-323

REVIEWING ENGINEER: Tom Mueller

DATE OF REVIEW: July 27, 1979

ACTION: Not Authorized for Construction. See Comments.

COMMENTS:

1. Public Health Service Publication 526 recommends against the use of seepage pits wherever the percolation rate exceeds 30 minutes per inch, and against standard leach fields wherever the percolation rate exceeds 60 minutes per inch. The report from Chen and Associates also recommends against the use of a seepage pit at this location. Although the applicant has presented calculations indicating the ability of the proposed leach field to dispose of the wastewater, these calculations overlook the fact that the relationships developed between percolation tests and percolation into soil are purely empirical, and the reported percolation test rates fall well beyond the range of established correlations. If the applicant has any additional information which would tend to indicate the ability of the proposed facility to perform, it should be forwarded to this Division. At present, it is the position of this office that the proposed facility may be unable to perform adequately.
2. The Summary of Wastewater table contained in the application refers to "trace amounts" of laboratory reagents: Uranium, Radium 226, Molybdenum, Arsenic, and Selenium. The ranges of concentrations of these toxic materials must be reported.
3. The total dissolved solids content of the wastewater is extremely high. In order to prevent detrimental effects on the local groundwater, a complete analysis of the shallow groundwater in this area must be provided.
4. What will be the approximate concentration of ammonia/ammonium species discharged to the leach field?
5. It is suggested that septic sewage wastes be discharged to a separate leach field.

Collins Draw Project

WQD Ref. No. 79-323

July 27, 1979

Page Two

6. Has any consideration been given to the possibility that the chemical makeup of the discharge to the leach field may lead to scaling problems which might render the leach field unusable?
7. Leach field lines should be laid at a relatively flat slope of 0.5% or less, in order to promote even distribution and prevent surfacing at low points.

Permit  
M 7908

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-324

Sewage Retention Pond  
(Name of Facility)

This permit hereby authorizes the applicant:

Williams Company  
(Last) (First) (Middle)

Suite 200 1451 Larimer Street  
(Street or P.O. Box)

Denver, Colorado 80202  
(City) (County) (State)

to construct, install, or modify a sewage lagoon

facility located in Sec. 24, T. 42 N., R. 113 W.,  
(Legal Description)

in the County of Teton, in the State of

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

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

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division  
 Permit # 1479  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF WYOMING

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

June 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."

cc: John Proffitt  
P.O. Box 746  
Evanston, WY 82930  
ATTN: Ken Walker

M 20 8  
7-19-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-325R

RYCKMAN CREEK SEWAGE FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant:

AMOCO PRODUCTION CO.  
(Last) (First) (Middle)

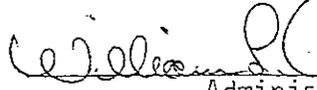
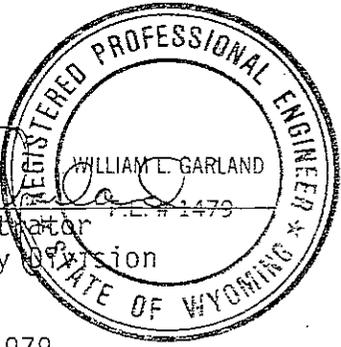
SAGE INDUSTRIAL PARK  
(Street or P.O. Box)

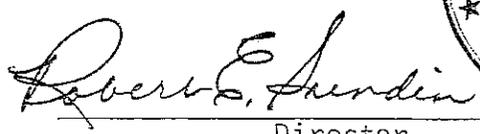
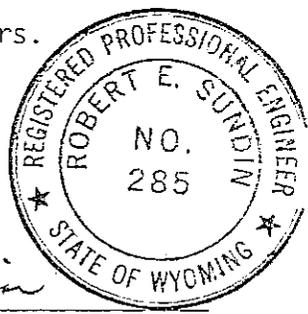
EVANSTON, WY 82930  
(City) (County) (State)

to construct, install, or modify a septic tank - evapotranspiration  
facility located in Sec. 13, T. 17 N, R. 119 W  
(Legal Description)

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

AUTHORIZED BY:

  
 Administrator  
 Water Quality Division  


  
 Director  
 Wyoming Dept. of Environmental Quality  


July 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: RYCKMAN CREEK SEWAGE FACILITY

ENGINEER: John Proffit  
P. O. Box 746  
Evanston, Wyoming 82930  
Attention: Ken Walker

OWNER: Amoco Production  
Sage Industrial Park  
Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 79-325

REVIEWING ENGINEER: Rick Engelmann

A handwritten signature in black ink that reads "Rick Engelmann".

DATE OF REVIEW: June 26, 1979

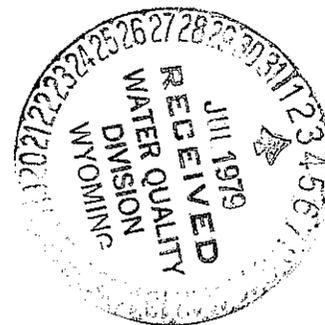
ACTION: NOT AUTHORIZED.

COMMENTS:

1. Please specify gravel size.
2. I would recommend planting prairie grass or evergreens on the field to aid in evapotranspiration.

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Kemmerer Coal Company  
Sedimentation Control Reservoirs  
I-2, 1-U-D-002

ENGINEER: Dravo Corporation  
Dravo BLDG.

1250 Fourteenth St.  
Denver, CO 80202

ATTN: Victor S. Vynych, P.E.  
Asst. Chief Civil Engineer

OWNER: Kemmerer Coal Company  
Frontier, WY 83121

WATER QUALITY DIVISION REFERENCE NUMBER: 79-326, 79-327, 79-328

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

DATE OF REVIEW: June 27, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

- (1) Three complete copies of all plans and specifications are needed. Two more paper copies are needed.
- (2) "Applications For Permit To Construct" for all three reservoirs are needed.
- (3) Detailed design criteria is needed for design of the emergency spillway.
- (4) Estimate of the quantity of pit dewater for the discharging reservoirs are needed.
- (5) Complete details are needed for all discharging reservoir parshall flumes and recording devices.

cc: Dravo Corp.  
Dravo Bldg.  
1205 Fourteenth St.  
Denver, CO 80202  
ATTN: Victor Vynych PERMIT TO CONSTRUCT

M. 206  
8-7-79

- New
- Renewal
- Modified

Permit No. 79-326R; ref 79-119R

I-2 Sedimentation Reservoir  
(Name of Facility)

This permit hereby authorizes the applicant:

Kemmerer Coal Company; ATTN: John Cometto, Chief Engineer  
(Last) (First) (Middle)

(Street or P.O. Box)

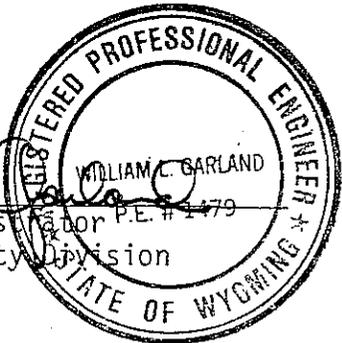
Frontier WY 83121  
(City) (County) (State)

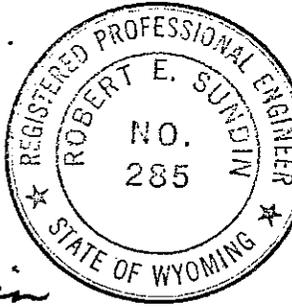
to construct, install, or modify a sedimentation reservoir

facility located in Sec. 2, T. 20N, R. 117W  
(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 C. Garland  
Adminis. Director P.E. # 1479  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


July 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: Dravo Corp.  
Dravo Bldg.  
1205 Fourteenth St.  
Denver, CO 80202  
ATTN: Victor Vinyach PERMIT TO CONSTRUCT

M 40  
8-27-79

New  
 Renewal  
 Modified

Permit No. 79-327R; ref 79-121R

1-U-D-001 Sedimentation Reservoir  
(Name of Facility)

This permit hereby authorizes the applicant:

Kemmerer Coal Company; ATTN: John Commetto, Chief Engineer  
(Last) (First) (Middle)

(Street or P.O. Box)

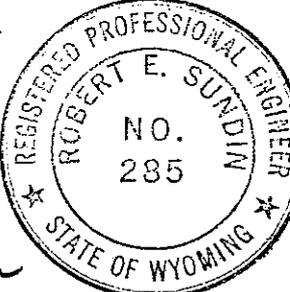
Frontier WY 83121  
(City) (County) (State)

to construct, install, or modify a sedimentation reservoir  
facility located in Sec. 21, T. 21N, R. 116W  
(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  


July 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: Dravo Corp.  
Dravo Bldg.  
1205 Fourteenth St.  
Denver, CO 80202  
ATTN: Victor Vynch PERMIT TO CONSTRUCT

M 702  
8-1-79

New  
 Renewal  
 Modified

Permit No. 79-328R; ref. 79-121R

1-U-D-002 Sedimentation Reservoir  
(Name of Facility)

This permit hereby authorizes the applicant:

Kemmerer Coal Company ATTN: John Cometto, Chief Engineer  
(Last) (First) (Middle)

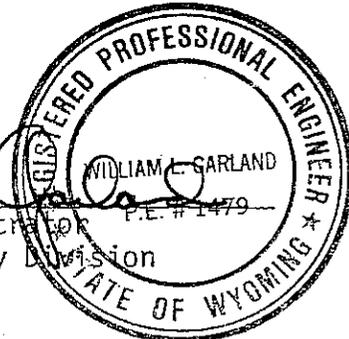
(Street or P.O. Box)

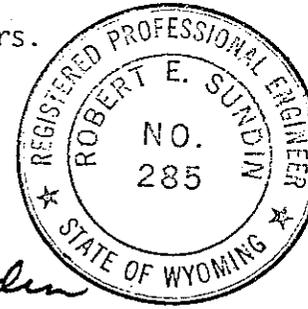
Frontier WY 83121  
(City) (County) (State)

to construct, install, or modify a sedimentation reservoir  
facility located in Sec. 28, T. 21N, R. 116W  
(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 E. Garland  
Administrator  
Water Quality Division

  
Robert E. Sunden  
Director  
Wyoming Dept. of Environmental Quality

July 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: Gertsch/Baker & Assoc.  
203 Grand Avenue  
Laramie, WY 82070

Book  
M-0-24-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-329RR

Western Hills - Partnership, Bill Nye, City of Laramie.  
(Name of Facility)

This permit hereby authorizes the applicant:

Bin Chang and John Mason  
(Last) (First) (Middle)

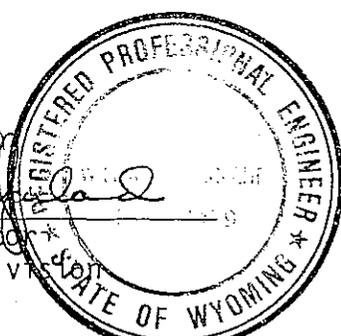
1312 Baker Street  
(Street or P.O. Box)

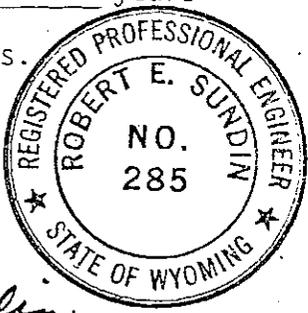
Laramie, Albany, WY 82070  
(City) (County) (State)

to construct, install, or modify a water distribution and sewage collection system  
facility located in Sec. 3, T15N, R73W, Block 6, Lots 10-15; Block 7, Lots 1-8;  
Block 8, Lots 22-24 (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. [Signature]  
Administrator  
Water Quality Division  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


August 20, 1979  
Date of Issuance

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

Book  
M-6-27-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Western Hills Addition, City of Laramie, WY, Albany Co.

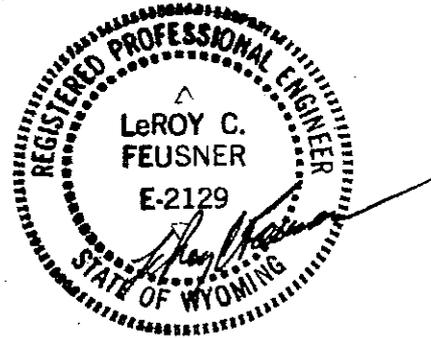
ARCHITECT OR ENGINEER: Gertsch/Baker & Associates, 203 Grand Ave., Laramie, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 79-329

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

DATE OF REVIEW: June 25, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

A. Sewer Line Construction

1. A letter of verification from the City of Laramie stating that the municipal wastewater treatment plant is capable of handling the added organic and hydraulic loading must be included with this application.
2. The slope of the 10" PVC sewer line is less than the minimum state standard of 0.28 feet/100 feet. Slope should be increased to make it equal to or greater than 0.28 feet/100 feet.
3. Insert the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains" to the construction specifications. Show typical sewer/water line crossover detail on plans.
4. Recommend use of following lamping phrase to describe test. "The Contractor shall provide all required assistance to the Engineer for lamping each section of sewer constructed. After burial, a light source at the 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 misalignments or collapse of the sewer and shall be immediately remedied by the Contractor".

B. Water Line Construction

1. A letter of verification is required from the City of Laramie stating that they can adequately supply drinking water at a required pressure of 20 psi at all points in the system under all flow conditions.
2. Indicate construction material for water lines.
3. Specify depth of bury for water lines.

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

Beck  
8-24-79

PERMIT TO CONSTRUCT

New

Permit No. 79-330RR

Renewal

Modified

Cedar Street  
(Name of Facility)

This permit hereby authorizes the applicant:

Howard Carroll and George Millet  
(Last) (First) (Middle)

2103 Spring Creek Drive  
(Street or P.O. Box)

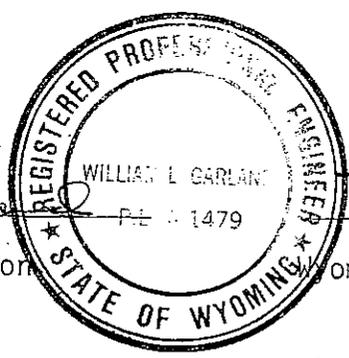
Laramie, Albany WY 82070  
(City) (County) (State)

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

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

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



August 20, 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."

3-6  
8-6-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cedar Street, City of Laramie, Albany Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-330

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

DATE OF REVIEW: June 26, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Sewer Line Construction

1. A letter of verification from the City of Laramie stating that the City municipal wastewater treatment plant is capable of handling the added organic and hydraulic loading must be included with this application (paragraph 1.0, page 9, Wyoming Water Quality Rules & Regulations, Chapter III).
2. The slope of the 10" PVC pipe is less than the minimum State standard of 0.28 feet/100 feet. Slopes slightly less than 0.28T may be permitted only where the depth of flow will be 0.3 of the pipe diameter or greater for design average flow. Whenever such decreased slopes are selected, the engineer must furnish his computations of anticipated flow velocities of average and daily or weekly peak flow rates. The City of Laramie must also give written assurance to this Division that any additional sewer maintenance required by reduced slopes will be provided without exception.
3. Insert the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains" to the construction specifications. Show typical sewer/water line crossover detail on plans.

B. Water Line Construction

1. A letter of verification is required from the City of Laramie stating that they can adequately supply drinking water at a required pressure of 20 psi under all flow conditions at all points in the distribution system.

Review of 79-330

Cedar Street, City of Laramie

June 26, 1979

Page two

2. Water line leakage testing and allowable leakage rates must be followed in accordance with AWWA Standard C600-77. The previous criteria in AWWA Standard C600-64 is not valid.
3. What is depth of bury of water lines?

cc: Gertsch/Baker & Assoc.  
203 Grand Ave.  
Laramie, WY 82070

Book  
M-10-11-79

PERMIT TO CONSTRUCT

New

Permit No. 79-331R

Renewal

Modified

Western Hills, Bin Chang, 19th Street

(Name of Facility)

This permit hereby authorizes the applicant:

Chang,  
(Last)

Bin  
(First)

(Middle)

1312 Baker Street

(Street or P.O. Box)

Laramie,  
(City)

Albany,  
(County)

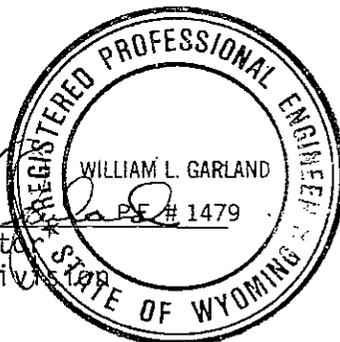
WY 82070  
(State)

to construct, install, or modify a municipal water distribution & sewage collection  
facility located in Block 6, Lots 16-21, S3, T15N, R73W-  
(Legal Description)

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

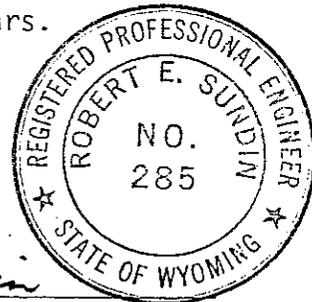
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director

Wyoming Dept. of Environmental Quality



October 9, 1979

Date of Issuance

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

Book  
11-6-20-19

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

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

PROJECT: Western Hills, Bin Chang, 19th Street, City of Laramie, Albany Co.

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-331

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

DATE OF REVIEW: June 26, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Sewer Line Construction

1. A letter of verification from the City of Laramie stating that the City municipal wastewater treatment plant is capable of handling the added organic and hydraulic loading must be included with this application (paragraph 1.0, page 9, Chapter III, Wyoming Water Quality Rules & Regulations).
2. Insert the attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains" to the construction specifications. Show typical sewer/water line crossover detail on plans.

B. Water Line Construction

1. A letter of verification is required from the City of Laramie stating that they can adequately supply drinking water at a required pressure of 20 psi under all flow conditions at all points in the distribution system.
2. What is the depth of bury of water lines?

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-332R

Coughlin Pole Mountain, 2nd Addition-23rd Street  
(Name of Facility)

This permit hereby authorizes the applicant:

Grandview Estates, Inc.  
 \_\_\_\_\_  
 (Last) (First) (Middle)

1567 N 18  
 \_\_\_\_\_  
 (Street or P.O. Box)

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

to construct, install, or modify a water distribution and sewage collection  
 facility located in Sec. 27, 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 R. Garland  
 Administrator  
 Water Quality Division  
 P.E. # 1479  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF WYOMING

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

July 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."

10/1/79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~STATE OFFICE BUILDING~~ Hathaway Bldg.  
Cheyenne, Wyoming 82002

PROJECT: Coughlin Pole Mountain, 2nd Addition, 23rd Street, Laramie, WY  
Albany Co.

ARCHITECT OR ENGINEER: Gertsch/Baker & Associates, 203 Grand Avenue  
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-332

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

DATE OF REVIEW: June 26, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Sewer Line Construction

1. A letter of verification from the City of Laramie stating that the City municipal wastewater treatment plant is capable of handling the added organic and hydraulic loading must be included with this application (paragraph 1.0, page 9, Chapter III, Wyoming Water Quality Rules & Regulations).
2. Insert the attached "Requirements for Horizontal & Vertical Separation Between Water and Sewer Mains" to the construction specifications. Show typical sewer/water line crossover detail on plans.
3. A manhole is required at the end of the sewer pipe on 23rd Street and West Hill Road.

B. Water Line Construction

1. A letter of verification from the City of Laramie stating that they can adequately supply drinking water at a required pressure of 20 psi under all flow conditions at all points in the distribution system.
2. Water line leakage testing and allowable leakage rates must be followed in accordance with AWWA Standard C600-77. The previous criteria in AWWA Standard C600-64 is not valid.
3. What is depth of bury of water lines?
4. The dead end water lines on 23rd and Curtis Streets and West Hill Road must be provided with a fire hydrant if flow and pressure are sufficient, or with an approved flushing hydrant or blow-off valve for flushing purposes. No flushing device shall be directly connected to any sewer.

Review of #79-332  
June 26, 1979  
Page two

5. Indicate water line thrust block details and minimum sizes.

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

10-6-27-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-333

Jim Braun Residence  
(Name of Facility)

This permit hereby authorizes the applicant:

Braun, Jim  
(Last) (First) (Middle)

43 Poppy  
(Street or P.O. Box)

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

to construct, install, or modify a small subsurface disposal  
facility located in Sec. 26, T33N, R80W  
(Legal Description)

in the County of Natrona, in the State of

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

AUTHORIZED BY:

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

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

June 27, 1979  
Date of Issuance

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

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-334  
 Ref. No. 78-177MR

Wyoming State Penitentiary - WCCM Site  
 (Name of Facility)

This permit hereby authorizes the applicant:

State of Wyoming  
 (Last) (First) (Middle)

State Board of Charities & Reform  
136 South Wolcott  
 (Street or P.O. Box)

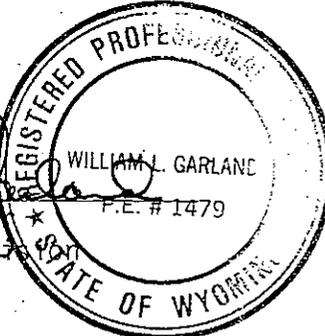
Casper, Natrona, Wyoming 82601  
 (City) (County) (State)

to construct, install, or modify a water transmission and sewer outfall  
 facility located in Sec. 23, 26-30, T21N, R87W  
 (Legal Description)

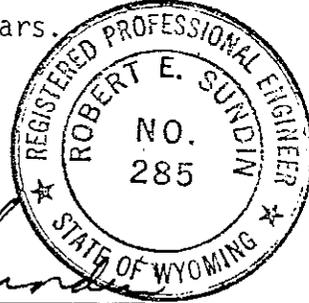
in the County of Carbon, in the State of  
 Wyoming. This permit shall be effective for a period of two (2) years  
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
 Administrator  
 Water Quality Division



Robert E. Sundin  
 Director  
 Wyoming Dept. of Environmental Quality



June 20, 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: Jim Gores  
ARIX  
625 E. Madison  
Riverton, WY 82501

AR 105  
8-5-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-335R

THERMOPOLIS - WATER TRANSMISSION LINE REHABILITATION  
(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF THERMOPOLIS  
(Last) (First) (Middle)

P. O. BOX 603  
(Street or P.O. Box)

THERMOPOLIS WY 82443  
(City) (County)- (State)

to construct, install, or modify a Water transmission  
facility located in Sec. 1, T. 42N, R. 95W  
(Legal Description)

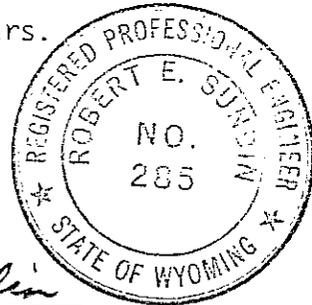
in the County of HOT SPRINGS, in the State of  
Wyoming. This permit shall be effective for a period of TWO years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Surdin  
Director  
Wyoming Dept. of Environmental Quality



August 2, 1979  
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Thermopolis - Water Transmission Line Rehabilitation

ENGINEER: Jim Gores  
ARIX, Inc.  
625 E. Madison  
Riverton, WY 82501

OWNER: Town of Thermopolis  
P. O. Box 603  
Thermopolis, WY 82443

WATER QUALITY DIVISION REFERENCE NUMBER: 79-335

REVIEWING ENGINEER: Rick Engelmann *Rick Engelmann*

DATE OF REVIEW: July 19, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. "Clowrubber Wedge" valves have been called out. Do these conform to AWWA standards?
2. Please provide:
  - A. Spec.s that require the contractor to maintain on site copies of AWWA C600-77 and C601-68 since these are referenced in the spec.s. (see pp. 02550-6 and 15062-3) This requirement could also be satisfied by incorporating copies of the standards in the spec.s.
  - B. Valves should be bedded on a concrete or block base and tied down to the base.
  - C. An additional copy of the plans and spec.s. We need three copies for each application.

Jim - Since this review is so late in getting out, I promise to expedite the permit once you reply.

PERMIT TO CONSTRUCT

New

Permit No. 79-336R

Renewal

Modified

WATER SYSTEM REPLACEMENT, SAINT STEPHENS INDIAN MISSION, INC.  
(Name of Facility)

This permit hereby authorizes the applicant:

SAINT STEPHENS INDIAN MISSION, INC.

(Last)

(First)

(Middle)

BOX 294

(Street or P.O. Box)

SAINT STEPHENS

WY

82524

(City)

(County)

(State)

to construct, install, or modify a water distribution

facility located in Sec. 9, T. 1S, R. 97W

(Legal Description)

in the County of FREMONT

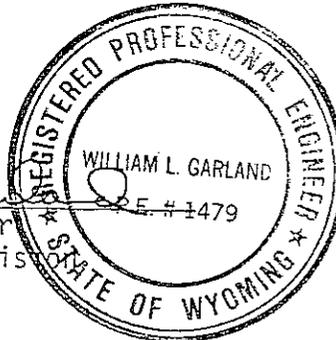
, in the State of

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

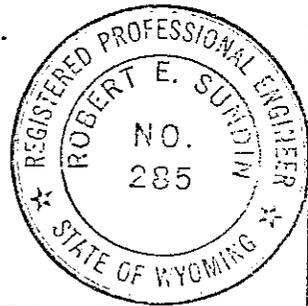
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrator  
Water Quality Division



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



August 7, 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: WATER SYSTEM REPLACEMENT, ST. STEPHENS INDIAN MISSION, INC.

ENGINEER: R. D. Connell  
R. D. Connell And Assoc.  
P. O. Box 1010  
Riverton, WY 82501

OWNER: St. Stephens Indian Mission, Inc.  
% R. D. Connell and Assoc.  
P. O. Box 1010  
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-336

REVIEWING ENGINEER: Rick Engelmann

DATE OF REVIEW: July 18, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

GENERAL

1. No "Application for Permit to Construct" was sent. I am enclosing an application.
2. Please define the project - electrical spec.s have been included but it was my impression that the project consisted only of water line construction.

WATER LINES

1. We will need the following
  - a. Spec.s. for 1" & 2" PVC pipe and fittings. AWWA C900-75 applies to only 4"-12" pipe.
  - b. Spec.s. for valves for 1" & 2" lines. AWWA C500-71 applies to 3"-48" valves.
  - c. An update of the AWWA/ANSI spec.s. Many of those called out on pp. PV-1 and PV-2 are outdated editions.
  - d. Clarify depth of bury - plans call for 7', p. PV-5 calls for valve boxes with 5'-6" cover, and p. 1 of WATER LINE CONSTRUCTION states 6.0 feet of cover.

REVIEW OF PLANS & SPEC.S  
JULY 18, 1979  
PAGE 2

- e. Water line/sewer line crossing spec.s. See Enclosed
- f. Fire Hydrant spec.s.

CONCERNING SIZE OF LINES

Strictly speaking, you are correct that our regulations do require 6" lines. However, we will o.k. 4" lines in light of the following facts: (1) The system will probably never be significantly expanded; (2) The proposal will provide significant improvement in fire protection (it appears that currently there is no fire protection); (3) There is currently little fire storage - larger lines will not add significantly to fire protection.

As a word of warning, we have heard of cases where fire departments have hooked pumpers to fire hydrants on 4" PVC systems & have literally imploded the gasket joints.

cc: R. D. Connell  
P. O. Box 1010  
Riverton, WY 82501

Mto J  
8-23-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-337RR

HUDSON, WYOMING WATER SYSTEM IMPROVEMENTS  
(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF HUDSON  
(Last) (First) (Middle)

141 E. Third St.  
(Street or P.O. Box)

Hudson WY 82515  
(City) (County) (State)

to construct, install, or modify a water supply  
facility located in Sec. 21, T. 34N, R. 98W  
(Legal Description)

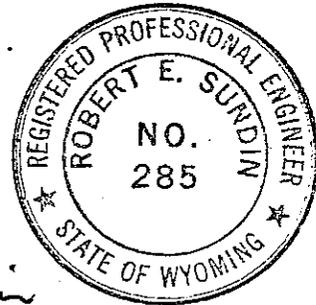
in the County of FREMONT, in the State of  
Wyoming. This permit shall be effective for a period of TWO years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William J. [Signature]  
Administrator  
Water Quality Division



Robert E. Sordin  
Director  
Wyoming Dept. of Environmental Quality



August 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: WATER IMPROVEMENTS, HUDSON, WYOMING

ENGINEER: R. D. CONNELL  
R. D. CONNELL AND ASSOCIATES  
P. O. BOX 1010  
RIVERTON, WY 82501

OWNER:  
TOWN OF HUDSON  
P. O. BOX 35  
HUDSON, WY 82515

WATER QUALITY DIVISION REFERENCE NUMBER: 79-337R

REVIEWING ENGINEER: Rick Englemann

A handwritten signature in black ink that reads 'Rick Englemann'.

DATE OF REVIEW: August 8, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

The following points have already been discussed with Mr. Ed Ambler:

1. It appears that the discharge hole for the chlorine mixing chamber is not large enough. I estimate this 2"  $\phi$  hole will pass only 160 gpm with a 6' head.
2. The chemical analysis sent is suspect; the reported hardness and Ca and Mg concentrations do not match.
3. We need the following information:
  - a. Details on the well cap - is it vented?
  - b. How the pitless adapter unit is attached to the well casing.

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: WATER IMPROVEMENTS, HUDSON, WYOMING

ENGINEER: R. D. CONNELL  
R. D. CONNELL AND ASSOCIATES  
P. O. BOX 1010  
RIVERTON, WY 82501

OWNER:  
TOWN OF HUDSON  
P. O. BOX 35  
HUDSON, WY 82515

WATER QUALITY DIVISION REFERENCE NUMBER: 79-337

REVIEWING ENGINEER: RICK ENGELMANN

A handwritten signature in black ink that reads "Rick Engelman".

DATE OF REVIEW: JULY 16, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

GENERAL

1. No "Application For Permit To Construct" was sent. See Enclosed.
2. We need an engineering report that outlines the following:
  1. present and future water demands.
  2. the basis of the proposed design (including sizing of well and transfer pumps, sizing of wet wells, sizing of chlorinator capacity).
  3. operating procedures for the proposed system.
  4. the 100 year flood level at the well/pump house site.

WELLS

1. We cannot permit well pits as you have proposed. These are clearly not permitted by our regulations, especially in light of the fact that this is a flood prone area. See the 1968 Ten State Standards, Sec. 3.2.3.14.
2. We need the following:
  - A. As built drawings and a description of the existing wells. Wells that will be used for public water supplies must be constructed according to the reg.s outlined in the '68 Ten State Std., Section 3.2. This includes construction, casing, grouting, screening, etc.

- B. A description of the geology of the water bearing formation and the formations above and immediately below.
- C. Specifications for pump testing of the wells. In addition, since mutual interference of the wells is likely, pump tests should be conducted simultaneously.
- D. Specifications for disinfection of the wells, bacteriological testing, and chemical testing of the well water.
- E. Indication of the well spacings on the plans.

#### TRANSFER PUMPS

- 1. Is it anticipated that additional pumps will be installed in the future? If so, I would recommend that reinforced sections of the pump floor be provided for them.
- 2. Please provide the following:
  - A. Flooding potential at the site.
  - B. Support and restraint for the pump house piping.
  - C. A sloped wet well floor for cleaning and draining purposes. (How would the wet well be drained?)
  - D. Pressure gauges on each pump discharge.
  - E. The groundwater level at the pumphouse site.
  - F. The wet well must be water proofed.

#### SPECIFICATIONS

Please provide the following:

- A. Procedures to be used in jetting and flooding, including drainage of trench (if necessary).
- B. Update of AWWA/ANSI spec.s on pp. PV-1, PV-5, and ME-3 to most current editions.
- C. Require that the swing check valves conform to AWWA C508-76.
- D. More information on the hypochlorinator - proposed point of application, type of hypochlorite that will be used. If calcium hypochlorite is being used, I strongly suggest two tanks be used - one for the dissolving of the hypochlorite and settling of the formed solids, and the other for holding the decant from the first. The pump should draw from the decant tank.

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

9-7-79

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 79-338RR

Webb Creek Ranches No. II

(Name of Facility)

This permit hereby authorizes the applicant:

Wolz & Associates, Inc. and James C. Orr Contractor, Inc.

(Last) (First) (Middle)

933 W. 14th St.

(Street or P.O. Box)

Casper, Natrona, WY 82601

(City) (County) (State)

to construct, install, or modify a water distribution & storage

facility located in Sec. 27, 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. This permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administ. for  
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.



Book  
M-6-29-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

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

PROJECT: Webb Creek Ranches No. II, Water Storage & Distribution System,  
Natrona Co.

ARCHITECT OR ENGINEER: C.K. Wolz, Wolz & Associates, Inc., 933 W. 14th Street,  
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-338

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

DATE OF REVIEW: June 28, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Pressure Testing and Leakage Testing Specification A.12, Page 3. The AWWA Standard C600-77 (revision of C600-64) has reduced the allowable leakage rates according to the equation  $L = \frac{ND\sqrt{P}}{7400}$
2. Provide complete chemical (including heavy metals), bacteriological and radiological analyses of the well water to this Division for review.
3. Finished water storage must be disinfected in accordance with current AWWA Standard D102. Two or more successive sets of samples, taken at 24 hour intervals, must indicate microbiologically satisfactory water before the facility is placed into operation.

cc: Robert Coppin  
Rocky Mountain Energy  
4704 Harlan Street  
Denver, CO 80212

M 705  
11-26-79

PERMIT TO CONSTRUCT

New

Permit No. 79-339R

Renewal

Modified

B-1 BARIUM CHLORIDE TREATMENT PLANT

(Name of Facility)

This permit hereby authorizes the applicant:

Bear Creek Uranium Mine

c/o Richard Fox

(Last)

(First)

(Middle)

P.O. Box 2654

(Street or P.O. Box)

Casper, Wyoming 82602

(City)

(County)

(State)

to construct, install, or modify a pit wastewater treatment

facility located in Section 10, T.38N., R.73W.

(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.

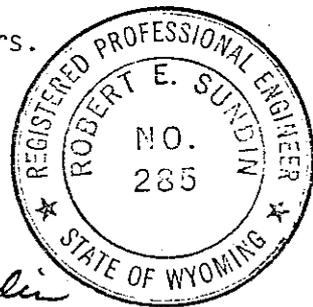
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director

Wyoming Dept. of Environmental Quality



November 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  
7/5/79

79-339

Covered under  
review for  
79-273

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

*Back*  
*10-10-79*

PERMIT TO CONSTRUCT

New

Permit No. 79-340RR

Renewal

Modified

Russ Norton's Orin Trailer Park  
(Name of Facility)

This permit hereby authorizes the applicant:

Norton, Russel  
(Last) (First) (Middle)

Route 6  
(Street or P.O. Box)

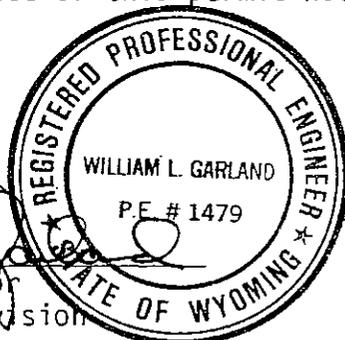
Douglas, Converse, WY 82633  
(City) (County) (State)

to construct, install, or modify a groundwater source development and subsurface disposal facility located in Sec. 13, T31N, R70W (Legal Description)

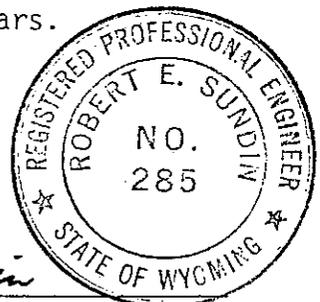
in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. 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."

Back  
M-7-10-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Russ Norton's Orin Trailer Park, Converse Co.

ARCHITECT OR ENGINEER: James R. Graves, 3100 E. Sinclair Place, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-340

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

DATE OF REVIEW: July 9, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application (2 copies) for a Permit to Construct must be completed and signed by the owner.
2. Provide complete chemical (including heavy metals), bacteriological and radiological analyses of the well water to this Division for review prior to use. Also, provide well water flow rates from well.
3. Insert attached "Requirements for Horizontal and Vertical Separation Between Water and Sewer Mains" to the construction specifications.
4. Design calculations for sewage are below State standards (page 9, Chapter III, Wyoming Water Quality Rules & Regulations). New sewerage systems shall be designed on the basis of an average daily per capita flow of not less than 100 gallons per capita per day using a minimum of 3.5 capita per single family residence. Evaluate impact of these increased flows on size of septic tank and leach field design, and comment in revised application.
5. Indicate size of sewer pipe on sewer line profile drawings.
6. Four inch sewer lines cannot be used as collection lines, but may be used for individual mobile home service lines. Minimum size of collection lines is 6 inches.
7. After all information requested in comment #2 has been received and evaluated by this Division, a Permit to Construct will be issued. In the meantime, you should consider review and implementation of the other comments as required.

cc: Philip M. Hoyt, P.E.  
504 South 4th Street  
Laramie, WY 82070

*Book*  
*79-341R*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-341R

Fairfield Addition (Subdivision) to the City of Laramie  
(Name of Facility)

This permit hereby authorizes the applicant:

Fairfield Development Company

(Last) (First) (Middle)

P.O. Box 3144  
University Station

(Street or P.O. Box)

Laramie,  
(City)

Albany,  
(County)

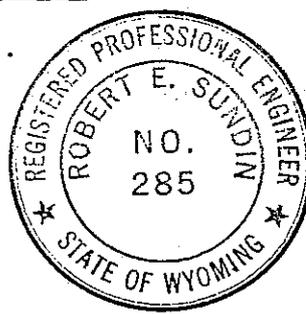
WY 82071  
(State)

to construct, install, or modify a municipal distribution & collection system  
facility located in Sec. 27, 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  


Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality  


August 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."

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-341R

Fairfield Addition (Subdivision) to the City of Laramie  
(Name of Facility)

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

Fairfield Development Company  
P.O. Box 3144, University Station  
Laramie, WY 82071

to construct, install, or modify a municipal distribution and collection system facility according to the procedures and conditions of the application No. 79-341R. The facility is located in Section 27, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

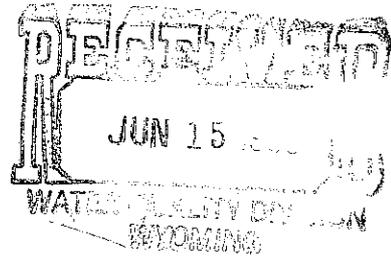
The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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

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

Fairfield Development Company  
P.O. Box 3144  
University Station  
Laramie, Wyoming 82071  
June 13, 1983

Mr. Thomas S. Norman, Water Quality Engineer  
Department of Environmental Quality  
Water Quality Division  
1111 E. Lincolnway  
Cheyenne, WY 82002



Dear Mr. Norman:

We are proposing to develop the Fairfield Addition to the City of Laramie, Albany County, Wyoming, for which we previously received a DEQ Permit to Construct (copy enclosed). Primarily due to recent economic conditions, the subdivision was not constructed during the period authorized by the permit. However, the plat, water distribution mains and sewer mains are all the same as originally presented. The City of Laramie has approved the subdivision and has authorized a construction period of approximately one and one-half years, covering the time from now through December 31, 1984.

I would like to request an extension of DEQ Permit Number 79-341R for an additional period of time as you see fit.

Thank you for any consideration given to this request.

Sincerely,

Philip M. Hoyt  
Fairfield Development Company  
(307) 745-3068

cc: Philip M. Hoyt,  
504 South 4th Street  
Laramie, WY 82070

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-341R

Fairfield Addition (Subdivision) to the City of Laramie  
(Name of Facility)

This permit hereby authorizes the applicant:

Fairfield Development Company  
(Last) (First) (Middle)

P.O. Box 3144  
University Station  
(Street or P.O. Box)

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

to construct, install, or modify a municipal distribution & collection system  
facility located in Sec. 27, T16N, R73W  
(Legal Description)

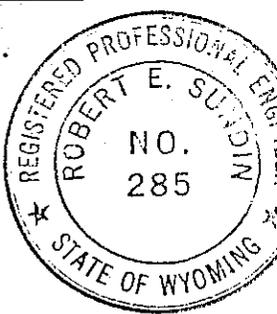
in the County of Albany, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



August 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."

SOOP  
M-1-13-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fairfield Addition, City of Laramie, Albany Co.

ARCHITECT OR ENGINEER: Laramie Engineering, P.C., 504 South 4th Street,  
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 79-341

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

DATE OF REVIEW: July 13, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Drawings must be signed and/or stamped with seal of Professional Engineer licensed to practice in Wyoming.
2. Insert the attached "Requirements for Minimum Horizontal and Vertical Separation Between Water and Sewer Mains" into the construction specifications or add it as a note to the water/sewer plan sheet.

cc: Joe Bush  
P.O. Box 2187  
Casper, WY 82602

Book 24-79  
7-24-79

PERMIT TO CONSTRUCT

New

Permit No. 79-342RR

Renewal

Modified

West Plains Development

(Name of Facility)

This permit hereby authorizes the applicant:

M. L. Maxwell & Associates

(Last)

(First)

(Middle)

P.O. Box 212

(Street or P.O. Box)

Cheyenne,

WY 82001

(City)

(County)

(State)

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

facility located in Sec. 16, T32N, R71W

(Legal Description)

in the County of Converse, in the State of

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

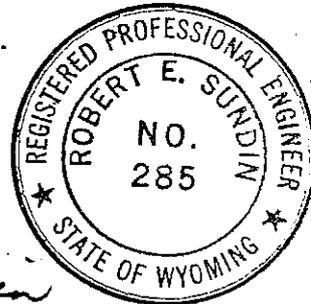
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



August 20, 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



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 20, 1979

Mr. Joe Bush  
P.O. Box 2187  
Casper, WY 82602

Dear Mr. Bush:

The enclosed Permit to Construct, Number 79-342RR, has been issued to indicate municipal water distribution and wastewater collection systems for the proposed West Plains Development project in Douglas, Wyoming. The former permit, Number 79-342R, incorrectly identified a public water treatment plant and wastewater stabilization pond for the subdivision. Permit Number 79-342R should be permanently discarded.

Sincerely,

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

LeRoy C. Feusner, P.E.  
Environmental Engineer  
Water Quality Division

LCF/nc

cc: Mike Maxwell  
P.O. Box 212  
Cheyenne, WY 82001

cc: Joe Bush  
P.O. Box 2187  
Casper, WY 82602

PERMIT TO CONSTRUCT

*see 79-342RR*

- New
- Renewal
- Modified

Permit No. 79-342R

West Plains Development

(Name of Facility)

This permit hereby authorizes the applicant:

M.L. Maxwell & Associates

(Last)

(First)

(Middle)

P.O. Box 212

(Street or P.O. Box)

Cheyenne,

WY 82001

(City)

(County)

(State)

to construct, install, or modify a municipal treatment plant and stabilization pond  
facility located in Sec. 16, T32N, R71W  
(Legal Description)

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

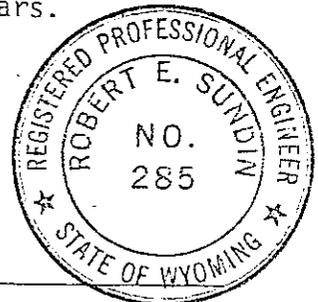
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



August 10, 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."

Rec'd  
M-7-19-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

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

PROJECT: West Plains Development, City of Douglas, Converse Co.

ARCHITECT OR ENGINEER: Michael Maxwell, M.L. Maxwell & Associates, Inc.,  
P.O. Box 312, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-342

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

DATE OF REVIEW: July 16, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. General

- 1. Drawings must be stamped or signed by Professional Engineer licensed in the State of Wyoming.

B. Sewer Line Construction

- 1. A letter of verification from the City of Douglas stating that the City municipal wastewater treatment plant is capable of handling the added organic and hydraulic loading must be included with this application (paragraph 1.0, page 9, Wyoming Water Quality Rules & Regulations, Chapter III).
- 2. Manhole spacing for an 8" PVC sewer line is exceeded on portions of Bow Street and Hatchet Drive. Manholes shall be installed at distances not greater than 400 feet for sewers 15 inches I.D. or less. Distances up to 600 feet may be approved where adequate modern cleaning equipment is provided for such spacing. Change manhole spacing to meet minimum State standard, or provide a letter from the City of Douglas indicating that they have the necessary equipment to meet maintenance requirements.
- 3. Sewer line slop is below minimum State standard of 0.400% for an 8" pipe on portions of Drum and Arrow Streets. Correct sewer line slopes, or provide written documentation from the City that they have the capability to provide any additional sewer maintenance necessitated by reduced slopes.

4. What infiltration rate will be used for sewer pipe? Minimum State standard is 200 gallons per inch of pipe diameter per mile per day.
5. What type of joints and materials will be used for the sewer lines? Include in construction specifications.
6. Expand lamping tests to the 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." Also indicate allowable sewer pipe deflection limits.
7. What back-fill procedures will be used during sewer pipe burial?

C. Water Line Construction

1. A letter of verification is required from the City of Douglas stating they can adequately supply drinking water at a required pressure of 20 psi under all flow conditions at all points in the distribution system.
2. Water line leakage testing and allowable leakages rates must be followed in accordance with AWWA Standard C600-77. The previous criteria in AWWA Standard C600-64 is not valid.
3. City of Douglas construction/material specifications have not been submitted to this Division for approval. Provide a copy or listing of water main material/specifications.
4. The dead ends on Arrow Street, Tepee Court, and Tomahawk Drive must be provided with either a fire hydrant if flow and pressure are sufficient or with an approved flushing hydrant or blow-off for flushing purposes. No flushing device shall be directly connected to any sewer.

cc: Joe Bush  
Box 2187  
Casper, WY 82602

THE STATE



OF WYOMING

*Patti -*  
*79-343 - withdrawn*

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

September 5, 1980



Mr. E. J. Collins  
200 West Hogeye  
Gillette, Wyoming 82716

Dear Mr. Collins:

Our records indicate that application for a permit to construct, Reference Number 79-343, Hazelton Scenic Park Subdivision Water System, has not been resubmitted to this office. Please indicate below the status of your application.

The application will not be resubmitted. The application is to be removed from DEQ files. *Office 9/5/80*

The application will be resubmitted within 30 days.

The facility has been constructed, or is under construction.

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

If this letter is not returned within 30 days, your application will be removed from our files.

Sincerely,

*Tom Mueller*

Tom Mueller  
District Supervisor

TM/lis

Encl.: Review of Plans and Specifications  
dated August 2, 1979

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

September 16, 1980

Mr. E. J. Collins  
200 West Hogeys  
Gillette, Wyoming 82716

Dear Mr. Collins:

On this date, we received your notice that the application for a permit to construct, Hazelton Scenic Park Subdivision Water System, Reference Number 79-343, would not be resubmitted. The application is considered withdrawn, and for that reason we are returning the enclosed plans and specifications which you submitted to our office for this project.

Sincerely,

*Lea Stoneburner*

Lea Stoneburner  
Administrative Assistant

ls

Encl.: Plans and Specifications

2-10-1979

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Scenic Park Subdivision near Hazelton, Johnson County

ARCHITECT OR ENGINEER: E. J. Collins, 200 W. Hogeys, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-343

REVIEWING ENGINEER: Dan H. Kim, Tom Mueller

DATE OF REVIEW: August 2, 1979

ACTION: Not Authorized for Construction



COMMENTS:

- (1) Geological map and percolation test boring log indicate that subsurface soil formation is not the factor that prohibits pipe bury compliance. Granite bed-rock is only found in the limited edges of the proposed area. Therefore, it is the Division's position in this matter that the water lines must be covered with sufficient earth to prevent freezing and pipe breakage due to traffic at whichever area that the required burial depth of the pipe is reasonably achievable.
- (2) Well
  - a. Details of well construction are needed. Well construction shall be conducted per Section 3.2 of the Ten States' Standards (i.e., depth, casing, grouting, capping, well long, casing vent, drop pipe, etc.).
  - b. What is the estimated sustained yield of each well? When yield and drawdown tests are performed, test data of the well needs to be reported to this Division. Is the 70 gpm (see the application form) a total estimated average yield from four wells? Is each well capable of yielding up to 46 gpm as shown in the engineering data?
  - c. How will the well pump be protected from low water level?
  - d. Chemical analysis and bacteriological test data should also be submitted to this Division upon completion of the well.

(3) Well House

- a. At least two booster pumps are required for all public supply systems. Please discuss.
- b. Please show well house equipment and appertenances in the detail drawing (i.e., flow meter, check valve, pressure gage, pressure relief valve, air valve, surge control valve, etc.).
- c. Is there a sump in the well house? Where is it drained to?
- d. Automatic pump cutoff needs to be provided for the booster pump when the suction line pressure reaches at 10 psi.

(4) Chlorination Building

- a. Point of Cl<sub>2</sub> solution injection and a tap for mixing water appears to be reversed. Please correct.
- b. How high is the ventilating fan to be installed from the floor?
- c. Are the switches for fan and light able to be turned on from outside? They should also come on automatically upon opening of the door. Please provide details.
- d. Safety equipment is needed (i.e., self-contained air masks, ammonium, etc.).
- e. Is a scale or automatic switchover to be provided? Where are the extra chlorine cylinders to be stored?

(5) Water Storage

- a. Is the proposed welded steel tank an AWWA approved tank? More information on material and general design is needed to verify that the proposed tank meets the requirements of AWWA D100-73.
- b. Please show details of overflow pipe and drain pipe. These pipes should be downturned, screened and terminated at least 12 to 18 inches above the splash pad.
- c. Is the tank roof hatch hinged and locked? Is the tank vent screened?
- d. More information on tank foundation is needed. All flat bottom tanks shall be supported on a ring wall or 12-inch concrete slab. The proposed 12-inch gravel base is not acceptable unless a ring wall with adequate cement grout and sand cushion is provided.

Scenic Park Subdivision near Hazelton,  
Johnson County  
79-343  
F 2 three

- e. Please show the high and low water level of the tank.
- f. Is a bypass line needed around the tank to permit repairs?
- g. Disinfection procedure for the water tank must follow AWWA D102.

(6) Water Lines

- a. Are blowoff valves (drains) installed at all dead ends of the water main? Please provide detail drawing of the drains.
- b. Water distribution line must be no less than two inches in size.
- c. What are the SDR and pressure ratings of all the PVC pipe to be used (two inches to 4 inches in size)? It should be noted that among ASTM D2241 pipe, the four inch PVC pipe with 125 psi, SDR 32.5 is not acceptable. Please also verify that the proposed P.E. 2306, "Duro-Flo" pipes are designed to be free of failure when the specified pressure of 150 psi is applied during the hydrostatic pressure tests. PVC pipe meeting ASTM D1785 (i.e., schedule 40, 80) are strongly recommended for the pipes with its diameter of less than four inches.
- d. Are any air relief valves needed for the water line? Need details.
- e. Specifications covering pipe joints, maximum size of backfill material around the pipe, relieving the bells, concrete strength, etc., are needed. The water mains shall be installed per AWWA C600 or C603.
- f. Typical drawings of trench section, thrust blocks, etc., are needed.

Note: Due to the number of comments, this is not considered a final review.

3-22-84  
Natriona

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 22, 1984

True Drilling Company  
P.O. Drawer 2369  
Casper, WY 82602

Dear Sir:

On March 13, 1984, a status letter was sent to you concerning a permit to construct, reference number 79-344 facility name Arco Hunter Federal Well #1, Wastewater Treatment 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,

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

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

LCF/nc

cc: David Bishop  
True Drilling Company  
P.O. Drawer 2360  
Casper, WY 82602



THE STATE OF WYOMING

TRUE  
MAR 13 1984

ED HERSCHLER  
GOVERNOR

# Department of Environmental Quality

## Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

RECEIVED  
MAR 21 1984  
WATER QUALITY DIVISION  
WYOMING

True Drilling Company  
P.O. Drawer 2360  
Casper, WY 82602

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:	Arco Hunter Federal Well #1, Wastewater Treatment System
DEQ/WQD Reference Number:	79-344
Engineering Consultant:	David Bishop, True Drilling Company
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	July 13, 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 PROJECT WAS COMPLETED AND HAS BEEN ABANDONED. LANDSCAPE RESTORED

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: David Bishop  
True Drilling Company  
P.O. Drawer 2360  
Casper, WY 82602



*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

True Drilling Company  
P.O. Drawer 2360  
Casper, WY 82602

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:	Arco Hunter Federal Well #1, Wastewater Treatment System
DEQ/WQD Reference Number:	79-344
Engineering Consultant:	David Bishop, True Drilling Company
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	July 13, 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: David Bishop  
True Drilling Company  
P.O. Drawer 2360  
Casper, WY 82602

Book  
m-7-13-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

~~Water Quality Division~~ Hathaway Bldg.

Cheyenne, Wyoming 82002

PROJECT: Arco Hunter Federal Well #1, True Drilling Company, Natrona Co.

ARCHITECT OR ENGINEER: David Bishop, True Drilling Company, P.O. Drawer 2360,  
Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 79-344

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

DATE OF REVIEW: July 13, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application (2 copies) for a Permit to Construct must be completed and submitted to this Division for this project.
2. Provide written documentation indicating that the entire site, including the sewage disposal tank, sewer lines, water lines and reserve pit, will be removed and the area restored to State and/or BLM standards at the termination of the drilling. It is understood that this work will be accomplished during November 1979.
3. Disposal of the solids in the tank must be coordinated with the DEQ Solid Waste Management Office, 777-7752, prior to any pumping and disposal action. Indicate written documentation that this coordination will be accomplished.
4. Provide sewer line cleanouts at locations where the six inch line changes direction and at the end of each trailer row.
5. Indicate how water is transported from well to each trailer space for use in washing and toilets. Show location of any underground/surface water lines.
6. Indicate exact location and distance of water well from proposed sewage holding tank and reserve pit. Indicate land contours of site.
7. Indicate procedures to ensure safe drinking water source/site procedures. Include storage and transportation aspects, and chlorine residual testing procedures.
8. Indicate construction materials and specifications for water and sewer systems.

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

*B...*  
*...*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-345

Sweetwater Builders  
(Name of Facility)

This permit hereby authorizes the applicant:

Sweetwater Builders  
(Last) (First) (Middle)

1223 E. 8th St.  
(Street or P.O. Box)

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

to construct, install, or modify a small subsurface disposal  
facility located in Sec. 26, T33N, R80W  
(Legal Description)

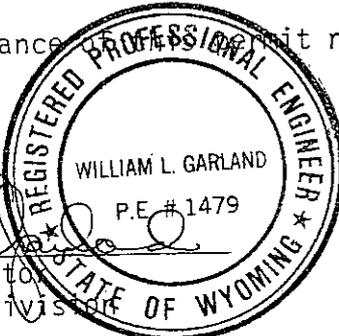
in the County of Natrona, in the State of

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

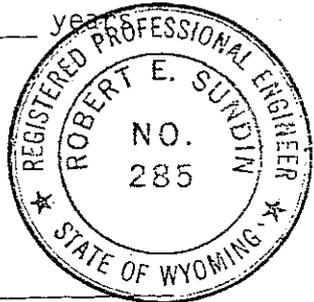
from the date of issuance. This permit not to exceed five (5) years.

AUTHORIZED BY:

*William L. Garland*  
Administrative  
Water Quality Division



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



June 28, 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: Johnson - Fermelia & Crank, Inc.  
P. O. Box 631  
Kemmerer, WY 83101  
ATTN: Dale Crank, P.E.

PERMIT TO CONSTRUCT

New

Permit No. 79-346RR

Renewal

Modified

Big Piney Water Improvements

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Big Piney

(Last)

(First)

(Middle)

P. O. Box 70

(Street or P.O. Box)

Big Piney

(City)

WY

(County)

83113

(State)

to construct, install, or modify a water distribution system

facility located in Sec. 31, T. 30N, R. 111W

(Legal Description)

in the County of Sublette

, in the State of

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

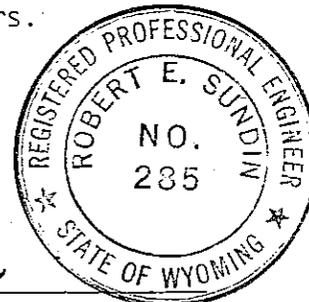
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



9-4-79

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: BIG PINEY - 1979 WATER IMPROVEMENTS

ENGINEER: Dale Crank  
Johnson Fermelia and Crank, Inc.  
P. O. Box 631  
Kemmerer, WY 83101

OWNER:  
Town of Big Piney  
P. O. Box 70  
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 79-346R

REVIEWING ENGINEER: Rick Engelmann



DATE OF REVIEW: August 1, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. We need 3 copies of all submitted material. Only two were sent.
2. Detail sheet 3 does not meet our regulations and will not be approved as such. Our regulations, a modification of Ten State Standards, very explicitly require water class pipe, etc.



REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: BIG PINEY - 1979 WATER IMPROVEMENTS

ENGINEER: Dale Crank  
Johnson, Fermelia and Crank, INC.  
P. O. Box 631  
Kemmerer, WY 83101  
OWNER: Town of Big Piney  
P. O. Box 70  
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 79-346

REVIEWING ENGINEER: Rick Engelmann 

DATE OF REVIEW: July 5, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

- (1) The specified water line pressure and leakage tests (2.02i) do not match AWWA C600-77.
- (2) The concrete encasement shown in Detail Sheet 3 does not meet our regulations. See Enclosed.
- (3) Please provide the following:
  - A. If calling out AWWA C601-68 for line disinfection (2.02j), include a copy in the construction specs or specify that the contractor must maintain a copy on site.
  - B. If a Wyoming Highway Dept. spec. for concrete is being used, it too must be maintained on site.
  - C. Specification of criteria to be used in sizing thrust blocks.
  - D. Specification of acceptable bedding - size of stones, amount of overexcavation and backfill required for solid rock and unstable trench floor, etc.
  - E. Specification of valve installation - support, restraint of valves, etc.
  - F. Specification of acceptable methods for support and installation of pipe in casing. (Surely Detail Sheet 2 does not represent what is proposed?)
  - G. The range of working system pressures in the town.

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 s, sewer, storm sewers or sanitary sewers shall be laid *above the sewers* to provide a separation of at least 18 inches between the bottom of the water main and the top of the sewer, wherever 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:

8.4.3.2.a. Sewers passing over or under water mains shall 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.

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;
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#### 8.4.3 Crossings -

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  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: Tudor Engineering  
450 S. Federal Blvd.  
Riverton, WY 82501  
ATTN: Don Armstrong, P.E. PERMIT TO CONSTRUCT

MtoZ  
10-22-79

- New
- Renewal
- Modified

Permit No. 79-347RR

Teton Village KOA

(Name of Facility)

This permit hereby authorizes the applicant:

Shierry

(Last)

Jim

(First)

(Middle)

Teton Village KOA

(Street or P.O. Box)

Jackson

(City)

WY

(County)

83001

(State)

to construct, install, or modify a wastewater treatment facility

facility located in Section 13, T. 41N. R. 117W.

(Legal Description)

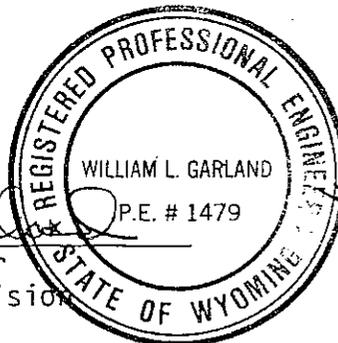
in the County of Teton, in the State of

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

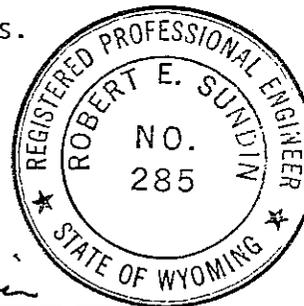
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



October 10, 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."

*Original*

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

PROJECT: Teton Village KOA Sewage Disposal System  
Sec. 13, T. 41N, R. 117W, Teton County

ENGINEER: Tudor Engineering  
450 South Federal  
Riverton, WY 82501      ATTN: Donald Armstrong, P.E.

OWNER: Jim Shierry  
Teton Village KOA  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-347R

REVIEWING ENGINEER: *MS. for* David W. Hill, P.E.

DATE OF REVIEW: September 14, 1979

ACTION: NOT AUTHORIZED.

REMARKS:

GENERAL

- (1) Complete design criteria is needed for this new proposal (i.e. - gray water flow, black water flow, in-situ percolation rate, etc.).
- (2) Is the well house also the toilet-bathhouse? The well must be at least 50 feet from a sewer line.

SEWER SYSTEM

Black Water System

- (3) Where is the trailer dump station and line leading to the disposal system?
- (4) Details of the splash pad and instruction warning signs at the dump station are needed.
- (5) The bed must extend at grade for at least ten feet before tapering off at the 3:1 slope.

Teton Village KOA Sewage Disposal System  
Review of Plans & Specs.  
PAGE 2

Gray Water Disposal System

- (6) Specifications and loading criteria are needed for the filtering sand.
- (7) Can each half of the sand filter be taken out of use separately for maintenance work?
- (8) Indicate proposed sampling schedule for coliform testing of system.
- (9) This may not be the final review.

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Teton Village KOA

ENGINEER: Don Armstrong  
450 S. Federal  
Riverton, WY 82501

OWNER: Jim Shierry  
Teton Village KOA  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-347

REVIEWING ENGINEER: Rick Engelmann

A handwritten signature in black ink, appearing to read 'Rick Engelmann', written over a horizontal line.

DATE OF REVIEW: June 28, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

Water Supply

- (1) The septic tanks are too close to the proposed well. They must be 50' or more away.
- (2) The proposed blow-off is unacceptable - it must terminate above surface.
- (3) Please provide the following:
  - A. Spec.s that deal with those things covered in the '68 Ten State Standards, Sec. 3.2.
  - B. Spec.s for pipes, fittings, disinfection, leakage testing of lines, and installation of lines (compaction, jetting, flooding, or whatever). Note - although you have called out AWWA C-900 for water lines, C-900 does not cover PVC pipe as small as 2" line, nor does it have anything to say about PE pipe.

Black Water System

(1) By our standards, the use of gravel in the elevated leach field is not acceptable - see Appendix "B" of the Chapter III Reg.s.

(2) We need the following:

- A. Manholes at end of sewer line and at the 90° bend.
- B. Sewer line material and installation spec.s, leakage and deflection testing.
- C. Service connection details.
- D. Septic tank size specified, and installation.
- E. More complete spec. on pump/level control package. In addition, how would one remove the pump? How large is the access in the pump station?

Gray Water System

Please provide the following:

- A. Design considerations and calculations for the slow sand filter, spec.s for media and under drain.
- B. Spec. size of septic tank, and installation.
- C. Pipe spec.s - material and installation.
- D. See (2) e. above.

General

It is our understanding that a design report on the entire system will be forthcoming.

11/14/79  
7-19-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-348R

EXETER MOBILE HOME COURT

(Name of Facility)

This permit hereby authorizes the applicant:

EXETER NORTHERN DRILLING, INC.

(Last) (First) (Middle)

2300 LINCOLN CENTER BUILDING

(Street or P.O. Box)

DENVER

(City)

CO

(County)

80264

(State)

to construct, install, or modify a water distribution, sewage collection

facility located in Sec. 34, T. 20N, R. 94W

(Legal Description)

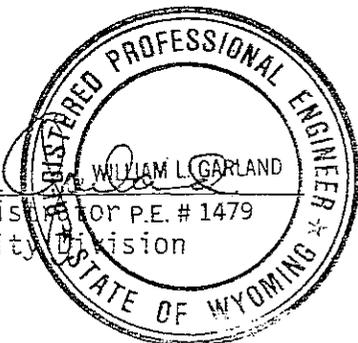
in the County of SWEETWATER, in the State of

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.

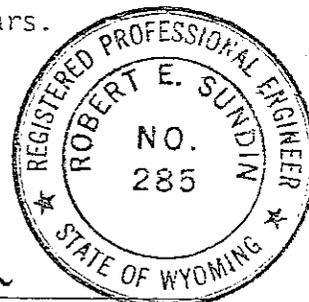
AUTHORIZED BY:

*William L. Garland*



Administrator P.E. # 1479  
Water Quality Division

*Robert E. Sundin*



Director  
Wyoming Dept. of Environmental Quality

July 10, 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: EXETER MOBILE HOME COURT

ENGINEER: Paul McCarthy  
Robert Jack Smith & Associates  
P.O. Box 1104  
Rawlins, Wyoming 82301

OWNER: Exeter Drilling, Inc.  
2300 Lincoln Center Building  
Denver, Colorado 80264

ATTENTION: Curtis R. Hill

WATER QUALITY DIVISION REFERENCE NUMBER: 79-348

REVIEWING ENGINEER: Rick Engelmann

DATE OF REVIEW: June 28, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

WATER DISTRIBUTION SYSTEM:

1. Would the soil be "hot" for DIP pipe?
2. Please provide the following:
  - a. A tapping saddle spec.--a saddle is shown on Detail 7. I assume this would be used for PVC water main?
  - b. AWWA C-600 and C-603 have been called out for DIP and AC pipe installation. Copies of these should be on site.
  - c. Even though AWWA and UNI-BELL specs are being used for pipe installation, these give only very general specs. for bedding and backfill. We should have more specifics concerning acceptable material in the pipe zone and acceptable backfill methods (min. standards for jetting, flooding, hydro hammer, etc.).

SEWER COLLECTION SYSTEM:

1. Are saddles or wye branches being used? If saddles are used, please specify type and installation.
2. The sewer riser pipes should be set in concrete. See Chapter III Regulations, Appendix "A", Sec. 1.8. Concrete collar should be 4" thick and 12" in diameter.

cc: Jim Gores  
ARIX Engineers  
625 E. Madison, #5  
Riverton, WY 82501

11/05  
10-3-79

PERMIT TO CONSTRUCT

New

Permit No. 79-349R

Renewal

Modified

MIDWEST WATER DISTRIBUTION SYSTEM  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Midwest  
(Last)

(First)

(Middle)

P.O. Box 190

(Street or P.O. Box)

Midwest  
(City)

Natrona  
(County)

Wyoming 82643  
(State)

to construct, install, or modify a water distribution

facility located in Section 25, T.40N., R.79W.

(Legal Description)

in the County of Natrona,

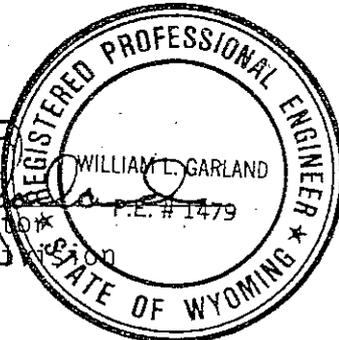
in the State of

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

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

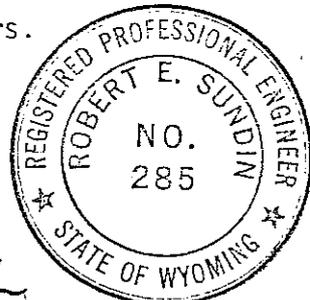
AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin

Director  
Wyoming Dept. of Environmental Quality



October 23, 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."

100-100000-100

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Midwest, Replacement of Water Distribution, Treatment and Storage

ARCHITECT OR ENGINEER: ARIX  
Attention: Robert Regan, 625 East Madison, Suite 5,  
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-349

REVIEWING ENGINEER: Tom Mueller *TMM*

DATE OF REVIEW: August 3, 1979

ACTION: Not Authorized for Construction

COMMENTS:

1. Ten States Standards state that rapid rate pressure filters "may be considered for iron and maganese removal. Pressure filters shall not be used in the filtration of polluted waters . . ." It is the understanding of this office that the proposed facility will treat water from the North Platte River near Casper, Wyoming. Please justify this proposed use of pressure filtration, paying particular attention to raw water quality of the water supply.
2. Ten States Standards also specify a minimum side wall height of 60 inches, and a minimum 18-inch clearance between top of filter and backwash collector.
3. Provisions should be made to securely lock the 4-inch Filter Bypass Valve in the closed position.
4. The plans, specifications, and addenda are difficult to follow in the area of connections between new and old systems. Where will the new distribution system be connected to the filter building? Will any of the existing equipment (pumps, 15-foot tank, filter) remain in service. Is the underground piping shown on sheet 29 existing?
5. Ten States Standards specify a retention time following chlorination of two hours for surface waters. Has any consideration been given to providing any retention time at all in this facility?
6. The 4-inch backwash effluent line must terminate (where it empties into the sump) at least 4 inches above floor level.

Town of Midwest  
79-349  
! e two

7. Where is the backwash effluent ultimately disposed of?
8. The 4-inch solenoid valve serving the filter influent line should be specified as slow-to-open and slow-to-close, to prevent water hammer problems.
9. An 8-inch valve on the waterline running east-west along Lewis Street, at the intersection with A Street, is shown on sheets 1 and 17, but is not shown on sheet 9.
10. This office has no previous experience in permitting the use of "Permastran" or similar pipe. Upon reviewing ASTM specification D2996, it is felt that the following information should be submitted:
  - Thicknesses or Standard Dimension Ratios of the pipe.
  - Hydrostatic Design Basis for the pipe.
  - Hydrostatic Design Stress for the pipe.
  - Service Factor (or the inverse, Factor of Safety) for the pipe.
  - Surge Pressure Allowance for the pipe.
  - Pressure Rating of the pipe.

cc: Mr. Paul A Rechard  
316 Stuart Street  
Laramie, WY 82070

11/10/79  
9-10-79

PERMIT TO CONSTRUCT

New Permit No. 79-350R  
 Renewal  
 Modified

PRONGHORN MINE — SUBSURFACE DISPOSAL FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant:

Attention: Steven E. Dole

Consolidation Coal Company, Western Region

(Last) (First) (Middle)

2 Iverness Drive East

(Street or P.O. Box)

Denver, Colorado 80110

(City) (County) (State)

to construct, install, or modify a subsurface disposal facility - sanitary sewage  
facility located in Section 2, Township 47 North, Range 71 West  
(Legal Description)

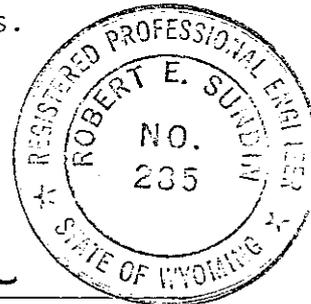
in the County of Campbell; in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garcia  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



September 10, 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."