

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-201

Hawkeye Construction Water Line
(Name of Facility)

This permit hereby authorizes the applicant:

Hawkeye Construction, Inc.

(Last) (First) (Middle)

P. O. Box 2109

(Street or P.O. Box)

Mills Natrona Wyoming 82644

(City) (County) (State)

to construct, install, or modify a Water Main Extension

facility located in Section 20, T34N, R79W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 11, 1978

Date of Issuance
cc: Nix Anderson, Natrona County Sanitarian
Global Engineering, Box 532, Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-202R

Star Valley Ranch - Plats 15 & 16
(Name of Facility)

This permit hereby authorizes the applicant:

Stewart Harold
(Last) (First) (Middle)

Leisure Valley, Inc.
(Street or P.O. Box)

Thayne Lincoln Wyoming 83127
(City) (County) (State)

to construct, install, or modify a Water System Extension
facility located in Section 31, T35N, R118W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Scuderi
Director
Wyoming Dept. of Environmental Quality

June 14, 1978

Date of Issuance
cc: Coon, King and Knowlton, 1055 East 3900 South, Salt Lake City, Utah 84117

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REVIEW OF PLANS AND SPECIFICATIONS

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

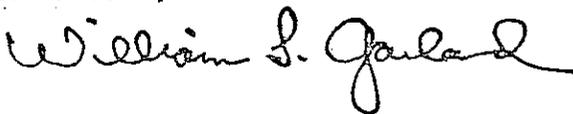
PROJECT: Star Valley Ranch, Water System Extension, Section 31, T34N,
R118W - Lincoln County

ARCHITECT OR ENGINEER: Charles V. King, P.E., Coon, King and Knowlton, 1055
East 3900 South, Salt Lake City, Utah 84117

WATER QUALITY DIVISION REFERENCE NUMBER: 78-202

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: May 19, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Blowoffs with an always open drainage hole are no longer allowed. Use a flushing hydrant or an acceptable blowoff.
- 2). Specify the amount of leakage allowed during leakage testing.
- 3). The new water well may be constructed and developed without a permit from this office. However, a permit is needed before the well can be hooked into the water system. The well construction must comply to the Ten State Standards and must be located out of any flood zone. Provide details of of actual well placement.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-203

Bear Creek Uranium Dilts Sediment Reservoir & Dam
(Name of Facility)

This permit hereby authorizes the applicant:

Bear Creek Uranium Company
(Last) (First) (Middle)
P. O. Box 2654
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Sediment Control Pond
facility located in NW¼, SW¼, Section 26, T39N, R73W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sandin
Director
Wyoming Dept. of Environmental Quality

April 14, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-204

Pine Construction Holding Tank
(Name of Facility)

This permit hereby authorizes the applicant:

Brutsman Everett M.
(Last) (First) (Middle)
6720 Powderhouse Road
(Street or P.O. Box)
Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Wastewater Holding Tank
facility located in SW¼, Section 22, T14N, R66W
(Legal Description)

in the County of Laramie, 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 P. Janda
Administrator
Water Quality Division

Thomas E. Benjamin
Director
Wyoming Dept. of Environmental Quality

April 24, 1978

Date of Issuance
cc: Don Pack, County Sanitarian
Norm Carter, County Engineer

mailed
9/13/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-205R

Burleson Residence & Store

(Name of Facility)

This permit hereby authorizes the applicant:

<u>Burleson</u>	<u>Kenneth</u>	<u>M.</u>
(Last)	(First)	(Middle)
<u>P. O. Box 475</u>		
(Street or P.O. Box)		
<u>Newcastle</u>	<u>Weston</u>	<u>Wyoming 82701</u>
(City)	(County)	(State)

to construct, install, or modify a Septic Wastewater
facility located in Section 31, T43N, R68W
(Legal Description)

in the County of Weston, in the State of
Wyoming. This permit shall be effective for a period of 1 years
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Gale
Administrator
Water Quality Division

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

August 21, 1978

Date of Issuance

cc: Plains Engineering, P. O. Box 727, Newcastle, WY 82701

April 14, 1978

Mr. Robert C. Hartley
Plains Engineering
P. O. Box 727
Newcastle, Wyoming 82701

Dear Bob:

Regarding the Burleson Sewage Treatment system:

- 1). Since the system has been constructed already, no "Permit to Construct" will be issued. The system can be approved if the following conditions are met.
- 2). The system is not a private residence, since a restaurant and three (3) mobile homes are on it. Therefore, drawings included with the application must be signed by a Professional Engineer. For this reason I am returning the application.
- 3). Without complete information regarding the system (i.e. percolation rate, daily flow, etc.) we cannot review the application. If this information is supplied and the system is adequately described, it may be possible to approve the system.

In the meantime, Mr. Burleson remains in violation of W.S. 35-11-301, and Chapter III of our Wyoming Water Quality Rules and Regulations and is subject to the appropriate legal action.

If you have any questions on this, please give me a call.

Yours truly,



Tom Mueller
Environmental Engineer

TM/do
cc: Chronological File
Enclosure: Application

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-206

Natrona County Airport
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Burke</u> (Last) Chairman	<u>John</u> (First)	<u>P.</u> (Middle)
<u>City and County Building</u> (Street or P.O. Box)		
<u>Casper</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82601</u> (State)

to construct, install, or modify a Water Storage Standpipe
facility located in Section 21, T34N, R80W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Sunden
Director
Wyoming Dept. of Environmental Quality

June 6, 1978
Date of Issuance
cc: Sigma Engineering, P. O. Box 4060, Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water System Replacement, Steel Water Storage Standpipe,
Natrona County Airport - Natrona County Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering, P. O. Box 4060, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-206

REVIEWING ENGINEER: *R.H.P.* Robert H. Pinther, P.E.

DATE OF REVIEW: May 29, 1978

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

As per our telephone conversation of May 31, 1978 with Mr. Robert L. Street of Sigma Engineering, the following items will be added to the specifications for this project:

- 1). Disinfection of the yard piping as set forth on page S-19 of the specifications shall call for a 24 contact period of the disinfecting solution in the piping.
- 2). Disinfection of the standpipe as set forth on page S-23 of the specifications shall be revised to comply with "Section 5.2.3 Second Method" of AWWA Standard D102-64. This will result in two (2) consecutive 24 hour periods of contact with disinfecting solution in the tank. During the first period the tank will be partially filled with a disinfecting solution containing at least 50 parts per million chlorine. During the second 24 hour period the tank will be completely filled with water which contains not less than 2 parts per million chlorine.

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-207R

Lucky Mc Addition #1 Water Well
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky Mc Uranium Corp.
 (Last) (First) (Middle)

550 California Street
 (Street or P.O. Box)

San Francisco, California 94014
 (City) (County) (State)

to construct, install, or modify a Water Well
 facility located in Sec9 T29N R92W
 (Legal Description)

in the County of Fremont, 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 J. Gable
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

6-29-78
 Date of Issuance

cc: Bradley R. Mortensen, Lucky Mc Uranium Corp., Big Eagle Mine, P.O. Box 450
 Jeffery City, Wy. 82310

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lucky Mc Addition #1 - Water Well - Section 9, T29N,
R92W - Fremont County

ARCHITECT OR ENGINEER: None

WATER QUALITY DIVISION REFERENCE NUMBER: 78-207

REVIEWING ENGINEER: Roy E. Prior - William L. Garland, P.E.

DATE OF REVIEW: May 10, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

William L. Garland

COMMENTS:

- 1). Per Part b, Section 4, Chapter III, Water Quality Rules and Regulations, all plans and specifications must be signed by an engineer registered in the State of Wyoming.
- 2). Please submit two (2) copies of plans and specifications.

April 19, 1978

Corbett/Associates
Box 1009
Jackson, Wyoming 83001

Dear Sir(s):

The Department of Environmental Quality does not issue permits to construct for single buildings connecting into existing water and sewer lines. Permit requirements are covered by the Jackson or Teton County ordinances.

If I can be of further assistance, please call.

Sincerely,



Thomas F. Hamm
Environmental Engineer

TFH/do

cc

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-209R

Petro-Chem Inc.

(Name of Facility)

This permit hereby authorizes the applicant:

Petro-Chem Inc.

(Last)

(First)

(Middle)

160 Haiqler Airport, Unit 3, Box 7

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming

(State)

82601

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

facility located in Sec7 T33N R79W

(Legal Description)

in the County of Natrona, 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. Carlson

Administrator

Water Quality Division

Robert E. Lundin

Director

Wyoming Dept. of Environmental Quality

6-29-78

Date of Issuance

cc: Cornell Consulting Company, P.O. Box 646, Fort Collins, Co 80522
Att: James R. Dubler, PE

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Petro-Chemical, Inc., Water Distribution and Wastewater Collection
Extensions, Mills, Wyoming - Natrona County

ARCHITECT OR ENGINEER: Harry A. Cornell, P.E., Cornell Consulting Company,
P. O. Box 646, Fort Collins, CO 80522

WATER QUALITY DIVISION REFERENCE NUMBER: 78-209

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: May 11, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). A letter is needed from the Town of Mills which indicates that they will supply water and sewer service.
- 2). Complete detailed specifications are needed for the water and sewer extensions (i.e. materials, installation, testing, etc.).
- 3). Fire hydrants cannot be placed on any line served by a four inch feeder.

cc: Town of Mills
Drawer 789
Mills, Wyoming 82644

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-210

Green Mountain Village Water Supply Well
(Name of Facility)

This permit hereby authorizes the applicant:

Green Mountain Village
(Last) (First) (Middle)
ATTN: Gary A. Barney
227 Main Street - Barney Professional Building
(Street or P.O. Box)
Lander Fremont Wyoming 82520
(City) (County) (State)

to construct, install, or modify a Water Supply Well
facility located in Section 14, T29N, R92W
(Legal Description)

in the County of Fremont, 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 S. Quinn
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

April 19, 1978

Date of Issuance

File

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-211R
 REF. 77-512, 78-154R, 78-285, 78-312

16-SR6 and 16-SR7 Reservoirs
 (Name of Facility)

This permit hereby authorizes the applicant:

Banner Associates (AGENT)
 (Last) (First) (Middle)
P. O. Box 550
 (Street or P.O. Box)
Laramie Albany Wyoming 82070
 (City) (County) (State)

to construct, install, or modify a Stormwater Runoff Ponds
 facility located in Section 16, T43N, R70W
 (Legal Description)

in the County of Campbell, 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 P. Janda
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

June 15, 1978

Date of Issuance

cc: Thunder Basin Coal Company, ATTN: E. M. Sunwoo, P. O. Box 1569, Gillette, WY
 Atlantic Richfield, Coal Operations, ATTN: D. R. Christiansen, 1500 Security
 Life Building, 1616 Glenarm Place, Denver, CO 80202

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Black Thunder Mine, 16-SR6 and 16-SR7 Reservoirs, Section 16,
T42N, R79W, Campbell County

ARCHITECT OR ENGINEER: Banner Associates, Inc., ATTN: Joseph C. Lord, P.E.,
P. O. Box 550, Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 78-211

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: June 2, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Two (2) copies of all plans and specifications are needed. One set shall be returned to you upon our approval.
- 2). Complete design criteria for sizing is needed (i.e. runoff area, runoff flow, equations, sediment loadings, etc.).
- 3). Soil information is needed for the reservoir and diking (i.e. classification, seepage rates, etc.).
- 4). Indicate the distance to groundwater.
- 5). The discharge permit requires flow measuring. Provide details.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-212M

Sweetwater County Fairgrounds No. 2
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Sweetwater County Fair Board</u>		
(Last)	(First)	(Middle)
<u>P. O. Box 1633</u>		
(Street or P.O. Box)		
<u>Rock Springs</u>	<u>Sweetwater</u>	<u>Wyoming 82901</u>
(City)	(County)	(State)

to construct, install, or modify a Water Main Extension and Septic Tank
facility located in Section 10, T19N, R105W
(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 J. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 17, 1978

Date of Issuance
cc: Johnson-Fermelia & Crank, Inc., P. O. Box 1633, Rock Springs, Wyoming
82901

mailed
11/2/28

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-213MRR

Water Distribution System
(Name of Facility)

This permit hereby authorizes the applicant:

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

Drawer 789
(Street or P.O. Box)

Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install, or modify a Water Distribution System
facility located in Section 7, T33N, R79W
(Legal Description)

in the County of Natrona, 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. Johnson
Administrator
Water Quality Division

[Signature]
Director
Wyoming Dept. of Environmental Quality

October 24, 1978

Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

*mailed -
8/11/78*

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

PROJECT: Water Main Improvements for Town of Mills

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-213MR

REVIEWING ENGINEER: Robert H. Pinther, P.E.; Jake Stronman, P.E.

DATE OF REVIEW: 8/22/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The comments listed below were brought to the attention of Mr. Bob Moore, Manager of Wardwell Water & Sewer District, by telephone on 8/21/78.

1. The following items should be added to the specifications for the "pipe in sleeve" at the railroad crossing:
 - a. The skids should be (1) thick enough to protect the bell from resting on the sleeve (2) notched to receive the bands that hold them in place (3) rounded on their "leading" or forward ends.
 - b. Seal the annular spaces at the ends to prevent flooding and the resulting floatation movement of the inner pipeline.
 - c. Provide a standard design sketch.
2. Section 1.1 of the specifications - Rock excavation shall be provided for a minimum of six inches bottom and side clearance.
3. Section 5 of the specifications - Materials - Omit specification covering ABS and Acrylaniteile or unplasticized Polyvinyl chloride plastic pipe.

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water Main Improvements for Town of Mills, Mills, Wyoming

ARCHITECT OR ENGINEER: Worthington, Lenhart, & Carpenter, Inc. 632 South David Street
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-213M

REVIEWING ENGINEER: Robert H. Pinther, P.E.



DATE OF REVIEW: June 26, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS: Submit addenda covering the requirements set forth below:

1. Provide valves at each block interval or 800 foot intervals in Northwestern Avenue.
2. Provide another valve in the water line on Platte Avenue between 2nd Street and 6th Street.
3. Submit plans and specifications covering the installation of the pipe through the casing at the railroad crossing. Since PVC pipe will be used, a non-petroleum product such as "drilling mud" or "flaxsoap" should be used to lubricate the skids.
4. Required and recommended changes in specifications:
 - a. Section 1.1 - Rock excavation shall be provided for a minimum of six inches of bottom and side clearance. (Reference - Ten State Standards for Water Works, Sec. 8.5.2)
 - b. Section 1.2, Backfill - Recommend that a power ram be used only if the bedding, haunching, and backfill is highly compacted and that at least three feet of cover exists over the top of the pipe. Any specifications less stringent could lead to damaging the pipe.
 - c. Section 4.1.1., Cast Iron Pipe & Fittings - All cast iron and ductile iron pipe and fittings shall meet the AWWA Standards.
 - d. Section 4.1.2, Asbestos Cement Pipe & Fitting - All asbestos cement pipe and fittings shall meet AWWA Standard C400-77 or C402-77.
 - e. Section 4.1.3, PVC Pipe & Fittings - ASTM D2241 is not a federal specification. Referring to the "latest revision" of AWWA Standards is recommended. In this case the latest revisions are C-110-71 and C-104-74.
 - f. Section 4.1.4, Gatevalves, Valve Boxes, & Fire Hydrants, Paragraph should refer to the latest revision of AWWA C502.
 - g. Section 4.2.2, Installation of Cast Iron Pipe & Fittings - Cast iron pipe should be installed in accordance with the latest revision of AWWA C600.
 - h. Section 4.2.3, Installation of PVC Pipe & Fittings - PVC pipe should be installed in accordance with ASTM D2772-72 or Uni-bell

B-3-77 specifications.

- i. Section 4.2.4., Installation of Asbestos Cement Pipe & Fittings - AC pipe should be installed in accordance with AWWA 603, latest revision.
- j. Section 5, Materials - PVC pipe shall be in compliance with the latest revision of AWWA standard C900.
- k. Section 7, Gate Valves - All gate valves shall meet the latest revision of AWWA C500 which is C500-71.
- l. Section 8, Materials - All fittings shall meet the latest revision of AWWA C110 which is AWWA C110-71. Rubber gasket joints shall conform to the latest revision of C111 which is C111-72.

/clf

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-214R

Walport Addition
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Walport</u> (Last)	<u>Fred</u> (First)	<u></u> (Middle)
<u>c/o The Engineers</u> <u>644 West 14th Street</u> (Street or P.O. Box)		
<u>Casper</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82601</u> (State)

to construct, install, or modify a Water and Sewer Extensions
facility located in Section 1, T33N, R80W
(Legal Description)

in the County of Natrona, 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. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

June 14, 1978

Date of Issuance

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

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Walport Addition - Brooks Water & Sewer
Natrona County

ARCHITECT OR ENGINEER: The Engineers, 644 West 14th, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-214

REVIEWING ENGINEER: Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: May 12, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

It is requested that two (2) copies of plans and specifications be submitted for each project for which application is made.

SEWER

- 1). The trenching specification (Section 1), does not provide adequate embedment for plastic sewer pipe. The statement "The subgrade beneath the centerline of the pipe shall be fine-graded. . . and shall be finished to within 0.10 foot of a straight line between pipe joints" is insufficient. Subgrade be finished smooth, and it is recommended that the trench bottom be shaped to conform to the bottom one-fourth (1/4) of the pipe.

Also, the backfill under the haunches of the pipe, up to the spring line, should be compacted to at least 85% (preferably 90%) Standard Proctor Density, prior to adding backfill above the spring line. The requirement can be waived when the embedment material is angular graded stone of 1/4 to 1-1/2 inches.

The proper standard is ASTM D-2321, "Standard Recommended Practice for Underground Installation of Flexible Thermoplastic Sewer Pipe".

- 2). The sewer pipe material shown on the drawings is intended for water service. This does not violate standards, but is mentioned as a comment.
- 3). No infiltration or exfiltration test is specified for sewers. Maximum allowable infiltration is 200 gallons per inch diameter per mile per day.

PAGE 2

PROJECT: Walport Addition

WATER QUALITY REFERENCE NUMBER: 78-214

SEWER SYSTEM (CONT)

- 4). Sewer tap materials and methods are not specified.
- 5). Manhole construction methods are not specified, nor are any detail drawings provided. (If these specifications are to be used for the Brooks Water and Sewer District, a drop manhole detail will also be required).
- 6). No specification is provided for minimum separation of water and sewer lines or for the protection of water mains at water/sewer crossings. This does not appear to be a problem on this project, but will be needed for standard specifications. The requirements are outlined in Wyoming Water Quality Rules and Regulations.

WATER SYSTEM

- 1). Sections 1, 4 and 5 are overlapping and conflicting and also conflict with the pipe specification shown on the plans. The only PVC water main standard accepted by this office is AWWA C-900. This office is not aware of any ABS pipe currently being manufactured for water main service.

Also, note that class 160 pipe is specifically not allowed for water main service. Commercial specifications do not generally come up to the AWWA specifications.

The proper plastic water pipe installation specification is Uni-Bell UNI-B-3-77.

- 2). The proper standards for cast iron pipe are AWWA C 106 or C 108; for ductile iron (which has generally superceded cast iron in general use) AWWA C 151; and for asbestos cement pipe AWWA C 400.
- 3). The proper standard for gate valves is AWWA C 500; for fire hydrants C 502; and for butterfly valves C 504. Hydrant detail drawings should be provided. Concrete valve pads are recommended.
- 4). Test pressure for the water mains should be specified as a) 50% greater than the usual system pressure, or b) 50 psi greater than usual system pressure, whichever is less.

PAGE 3

PROJECT: Walport Addition

WATER QUALITY REFERENCE NUMBER: 78-214

WATER SYSTEM (CONT)

- 5). Ten State Standards require that water mains be looped. The proposed water main shall be continued, on Oregon Trail, at least as far as Seventh Avenue, to affect a loop. Strong justification will be needed to eliminate this requirement. Adequate valving should also be provided.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-215M

Medicine Bow Water Transmission Line
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Medicine Bow
(Last) (First) (Middle)

P.O. Box 156
(Street or P.O. Box)

Medicine Bow Carbon Wyoming 82329
(City) (County) (State)

to construct, install, or modify a water transmission
facility located in Sec8-12 T22N R78W(Carbon Co), Sec4-9 T22N R77W (Albany Co)
(Legal Description)

in the County of Albany & Carbon, 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 J. Ojala
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

6-29-78

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-216

East Gas Hills Heap Leach
(Name of Facility)

This permit hereby authorizes the applicant:

Union Carbide Corporation
(Last) (First) (Middle)
Metals Division
P. O. Box 1029
(Street or P.O. Box)
Grand Junction Colorado 81501
(City) (County) (State)

to construct, install, or modify a Leach Heap Base and Liner
facility located in Section 15, T33N, R89W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William P. Gale
Administrator
Water Quality Division

Robert E. Burdick
Director
Wyoming Dept. of Environmental Quality

June 19, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-217M

Sewer Main Extensions to Sunrise IV Addition
(Name of Facility)

This permit hereby authorizes the applicant:

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

to construct, install, or modify a Water Distribution & Sewer Collection System
facility located in Casper Wyoming
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William L. Galand
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 11, 1978

Date of Issuance

cc: Worthington, Lenhart & Carpenter, 632 South David Street, Casper, WY 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Casper Sunrise Hills IV Replat Sewer Main Extensions on
Lake Road, Deer Run and Oak Street - Natrona County

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., 632 South
David, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-217M

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

DATE OF REVIEW: May 10, 1978

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

The Director of the Casper Board of Public Utilities has given verbal assurance that all design will be in compliance with the State standards known as the "Ten State Standards". In those instances where the mains have been designed using certain sections of the Casper 1978 Standards which are less stringent than the Ten State Standards it will be necessary to redesign to comply with the latter. To obtain compliance the following section of the Ten State Standards for Sewage Works shall be incorporated into the specifications:

Section 25.8 Joints and Infiltration

cc: Casper Board of Public Utilities
200 North David Street
Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-218

Gomez Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Gomez</u> (Last)	<u>Moises</u> (First)	<u>Gilbert</u> (Middle)
<u>101 County Road</u> (Street or P.O. Box)		
<u>Evanston</u> (City)	<u>Uinta</u> (County)	<u>Wyoming 82930</u> (State)

to construct, install, or modify a Water and Wastewater Distribution
facility located in Section 16, T15N, R120W
(Legal Description)

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

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Eundin
Director
Wyoming Dept. of Environmental Quality

May 25, 1978

Date of Issuance

cc: Uinta Engineering, ATTN: John Proffit, 808 Main Street, P. O. Box 746,
Evanston, Wyoming 82930

78-219M

May 17, 1978

Mr. Roger L. Jacobson
Engineering Associates
P. O. Box 1539
Cody, Wyoming 82414

RE: 78-219M O & M Manuals
Thermopolis Wyoming

Dear Mr. Jacobson:

Please excuse our long delay in replying to your letter of April 26, 1978 and its attached Volume II of the O & M Manual for the Secondary Treatment Addition to the Thermopolis Wastewater Treatment Plant.

This Department has had an opportunity to review the Volume II and has found it to be satisfactory. Please be informed that it is approved as such. The minor revisions to the final draft of Volume I of the O & M Manual are also satisfactory.

If we can be of further assistance, please contact our office.

Yours truly,

Frank R. Harman

Frank R. Harman, P.E.
Environmental Engineer

FRH/do

cc

ENGINEERING ASSOCIATES

78-219M
Ry. 76-244
APR 28 1978

P. O. BOX 1539 • CODY, WYOMING 82414

OFFICES • CODY: 902 13th St • POWELL: 116 E. 2nd. St.
TELEPHONES • 307-587-4911 307-754-5113

CONSULTING ENGINEERS & SURVEYORS

April 26, 1978

Mr. Paul Schwieger
Department of Environmental Quality
Water Quality Division
Hathaway Building
Cheyenne, Wyoming 82002



Subject: O & M Manual
Secondary Treatment Addition
Thermopolis, Wyoming

Dear Paul:

Subsequent to our recent telephone conversation regarding the subject manual, I am transmitting herewith, three copies of some minor revisions to the final draft of Volume I of the manual for updating the DEQ and EPA copies and one copy of Volume II of the manual for your files. The changes in Volume I are as follows:

1. The word "Draft" has been removed from the title page.
2. Page 109 - Ammonia Nitrogen has been added to the list of laboratory tests.
3. Figure 37 - Revised during lab set up.
4. Chapter VI - A folder of lab procedures to be followed for various tests, developed for the new equipment, should be incorporated at the end of this chapter.
5. Appendix - Revisions in the valve indices and diagram to incorporate Change Order No. 3.

Please incorporate the above changes into the final draft. Volume I, which was transmitted to DEQ in August of 1976, revised per DEQ comments made in a December 1976 meeting and which you have indicated is acceptable, is as complete as possible. I am sure you can appreciate, Paul, that revisions may have to be made in Volume I after start up. Any revisions necessary will be forwarded to you.

Mr. Paul Schwieger
April 26, 1978
Page Two

Volume II contains shop drawings and maintenance data. Please be advised that the only complete copy of Volume II for the entire facility is on site at the Thermopolis Wastewater Treatment Plant. Only one copy of maintenance and shop drawing data exists for the original plant which was constructed in 1959. We have incorporated this data into a five notebook set in Volume II. All other copies of Volume II contain only the data for equipment installed under the Secondary Treatment Addition in a two note book set.

It was indicated at the preconstruction conference that the EPA was not interested in receiving a copy of the shop drawing type information contained in Volume II. Because of this and the short supply of some shop data, we have transmitted only one copy of Volume II for your files. Mr. Jake Strohman indicated at that meeting that the DEQ would want a copy of the shop data.

Volume III of the manual will be developed as a training aid during start-up. Volume III will contain the card file system. (Sample shown in Figure 42). During start-up, it is our intention to familiarize the plant personnel with Volume II by having them develop Volume III. Once developed, Volume III will be an easily assessable source of pertinent information for most data contained in the voluminous Volume II. We also anticipate extracting a lubrication master sheet from the data contained in Volume III. Once completed, we will transmit a copy of this information to you if you want it.

This completes all transmittals on the O & M Manual save those possibilities indicated above. Should you have any question, please contact me.

Very truly yours,

Engineering Associates



Roger L. Jacobson

Attachments

RLJ:ls

cc: Town of Thermopolis
77026 Correspondence

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-220M

Wardwell Water and Sewer District
(Name of Facility)

This permit hereby authorizes the applicant:

Wardwell Water and Sewer District

(Last)

(First)

(Middle)

7185 Salt Creek Highway

(Street or P.O. Box)

Mills

(City)

Natrona

(County)

Wyoming 82644

(State)

to construct, install, or modify a Variable Speed Booster Station

facility located in Section 32, T33, R79

(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 6, 1978

Date of Issuance

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-221R

Sleepy Hollow Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Suchor Investments, Inc.
 (Last) (First) (Middle)

1601 4-J Road
 (Street or P.O. Box)

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

to construct, install, or modify a water distribution & sewer collection
 facility located in Sec 7,17 T49N R71W
 (Legal Description)

in the County of Campbell, 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.
 NOTE: No homes in Sleepy Hollow Sub. are to be occupied until the water and
 sewage treatment systems have been approved and completed.

Authorized by:

William P. Paulson
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

6-29-78
 Date of Issuance

cc: Larsen Engineering, 310 Miller, Gillette, Wy 82716
 Mal Crawford, County Sanitarian

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sleepy Hollow Subdivision - Wastewater Collection and Water Distribution System - Section 17, T49N, R71W - Campbell County

ARCHITECT OR ENGINEER: Larson Engineering, ATTN: Russell Larson, P.E.,
310 Miller Street, Suite K, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-221

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: May 12, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Specify detailed infiltration and exfiltration testing specifications.
- 2). An alignment specification between manholes is needed.
- 3). Specify exact referenced standards for valves and hydrants.
- 4). The water lines shall be pressure and leakage tested in accordance to AWWA C600 or UNI-B-3-77. This requires no less than a one hour pressure test and a two hour leakage test.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-222

A & W Drive In Water Extension
(Name of Facility)

This permit hereby authorizes the applicant:

Zimmerschied Robert
(Last) (First) (Middle)

P. O. Box 217
(Street or P.O. Box)

Buffalo Johnson Wyoming 82834
(City) (County) (State)

to construct, install, or modify a Water Extension
facility located in Section 26 & 35, T51N, R82W
(Legal Description)

in the County of Johnson, 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 S. Gales
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 25, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-223

Commercial Tract Service Systems
(Name of Facility)

This permit hereby authorizes the applicant:

Housing Services, Inc.
(Last) (First) (Middle)
1500 Security Life Building
(Street or P.O. Box)
Denver Colorado 80202
(City) (County) (State)

to construct, install, or modify a Water and Sewer Extensions
facility located in Section 27, T44N, R72W
(Legal Description)

in the County of Campbell, 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.

NOTE: This permit will serve as an approval for those portions of the systems
already constructed.

Authorized by:

William S. Galar
Administrator
Water Quality Division

Robert E. Aurdin
Director
Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance
cc: Malcolm Crawford

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-224R

Oil Well Perforators

(Name of Facility)

This permit hereby authorizes the applicant:

SPIVA Backhoe Service

(Last)

(First)

(Middle)

P. O. Box 122

(Street or P.O. Box)

Mills

(City)

Natrona

(County)

Wyoming 82601

(State)

to construct, install, or modify a Septic Tank-Leach Field

facility located in Section 27, T34N, R80W
(Legal Description)

in the County of Natrona, in the State of

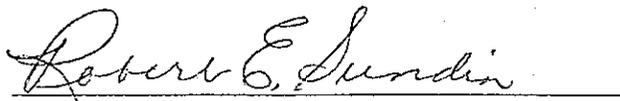
Wyoming. This permit shall be effective for a period of 2 years

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

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

Authorized by:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

May 23, 1978

Date of Issuance

cc: Western Construction, Inc., P. O. Box 930, Casper, Wyoming 82601
ATTN: Ed Rate, P.E.

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Oil Well Perforators - Waste Treatment Facility - Section 27,
T34N, R80W - Natrona County

ARCHITECT OR ENGINEER: Western Construction, ATTN: Ed Rate, P.E., P. O. Box 930,
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-224

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: May 11, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The septic tank for the sanitary wastewater should be sized no less than 150% daily flow.
- 2). A leach bed should be sized at least 150% the size of a conventional leaching trench system in leaching area.

cc: Nix Anderson
Sanitarian
241 South Conwell
Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-225

Craig Skogen - Residential

(Name of Facility)

This permit hereby authorizes the applicant:

SPIVA Backhoe Service

(Last) (First) (Middle)

P. O. Box 122

(Street or P.O. Box)

Mills Natrona Wyoming 82644

(City) (County) (State)

to construct, install, or modify a Individual Wastewater

facility located in Section 27, T33N, R81W

(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance

cc: Western Construction, Inc., P. O. Box 930, Casper, Wyoming 82601
ATTN: Edwin Rate, P.E.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-226

Wyoming Beverages, Inc.

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Beverages, Inc.

(Last)

(First)

(Middle)

P. O. Box 18

(Street or P.O. Box)

Worland

Washakie

Wyoming 82401

(City)

(County)

(State)

to construct, install, or modify a Septic Tank - Leach Field

facility located in Section 3, T33N, R80W

(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William J. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance

cc: Fiske Consulting Engineers, 1216 16th West, Suite 26, Billings, Montana 59102

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-228

Emerick and Hill, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Sasser Stephen
(Last) (First) (Middle)
513 North Lennox
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 32, T34N, R79W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance

cc: Worthington, Lenhart & Carpenter, Inc., 632 South David, Casper, WY 82601
Nix Anderson, Sanitarian

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-229R

Reid Drilling
(Name of Facility)

This permit hereby authorizes the applicant:

Sasser Stephen
(Last) (First) (Middle)

513 North Lennox
(Street or P.O. Box)

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

to construct, install, or modify a Septic Tank - Leach Fields
facility located in Section 32, T34N, R79W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William L. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 18, 1978
Date of Issuance
cc: Worthington, Lenhart & Carpenter, Inc., 632 South David, Casper, WY 82601

js

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Reid Drilling, Waste Treatment Facility, Section 32, T34N,
R79W - Natrona County

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., ATTN: E. C.
Lenhart, P.E., 632 South David, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-229

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: May 12, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The sanitary wastewater septic tank must be sized for at least 36 hours detention time.
- 2). A leaching bed must be sized with at least 150% of the leaching area of a conventional trench system. For a flow of 1150 gpd, at a percolation rate of 6 minutes/inch, you would need at least 845 square feet of leaching bed area.

cc: Nix Anderson
Natrona County Sanitarian
241 South Conwell
Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-230

Prewitt Realty
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Popish</u> (Last)	<u>Dale</u> (First)	<u>R.</u> (Middle)
<u>133 West 6th</u> (Street or P.O. Box)		
<u>Casper</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82601</u> (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 32, T34N, R79W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Shardin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance
cc: Worthington, Lenhart & Carpenter, Inc., 632 South David, Casper, WY 82601
Nix Anderson, Sanitarian

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: SKYLINE SUBDIVISION

ARCHITECT OR ENGINEER: K & M VENTURES, Applicant

George W. Tresler, P.E.

P.O. BOX 1889,

P.O. Box 1050 Cody, Wyo.

CODY, WYO. 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-231R

REVIEWING ENGINEER: RICK ENGELMANN, ROY E. PRIOR, P.E.

DATE OF REVIEW: SEPTEMBER 26, 1978.

ACTION: NOT AUTHORIZED.

COMMENTS:

1. What is a standard manhole? Whose standard?
2. The PVC wyes - are they single piece or saddle wyes?
3. You did not include typical drawings of the water taps, sewer taps, and manholes as requested in the previous review.
4. Where did you get the 55 psi figure for the city water main?
5. Concerning the ability of the existing sewer to handle the new flow, how do you know it can? Has the city told you this, or what?
6. How much vertical separation is there between the sewer service connections and the water lines?

Book

REVIEW OF PLANS AND SPECIFICATIONS

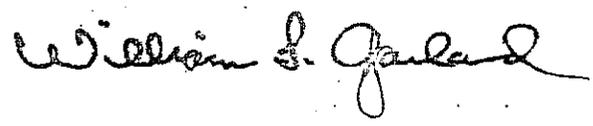
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Townhouse, Lot 11, Block 4, Skyline Subdivision

ARCHITECT OR ENGINEER: George W. Tresler, Architect, P. O. Box 1050, Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-231

REVIEWING ENGINEER: Roy E. Prior



DATE OF REVIEW: 6/20/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Complete and return the enclosed application for a permit to construct.
2. Provide location map for the subdivision.
3. Provide profile of the sewer line.
4. Provide typical drawings of the water taps, sewer taps, & manholes.
5. Provide sewer flow calculations and water flow and pressure calculations.
6. Will the existing sewer handle the additional flow?
7. This cannot be considered a final review.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 6, 1978

George W. Tresler
Architect
P. O. Box 1050
Cody, WY 82414

Subject: Townhouses, Lot 11, Block 4,
Skyline Subdivision

Dear Mr. Tresler;

Ref: WQD No. 78-231

It is our understanding that the referenced facility has been constructed. The Water Quality Division will not issue a permit to construct for facilities that have been constructed. We will review the plans to see if they meet the state standards.

Enclosed is a copy of the review of the plans and specifications as submitted. Additional information will be needed to complete the review.

Sincerely,

A handwritten signature in cursive script, appearing to read "Roy E. Prior".

Roy E. Prior
Environmental Engineer
Water Quality Division

Enclosure

REP/cif



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 22, 1978

Minerals Exploration Company
Sweetwater Uranium Project
P. O. Box 1500
Rawlins, Wyoming 82301

RE: "As Built" Work Camp Sanitary
Wastewater Facilities, 78-232

ATTN: L. G. Dykes, General Manager

Dear Mr. Dykers,

From the additional information provided it appears the "as built" system is adequately sized for the present usage and is constructed in accordance to our standards. Since the camp was constructed in 1975, no "Permit to Construct" will be issued.

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

Sincerely,

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

David W. Hill
Environmental Engineer

.DWH/clf

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-233R

Tract D & E Sewer
(Name of Facility)

This permit hereby authorizes the applicant:

Scott Engineering Company
(Last) (First) (Middle)
ATTN: Wayne Haug, P.E.
P. O. Box 2097
(Street or P.O. Box)

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

to construct, install, or modify a Sewer Line Extension
facility located in Section 26, T50N, R72W
(Legal Description)

in the County of Campbell, 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 S. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

June 23, 1978
Date of Issuance

cc: Malcolm Crawford, County Sanitarian

JS

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Tract D & E Sewer, Highway Addition
Campbell County

ARCHITECT OR ENGINEER: Wayne R. Haug, P.E., Scott Engineering Company,
P. O. Box 2097, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-233

REVIEWING ENGINEER: Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: May 18, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). A letter from the City of Gillette is needed, stating that the City approves the sewer line and will allow its connection to the municipal sewer system. Also, since the sewer extends over 400 feet between manholes, the City is requested to indicate that they have equipment capable of cleaning such a length of sewer line.
- 2). Is the service connection from manhole A going to serve just one building?

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Town of Ranchester Water Main Inspection~~

ARCHITECT OR ENGINEER: Walter J. Pilch & Associates
P. O. Box 6498
Sheridan, WY 82801

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-234MR~~

REVIEWING ENGINEER: Tom Mueller

William S. Garland

DATE OF REVIEW: 6/27/78.

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

Regarding the highway crossing:

- a. If PVC pipe is to be used as the carrier pipe inside the casing, skids to support the pipe will be absolutely required. This is in accordance with the recommendations of the Uni-Bell Plastic Pipe Association, whose members include nearly every major manufacturer of PVC pressure pipe.
- b. If ductile iron pipe is to be used as the carrier pipe, skids will not be required, although they are recommended to prevent the entire weight of the pipe from resting on the bells.

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Ranchester - Water Main Extension
Sheridan County

ARCHITECT OR ENGINEER: Walter J. Pilch & Associates, P. O. Box 6498,
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 78-234M

REVIEWING ENGINEER: Dan H. Kim ^{DK} William L. Garland, P.E.

DATE OF REVIEW: May 30, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). We are concerned about the new 6" line with fire hydrants to be fed by the existing 2" & 4" lines. Please verify that the 6" line will be capable of delivering sufficient flow and pressure (i.e. Hardy-Cross or equal).

Have you considered connecting 6" line to the existing 50,000 gallon water storage tank?

- 2). Details of highway crossing should be provided. The information should include installation procedures, type and number of skids and position braces, details of sealing of the annular spaces (i.e. material, thickness, installation), type of lubricant to be used when pulling or pushing the carrier pipe, etc.
- 3). Typical drawings of thrust blocks should be provided, including bearing area, concrete strength, etc.
- 4). Disinfection of the water line shall comply with AWWA C601-68. The application of chlorine shall be at a rate of no less than 50 mg/l with a residual at the end of 24 hours of no less than 25 mg/l.
- 5). This cannot be considered a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-235M

Town of Dayton/Tongue River High School Sewer Extension
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Dayton
(Last) (First) (Middle)
c/o Walter J. Pilch
P. O. Box 6498
(Street or P.O. Box)
Sheridan Sheridan Wyoming 82801
(City) (County) (State)

to construct, install, or modify a Sewer Extension
facility located in Section 32, T57, R86
(Legal Description)

in the County of Sheridan, 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 J. Quinn
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 6, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-236R

Cheyenne Shrine Club
(Name of Facility)

This permit hereby authorizes the applicant:

Cheyenne Shrine Club
(Last) (First) (Middle)
c/o D. M. Hopkins & Associates
216 East 17th
(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Septic Wastewater System
facility located in Section 6, T14N, R66W
(Legal Description)

in the County of Laramie, 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. Galand
Administrator
Water Quality Division

Robert E. Anderson
Director
Wyoming Dept. of Environmental Quality

June 14, 1978
Date of Issuance

JS

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cheyenne Shrine Club Septic System - Laramie County

ARCHITECT OR ENGINEER: D. M. Hopkins and Associates, 216 East 17th,
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-236

REVIEWING ENGINEER: Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: May 19, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

- 1). The leach field lines must be connected by additional lines along the ends.
- 2). The actual septic tank capacity (including the discharge tank as a second compartment) is only 1120 gallons. A minimum of 2000 gallons capacity is required. If two compartments are to be used, the first compartment should hold no more than two-thirds of the total tank capacity.
- 3). The grease trap should discharge into the first compartment of the septic tank. If there is to be a garbage grinder in the building kitchen, it should be routed directly to the septic tank without going through the septic tank.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-237

K & D Pallets Wastewater

(Name of Facility)

This permit hereby authorizes the applicant:

Davis
(Last)

George
(First)

V.
(Middle)

42 Dahlia Street

(Street or P.O. Box)

Casper
(City)

Natrona
(County)

Wyoming 82601
(State)

to construct, install, or modify a Septic Wastewater

facility located in Section 28, T34N, R80W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William J. Gaud
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 22, 1978

Date of Issuance

cc: Pat Cullen, P.E., Doyle, Cullen, Doyle Enterprises, P. O. Box 756, Laramie, Wyoming 82070

mailed
10/11/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-238MRR

Water Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Douglas
 (Last) (First) (Middle)

130 South Third Street
 (Street or P.O. Box)

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

to construct, install, or modify a water treatment plant
 facility located in Section 8, T32N, R71W
 (Legal Description)

in the County of Converse, 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. Anderson
 Director
 Wyoming Dept. of Environmental Quality

September 28, 1978
 Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Douglas Water Treatment Plant - Converse County

ARCHITECT OR ENGINEER: Henningson, Durham & Richardson, Inc., 310
Capital Life Center, Denver, CO 80203

WATER QUALITY DIVISION REFERENCE NUMBER: 78-238MRR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: 9/27/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. General

1. Backflow Prevention

Which vacuum breaker serves the water piping system which delivers water to the chemical feeder equipment? Note: The breaker which serves the plant laboratory and/or drinking & sanitary systems shall not serve any piping system which delivers water to the chemical feeder equipment.

B. Clarification

1. Series & Parallel Operation

- a. To avoid turbulent flow and floc break-up the BF valve and short connecting pipe in the "Series Conn." system shall be 18" in diameter rather than 16".
- b. To make full use of the sedimentation available during series flow, carry the "24 inch Series Conn." pipe to a point immediately up-stream from the sedimentation chamber influent baffle.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Douglas Water Treatment Plant - Douglas, Wyoming - Converse County

ARCHITECT OR ENGINEER: Henningson, Durham & Richardson, Inc., 310 Capitol
Life Center, Denver, CO 80203

WATER QUALITY DIVISION REFERENCE NUMBER: 78-238MRR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

Robert H. Pinther

DATE OF REVIEW: September 15, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS:

I. Construction will be authorized upon receipt of revised plans or addenda covering compliance with the comments set forth below which are marked with an asterisk.

II. Abbreviations used in this review are described below:

- (1) "Ref." - refers to the comment number in our review of 8-14-78
- (2) "Pt. #__, Ten St. Stds." refers to "Part #__, Ten State Standards, 1968-72 Edition"

A. General

*1. (Ref. #3) Proper protection against backflow

B. Clarification

*1. (Ref. #1) Series and parallel Operation

C. Flocculation

*1.b. Baffling

D. Chemical Application

1. Caustic Soda Hazard (Recommendation)

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Douglas Water Treatment Plant - Douglas, Wyoming - Converse County

ARCHITECT OR ENGINEER: Henningson, Durham & Richardson, Inc., 310 Capitol
Life Center, Denver, CO 80203

WATER QUALITY DIVISION REFERENCE NUMBER: 78-238MRR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

Robert H. Pinther

DATE OF REVIEW: September 15, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS:

E. Clearwell

1. (Ref. #1) Location of Clearwell in Respect to the Ground Water Level

F. Pumping Facilities

1. (Ref. #1) Floor Elevation of the Raw and Finished Water Pump Station

cc: City of Douglas
(Attn: Honorable Carl E. Nauta, Mayor
William A. Galletley, Town Administrator
130 South Third Street
Douglas, Wyoming

U.S. Environmental Protection Agency
Water Division
1860 Lincoln Street
Denver, Colorado 80295

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Douglas Water Treatment Plant, Douglas, Wyo., Converse County

ARCHITECT OR ENGINEER: Henningson, Durham & Richardson, Inc.
310 Capitol Life Center, Denver, Co. 80203

WATER QUALITY DIVISION REFERENCE NUMBER: 78-238MR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

Robert H. Pinther

DATE OF REVIEW: August 14, 1978

ACTION: CONSTRUCTION NOT AUTHORIZED

COMMENTS: Abbreviations used in this review are described below:

- (1) "Ref." - refers to the comment number in our review of 6-14-78
- (2) "Pt. #___, Ten St. Stds. refers to "Part #___, Ten State Standards, 1968-72 Edition"

A. General

1. (Ref. #5) Metallic Taps for Bacteriological Sampling
Not in compliance. Taps for obtaining bacteriological water samples shall be of the metallic smooth-nosed type and free flowing to allow disinfection of the spout with an externally applied flame.
2. (Ref. #7) Sewer Service Line from Filter Building
Compliance indicated on sheets G-3 and G-5.
Not in compliance on sheet PH-2.
3. (Ref. #11) Proper Protection against Backflow
Partial compliance indicated. However, the plans should indicate clearly that the building plumbing fixtures are not served by the same backflow preventer that serves the water pipes leading to any of the chemical feeding or mixing equipment.
4. Hose bibbs
Provide hose bibbs throughout the plant to facilitate maintenance of plant cleanliness. This should include, but not necessarily be limited to, the operating floor cooridor, chemical storage area, filter gallery, and pumproom.

5. Floor Drains

Provide floor drains for the operating floor cooridor.

B. Clarification

1. (Ref. #2) Series and Parallel Operation

Not in compliance with Pt. #4.1,b Ten St. Stds.

It is recommended that the design will permit the sedimentation basins to operate in series or parallel. This will help assure proper clarification and is a compulsory requirement of the latest Edition of the Ten States Standards.

C. Flocculation

1. Baffling

In accordance with Pt. #4.1,3a, Ten St. Stds.:

- a. To reduce short circuiting flow provide vertical baffles between the paddle wheel units.
- b. Provide a permeable baffle discharging the flocculated water into the sedimentation basin to assure uniform horizontal and vertical distribution of settling basin inflow.

D. Sedimentation & Sludge Handling

1. (Ref. #1) Detention Time

Compliance indicated. However, the overall lengths of the flocculation-sedimentation units on sheets S-11, S-12, M-13, and M-14 do not reflect this increase in length.

2. (Ref. #3) Observation or Sampling Sludge

Not in compliance with Pt. #4.1.4k, Ten St. Stds.

Provision for observing or sampling sludge leaving the sedimentation tank is not shown.

E. Filtration

1. (Ref. #1) Filter to Waste

Not in compliance with Pt. #4.2.1.9, Ten St. Stds.

Means shall be provided for discharging filtered water from each filter to waste with appropriate measures for backflow prevention.

F. Chlorination

1. (Ref. #1) Points of Application

Not in compliance. Correct the discrepancies between the points of application listed on sheets M-12 and page 15.F-31(2)(j) of the specifications.

G. Chemical Application

1. Caustic Soda Hazard

The use of the hazardous chemical caustic soda for ph control is a serious safety hazard to all persons who enter the plant. One drop of caustic soda can cause the loss of sight in an eye and when it comes in contact with the skin, a serious burn occurs if it is not flushed off immediately. It is recommended that consideration be given to substituting soda ash or lime for caustic soda.

2. Protection of Caustic Soda

If this chemical is employed the following provisions will provide a measure of protection:

- a. Substitute steel storage tanks in place of the relatively brittle fibre glass tanks.
- b. Substitute cast iron pipe for the plastic pipe from the storage tanks to the feeder pumps.
- c. Provide a day tank for the caustic soda as indicated in comment G.5 below.
- d. Replace the aluminum gratings with steel gratings under the chemical storage tanks. (Aluminum reacts with caustic soda to provide the explosive gas, Hydrogen.)
- e. Increase the size of the floor drains under the chemical storage tanks to 4 inches.
- f. Provide heat as necessary to prevent the temperature of the caustic soda from dropping below its crystallization temperature (54°F for a 50% solution of sodium hydroxide).

3. (Ref. #2) Weighing Scales

Not in compliance with Pt. #5.1.6,c, Ten St. Stds.

It is recommended that a scale be provided for re-calibration as necessary.

4. (Ref. #3) Precision of Scale

Scale to measure increments of 0.5 percent of load.

5. (Ref. #4) Day Tanks

Not required for alum or polymer.

However, if caustic soda is used, a steel day tank for this chemical which holds no more than a 30 hour supply should be provided adjacent to the caustic soda feed pumps. This will eliminate the danger presented by a (PVC) pipe continually filled with caustic soda extending from the chemical storage room through the laboratory ceiling and down to the pump in the chemical feed room.

6. Spare Parts

Provide a spare parts kit for each chemical feeder.

H. Clearwell

1. (Ref. #1) Location of Clearwell in Respect to the Ground Water Level Not in compliance with Pt. #7.0.1 a and b of the Ten St. Stds. The bottom of ground level reservoirs should be placed at the normal ground surface and above maximum flood level. Where the bottom must be below normal ground surface, it should be placed above the ground water table.

Note: The engineer's design places the bottom of the clearwell 8.5 feet below the ground water table measured in February 1978. It will be about 11.5 feet into the water table during normal spring and summer high ground water levels.

The latest edition of the Ten State Standards prohibits locating of the bottom of the clearwell below the ground water table.

I. Pumping Facilities

1. (Ref. a) Floor Elevation of the Raw and Finished Water Pump Station Not in compliance with Pt. #6.3,c, Ten St. Stds. Both raw and finished water pump stations shall have floor elevations of at least 6 inches above finished grade.

Note: The engineer's design places all the pumps, both raw and finished water types, approximately 17.5 feet below finished grade.

cc: City of Douglas
(Attn: Honorable Carl E. Nauta, Mayor)
William A. Galletly, Town Administrator
130 South Third Street
Douglas, Wyoming

U.S. Environmental Protection Agency,
Water Division
1860 Lincoln Street
Denver, Colorado 80295

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Douglas Water Treatment Plant - Douglas, Wyoming - Converse County

ARCHITECT OR ENGINEER: Henningson, Durham & Richardson, Inc., 310 Capitol
Life Center, Denver, CO 80203

WATER QUALITY DIVISION REFERENCE NUMBER: 78-238M

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

DATE OF REVIEW: June 12, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. General

1. The open end of the air relief pipe at the high service main connection on sheet G-5 of the plans shall extend to at least two feet above grade and be provided with a screened, downward facing elbow.
2. Where the 20" high service main passes under the 36" CMP drain pipe carrying Antelope Creek waters, one full length of water pipe shall be located so both joints will be as far from the drain pipe as possible and adequate support shall be provided for the drain pipe.
3. The new blowoff valve on the 20" high service main shall discharge above flood level. A six inch vertical air-gap located above grade shall be provided if a discharge to the Antelope Creek 36 inch CMP drain pipe is employed.
4. Sample taps should be provided so that bacteriological water samples can be obtained from raw water, filter influent, filter effluent and finished water downstream from the clearwell.
5. Sampling taps used for obtaining samples for bacteriological analysis shall be of the metallic smooth-nosed type without interior or exterior threads and shall not have a screen, aerator or other such appurtenance.
6. Sampling lines for bacteriological test samples of finished water shall not be laid in the same trench with lines carrying water of a lower quality.
7. The filter building 6 inch sanitary sewer service line shall be constructed of extra heavy cast iron pipe with water tight joints from the point where it leaves the building until it reaches a distance of at least 50 feet from the clearwell.

PAGE 2

PROJECT: Douglas Water Treatment Plant - Converse County
COMMENTS (cont)

8. Specify that all plumbing shall be in compliance with the National Plumbing code or an equally stringent plumbing code.
9. Specify that the water supply to each water closet tank shall be protected against backflow by means of an elevated ball cock and vacuum breaker.
10. The use of the stop and waste type hydrants on the deck of the sedimentation tank as specified is not acceptable.
11. Proper protection against backflow shall be provided for the service water supply to the chlorinators, the activated carbon feed equipment, the water hydrants on the sedimentation-flocculation deck, the alum feed line and any other location where finished water is supplied without adequate protection against backflow.
12. Either plug the drain pipe from the "Existing Infiltration Basin #1" or provide a sampling point in the line as it could be used as an effluent pipe for "Filter Backwash Settling Basin No. 1" if not plugged.
13. Provide a sampling valve in the sludge and decant drawoff line in the centrally located valve vault at the sludge settling and filter backwash settling basins.
14. Add to the following to the Definitions in the specifications:

"Approved" shall mean "approved by the Engineer".

B. Clarification

1. Means shall be provided for dewatering the sedimentation-flocculation basins in a reasonable period of time.
2. The design should permit the basins to operate in series or parallel.

C. Flocculation

Agitators shall be driven by variable speed drives with the peripheral speed of paddles ranging from 0.5 to 2.0 feet per second.

D. Sedimentation & Sludge Handling

1. The sedimentation basin shall have a detention time of at least 4 hours.
2. Submit calculations which equate the discharge volume through the 58 submerged orifices to an overflow weir rate not exceeding 20,000 gallons per day per foot of weir length.

D. Sedimentation & Sludge Handling (cont)

2. NOTE: Are the submerged orifices 1-11/16 inches in diameter as indicated on sheet M-13 or 1-13/64 inches in diameter as indicated on sheet M-15?
3. Provision shall be made for the operator to observe or sample sludge being drawn from each unit.
4. Provide a cleanout in the sludge drain line at the point where it makes a 90° turn before discharging into "Sludge Settling Basin No. 2".

E. Filtration

1. Means shall be provided for discharging filtered water from each filter to waste with appropriate measures for backflow prevention.
2. An overflow shall be provided to prevent flooding.

F. Chlorination

1. Provisions should be made for applying chlorine to both the filter influent and effluent. This is in addition to application to the raw water and finished water in the high service main as specified in the plans.
2. The chlorine feed and storage rooms shall be:
 - a. Provided with shatter resistant inspection windows installed in interior walls.
 - b. Provided with doors opening only to the building exterior.
 - c. Provided with switches for fans and lights located outside the rooms near the entrances.
 - d. Served by exhaust fans which provide at least one air change per minute.
NOTE: The capacities of the fans specified could not be determined.
3. The gas mask shall be stored outside the chlorine storage and feed rooms.
4. The method of chlorine leak detection should be described. NOTE: We cannot find any description of the chlorine detector mentioned on page 17B-9 of the specifications.
5. Provide a standby injector water supply pump.

G. Chemical Application

1. Provisions shall be made to prevent spillage through the screened vents in the chemical feed pipes. This could occur due to a stoppage in the line downstream from one of the metering pumps.

G. Chemical Application (cont)

2. A weighing scale should be provided for the volumetric dry chemical carbon feeder.
3. The scale should be accurate to measure increments of 0.5 percent of load.
4. Day tanks shall be provided for those chemicals for which bulk storage is provided.
5. Day tanks should hold no more than a 30 hour supply.
6. Day tanks shall comply with all the requirements of paragraph 5.5.11, Day Tanks of the Ten State Standards.
7. Carts, elevators and other appropriate means shall be provided for lifting chemical containers to minimize excessive lifting by operator.

H. Clearwell

1. As indicated in our letter of June 9, 1978 to Mr. Karl D. Henricksen, the bottom of the clearwell at the subject plant shall be located at least two feet above the seasonal high groundwater level at the plant site.
2. An overflow should be provided.
3. The discharge of filtered water within the clearwell shall be located to obtain maximum separation from the high service pump suction intake.

I. Pumping Facilities

Both raw and finished water pumping stations shall:

- a. Have floor elevation of at least six inches above finished grade.
- b. Have outward opening doors.
- c. Provide a suitable outlet for drainage from pump glands without discharging onto the floor.

J. This is not a final review.

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-239R

West Thayne Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

SED LTD
 (Last) (First) (Middle)

5156 Cottonwood Lane
 (Street or P.O. Box)

Salt Lake City Utah 84117
 (City) (County) (State)

to construct, install, or modify a water distribution & sewer collection
 facility located in Sec23 T34N R119W
 (Legal Description)

in the County of Lincoln, 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 P. [Signature]
 Administrator
 Water Quality Division

Robert E. [Signature]
 Director
 Wyoming Dept. of Environmental Quality

6-29-78
 Date of Issuance

8/2

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: West Thayne Subdivision - Thayne, Wyoming
Lincoln County

ARCHITECT OR ENGINEER: J. J. Johnson & Associates, P. O. Box 1661,
Park City, Utah 84060

WATER QUALITY DIVISION REFERENCE NUMBER: 78-239

REVIEWING ENGINEER: Roy E. Prior - William L. Garland, P.E.

DATE OF REVIEW: May 23, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Submit completed applications for a permit to construct (copies enclosed).
- 2). The water pipe must meet AWWA C-900.
- 3). The infiltration, exfiltration in sewer lines cannot exceed 200 gallons per inch diameter per mile per day.
- 4). Provide disinfection specifications (see AWWA C-601).
- 5). Provide a letter from the Town of Thayne indicating they will provide the necessary services.
- 6). Provide specifications to prevent excessive sidefill pressures or ovalation of the sewer pipe.
- 7). The plan view shows 6 inch sewer line and the profiles show 8 inch sewer line. Please clarify (8 inch required).
- 8). This cannot be considered the final review.

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REVIEW OF PLANS AND SPECIFICATIONS

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

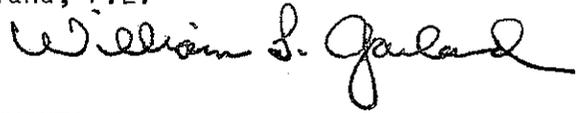
PROJECT: Rev. E. D. Beared Campground
Crook County

ARCHITECT OR ENGINEER: Kanti R. Patel, P.E., 310 4-J Road, Gillette,
Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-240

REVIEWING ENGINEER: Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: May 23, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

- 1). Septic tank "B", for the shower and toilet facilities, should have a minimum of 4000 gallons capacity.
- 2). It is felt that 30 gallons/person/day is a better figure for sewage and shower flow than 25. For this reason one (1) additional 60 foot leach trench should be added to the system.
- 3). No dump station has been included in the flow calculations for the system. Secondly, it presents the possibility of introducing toxic materials (heavy metals) into the groundwater. For these reasons, it shall be eliminated. If a trailer dump station is desired, it must have a separate disposal facility.
- 4). No permit will be issued for those portions of the facility which have already been built. However, there appears to be no problems with the kitchen portion of the facility. This is not an approval of the facility, but no enforcement action will be taken at this time.
- 5). Please submit two (2) copies of all plans and specification for review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-241

12" Water Main Extension

(Name of Facility)

This permit hereby authorizes the applicant:

Pacific Power & Light Company

(Last)

(First)

(Middle)

920 S.W. Sixth Avenue

(Street or P.O. Box)

Portland

(City)

(County)

Oregon 97204

(State)

to construct, install, or modify a Water Distribution

facility located in Section 26, T19N, R105W

(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 J. Gale

Administrator

Water Quality Division

Robert E. Sunden

Director

Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance

cc: Pacific Power & Light, Box 1200, Rock Springs, Wyoming 82901

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-242M

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

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a Water and Sewer System

facility located in McNamara Heights Addition

(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William P. Galano

Administrator
Water Quality Division

Robert E. Sundin

Director
Wyoming Dept. of Environmental Quality

May 18, 1978

Date of Issuance

cc: Worthington, Lenhart & Carpenter, 632 South David, Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Casper McNamara Heights Addition, Water & Sewer Main
Extensions - Natrona County

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Inc., 632 South
David Street - Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-242M

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

DATE OF REVIEW: May 11, 1978

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS: The following understanding was reached during our telephone
conversation of May 16, 1978 with Mr. C. O. Anderson, Assistant Superintendent,
Casper Board of Public Utilities.

- 1). Although a few manholes are very shallow, the sewer collectors will serve basements of all homes that could be constructed along the proposed collector system.
- 2). The 10" sewer is needed to serve future development to the west.
- 3). The sewer line along Mills Spur Road will be located at least two (2) feet from the edge of the easement.
- 4). The proposed 20" water main along the north side of State Highway 220 is a transmission main and will not have services connected to it.
- 5). To obtain compliance with the Wyoming Standards the following sections of the "Ten State Standards" shall be incorporated into the specifications for this project:
 - a. Standards for Water Works: Sections 8.6.3 Crossings and Sections 8.6.4 Exceptions
 - b. Standards for Sewage Works: Section 25.8 Joints and Infiltration

cc: Casper Board of Public Utilities
200 North David
Casper, Wyoming 82601

Jed

REVIEW OF PLANS AND SPECIFICATIONS

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

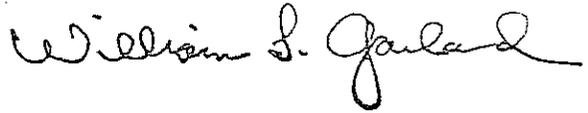
PROJECT: Jackson Hole Racquet Club Ventures - Water Well No. 2
Teton County

ARCHITECT OR ENGINEER: Willard Owens Associates, Inc., 7391 West 38th Avenue,
Wheatridge, Colorado 80033

WATER QUALITY DIVISION REFERENCE NUMBER: 78-243

REVIEWING ENGINEER: Roy E. Prior - William L. Garland, P.E.

DATE OF REVIEW: May 23, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Submit completed application for permit to construct (copies enclosed).
- 2). Submit specifications and information outlined in Section 3.2 of Ten State Standards (i.e. sanitary seal, piping, pump, valves, etc.).
- 3). Submit design criteria for pump and pump curve.
- 4). How will the well be hooked into the system? Provide details.
- 5). This cannot be considered a final review.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-244

Bi-Centennial Addition
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Lee</u> (Last)	<u>Kirk</u> (First)	<u></u> (Middle)
<u>W. Sunset & N 8th W</u> (Street or P.O. Box)		
<u>Riverton</u> (City)	<u>Fremont</u> (County)	<u>Wyoming 82501</u> (State)

to construct, install, or modify a Water Distribution & Wastewater Collection
facility located in Section 28, T1N, R4E
(Legal Description)

in the County of Fremont, 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 J. Galand
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance

cc: Inberg-Miller Engineering, P. O. Box 230, Riverton, Wyoming 82501

mailed
1/5/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-245RR

Wise Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

Wise Harold
(Last) (First) (Middle)

1019 Bristol
(Street or P.O. Box)

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

to construct, install, or modify a Water Distribution & Sewage Disposal
facility located in Section 20, T34N, R79W
(Legal Description)

in the County of Natrona, 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 J. Galad
Administrator
Water Quality Division

Robert E. Sordia
Director
Wyoming Dept. of Environmental Quality

December 17, 1978

Date of Issuance

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

js

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wise Mobile Home Park - Natrona County

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, ATTN: Mike Bell,
632 South David, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-245

REVIEWING ENGINEER: Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: May 25, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

WATER SYSTEM

1. The water taps for lots 1, 8, 9 and 18 on blocks 2, 3 and 4 are somewhat confusing. Where is water to be supplied from.
2. Water service to lots 19 and 20, block 1 is not to be provided from the fire hydrant branch line.
3. A mobile home water tap and connection detail is needed, in accordance with Chapter III, Water Quality Rules and Regulations.

SEWER SYSTEM

1. The Wardwell Water and Sewer District has no standard specifications for sewer construction. Complete specifications must be supplied.
2. Sewer profile drawings are required.
3. Manholes are required at the ends of all sewers over 150 feet long. Clean-outs are required at the ends of all sewers under 150 feet in length.
4. Curvilinear sewers are not acceptable and will not be approved.
5. A mobile home sewer tap and connection detail is required, in accordance with Chapter III, Water Quality Rules and Regulations.
6. A general septic tank detail drawing should be supplied.

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Oil Well Perforators Waste Treatment Facility,
Sweetwater County

ARCHITECT OR ENGINEER: None noted.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-247

REVIEWING ENGINEER: Doug Craig - William L. Garland, P.E.

DATE OF REVIEW: May 24, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Give design wastewater flow data.
- 2). All plans excluding single family residences have to be approved and signed by a Wyoming registered professional engineer.
- 3). Submit two (2) copies of all plans and specifications.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-248

George Dern Septic System
(Name of Facility)

This permit hereby authorizes the applicant:

Devalt & Morton
(Last) (First) (Middle)
153 South Fenway
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Commercial Septic Wastewater
facility located in Section 27, T34N, R80W
(Legal Description)

in the County of Natrona, 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.

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 6, 1978

Date of Issuance

cc: Western Construction, ATTN: Ed Rate, P. O. Box 930, Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-249MR

Mountain View Sewage Treatment Facility
(Name of Facility)

This permit hereby authorizes the applicant:

Mountain View Joint Powers Board
(Last) (First) (Middle)
Box 249
(Street or P.O. Box)
Mountain View Uinta Wyoming 82939
(City) (County) (State)

to construct, install, or modify a Sewage Lagoon
facility located in Section 17 & 20, T15N, R114W
(Legal Description)

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

Authorized by:

William L. Gales
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

June 15, 1978

Date of Issuance

cc: Uinta Engineering, P. O. Box 746, Evanston, Wyoming 82930
Town Clerk, Mountain View, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

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

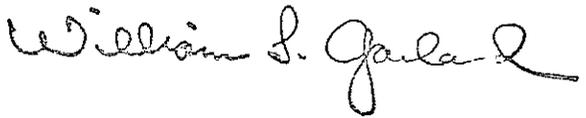
PROJECT: Mountain View Joint Powers Board - Sewage Facilities Project
(Lagoons) - Uinta County

ARCHITECT OR ENGINEER: Uinta Engineering, P. O. Box 746, Evanston, Wyoming
82930

WATER QUALITY DIVISION REFERENCE NUMBER: 78-249M/April 21, 1978

REVIEWING ENGINEER: ~~Thomas F. Hamm~~ - Don Armstrong, P.E. - William L. Garland, P.E.

DATE OF REVIEW: May 23, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: Per our telephone review of these plans on May 11, 1978, the following are proffered:

- 1). The NPDES permit must be changed to reflect the new point of discharge and to determine self-monitoring requirements. This should have been accomplished prior to construction.
- 2). This office does not require an inlet flow measuring device for this specific application.
- 3). An automatic draining device is required on the vertical section of pipe at the water tower to prevent freezing. A simple mechanical device will suffice.
- 4). The parshall flume on the effluent, if accurate to within $\pm 10\%$ is sufficient so that the flow recorder and totalizer, although nice, are not required.
- 5). An operational and maintenance manual is required for the facility. A very detailed section on operation of the dump station is paramount. (Reference EPA 430/9-74-001 considerations for preparation of operation and maintenance manuals, GPO #005-00644-6)
- 6). A manhole is required at the inlet as close to the dike as possible with an invert at least 6 inches above the maximum operating level of the lagoon (paragraph 94.32, Ten State Standards).

PROJECT: Mountain View Joint Powers Board - Sewage Facilities Project
 Uinta County

COMMENTS (CONT)

- 7). Reseeding of the lagoon area must be addressed (paragraph 94.18, Ten State Standards).
- 8). A preliminary investigation into the Forest Service dumpings has been made since it was not addressed in the design. Typical septage has the following characteristics (reference EPA manual EPA-625/1-77-009):

BOD ₅ mg/l	-----	2,500-20,000
COD mg/l	-----	10,000-70,000
SS mg/l	-----	2,500-100,000
Volatile Solids, %	-----	50-80
Ammonia Nitrogen, mg/l	-----	100-500
Organic Nitrogen, mg/l	-----	100-1,500
Heavy Metal Inhibitors		

Septage of this nature must have special conditioning in order to minimize the shock loading affects on the 1st cell. More aeration is required for the dump tank, it must be diluted then aerated for a minimum of 24 hours before being slowly introduced into cell one. Request an engineering analysis of this to include BOD and TSS loading and shock plus any use/ effects due to heavy metals.

- 9). Recommend a line from the influent manhole to the inlet of cell #2, so that cell #1 can be drained to facilitate maintenance. The system will require maintenance but the present design does not appear to have considered this item.
- 10). What type ground preparation is required for chlorine building, pump building contact chamber, parshall flume and receiving station?
- 11). Only the outlet from cell 3 to the outfall requires selectable drawoff levels (paragraph 94.42, Ten State Standards). Interconnect between cells 1 to 2, 1 to 3 and 2 to 3 requires a means to control the depth of each cell (paragraph 94.42 & 95.4, Ten State Standards). Recommend you review chapter 90 of the Ten State Standards and we discuss any areas which may have been muddied in the past, especially since many personnel from this office have worked the project.
- 12). Piping details are required for the air line to the dump station.
- 13). There will be a problem with freezing of the still well at the influent flume since there is minimal flow in a still well. A frozen float could damage the flow recorder mechanism and a frozen still well allows no flow data. Please investigate the problem.

PAGE 3

PROJECT: Mountain View Joint Powers Board, Sewage Facilities Project
Uinta County

WATER QUALITY REFERENCE NUMBER: 78-249M

COMMENTS(CONT)

- 14). This may not be construed as a final review.
- 15). I will be in Evanston on May 31, 1978, if you desire to review these comments.

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-249MR

City of Lingle - Water & Sewer Extensions
 (Name of Facility)

This permit hereby authorizes the applicant:

Town of Lingle
 (Last) (First) (Middle)

City Hall
 (Street or P.O. Box)

Lingle Goshen Wyoming 82223
 (City) (County) (State)

to construct, install, or modify a Water & Sewer Extension
 facility located in Section 18 - 29, T52N, R62W
 (Legal Description)

in the County of Goshen, 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. Paulson
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

July 24, 1978
 Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-250

Hume Construction Warehouse
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Gilbert</u>	<u>Rich</u>	
(Last)	(First)	(Middle)
<u>c/o Pilch & Associates</u>		
<u>45 East Loucks Street</u>		
(Street or P.O. Box)		
<u>Sheridan</u>	<u>Sheridan</u>	<u>Wyoming 82801</u>
(City)	(County)	(State)

to construct, install, or modify a Septic Sewage Disposal
facility located in Section 15, T56N, R84W
(Legal Description)

in the County of Sheridan, 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. Quinn
Administrator
Water Quality Division

Robert E. Martin
Director
Wyoming Dept. of Environmental Quality

June 15, 1978
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

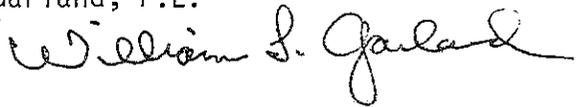
PROJECT: Hume Construction Warehouse - Sheridan County
1036 Avon - Sheridan, Wyoming 82801

ARCHITECT OR ENGINEER: None indicated.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-250

REVIEWING ENGINEER: Tom Mueller - William L. Garland, P.E.

DATE OF REVIEW: May 16, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Plans and specifications accompanying non-residential sewage treatment facilities are required to carry the signature of a Professional Engineer registered to practice in the State of Wyoming.

The plans will not be reviewed nor a permit issued, until this condition is complied with.