

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed to
Rander
12/13/78*

New

Renewal

Modified

Permit No. 78-301RR

EAST THERMOPOLIS SEWER EXTENSION

(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF EAST THERMOPOLIS

(Last)

(First)

(Middle)

P.O. BOX 783

(Street or P.O. Box)

EAST THERMOPOLIS, WYO. 82443

(City)

(State)

(Zip Code)

to construct, install, or modify a SEWAGE COLLECTION

facility located in SEC36 T43N R95W

(Legal Description)

in the County of HOT SPRINGS, 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. Gable
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

NOVEMBER 30, 1978
Date of Issuance

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

PROJECT: EAST THERMOPOLIS, SANITARY SEWER EXTENSION

ENGINEER: IMBERG-MILLER ENGINEERING CO. INC.
P.O. BOX 230, RIVERTON, WYO. 82501

OWNER: T/EAST THERMOPOLIS
110 E. BROADWAY
EAST THERMOPOLIS, WYO. 82443

WATER QUALITY DIVISION REFERENCE NUMBER: 78-301R

REVIEWING ENGINEER: ROY E. PRIOR *Roy E. Prior*

DATE OF REVIEW: OCTOBER 31, 1978

ACTION: NOT AUTHORIZED.

COMMENTS:

Per telephone conversation 10-16-78 with J. Roger Miller of Inberg Surveying Co. Inc.; we are awaiting additional information. That information is as follows:-

1. Revised specifications referred to in your Sept. 22, 1978 letter.
2. Drawing showing wye branch installation.
3. Spec.s. for the sewer laterals (City of East Thermopolis referred to in old spec.).

Book

REVIEW OF PLANS AND SPECIFICATIONS

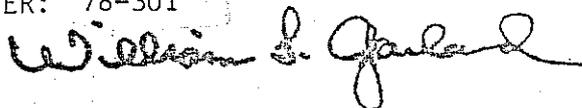
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: East Thermopolis, Sanitary Sewer Extension

ARCHITECT OR ENGINEER: Inberg-Miller Engineering Co, Inc.
P. O. Box 230, Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-301

REVIEWING ENGINEER: Roy E. Prior



DATE OF REVIEW: 6/23/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a letter from the Town of East Thermopolis indicating they will provide services.
2. The specifications of the Town of East Thermopolis have not been approved by this office. Provide complete specifications.
3. Infiltration and Esfiltrations test should be for each section of pipe, i.e. manhole to manhole.
4. Provide typical sewer tap details. Wye branches should be used not saddles.
5. Can the existing sewer line handle the existing flow? Provide details.
6. Fill out enclosed permit to construct application and have the indicated people sign it.
7. This cannot be considered a final review.

PERMIT TO CONSTRUCT

mailed
10/3/78

- New
- Renewal
- Modified

Permit No. 78-302R

Rawhide Elementary School
(Name of Facility)

This permit hereby authorizes the applicant:

Campbell County School District
(Last) (First) (Middle)

1000 W. 8th Street
(Street or P.O. Box)

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

to construct, install, or modify a Water distribution and sewage collection
facility located in Sec. 20 T51N 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 L. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 20, 1978
Date of Issuance

cc: Wayne R. Haug
Scott Engineering Co., P.O. Box 2097, Gillette, Wyo. 82716

J. Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Rawhide Elementary School - Water & Sewer Line

ARCHITECT OR ENGINEER: Wayne R. Haug, Scott Engineering Co,
P. O. Box 2097 Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-302

REVIEWING ENGINEER: Dan H. Kim

William J. Garland

DATE OF REVIEW: 7/6/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. What is the 2" water line for? Is this line a water service connection to serve the Elementary School? If there will be 2 or more service taps to be hooked onto this line, 6" is the minimum size.
2. Please submit detail drawing of the 2" water line with gate valve which terminates right above the storm sewer, including the vertical distance between these two lines.
3. Class 200 PVC pipe with SDR21, specified in ASTM D2241 is not an AWWA C900 pipe. Class 200 AWWA C900 pipe has SDR of 14. Please clarify.
4. Typical drawing of water service line, including material, size, etc., should be provided.
5. Ductile Iron pipe shall conform to the requirements of ANSI, A21.51 (AWWA C151) instead of A21.6. The specifications should also provide thickness class, protective coating, polyethylene tubing, etc.
6. AWWA C500-61 for gate valves and AWWA C502-64 for fire hydrants are outdated. These specification should reference to the latest revisions.
7. Specifications for pipe alignment should include a means of testing (i.e. tamping).
8. There should be specifications concerning excessive side fill pressures and ovalation of the sewer pipe. The maximum deflection allowed shall not exceed 5% of the pipes internal diameter. This test may be accomplished by pulling a mandrel. (i.e. Go-No-Go deflection gauge) through the pipe.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-303R

City of Gillette - Improvement District #34
(Name of Facility)

This permit hereby authorizes the applicant:

<u>City of Gillette</u>		
(Last)	(First)	(Middle)
<u>Box 540</u>		
	(Street or P.O. Box)	
<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming 82716</u>
(City)	(County)	(State)

to construct, install, or modify a Sewer Collection & Lift Station
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 L. Gula
Administrator
Water Quality Division

Robert E. Surdin
Director
Wyoming Dept. of Environmental Quality

September 11, 1978

Date of Issuance

cc: Wayne Haug, Scott Engineering Co., P. O. Box 2097, Gillette, WY 82716

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~City of Gillette - Improvement District No. 34
6th St. from Butler - Spaeth East~~

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-303

REVIEWING ENGINEER: Dan H. Kim, Tom Mueller *William J. Garland*

DATE OF REVIEW: 7/5/78

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

1. Design calculations should be provided for the proposed lift station, including expected maximum flow, pump design, wet well design, forcemain, etc.
2. Will extensions ever be made to the sewer line?
3. Is the proposed lift station located above the 100 yr flood elevation?
4. Adequate provisions should be made for power outages. Emergency power supply or equivalent is required. Please discuss.
5. The wet well floor should have a minimum slope of 1 to 1 to the hopper bottom.
6. What are the size of the pump suction & discharge pipe?
7. The vent of the wet well needs a screen on the end.
8. Use door holding arm with holding ratchets on the hatches for additional safety.
9. In order to protect the grinder pumps from large objects, we highly recommend the use of bar screen before the lift station.
10. What is the size of the existing sewer line which the forcemain is to be hooked into?
11. Will the alarm system be activated in case of pump failure, & power failure as well as a high wet well?

12. The fabricated steel basin should be situated on the concrete pad.
13. Magnesium anodes are recommended for corrosion protection of steel basin to supplement the corrosion resistant epoxy coating.
14. Specifications for pipe alignment should include a means of testing.
15. The maximum vertical deflection allowed should not exceed 5% of the pipes internal diameter (i.e. Go-No-Go deflection gauge)----Recommendation only.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

Mailed -
9/26/78

- New
- Renewal
- Modified

Permit No. 78-304R

UPPER WARM SPRINGS WATER SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant:

WARM SPRINGS INC. c/o HARMON H. WATT

(Last) (First) (Middle)

420 EAST PARK AVE.,

(Street or P.O. Box)

RIVERTON, WYO. 82501

(City) (State) (Zip Code)

to construct, install, or modify a WATER DISTRIBUTION

facility located in SEC. 9 T41N R107W

(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 L. Jacobs
Administrator
Water Quality Division

Robert E. Lundin
Director
Department of Environmental
Quality

SEPTEMBER 7, 1978.

Date of Issuance

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PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-305RR

Evansville Water Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Evansville
(Last) (First) (Middle)

Drawer 158
(Street or P.O. Box)

Evansville Natrona Wyoming 82636
(City) (County) (State)

to construct, install, or modify a Water Treatment Plant
facility located in Section 36, 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 L. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

July 13, 1978
Date of Issuance

June 15, 1978

Sigma Engineering
Robert L. Streeter II
P. O. Box 4060
Casper, Wyoming 82601

REF: DEQ 78-305 Review Dated June 7, 1978
Your Letter of June 13, 1978, Same Subject

Dear Mr. Streeter:

Concur with your replies: General 2 & 5 and Drawings 2, 4 & 7.

General 1 - The Ten State Standards do not specify signs, however because of vandalism and the enticement of the two lagoons; signs would reduce the chances of the Town being sued for negligence and could help reduce/avoid vandalism.

General 3 - The gas mask question (reference Ten State Standards, Page 75, Paragraph 5.3.2 plus 5.3.4) is addressed since many plants put the respiratory protection equipment (gas masks) in a locker some place and not adjacent or in close proximity to the chlorine room.

General 4 - The reseeding requirement applies to wastewater plants only, my error.

Drawing 4 - Same as previous comment for the door switch.

Drawing 5 - The strainer waste pit should be a minimum of 5 feet deep with the banks sloped 3:1.

With incorporation of the changes you noted plus the Drawing 5 comment, a permit to construct will be issued.



Thomas F. Hamm
Environmental Engineer

TFH/do
cc

JK

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Evansville Project #2, Water Treatment Plant - Natrona County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-305/June 5, 1978

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

DATE OF REVIEW: June 7, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

Perimeter signs for the fence should be called for.
What type polyelectrolyte is to be used?
Where are the gas masks to be located?
The area should be reseeded after construction.
Since there is no standby power source, what is the length of time the
Town can service a power outage. Has this question been addressed.

DRAWINGS

750105 - The 80,000 gallon reservoir, shouldn't this be 250,000?

Pipe that carries treated water must be to AWWA specifications. This is
the line from the plant to the existing line to Town.

750108 - Chains and retaining hooks are required for the chlorine bottles.
The laboratory door should open outward to facilitate an emergency exit.

750114 - The chlorine room must have a door operated light and fan switch
in addition to the exterior switch.

750116 - The filter backwash drain is to a waste pit; where is the pit,
where are the details and what is the planned daily quantity?

How is sediment to be removed from the inlet sump? Flow directly from the
river should produce quite a bit of debris and sediment.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-306

Church of Nazarene
(Name of Facility)

This permit hereby authorizes the applicant:

Johnston, Ralph R., P.E.
(Last) (First) (Middle)
P. O. Box 702
(Street or P.O. Box)
Laramie, Albany, Wyoming 82070
(City) (County) (State)

to construct, install, or modify a Septic System
facility located in Section 3, T14, R73
(Legal Description)

in the County of Albany, 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. Sheridan
Director
Wyoming Dept. of Environmental Quality

July 27, 1978
Date of Issuance

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REVIEW OF PLANS AND SPECIFICATIONS

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

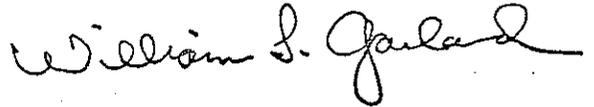
PROJECT: First Church of Nazarene - Albany County

ARCHITECT OR ENGINEER: Ralph Johnston, P. O. Box 702, Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 78-306/June 5, 1978

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

DATE OF REVIEW: June 9, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Data is required on:

1. High seasonal groundwater table.
2. Design data for system.
3. Type materials: -
 - a. Where sewer line passes through foundation must be cast iron pipe.
 - b. Septic tank inlets and outlet must be cast iron or schedule 40 PVC pipe and extend 5 feet outside tank or beyond excavation.

This may not be construed as a final review. Questions and/or clarifications should be directed to Tom Hamm, (307)777-7781.

June 6, 1978

Orvie Berg
H B & R, Inc.
200 Sweetwater Drive
Rock Springs, Wyoming 82901

RE: Wastewater Facility
Reference Number 78-307

Dear Mr. Berg:

This office has received a set of plans and specifications for the proposed septic tank-leach field system. You indicated by a telephone conversation on June 6th, that the trailer house may be used for commercial business.

Under the "Wyoming Water Quality Rules & Regulations, Chapter III, 1976", your facility does not qualify as a small wastewater facility. All plans and specifications for commercial wastewater treatment facilities must be signed or sealed by an engineer registered in the State of Wyoming. Your plans and specifications will not be reviewed until this is done.

Please be aware that construction without a permit from this Department is illegal and is subject to severe penalties (up to \$10,000 per day of violation) under the Environmental Quality Act of 1973.

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

Sincerely,



David W. Hill
Environmental Engineer

DWH/do

cc: Stafford Bakhoe Service, P. O. Box 384, Rock Springs, WY 82901
Enclosure: Chapter III

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-308

Natrona County Airport - Water Distribution System
(Name of Facility)

This permit hereby authorizes the applicant:

Natrona County Internation Airport
(Last) (First) (Middle)
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Water Distribution System
facility located in Section 20, 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. O'Connell
Administrator
Water Quality Division

Robert E. Hendin
Director
Wyoming Dept. of Environmental Quality

June 15, 1978

Date of Issuance

cc: Sigma Engineering, ATTN: Robert L. Streeter II, Box 4060, Casper, Wyoming 82604

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

Mailed - 8/24/78

New

Renewal

Permit No. 78-309

Modified

Popo Agie Ranch Estates
(Name of Facility)

This permit hereby authorizes the applicant:

Johnson Paul C.
(Last) (First) (Middle)

Popo Agie Ranch
(Street or P.O. Box)

Lander Wyoming 82520
(City) (State) (Zip Code)

to construct, install, or modify a wastewater treatment
facility located in Sec 35 T33N R100W
(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 L. Galand
Administrator
Water Quality Division

Robert E. Lundin
Director
Department of Environmental
Quality

8-17-78
Date of Issuance

CC: Clay Construction Co., P.O. Box 26, Lander, Wy. 82520

REVIEW OF PLANS AND SPECIFICATIONS

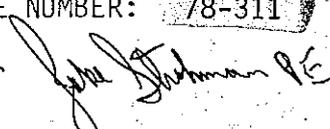
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Burlington Northern, Sheridan, WY, Diesel Fueling Waste System
Burlington Northern, 2224 Montana Ave., Billings, MT 59101

ARCHITECT OR ENGINEER: None indicated

WATER QUALITY DIVISION REFERENCE NUMBER: 78-311

REVIEWING ENGINEER: Tom Mueller



DATE OF REVIEW: 7/19/78

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

1. All plans submitted are required to carry the signature of a Professional Engineer, registered to practice in Wyoming.
2. Please submit two (2) copies of all plans and specifications. One set will be returned to you upon approval. Also, please complete enclosed application.
3. The slope of the sewers from Manhole 1 to the grit chamber do not appear to be steep enough to maintain self-cleaning velocities. Please justify.
4. Where will grit chamber material and screenings from the collection pans be disposed of?
5. Adequate ventilation will be required for the pumphouse over the Oil Separation. Explosion proof motors are also strongly recommended.
6. A letter of acceptance from the City of Sheridan will be required stating that the City will continue to accept wastewater from this facility for treatment in the municipal sewage plant.

Mine

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

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

17-SR3 Reservoir
(Name of Facility)

This permit hereby authorizes the applicant:

Thunder Basin Coal Company
 (Last) (First) (Middle)
 ATTN: E. M. Sunwoo, Engineering Supervisor
 P. O. Box 1569
 (Street or P.O. Box)
 Gillette Campbell Wyoming 82716
 (City) (County) (State)

to construct, install, or modify a Stormwater Runoff Ponds
 facility located in Section 17, 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. Oala
 Administrator
 Water Quality Division

Robert E. Sinden
 Director
 Wyoming Dept. of Environmental Quality

June 15, 1978
 Date of Issuance

cc: Banner Associates, ATTN: Joseph Lord, P.E., P. O. Box 550, Laramie, WY 82070
 Atlantic Richfield Company, Coal Operations, 1500 Security Life Building,
 1616 Glenarm Place, Denver, CO 80202

mailed -
9/11/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-313R

Wyoming Machinery

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Machinery, Inc.

(Last)	(First)	(Middle)
<u>c/o Larson Engineering</u>		
<u>310 Miller, Suite K</u>		

(Street or P.O. Box)

<u>Gillette</u>	<u>Campbell</u>	<u>Wyoming</u>	<u>82716</u>
(City)	(County)	(State)	

to construct, install, or modify a Septic Wastewater System
 facility located in Section 11, T49N, 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. Gault
 Administrator
 Water Quality Division

Robert E. Lunden
 Director
 Wyoming Dept. of Environmental Quality

August 23, 1978

Date of Issuance

cc: Malcolm Crawford

Books
11

REVIEW OF PLANS AND SPECIFICATIONS

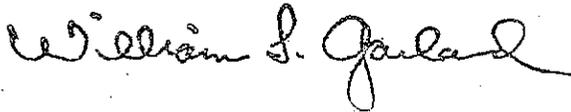
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Machinery, Inc.
Wastewater Treatment System

ARCHITECT OR ENGINEER: Larson Engineering
310 Miller, Suite K
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-313

REVIEWING ENGINEER: Tom Mueller



DATE OF REVIEW: 7/14/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Standard calculations would indicate a leach field area requirement approximately twice what is shown on the plans. Please explain.
2. The calculations indicate an intent to dose the leach field at 75% of the interior volume of the leach pipe. However, only half the field will be dosed at one time, resulting in an actual dose of 150% of the interior pipe volume to one half of the leach field. Was this intended?
3. It is recommended that individual leach trenches be spaced 6 ft. apart.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-314

Sleepy Hollow Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Suchor Investment, Inc.
(Last) (First) (Middle)
c/o Larson Engineering
310 Miller Street
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Water Supply & Sewage Treatment
facility located in Section 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.

Authorized by:

William L. Johnson
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. 78-315R

Sunup Ridge Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Glenrock LID #23
(Last) (First) (Middle)
215 South 4th Street
(Street or P.O. Box)
Glenrock Converse Wyoming 82633
(City) (County) (State)

to construct, install, or modify a Water Line, Sewer Line & Lagoon System
facility located in Section 5, T33, R75
(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 S. Paulson
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

July 27, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-317

Precision Pump
(Name of Facility)

This permit hereby authorizes the applicant:

Weddell Keith
(Last) (First) (Middle)
Lot 2 - Zero Road - Industrial Park
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Waste Treatment
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. Ojala
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

June 16, 1978
Date of Issuance
cc: Western Construction, ATTN: Ed Rate, P.E., P. O. Box 930, Casper, WY 82601

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

J

PROJECT: Jacobs Ranch Mine Cleaning Sump & Lagoon

ARCHITECT OR ENGINEER: James G. Bell, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-318

REVIEWING ENGINEER: Tom Mueller

DATE OF REVIEW: 7/7/78

William S. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Under item II-4 of the project description, a clay liner is mentioned. Is this to be made of native or imported material? Please provide installation specifications.
2. Please provide a detail showing the inlet to the evaporation pond. The inlet should be so constructed as to minimize bank erosion.
3. WQD standards for sanitary sewers require manholes to be spaced at a minimum of 400 ft. Is there any reason this requirement cannot be met for this sewer.
4. Depending on the soil type in the lagoon area, a 3 to 1 slope may be required in the lagoon to minimize bank erosion. Please justify the use of 2 to 1 slopes.

PERMIT TO CONSTRUCT

mailed - 10/19/78

XX // YY New

// Renewal

// Modified

Permit No: 78-319-319

Town of Sundance Lagoon System Improvements

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Sundance & Bear Lodge Engineering

(Last) (First) (Middle)

P. O. Box #25

(Street P.O. Box)

Sundance, WY, 82729

(City) (County) (State)

to construct, install, or modify a lagoon generator

facility located in Sec. S48, T51N, R62W, R62W

(Legal Description)

in the County of Crook, 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. Paula

Administrator
Water Quality Division

Robert E. Larkin

Director
Wyoming Dept. of Environmental Quality

October 10, 1978

Date of Issuance

Reed

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Town of Granger~~
~~Water Supply Raw Water Pipeline~~
~~Sweetwater County~~

ARCHITECT OR ENGINEER: Richard Orton, P.E. Tudor Engineering
1802 N. 33rd St.
Boise, ID 83703

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-320~~

REVIEWING ENGINEER: David W. Hill

William S. Garland

DATE OF REVIEW: 7/6/78

ACTION: ~~NO "PERMIT TO CONSTRUCT" IS REQUIRED~~

COMMENTS:

A raw water line does not come under this Departments jurisdiction.

cc: Tudor Engineering
P. O. Box 320
Riverton, WY 82501

Mailed -
9/14/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-321R

EVERS FIELD LIFT STATION

(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF GREEN RIVER

(Last) (First) (Middle)

P.O. BOX 127

(Street or P.O. Box)

GREEN RIVER WYOMING 82935

(City) (County) (State)

to construct, install, or modify a SEWAGE COLLECTION

facility located in SEC. 22 T18N R107W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division

Robert E. Sardin
Director
Wyoming Dept. of Environmental Quality

9-7-78

Date of Issuance

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed to
J. 1/15/79*

New

Renewal

Modified

Permit No. 78-322R

CLEAR VIEW ESTATES PHASE II

(Name of Facility)

This permit hereby authorizes the applicant:

PIONEER SPECIALIST OF WYOMING

(Last) (First) (Middle)

P.O. BOX 826

(Street or P.O. Box)

GREEN RIVER

WYO.

82935

(City) (State) (Zip Code)

to construct, install, or modify a WATER DISTRIBUTION AND WASTEWATER COLLECTOR

facility located in SEC 27 T18N R107W
(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 P. Jones
Administrator
Water Quality Division

Robert E. Surdin
Director
Department of Environmental
Quality

DECEMBER 13, 1978.

Date of Issuance

BENNETT-CARDER & ASSOC.
P.O. BOX 1324
ROCK SPRINGS, WYO. 82901
ATTN: H. KESSNER, P.E.

C.C. TOWN OF GREEN RIVER
P.O. BOX 127
GREEN RIVER, WYO. 82935
ATTN: F. SALSBURY, P.E.

mailed -
9/11/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-322M

Clear View Acres Subdivision
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Martin</u> (Last)	<u>James</u> (First)	<u>L.</u> (Middle)
<u>P. O. Box 1540</u> (Street or P.O. Box)		
<u>Rock Springs</u> (City)	<u>Sweetwater</u> (County)	<u>Wyoming 82901</u> (State)

to construct, install, or modify a Surface Aerators
facility located in Section 27, T18N, R107W
(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. Paulson
Administrator
Water Quality Division

Robert E. Hendon
Director
Wyoming Dept. of Environmental Quality

August 22, 1978

Date of Issuance

cc: Bennett-Carder & Assoc., P. O. Box 1324, Rock Springs, WY 82901
ATTN: Harry Kessner, P.E.

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Clear View Estates, Phase II, Sewer System~~
~~Sec. 27, T18N, R107W Sweetwater County~~

ARCHITECT OR ENGINEER: H. J. Kessner, P.E. Bennett-Carder & Assoc.
P. O. Box 1324
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-322~~

REVIEWING ENGINEER: David Hill

DATE OF REVIEW: 7/7/78

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

1. Please submit details of water main - sewer main - sewer service line crossings.
2. Submit cleanout details.
3. Where are the water system plans?

mailed-
8/29/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-323R

Sparrowhawk Hill One
(Name of Facility)

This permit hereby authorizes the applicant:

McStain Enterprises
 (Last) (First) (Middle)

4840 Riverbend Road
 (Street or P.O. Box)

Boulder Colorado 80301
 (City) (County) (State)

to construct, install, or modify a Water Distribution & Sewage Collection
 facility located in Section 28 & 33, 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 J. Janelo
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

August 8, 1978
 Date of Issuance

Book

REVIEW OF PLANS AND SPECIFICATIONS

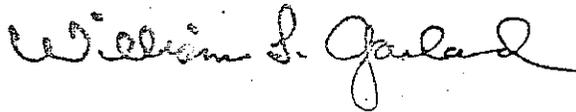
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: Sparrowhawk Hill One McStain Enterprises
4840 Riverbend Rd.
Boulder, CO 80301

ARCHITECT OR ENGINEER:
Thomas R. Hoyt

WATER QUALITY DIVISION REFERENCE NUMBER: 78-323

REVIEWING ENGINEER: Tom Mueller



DATE OF REVIEW: 6/27/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A fire hydrant will be required at the water main deadend, Sta. 26 + 85.24.
2. A letter of verification from the City of Sheridan should be obtained indicating that the city can supply adequate water and sewer service to this area.
3. If the sewer lines running west from MH-7 and south from manhole 10 are not to be completed to the next manholes, indicated an adequate plugging method will be used.
4. Please indicate the location of the 16" water main to which this system will be connected.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-324R

Town of Sundance - Policky Addition
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Policky</u> (Last)	<u>Don</u> (First)	<u></u> (Middle)
<u>c/o Ralph Goodson</u> <u>Box 125</u>		
(Street or P.O. Box)		
<u>Sundance</u> (City)	<u>Crook</u> (County)	<u>Wyoming 82729</u> (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 13, T51, R63
(Legal Description)

in the County of Crook, 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:

 Administrator Water Quality Division	 Director Wyoming Dept. of Environmental Quality
--	--

August 8, 1978

Date of Issuance

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Sundance - Policky Addition

ARCHITECT OR ENGINEER: Ralph Goodson, P.E., Bearlodge Engineering
P. O. Box 125, Sundance, WY 82729

WATER QUALITY DIVISION REFERENCE NUMBER: 78-324

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

DATE OF REVIEW: July 17, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A location map should be provided.
2. A letter from the City of Sundance should be provided, stating that the City can provide adequate water and sewer service to the subdivision.
3. What are the sizes of the existing sewer lines? Please discuss the capacity of the existing submain running east from MH 4+15.
4. Show the existing water line on Cleveland St., into which the 4" line is connected.
5. Do Mueller A-2380-21 type gate valve and Mueller A-423 fire hydrant meet the requirements of AWWA C500 and AWWA C502, respectively?
6. Your typical drawing of water-sewer crossing doesn't include the unusual condition. These shall meet Section 15 of Chapter IV, Wyoming Water Quality Rules and Regulations. When the minimum of 18" vertical separation cannot be obtained, the sewer shall be constructed of materials and joints that are equivalent to water main standards of construction and pressure tightness for a horizontal distance of at least 10 feet on each side of the crossing.

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Town of Sundance - Reed and Crown Addition~~

ARCHITECT OR ENGINEER: Ralph Goodson, Bearlodge Engineering
Box 125, Sundance, WY 82729

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-325~~

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

DATE OF REVIEW: July 17, 1978

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

1. A location map is needed.
2. A letter from the City of Sundance should be provided, stating that the City can provide adequate water and sewer services to the subdivision.
3. Please indicate the size of the existing sewer lines. Also, discuss the capacity of the existing submain running northwest from MH I.
4. Do Mueller A-2380-21 gate valve and Mueller A-423 fire hydrant meet the requirements of AWWA C500 and AWWA C502, respectively?"
5. Will the water valves be provided at the tee on Ryan St.?
6. The typical drawing and specifications should cover the unusual condition of the water-sewer crossing. These shall meet Section 15, Chapter III of the Wyoming Water Quality Rules and Regulations.
7. Please show the water-sewer line serving the lot 6 located north of Ryan St.

PERMIT TO CONSTRUCT

Mailed -
9/20/78

- New
- Renewal
- Modified

Permit No. 78-325R

Reed & Cronn Addition
(Name of Facility)

This permit hereby authorizes the applicant:

Reed Cronn (Last)	George Robert (First)	c/o Ralph Goodson (Middle)
<u>Box 125</u>		
(Street or P.O. Box)		
<u>Sundance</u> (City)	<u>Crook</u> (County)	<u>Wyoming 82729</u> (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 13, T51, R63
(Legal Description)

in the County of Crook, 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. Faulstich
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

September 12, 1978
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-326R

CHEVY CHASE SECOND ADDITION
(Name of Facility)

This permit hereby authorizes the applicant:

Brasel & Sims Construction Company
(Last) (First) (Middle)
P.O. Box 490
(Street or P.O. Box)
Lander Fremont Wyo. 82520
(City) (County) (State)

to construct, install, or modify a water distribution & sewer collection
facility located in Secl7 T33N R99W
(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. Janda
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality

7-28-78

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-327

Continental Mall Sewer Line Relocation
(Name of Facility)

This permit hereby authorizes the applicant:

Coordinated Financial Services
(Last) (First) (Middle)
32 Exchange Place, 4th Floor
(Street or P.O. Box)
Salt Lake City, Utah 84111
(City) (County) (State)

to construct, install, or modify a relocate a sewer line
facility located in Sec 15, T21N, R87W
(Legal Description)

in the County of 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 L. Chiles
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

6-28-78
Date of Issuance

PERMIT TO CONSTRUCT

Amended
10/18/78

- New
- Renewal
- Modified

Permit No. 78-328R

Pine Haven Domestic Water Phase I
(Name of Facility)

This permit hereby authorizes the applicant:

Pine Haven Improvement District
 (Last) (First) (Middle)
 c/o Timm & Associates
 P.O. Box 726

 (Street or P.O. Box)

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

to construct, install, or modify a public water supply
 facility located in Sec. 5, T.50N, R.60W
 (Legal Description)

in the County of Crook, 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. Galas
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

October 6, 1978

 Date of Issuance
 cc: Sheridan District Sanitarian

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-329R

Sun Gas Company
(Name of Facility)

This permit hereby authorizes the applicant:

Sun Gas Company
(Last) (First) (Middle)
Route #3
(Street or P.O. Box)
Douglas Converse Wyoming 82633
(City) (County) (State)

to construct, install, or modify a Septic System
facility located in Section 24, T40N, R74W
(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. Jones
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

August 18, 1978
Date of Issuance

Boch

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Small Wastewater System, Sun Gas Company
Section 26, T40N, R74W, Converse County, Wyoming

ARCHITECT OR ENGINEER: None, submitted by Mr. B. S. Blade, Sun Gas Company
Rt. #3, Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 78-329

REVIEWING ENGINEER: Frank R. Harman, P.E.

William S. Gauld

DATE OF REVIEW: 6/27/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Since the small wastewater system is to serve a commercial establishment, State regulations require that it be designed by a registered engineer licensed to practice in the State of Wyoming.

Submit two copies of the application to construct (enclosed) along with two copies each of the registered engineer's plans and design criteria and technical specifications on the project.

Original application and attachments returned as requested along with a copy of Wyoming Department of Environmental Quality Rules & Regulations for your information.

JPB

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT:

~~SEPTIC SYSTEM - ADOBE OIL AND GAS CORP.
ROCK HELL MINE~~

ARCHITECT OR ENGINEER: ROBERT L. KUMPE, JR. - 951 W. WERNER CT. SUITE 280
c/o MULLEN ENGINEERING CASPER, WYO. 82601
ATTN: RON JUDAY

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-330R~~

REVIEWING ENGINEER: RICK ENGELMANN R.E.

DATE OF REVIEW: MARCH 19, 1979

ACTION: ~~NOT AUTHORIZED~~

COMMENTS:

NOTE: This is intended to cover only the mine septic system. The review of the uranium related wastewater facilities will follow.

SEPTIC TANKS:

1. There is insufficient septic tank capacity. For a flow of $Q=1825$ gpd,
 $V = 1125 + 0.75Q$
 ≈ 2500 gallons

(Source: U.S. Pub. Health Service Publ. 526, pp. 54-55)

2. The outlet pipes should penetrate about 35% of the tank liquid depth. In this case, approx. 1-4". (Source: U.S. PHS Publ. 526, P.32).
3. Specifications are needed for installation of the tanks. This is critical to prevent settling.

DRAINFIELD:

1. The gravel specified for the drainfield is too fine. Our standard is for 1/2"-2 1/2". (Source: Appendix "B" of Wyo. Chapter II Reg.s).
2. The minimum distance between trenches (undisturbed earth) is 6'. The plans propose 3'.

MANHOLE:

It appears that the sewer pipe inverts will not be flush with the manhole invert. This could cause a solids build-up and odor problems.

SEPTIC SYSTEM - ADOBE OIL AND GAS CORP.
ROCK HILL MINE

- 2 -

ARCHITECT OR ENGINEER: ROBERT L. KUMPE, JR.
MULLEN ENGINEERING
CASPER, WYO.

78-330R

MARCH 19, 1979

NOT AUTHORIZED:

Our standards are based on the U.S. Public Health Service Pub. 526 recommendations, and are summarized in Appendix "B" of our Chapter III Regulations. I am enclosing Appendix "B" and portions of Publ 526.

RE/jky

Enclosures:

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-332

Alta Vista Addition
(Name of Facility)

This permit hereby authorizes the applicant:

Pulte Homes Corporation
 (Last) (First) (Middle)

2275 East Arapahoe Road
 (Street or P.O. Box)

Littleton Colorado 80122
 (City) (County) (State)

to construct, install, or modify a Water Distribution System
 facility located in Section 15, 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:

W. W. ...
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

July 25, 1978
 Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-333

Mountain View Estates
(Name of Facility)

This permit hereby authorizes the applicant:

Manning Fred III
(Last) (First) (Middle)
P.O. Box 1302
(Street or P.O. Box)
Saratoga Carbon Wyoming 82331
(City) (County) (State)

to construct, install, or modify a Water distribution
facility located in SW¼ Sec31 T18N R83W
(Legal Description)

in the County of 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 P. Jones
Administrator
Water Quality Division

Robert E. Sardin
Director
Wyoming Dept. of Environmental Quality

6-28-78

Date of Issuance

cc: Robert Jack Smith & Assoc., P.O. Box 1104, Rawlins, Wy., 82301

js

REVIEW OF PLANS AND SPECIFICATIONS

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

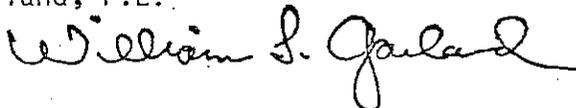
PROJECT: Dillon Vista Subdivision, Water Distribution and Wastewater
Collection - Fremont County

ARCHITECT OR ENGINEER: C. E. Spurlock, Jr., P. O. Box 0, Lander, Wyoming
82520

WATER QUALITY DIVISION REFERENCE NUMBER: 78-334

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

DATE OF REVIEW: June 16, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Provide specifications for installing the water pipe in the casing.
- 2). What is the size of the casing?
- 3). Provide closing details of the casing.
- 4). Wye branches should be used not saddles.
- 5). The service taps into the sewer line from manhole 18 to manhole 22 will require water class pipe where they cross over the water line and if less than 18 inches below the water line. We would recommend the lowering of the sewer line to prevent these special conditions.
- 6). Provide a letter from the Town of Lander indicating they will provide water and sewer service.
- 7). Fire hydrants or blowoffs are required at dead end lines, i.e. Vista Circle and Future Street off Arter Loop.
- 8). One valve should be added midway on Mt. Arter Loop to reduce service cutoff during repairs.
- 9). This cannot be considered a final review.

cc: Dillon Companies, Inc.
P. O. Box 1266
Hutchinson, Kansas 67501

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-335

Indian Hills Subdivision Lots 31 Through 95
(Name of Facility)

This permit hereby authorizes the applicant:

Glenrock Development Corp. % Woltz & Associates Inc.

 (Last) (First) (Middle)
 P.O. Box 322

 (Street or P.O. Box)
 Casper Wyoming 82602

 (City) (County) (State)

to construct, install, or modify a water distribution & sewage collection
 facility located in Sec 5 T33N R75W

 (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 J. [Signature]
 Administrator
 Water Quality Division

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

6-30-78
 Date of Issuance



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 6, 1978

K & H Engineering
P. O. Box 1089
Wheatland, WY 82201

Dear Mr. Kennedy:

This office is in receipt of your June 16, 1978 package of specifications (DEQ #78-336) for the Town of Wheatland. Floating Aerators as prepared by Banner Associates and the Specifications for Water Stand Tank, Base and Connections for Wheatland.

The package is incomplete in that there are no plans, please submit plans.

Were these submitted to obtain a permit to construct or are these "As Built" for tacit approval in lieu of a permit to construct?

Questions and/or clarifications should be directed to Tom Hamm, 777-7781.

A handwritten signature in cursive script that reads "Thomas F. Hamm".

Thomas F. Hamm
Environmental Engineer

TFH/clf

Bost

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-337

Meadowlark Subdivision - Phase III

(Name of Facility)

This permit hereby authorizes the applicant:

Stylco Development Inc.

(Last)

(First)

(Middle)

800 South Broadway

(Street or P.O. Box)

Riverton, Wyoming 82501

(City)

(County)

(State)

to construct, install, or modify a water & sewer lines

facility located in Sec 18 & 19 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 P. Gale

Administrator
Water Quality Division

Robert E. Sundin

Director
Wyoming Dept. of Environmental Quality

6-29-78

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Meadowlark Subdivision - Phase III

ARCHITECT OR ENGINEER: Tudor Engineering, 4505 Fderal, Riverton, Wy 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-337

REVIEWING ENGINEER: Thomas F. Hamm, William Garland PE

DATE OF REVIEW: 29 June 78

ACTION: Authorized

COMMENTS: Authorized contingent upon inclusion of the modified Casper water and sewer technical specifications into the Meadowlark Subdivision Contract. Modifications are related to hydrant specs, to AWWA bedding material and water - sewer line horizontal and vertical separations plus crossings.

mailed
9/19/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-338R

Red Hills Service
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Vondrasek</u>	<u>Lewis</u>	<u>P.</u>
(Last)	(First)	(Middle)
<u>Rawlins to Lander Route</u>		
(Street or P.O. Box)		
<u>Rawlins</u>	<u>Carbon</u>	<u>Wyoming 82301</u>
(City)	(County)	(State)

to construct, install, or modify a Commercial Septic System
facility located in Section 34, T28, R89
(Legal Description)

in the County of 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 L. Jones
Administrator
Water Quality Division

Robert E. Luman
Director
Wyoming Dept. of Environmental Quality

August 21, 1978
Date of Issuance

Comments: "Lagoon bottom and sides to be sealed with bentonite or plastic liner".



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 13, 1978

Mr. Lewis F. VonDrasek
Rawlins-Lander Route (Muddy Gap)
Rawlins, WY 82301

Subject: DEQ 78-338 Muddy Gap Sanitary Facility

Dear Sir:

I have received the map you submitted; as submitted it does not meet the state requirements.

The attached xeroxed excerpt plus the following questions and statements should assist in preparing a set of plans and specifications which are required to obtain a permit to construct, modify, improve or expand a wastewater facility.

Number of residences (house, trailer) to be served.

1. What part of the system exists and what parts are to be built?
2. Plans and specifications for the Evaporation Pond are required to include:
 - a. Construction plans
 - b. Size
 - c. Elevations
 - d. Slopes of interior and exterior dike walls
 - e. Engineering design and calculation to show the evaporation and percolation rates.
 - f. Groundwater table
 - g. High level wet weather flow through the draws
 - h. Percolation tests
 - i. Type soils in pond area
3. Proximity of pond to water wells.
4. Grade line for sewer lines both collection and transmission from start through to the pond.

5. Size and type line.
6. Type septic tanks.
7. Inlet and outlet pipe type and details.
8. Details of the hookups.
9. Details of the cleanouts.

The plans and specifications must be signed and dated by a Professional Engineer certified in the State of Wyoming.

If I may be of assistance please feel free to call,
Water Quality Division Phone No. 777-7781.



Thomas F. Hamm
Environmental Engineer

cc: Robroy Logan, P.E.
1004 9th
Rawlins, Wyoming 82301

TFH/clf

Enclosures

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-339

Parcel B, Block 1, Foothills PUD, Phase 3A
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Homes</u> (Last)	<u>Gary</u> (First)	<u>S.</u> (Middle)
<u>c/o Albertson & Associates</u>		
<u>6 Park Circle</u>		
(Street or P.O. Box)		
<u>Gillette</u> (City)	<u>Campbell</u> (County)	<u>Wyoming 82716</u> (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 20, 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 P. Jordan
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

July 24, 1978
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-340

South Pass Maintenance Camp

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming State Highway Department

(Last) (First) (Middle)

P. O. Box 1708

(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001

(City) (County) (State)

to construct, install, or modify a Septic tank, leach field

facility located in Section 36, T30N, R100W

(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 L. Gales

Administrator
Water Quality Division

Robert E. Lundin

Director
Wyoming Dept. of Environmental Quality

July 28, 1978

Date of Issuance

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-341

Artesian Water Supply Well
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Tensleep
(Last) (First) (Middle)

Town Hall
(Street or P.O. Box)

Tensleep Washakie Wyoming 82442
(City) (County) (State)

to construct, install, or modify a Water Supply
facility located in Section 16, T47N, R88W
(Legal Description)

in the County of Washakie, 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. Sundin
Director
Wyoming Dept. of Environmental Quality

July 7, 1978
Date of Issuance

mailed 8/25/78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No: 78-342

Big Horn Reservoirs #1, #2 & #3
(Name of Facility)

This permit hereby authorizes the applicant:

Big Horn Coal Company
 (Last) (First) (Middle)

P. O. Box 724
 (Street or P.O. Box)

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

to construct, install, or modify a Three Sediment Collection Ponds
 facility located in Section 15 & 22, T57N, R84W
 (Legal Description)

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

Authorized by:

William L. Janda Administrator
 Water Quality Division

Robert E. Sundin Director
 Wyoming Dept. of Environmental Quality

August 14, 1978
Date of Issuance

PERMIT TO CONSTRUCT

*mailed -
9/2/78*

- New
- Renewal
- Modified

Permit No. 78-343

Etna Ward - LDS Church
(Name of Facility)

This permit hereby authorizes the applicant:

G. C. Berger - Berger's Plumbing & Heating
 (Last) (First) (Middle)

Box 1125
 (Street or P.O. Box)

Jackson Lincoln Wyoming 83001
 (City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
 facility located in Etna, Wyoming
 (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 J. Galan
 Administrator
 Water Quality Division

Robert E. Linn
 Director
 Wyoming Dept. of Environmental Quality

August 22, 1978
 Date of Issuance

Engineered Systems Associates, Inc., 224 South Arthur, Pocatello, ID 83201
 ATTN: Charles E. Sudweeks, P.E.

Mailed - 8-25-78

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-344

Ash Creek Sedimentation Basin
(Name of Facility)

This permit hereby authorizes the applicant:

Ash Creek Mining Company
 (Last) (First) (Middle)

10403 West Colfax, Suite 660
 (Street or P.O. Box)

Lakewood Colorado 80215
 (City) (County) (State)

to construct, install, or modify a Runoff Sediment Collection
 facility located in Section 22, T58N, 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 J. Gule
 Administrator
 Water Quality Division

Robert E. Sardin
 Director
 Wyoming Dept. of Environmental Quality

August 10, 1978
 Date of Issuance

78-3451A
M-1-18 80



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 17, 1980

Western Engineers-Architects, Inc.
ATTN: Mr. Gordon Grey
501 N. Sun Drive
Casper, WY 82601

Re: Addendum No. 1, 1978 Wardwell Water
& Sewer District Standard Specifications

Dear Mr. Grey:

We are enclosing the above referenced addendum which has been authorized for incorporation into the 1978 Wardwell Water & Sewer Standard Specifications for Water and Sewer Mains.

Please insert this addendum in your copy of the standard specifications.

Also, as previously agreed upon by telephone, you will remove from your copy of these specifications the following:

1. Paragraphs "D" & "E", Page 11-3
2. Paragraph "D", Page 14-3

We will in like manner up-date our office copy of these standard specifications.

Sincerely,

Robert H. Pinther
Robert H. Pinther, M.S., P.E.
Environmental Engineer
Area 4

RHP/nc

Enclosure

*mailed
10/23/78*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wardwell Water & Sewer District, Standard Specifications for Water
Distribution Lines and Sanitary Sewer Lines - 1978, P. O. Box 728
Mills, WY 82644

ARCHITECT OR ENGINEER: Western Engineers, Inc., 501 N. Sun Dr., Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-345RR

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

DATE OF REVIEW: 10/12/78

ACTION: APPROVED

COMMENTS:

1. When these standard specifications are to be used, Sheet No. 1 of the plans must bear a statement relative to the fact that the 1978 Standard Specifications for Water Distribution Lines and Sanitary Sewer Lines as approved by DEQ for Wardwell Water & Sewer District will be used.
2. As applicable, additional specifications covering facilities other than water and sewer lines must be submitted with the plans.

*Copy
Telephone
Review*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Wardwell Water & Sewer Standards Specifications~~

ARCHITECT OR ENGINEER: Western Engineers

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-345R~~

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

DATE OF REVIEW: 9/18/78

ACTION: ~~NOT APPROVED~~

COMMENTS:

1. Submit two copies of Item XIV Water & Sewer Line Installation. We do not have it.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: WARDWELL WATER & SEWER STANDARDS AND SPECIFICATIONS

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-345

REVIEWING ENGINEER: Thomas F. Hamm, Robert H. Pinther, Frank R. Harman

DATE OF REVIEW: 28 July 78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: Pge 10.2,E Pipe Clearance in rocks IAW AWWA C600 for water mains. Specify all Asbestos-Cement (AC) pipe be installed IAW AWWA C603 and all PVC pipe IAW UNI-BELL specifications.

Pge 10-1,3A. Add for plastic sewer lines Wide Trench- ASTM D2321-74 para 7.1.7.

3B. There is no AWWA class 125, use 150 or greater.

Pge 11-2,4 Do not use chain or cable for handling pipe with coatings.

Pge 11-3,D Water-Sewer lines must maintain a minimum 10 foot horizontal separation.

Pge 13-1,3.B Class 150 or greater, there is no class 125 AWWA.

pge 13-3,9 All tees, bends greater than 11°, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement.

Pge 14-3,(4) after 1 mg/l add "or no higher than generally prevails in the system."

General: Place a statement in the front "all AWWA, ASTM and other specifications will be of the latest issue." Delete the year of the spec throughout. (i.e C502-64) Add the Western Engineering Standard Drawings for Thrust Block Bearing Areas and Vertical Anchor Blocks.

Add the requirements of Sect 8.7 of the 10 States relative to Water Crossings.

With the implementation of the above comments, DEQ approval will be granted for use. Once approved, sheet one of the plans must bear a statement relative to the use of the 1978 DEQ approved Standards and Specifications will be used. By using this method then no specifications except special ones will have to be submitted.

Questions and/or comments should be directed to Tom Hamm, 777-7781.

This may not be construed as a final review.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-346

Lingle Rest Area (Goshen County)
(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Highway Department
(Last) (First) (Middle)
(Street or P.O. Box)
Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Septic system and water supply
facility located in Section 20, T25N, 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 J. Jones
Administrator
Water Quality Division

Robert E. Brennan
Director
Wyoming Dept. of Environmental Quality

July 27, 1978

Date of Issuance

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Henson Subdivision, Townhouses

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-347

REVIEWING ENGINEER: Roy E. Prior

William S. Gault

DATE OF REVIEW: 6/27/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Complete application for permit to construct forms and return copies enclosed.
2. Provide location map.
3. Provide letter from the City of Cody indicating they will provide services.
4. Provide plan and profile of the water and sewer lines.
5. Provide design flows for sewer lines. Can the existing line handle the added flows?
6. Provide typical drawings of sewer manhole, sewer taps, water taps, etc.
7. Dead end water lines will require a flushing hydrant or blowoff valve.
8. The sewer line must be 8 inches in diameter.
9. Will the 2 inch water line provide adequate water? Provide design details.
10. Where does the 6 inch line stop and the 2 inch line begin?
11. Provide complete specifications on materials and installation of all water and sewer lines.
12. Due to the number of comments this cannot be considered a final review.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-348

Pierce Enter Prizes Septic System

(Name of Facility)

This permit hereby authorizes the applicant:

Pierce Enter Prizes		
(Last)	(First)	(Middle)
P.O. Box 3173		
(Street or P.O. Box)		
Casper	Natrona	Wyoming 82602
(City)	(County)	(State)

to construct, install, or modify a Septic System

facility located in S32N, 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 L. Oakes
 Administrator
 Water Quality Division

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

July 27, 1978
Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 710-13410

UPZ Mine Sanitary Waste Disposal System
(Name of Facility)

This permit hereby authorizes the applicant:

Federal American Partners % Robert C. Peel
(Last) (First) (Middle)
Gas Hills Star Route
(Street or P.O. Box)
Riverton Wyoming 82501
(City) (County) (State)

to construct, install, or modify a waste treatment
facility located in Sec28 T33N R89W
(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 L. Gales
Administrator
Water Quality Division

Robert E. Burdick
Director
Wyoming Dept. of Environmental Quality

6-29-78
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-350

Webb Creek Ranches Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Wolz and Assoc. Inc.
(Last) (First) (Middle)
Box 322
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Public Water Supply-Source Dev. & Distribution System
facility located in Section 27, 28, 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. Janda
Administrator
Water Quality Division

Robert E. Hendon
Director
Wyoming Dept. of Environmental Quality

July 27, 1978

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

J Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Water Supply & Distribution System, Webb Creek Ranches, Range of Sec. 27 & 28, T33N, R80W, 6th P.M., National County~~

ARCHITECT OR ENGINEER: Wolz & Associates P.E.'s & LS. Box 322, Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: ~~78-350~~

REVIEWING ENGINEER: Frank R. Harman, P.E.

William S. Galand

DATE OF REVIEW: 6/28/78

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

A. WATER SUPPLY SYSTEM

1. Water Storage Tank

Provide manufacturer's detailed specifications on the storage tank construction to include among other items:

- a) thickness & specifications on plate metal
- b) design criteria on bolts & bolt joints on both the tank shelf and roof and floor.
- c) Pressures tested to withstand.
- d) Foundation and foundation design as computed by Consulting Engineer.
- e) any and all other design details on storage tank.

2. Well Water System

There shall be a designated area within a minimum of 100 feet radius of the well to be used solely for the well only. This is to prevent any possibility of contamination sources being installed within 100 feet of the well. This shall be covered in the covenant.

3. Bacteriological Purity of Water Supply

Following post-constructional chlorination of a minimum of 50 ppm for at least 24 hours at least 3 consecutive samples test for bacteriological quality shall test out as safe before the water can be turned on for use by the home owners.

Plastic sample containers and report forms may be obtained from the Public Health Lab at the Hathaway Bldg., in Cheyenne.

B. SEPTIC TANK SYSTEMS

1. Each septic tank system shall apply for a permit to construct to the DEQ prior to construction. They shall conform to Chapter III, Wyoming Water Quality Rules & Regulations. The minimum size of each individual tank shall be 1000 gallons and the size of the leach field shall be computed based upon the results of the percolation test performed on the specific lot and location where the leach field is to be installed. This also shall be covered in the covenant.

B,C