

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-51M

Uinta County Maintenance Shop  
(Name of Facility)

This permit hereby authorizes the applicant:

Uinta County  
(Last) (First) (Middle)  
c/o John G. Fanos, Commissioner  
Board of County Commission  
(Street or P.O. Box)

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

to construct, install, or modify a Waste Treatment  
facility located in Section 20  
(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. Ogden  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

February 3, 1978  
Date of Issuance

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-53RR

Halliburton Services Limited Mobile Home Park  
(Name of Facility)

This permit hereby authorizes the applicant:

Halliburton Services  
(Last) (First) (Middle)  
P. O. Box 805  
(Street or P.O. Box)  
Evanston Uinta Wyoming 82930  
(City) (County) (State)

to construct, install, or modify a Sewage Treatment  
facility located in Section 23, 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. Anderson  
Director  
Wyoming Dept. of Environmental Quality

June 14, 1978

Date of Issuance

cc: Uinta Engineering, P. O. Box 746, Evanston, Wyoming 82930

Jed

REVIEW OF PLANS AND SPECIFICATIONS

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

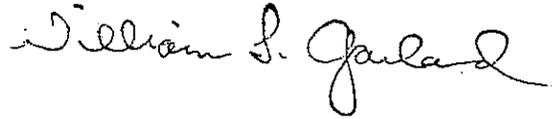
PROJECT: Halliburton Services, Limited Mobile Home Park,  
Section 23, T15N, R120W - Uinta County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-53R

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

DATE OF REVIEW: May 3, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The re-submittal indicates there are now 10 service connections. Please submit details of the well, pumps, storage facilities, etc.
- 2). Provide design calculations for water and sewer systems.
- 3). Provide City of Evanston specifications or materials and methods of construction. Any items not covered by Evanston's specifications should be included also.
- 4). There should be straight alignment into the first septic tank for each system.
- 5). Are the septic tanks serving lots 1 through 5, 2500 gal. each?
- 6). Provide details of the water risers.
- 7). Will there be a problem of the leach field flooding?
- 8). This cannot be considered a final review.

cc: Halliburton Services  
P. O. Box 805  
Evanston, Wyoming 82930

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Halliburton Services, Limited Mobile Home Park;  
Section 23, T15N, R120W - Uinta County

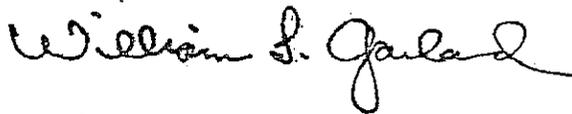
ARCHITECT OR ENGINEER: Uinta Engineering - ATTN: John Proffit, P.E.  
P. O. Box 746 - Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 78-53

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

DATE OF REVIEW: February 2, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

- 1). Please have owner or owners designated representative fill out and submit two (2) copies of the "Application for Permit to Construct, Install, or Modify Public Water Supplies and Waste Facilities in Wyoming".
- 2). The water system was not reviewed as it does not come under our jurisdiction (less than ten(10) connections).
- 3). A manhole is needed at the junction of the sewer mains near space #3 and #4.
- 4). Please indicate the sewer line slopes.
- 5). Submit manhole, cleanout and sewer riser details.
- 6). Complete specifications are needed (i.e. bedding, backfill, infiltration, etc.).

Enclosure: Permit Application

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-54MR

Lander Water System Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Lander  
(Last) (First) (Middle)  
c/o Kaiserman Associates, Inc.  
2211 South 300 West  
(Street or P.O. Box)

Salt Lake City Utah 84115  
(City) (County) (State)

to construct, install, or modify a Water Line & Reservoir  
facility located in Lander, Wyoming  
(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. Owen  
Administrator  
Water Quality Division

Robert E. Austin  
Director  
Wyoming Dept. of Environmental Quality

March 8, 1978  
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lander Water System Improvements, Phase II  
Fremont County

ARCHITECT OR ENGINEER: Kaiserman Associates, Inc.  
2211 South 300 West  
Salt Lake City, Utah 84115

WATER QUALITY DIVISION REFERENCE NUMBER: 78-54M

REVIEWING ENGINEER: Thomas F. Hamm - Donald *[Signature]* Armstrong, P.E.

DATE OF REVIEW: February 3, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Venting/air valves should be called for on an as required basis.
2. Delineate in specifications and on the applicable drawing(s) where cathodic protection is to be used.
3. Section 16915 - Refers to "installation of Telemetry System as shown on the drawing(s)". There is insufficient data delineated on the drawing(s). Cabling and location of equipment should be delineated.
4. Where is the electrical vault and how is electrical and telemetry to be placed in the vault? (Lighting, controls, wiring, etc.)
5. Recommend pole mounted flood light with switch on the pole to facilitate required night time visits.
6. Section 15069 - Page 10, Paragraph 306, change "Salt Lake City Water Department" to "Owner".
7. A statement should be made that all applicable requirements of the Ten State Standards shall be met.
8. The minimum separation of water and sewage lines is ten (10) feet and all water lines shall cross sewage lines with a minimum of eighteen (18) inches.
9. Capping of the eighteen (18) inch line at the inlet, two (2) water treatment plant ends and at the 2 MG tank site is not delineated.

PROJECT: Lander Water System Improvements, Phase II  
Fremont County

WATER QUALITY REFERENCE NUMBER: 78-54M (CONT)

10. Std Dwg no. 1 does not cover eighteen (18) inch pipe.
11. Road crossings, river/stream crossings, irrigation and canal crossings points are not delineated on the drawings.
12. In compliance with Water Quality Division policy, a permit to construct and formal approval will be made upon receipt by this office of updated specifications and drawings.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 78-55RR

Vista View Mobile Home Park  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Whitlock</u> (Last)	<u>Leonard</u> (First)	<u>F.</u> (Middle)
<u>P. O. Box 981</u> (Street or P.O. Box)		
<u>Powell</u> (City)	<u>Park</u> (County)	<u>Wyoming 82435</u> (State)

to construct, install, or modify a Wastewater Collection and Water Distribution  
facility located in Lot 62B Resurvey, T55N, R99W  
(Legal Description)

in the County of Park, 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. Galan  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

May 9, 1978

Date of Issuance

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Vista View Mobile Home Park, Lot 62B Resurvey, T55N,  
R99W, Park County

ARCHITECT OR ENGINEER: Donald P. Fisher, 979 Carbon Street,  
Ralston, Wyoming 82440

WATER QUALITY DIVISION REFERENCE NUMBER: 78-55R

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

DATE OF REVIEW: April 3, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

*William L. Garland*

COMMENTS:

- 1). Provide typical drawings of water and sewer service connections.
- 2). Water & sewer crossings should be per Section 15, Chapter III of Water Quality Rules and Regulations.
- 3). Provide specifications to prevent excessive sidefill pressures and ovalution of the sewer pipe.
- 4). The water line tests are not acceptable. The pressures should be higher and a leakage specified.
- 5). What is the working pressure of the water system?
- 6). The infiltration specifications should be for each section of pipe (i.e. manhole to manhole).
- 7). What is essentially full as indicated in the Displacement Test?
- 8). Which lift station submitted will be used? What is the design flow? What pumps will be used? Show a profile of the lift station. Is it protected from flooding?
- 9). What provisions are there for standby power?
- 10). Is there telemetering of the alarm system?
- 11). Are the pumps non-clogging?

PROJECT: Vista View Mobile Home Park - Park County

WATER QUALITY REFERENCE NUMBER: 78-55R

- 12). What is the detention time in the wet well?
- 13). The pumping rate as indicated seems too large for the subdivision, please verify.
- 14). Two copies of plans and specifications should be submitted.
- 15). Due to the number of comments, this cannot be considered a final review.

cc: Leonard F. Whitlock  
P. O. Box 981  
Powell, Wyoming 82435

REP/do

REVIEW OF PLANS AND SPECIFICATIONS

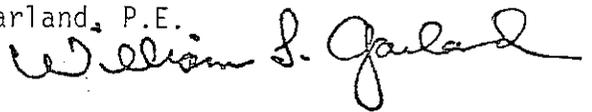
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Hathaway Office Building  
Cheyenne, Wyoming 82002

PROJECT: Vista View Mobile Home Park - Park County

ARCHITECT OR ENGINEER: Donald P. Fisher  
979 Carbon Street - Ralston, Wyoming 82440

WATER QUALITY DIVISION REFERENCE NUMBER: 78-55

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



DATE OF REVIEW: February 2, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Provide location map.
- 2). Why the twelve (12) inch diameter sewer line?
- 3). Each mobile home lot will require a single service line for both the water and sewer lines.
- 4). Provide water riser details.
- 5). Provide a complete set of specifications covering materials and installation. The City of Powell's are not approved.
- 6). Provide details of the lift station.
- 7). Water and sewer line crossings should be per Section 15, Chapter III of Water Quality Rules and Regulations.
- 8). Provide design details for water and sewer flows.
- 9). Provide typical drawings of manholes, fire hydrants, blocking, etc.
- 10). Show distance between water and sewer risers and water and sewer lines on a typical lot layout.
- 11). Saddles cannot be used for sewer taps.
- 12). Due to the number of comments, this cannot be considered a final review.

cc: Leonard F. Whitlock, P. O. Box 981, Powell, Wyoming 82435

*File copy*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-56

Sheridan Enterprises, Inc. - Welch No. 1 North Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

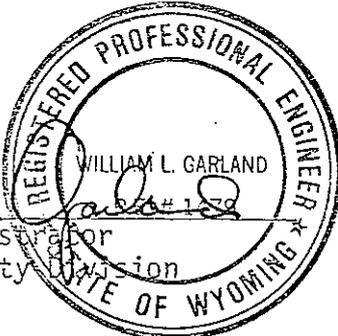
<u>Sheridan Enterprises</u> (Last)	<u>Attn: Peter Adler</u> (First)	<u></u> (Middle)
<u>P.O. Box 6025</u>		
<u>49 East Loucks Street</u> (Street or P.O. Box)		
<u>Sheridan</u> (City)	<u>Sheridan</u> (County)	<u>Wyoming 82801</u> (State)

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

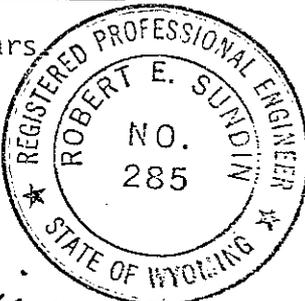
in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division  
STATE OF WYOMING



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



May 21, 1980  
Date of Issuance

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

SHERIDAN ENTERPRISES, INC.

49 EAST LOUCKS STREET  
P. O. BOX ~~6453~~ 6025  
SHERIDAN, WYOMING 82801

Telephone (307) 672-6431

ACCEPTED



May 16, 1980

Mr. Dan Kim  
Wyoming Department of Environmental  
Quality  
Water Quality Division  
30 E. Grinnell  
Sheridan, Wyoming 82801

Dear Dan,

In reviewing the permit status of our Welch No. 1 - North Mine, I was surprised to find that our septic wastewater Permit No. 78-56 had expired and required renewal. I had been mistaken in thinking the permit was valid for a five (5) year period.

I would like to request a renewal of Permit No. 78-56 for the Welch No. 1 - North Mine. A copy is attached. We hope to commence construction of the system in 1981

If you have any questions, or require additional information for renewal, please contact me at your convenience.

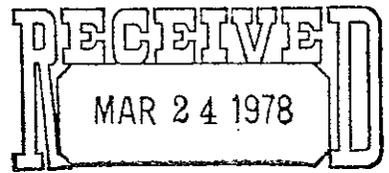
Sincerely,

Peter M. Adler  
Environmental Engineer

PMA/mjs

enc.

PERMIT TO CONSTRUCT



- New
- Renewal
- Modified

Permit No. 78-56

Sheridan Enterprises  
(Name of Facility)

This permit hereby authorizes the applicant:

Sheridan Enterprises  
(Last) (First) (Middle)

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

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

to construct, install, or modify a Septic Wastewater  
facility located in Section 2, T57N, 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 P. Anderson  
Administrator  
Water Quality Division

Robert E. Anderson  
Director  
Wyoming Dept. of Environmental Quality

February 16, 1978

Date of Issuance

cc: Walter Pilch, P.E., P. O. Box 6498, Sheridan, Wyoming, 82801  
Sheridan District Sanitarian

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-56

Sheridan Enterprises  
(Name of Facility)

This permit hereby authorizes the applicant:

Sheridan Enterprises  
(Last) (First) (Middle)  
45 East Loucks Street  
(Street or P.O. Box)  
Sheridan Sheridan Wyoming 82801  
(City) (County) (State)

to construct, install, or modify a Septic Wastewater  
facility located in Section 2, T57N, 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 P. Quinn  
Administrator  
Water Quality Division

Robert E. Hendin  
Director  
Wyoming Dept. of Environmental Quality

February 16, 1978

Date of Issuance

cc: Walter Pilch, P.E., P. O. Box 6498, Sheridan, Wyoming, 82801  
Sheridan District Sanitarian

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. EDA 78-57MRR

Town of Granger Water System Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Granger</u>		
<u>(Last)</u>	<u>(First)</u>	<u>(Middle)</u>
<u>c/o Tudor Engineering</u>		
<u>450 South Federal Blvd.</u>		
<u>(Street or P.O. Box)</u>		
<u>Riverton</u>	<u>Fremont</u>	<u>Wyoming 82501</u>
<u>(City)</u>	<u>(County)</u>	<u>(State)</u>

to construct, install, or modify a Water System  
facility located in Town of Granger  
(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. Quinn  
Administrator  
Water Quality Division

Robert E. Hansen  
Director  
Wyoming Dept. of Environmental Quality

March 24, 1978  
Date of Issuance

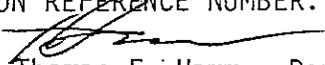
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Granger - Sweetwater County  
Water System Improvements

ARCHITECT OR ENGINEER: Tudor Engineering, 450 South Federal Blvd.,  
Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-57MR

REVIEWING ENGINEER:  Thomas F. Hamm - Donald L. Armstrong, P.E. 

DATE OF REVIEW: March 8, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

There are too many (20) places where data should be delineated and not left to the Engineer. What type bedding is used where? Is the trench bottom to serve as the bedding unless someone determines otherwise? Has a Corps of Engineers river crossing permit been obtained (if applicable)?

TECHNICAL SPECS

1. Page TS-13-6.7.2.b. Last sentence change ". . .minimum size required by the code. . ." to read ". . .minimum size required by the NEC code or the manufacturer."

Page TS-21-6.11 Where is the bedding taken from? The trench?

Page TS-22 6.11.3 Requires four inches of bedding along the entire length of the pipe, but STS-7.3.h page STS-2 says ". . .when existing material. . .is unsuitable. . ." There appears to be a conflict.

SUPPLEMENTAL SPECS

2. Page STS-3.7.3i Change "10 inch" to "6 inch" to comply with AWWA and/or manufacturer's recommendations.

Page STS-4 7.2.2d Delete the -DR25 or change -DR25 to read a DR of 25 or less.

Page STS-9 7.5.2.F Why aluminum manhole frames and covers? Is aluminum conducive to the local soil and moisture conditions? Is not aluminum more expensive than a ferrous material?

PROJECT: Town of Granger - Sweetwater County  
Water System Improvements

WATER QUALITY REFERENCE NUMBER: 78-57MR (CONT)

STS-10 7.5.2.h Last line ". . .compatible with the cast iron frame with which the dust pan is used." Since the manholes are aluminum framed, does this imply a cast iron fram is inserted into the aluminum frame for the dust cover to rest on?

STS-12 7.6.3 Change "10 ppm" to "25 ppm" to comply with AWWA requirements.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Granger - Water System Improvements - Phase II  
Sweetwater County Wyoming

ARCHITECT OR ENGINEER: Tudor Engineering  
1802 North 33rd  
Boise, Idaho 83703

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-57M

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

DATE OF REVIEW: February 13, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:  
WATER AND SEWER CROSSINGS

No mention of pre-conditions on water and sewer crossings were made on either the specifications or the plans.

It is required that the minimum horizontal and vertical distances of separation as prescribed by the Ten State Standards be maintained (copy attached).

## 29.2 Relation to Water Works Structures

While no general statement can be made to cover all conditions, it is generally recognized that sewers shall meet the requirements of the approving agency with respect to minimum distances from public water supply wells or other water supply sources and structures.

## 29.3 Relation to Water Mains

### 29.31 Horizontal Separation

Whenever possible, sewers should be laid at least 10 feet, horizontally, from any existing or proposed water main. Should local conditions prevent a lateral separation of 10 feet, a sewer may be laid closer than 10 feet to a water main if:

- a. It is laid in a separate trench.
- b. It is laid in the same trench with the water mains located at one side on a bench of undisturbed earth.
- c. In either case the elevation of the crown of the sewer is at least 18 inches below the invert of the water main.

### 29.32 Vertical Separation

Whenever sewers must cross under water mains, the sewer shall be laid at such an elevation that the top of the sewer is at least 18 inches below the bottom of the water main. When the elevation of the sewer cannot be buried to meet the above requirement, the water main shall be relocated to provide this separation or reconstructed with slip-on or mechanical-joint cast-iron pipe, asbestos-cement pressure pipe or prestressed concrete cylinder pipe for a distance of 10 feet on each side of the sewer. One full length of water main should be centered over the sewer so that both joints will be as far from the sewer as possible.

### 29.33 Special Conditions

When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the water main should be constructed of slip-on or mechanical-joint cast-iron pipe, asbestos-cement pressure pipe or prestressed concrete cylinder pipe and the sewer constructed of mechanical-joint cast-iron pipe and both services should be pressure tested to assure water-tightness.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-59

Big Horn Coal Company Sewage Lagoon #1  
(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 Sanitary Sewage Lagoon  
facility located in Section 15, T57N, 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. Galbraith  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

February 13, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-60RR

Westview Village Subdivision  
(Name of Facility)

This permit hereby authorizes the applicant:

J & W Construction, Inc.  
 (Last) (First) (Middle)

P. O. Box 816  
 (Street or P.O. Box)

Afton Lincoln Wyoming 83110  
 (City) (County) (State)

to construct, install, or modify a Water Supply and Distribution  
 facility located in Section 6, T31N, 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. Paul  
 Administrator  
 Water Quality Division

Robert E. Lundin  
 Director  
 Wyoming Dept. of Environmental Quality

May 9, 1978

Date of Issuance  
 cc: Peter M. Jorgensen, P.E., P. O. Box 1142, Jackson, Wyoming 83001

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Westview Village Subd., Section 6, T31N, R118W, Lincoln County

ARCHITECT OR ENGINEER: Peter M. Jorgensen, Consulting Engineer,  
P. O. Box 1142, Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-60R

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

DATE OF REVIEW: April 7, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). What is the distance between the vent opening and the top of the storage tank? (24" - 36" required)
- 2). Is there a valve between the storage and the pump?
- 3). Can the storage tank be bypassed to permit repairs?
- 4). Provide information on pitless adaptor and well cap.
- 5). Provide manufacturers details on the pump.
- 6). Provide manufacturers details on frost proof hydrant (anti-pollution type required).
- 7). What is the distance from the top of the well casing and the ground surface (18 inches required).
- 8). This cannot be considered a final review.

cc: J & W Construction, Inc.  
P. O. Box 816  
Afton, Wyoming 83110

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant  
Lincoln County

ARCHITECT OR ENGINEER: Johnson-Fermelia & Crank, P. O. Box 631,  
Kemmerer, Wyoming 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 78-61M

REVIEWING ENGINEER: Thomas F. Hamm - Don Armstrong, P.E.

DATE OF REVIEW: March 6, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). There are no details relative to control of the influent pumps with relation to the influent flow rate and depth in the deep well.
- 2). No data is provided relative to the control(s) systems and remote activation of motors and valves. What type instrumentation will be used to determine if a motor turned on or valve moved when committed? Data/information is required on how the graphic panel works and how the control panel works. If the graphic panel has no "real useful purpose" then put that money on something else.
- 3). There are numerous spelling errors throughout which detracts from the presentation of the data.
- 4). There are not legends or delineation of symbols used on the drawings. Since an industry wide standard for symbols is not in use it is difficult to decipher each engineer's own set of symbols.
- 5). The drawings are "too cluttered" making it hard to glean all of the overwhelming amount of details presented on each drawing.
- 6). Since this is not a stabilized sludge, before the design can be approved an "approved solid waste (sludge) disposal plan" must be obtained. Otherwise, a digester will be required. . .reference Don Armstrong's comments of April 1977.
- 7). Chlorinator building - "The controls for the fans and lights shall be such that they will automatically operate when the door is opened and can be also manually operated from the outside without opening the door". From Ten State Standards, incorporate these requirements.

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant

WATER QUALITY REFERENCE NUMBER: 78-61M (CONT)

- 8). Have the comments made by Mr. Armstrong to Mr. Dan Dean on February 8, 1978 been incorporated or replies prepared? Especially the request for an evaluation of feeding the influent into the western most oxidation ditch in order to insure maximum residence in the oxidation ditch.
- 9). Are variable speed pumps for raw sewage the best and most economic way to go?
- 10). 460 VAC and 480 VAC are used interchangeably throughout, select one.
- 11). A method of bypassing the grit chamber should be provided to facilitate maintenance and inspections.
- 12). Have these plans been run through OSHA?
- 13). SPECIFICATIONS
  - 102b. Excavate and backfill IAW AWWA \_\_\_\_\_.
  - 102b. Type bedding IAW AWWA.
  - 102c. IAW AWWA \_\_\_\_\_.
  - 103a. No pipe to be laid if water in trench or excavation.
  - 203a. Blasting planned and directed by blasting engineer,
  - 204 Since area where construction will take place has a high water table and is wet this will affect requirements for mud and wet gravel material.--
  - 3.10b. Remove water before pouring concrete.
  - 21.39F. External propane piping to be laid law \_\_\_\_\_.
  - 23.05.1a. What is range of the raw sewage meter?
  - 23.05.1b. What is the range of the 2 return sludge meters?
  - 23.05.2. Details of the alarm system and related instrumentation required.
  - 23.06. "One (1) natural gas powered energy generator unit. . ." How does this relate to the diesel generator?
  - 23.07. Details of instrumentation required,
  - 24.10. Gate valves - IAW AWWA C500-71.
  - 24.11. Check valves - IAW AWWA C508-76.

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant

WATER QUALITY REFERENCE NUMBER: 78-61M (CONT)

- 24.13. To what AWWA specifications?
- 24.14. Sluice gates conform to AWWA C501-67.
- 24.20. Fire hydrants conform to AWWA C502-78.
- 24.22. Give details on thrust blocking.
- 2423dii. Change "construction offices" to "engineers".
- 25.04.d. Specify minimum motor size.
- 25.06.c. Sump pump details on drawing are missing.
- 24.09. Two break tanks are required (control building and sludge building).
- 25.06.b.(3) "Raw sewage pumps" should read "return sludge pumps".
- 26.01. Add "the sludge drying system shall be installed IAW manufacturer recommendations. If there is a conflict between the manufacturer, the drawings and specifications, the \_\_\_\_\_ will prevail.
- 26.05b. "Filter bags" manufacturers part number.
- 26.05.d. Define/delineate curtain requirements, length, width, thickness, type, hangers.
- 26.05.h&i. Details of controls and switches required.
- 26.05.i. 460 volt 1 phase?
- 3.04.b. "Shown on the attached standard drawing". Where is it?
- 32.02.e. Does not agree with sheet 7 of drawing.
- 32.03 Where is laboratory equipment to be located.

14). DRAWINGS

- a. No legends or symbol tales are given.
- b. Drawings are too cluttered for easy reading and interpretation.
- c. The required seals and/or signatures are missing.
- d. Details of propane piping missing.

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant

WATER QUALITY REFERENCE NUMBER: 78-61M (CONT)

SHEET 3

1. Water lines cross sewer lines, therefore, the Ten State requirements for the crossings should be called out.
2. There are no valves on water lines - add:
  - a. Two valves at water line entrance, one for each leg.
  - b. Cutoff valve for control building and at 90° bend to isolate system.
  - c. Cutoff valves for sludge treatment building and line cutoff valves.
  - d. Cutoff valves to chlorine building.
3. Elevation details for the influent lines from MH-1 and MH-2 to MH-3 are missing.
4. Outfall structure details are hard to decipher and understand.
5. There should be gas cutoff valves for each structure.
6. Add thrust block details.

SHEET 4

1. The door between grit room and laboratory should be deleted.
2. The door between grit room and locker room should be added vice #1.
3. The jib crane should be long enough to facilitate the loading and unloading of equipment into trucks. Either a telescoping boom or monorail would suffice.
4. The door between the lab and storage room should be a type C vice type E. This will reduce the chances of collision by personnel carrying samples.
5. The doors between the storage room and outside should be type B vice type A for safety.

SHEET 4 OR 5

1. Sump and drain details.

PAGE 5

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant

WATER QUALITY REFERENCE NUMBER: 78-61M (CONT)

SHEET 7

1. The exhaust vent from the fume hood should have an exhaust fan.
2. Where does lab furniture items G, H, & I go?
3. North elevation does not reflect type D door as delineated on Sheet 4. Recommend type C door to grit room.

SHEET 8

1. The sump lines and control building sewage lines are not delineated entering wet well and grit chamber.
2. The arrangement for cleaning the bar screen and the drain area are dangerous and present a hazard during winter. The ice and snow will make cleaning precarious. A cover for the area should be considered.
3. Dimensions and details for the scum box overflow line into the wet well are missing.
4. Dimensions and details are missing, the wet well for clarifier, drain lines, scum line, sludge drying drain line, sump pump.

SHEET 9

1. Basement drain and sump details must be better delineated.
2. How are lines into the wet well sealed between the line and the sleeve?
3. See #4 from sheet 8.

SHEET 10

1. 3/4" pump water seal drain line to where? Seal line?
2. 4" drain lines?
3. The 1/2" pump water seal line below floor details?

SHEET 11

1. How does the 4" building sewer line connect/empty? Details.

SHEET 12

1. Pressure relief valves are required in the south end of the ditch.

PAGE 6

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant

WATER QUALITY REFERENCE NUMBER: 78-61M (CONT)

SHEET 12 (CONT)

2. Section A shows 3 pressure relief valves in the north end but the plan view sheet shows 2.
3. No dimensions on compacted fill.
4. The oxidation ditch influent and return sludge inlet lines should be moved to the same position on the southwest corner of the oxidation ditch. This will decrease the chances of short circuiting and ensure flow achieves a minimum of one complete circuit.

SHEET 14

1. What are the entry angles for lines into the scum box?
2. On sheet 13 the scum lines flow into the scum box, however, there is a scum box on each clarifier. One should be called something different to avoid confusion (scum collection box). CLARITY ONLY

SHEET 15

1. The chlorine leak alarm should also be tied to the control room,
2. How does the raw sewage meter pace/control the chlorinator?

SHEET 17

1. Start the slope for bag drain collection outside the footings to minimize splash and messy floors. The splatter caused by the draining bags must be addressed.
2. A positive ventilation system is required for the building.

SHEET 19

1. Exhaust fan required for fume hood.
2. On basement plan what is the 2" line running into the grit chamber?
3. Is this the control building sewer lines and drainage? Very vague.

SHEET 22

1. Outside lighting details such as pole lights, mountings, light fixtures and direction light faces are missing.
2. Add chlorine alarm to graphic panel.
3. How deep is outside lighting conduit and how should it be run with respect to all other lines? Or rather, how close to the other lines?

PAGE 7

PROJECT: Kemmerer-Diamondville Wyoming - Wastewater Treatment Plant

WATER QUALITY REFERENCE NUMBER: 78-61M (CONT)

SHEET 23

1. The lab work counters do not have enough receptacles as required by NEC.
2. Why two thermostats at the entry to the control room?
3. A  $S_3$  is missing at the door between the control room and storage room?
4. There are wiring errors and inconsistencies on the wiring plan.
5. Sump pump wiring?
6. Bathroom receptacle requires ground fault protection.

SHEET 24

1. The thermostat location in the chlorine contact building is less than ideal.
  2. See General Comments - chlorinator building light and fan controls do not meet Ten State Standards.
  3. The grit drive motor is 3/4 hp in the specifications and 1/2 hp on the rating chart.
  4. Repeat - an exhaust system is required for the sludge drying building.
  5. Clarifier motors are called out as 1/2 hp. Is this true?
  6. - Since the sludge drying building will have wet/damp floors, all receptacles require ground fault protection.
- 15). This may not be construed as a final review.
- 16). Questions and/or clarifications should be directed to Tom Hamm, (307) 777-7781.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-62R

Casper Skelly Truck Stop  
(Name of Facility)

This permit hereby authorizes the applicant:

Coleman Custom Service  
(Last) (First) (Middle)

345 Oregon Trail - Mountain View Addition  
(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 34, 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.

Authorized by:

William J. Gale  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

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

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

REVIEW OF PLANS AND SPECIFICATIONS

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

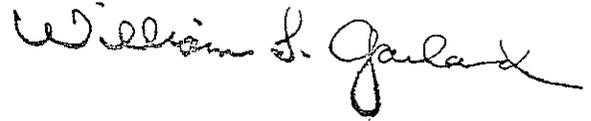
PROJECT: Casper Skelly Truck Stop, Wastewater Disposal System,  
Section 34, T34N, R80W, Natrona County

ARCHITECT OR ENGINEER: Western Construction, Inc.  
ATTN: Edwin Rate, Jr., P.E.  
P. O. Box 930 - Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-62

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

DATE OF REVIEW: February 27, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Indicate the size of the sewer line to the new septic tanks and leach field. It should be at least six (6) inches in size.
- 2). How will the flows to each leach field be split from the existing 4" VCT pipe?

cc: Nix Anderson

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-63M

8" & 12" Water Main, East Lakeview-Diamond Avenue  
(Name of Facility)

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities  
(Last) (First) (Middle)  
Herman Noe, Assistant Director  
P. O. Box 1469  
(Street or P.O. Box)  
Cheyenne Laramie Wyoming 82001  
(City) (County) (State)

to construct, install, or modify a Water Distribution System  
facility located in Section 27, T14, R66  
(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. Olson  
Administrator  
Water Quality Division

Robert E. Scudler  
Director  
Wyoming Dept. of Environmental Quality

March 8, 1978  
Date of Issuance

PERMIT TO CONSTRUCT

New

Renewal

Permit No. 78-64R

Modified

Lucky Mc Addition #1  
(Name of Facility)

This permit hereby authorizes the applicant:

Lucky McUranium Corporation  
(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 Supply System  
facility located in Section 9, 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.

THIS PERMIT DOES NOT INCLUDE THE WATER WELL.

Authorized by:

William P. O'Connell  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

cc: Gingery Associates, Inc., 2840 South Vallejo Street, Englewood, CO 80110

REVIEW OF PLANS AND SPECIFICATIONS

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

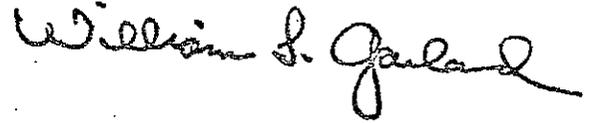
PROJECT: Lucky Mc Addition No. 1, (Well & Storage Tank)  
Fremont County

ARCHITECT OR ENGINEER: Gingery Associates, Inc., 2840 South Vallejo Street,  
Englewood, CO 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 78-64

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

DATE OF REVIEW: February 27, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Provide installation specifications for the water lines, valves, fire hydrants, etc.
- 2). Provide specifications for the water lines, valves, fire hydrants, etc.
- 3). Provide complete details of the well, pitless adaptor, sanitary seal, grouting, etc.
- 4). Provide specifications for the water tank, tank coatings, disinfection, soils, etc.
- 5). Does the vent on the tank have a large enough opening to pass air at maximum rate of water entering or leaving the tank without excessive pressure?
- 6). Is the tank an AWWA tank?
- 7). It is recommended the well be piped so the tank can be taken out of service for maintenance.
- 8). Provide specifications on pumps, pump curves, header details, valving details, disinfection, etc.
- 9). The air and vacuum valve on the water line should have a screened, downward facing elbow.
- 10). Will a pressure reducing pressure sustaining valve be used at the junction with Jeffrey City system?
- 11). Two (2) sets of plans and specifications are required. Only one (1) was received.
- 12). Due to the number of comments this cannot be considered a final review.

cc: Lucky Mc Uranium Corporation, 550 California Street, San Francisco, CA 94014

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-65

Olman Heath Shop Building  
(Name of Facility)

This permit hereby authorizes the applicant:

Olman Heath Company  
(Last) (First) (Middle)

P. O. Box 904  
(Street or P.O. Box)

Douglas Converse Wyoming 82633  
(City) (County) (State)

to construct, install, or modify a Septic Wastewater  
facility located in Section 34, T33N, R71W  
(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 F. Garland  
Administrator  
Water Quality Division

Robert E. Scindler  
Director  
Wyoming Dept. of Environmental Quality

February 14, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-66M

Town of Thermopolis Water Treatment Plant  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Thermopolis  
(Last) (First) (Middle)  
c/o Engineering Associates  
P. O. Box 1539  
(Street or P.O. Box)  
Cody Park Wyoming 82414  
(City) (County) (State)

to construct, install, or modify a Solids Disposal  
facility located in Thermopolis Wyoming  
(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 J. O'Connell  
Administrator  
Water Quality Division

Robert E. Stender  
Director  
Wyoming Dept. of Environmental Quality

February 14, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-67

Ryall Electric Supply  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Ryall</u> (Last)	<u>Jim</u> (First)	<u>C.</u> (Middle)
<u>2405 Grandview Apt. 34</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 Small Wastewater  
facility located in Section 31, 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 P. Gale  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

March 2, 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. 78-68R

East Saddle Subdivision  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Arnold</u> (Last)	<u>Tom</u> (First)	<u>L.</u> (Middle)
<u>c/o Plains Engineering - ATTN: Robert C. Hartley</u> <u>P. O. Box 727</u>		
(Street or P.O. Box)		
<u>Newcastle</u> (City)	<u>Weston</u> (County)	<u>Wyoming 82701</u> (State)

to construct, install, or modify a Water Distribution & Wastewater Collection Lines  
facility located in Section 25, T45N, R62W  
(Legal Description)

in the County of Weston, 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. Grand  
Administrator  
Water Quality Division

Robert E. Scardin  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978  
Date of Issuance

13

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: East Saddle Subdivision, Section 25, T45N, R62W,  
Newcastle, Wyoming - Weston County

ARCHITECT OR ENGINEER: Plains Engineering  
ATTN: James T. Fletcher, P.E.  
20 North Seneca Avenue - Newcastle, Wyoming 82701

WATER QUALITY DIVISION REFERENCE NUMBER: 78-68

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

DATE OF REVIEW: February 22, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). A temporary blow-off or fire hydrant is needed on the east dead end line teeing off from Thumb Hill Road. This line is too long to leave it as a dead end. Provide details.

February 10, 1978

Mr. Elwood Rennison  
Morrison-Knudsen Company, Inc.  
P. O. Box 149  
Gillette, Wyoming 82716

SUBJECT: Septic Tank and Leach  
Field System for M-K.  
Ref. No. 78-69

Dear Mr. Rennison:

I have received and reviewed the subject plans. Although no permit will be issued for the facility, since it has already been constructed, it appears to meet the requirements of this Division and is therefore approved. I am returning one (1) set of the plans.

Thank you for your cooperation in this matter. I am looking forward to seeing you when (and if) I make an inspection of your mines.

Yours truly,

*Tom Mueller*

Tom Mueller  
Environmental Engineer

TM/do

cc: R. J. Timm & Associates  
P. O. Box 726  
Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-70R

ENQ Evaporation Reservoir  
(Name of Facility)

This permit hereby authorizes the applicant:

Minerals Exploration Company  
(Last) (First) (Middle)

Attn: Phil Carlos  
1846 West Grant Road, Suite 108  
(Street or P.O. Box)

Tucson, Arizona 85704  
(City) (County) (State)

to construct, install, or modify a waste treatment  
facility located in Sec. 1, T24N, R94W  
(Legal Description)

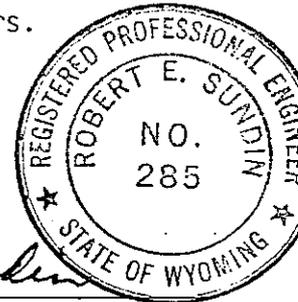
in the County of Sweetwater, in the State of  
Wyoming. This permit shall be effective for a period of two (2) years  
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland  
Administrator  
Water Quality Division



Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality



June 8, 1979  
Date of Issuance

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-70R

ENQ Evaporation Reservoir

(Name of Facility)

This permit hereby authorizes the applicant:

Wold Nuclear Company

(Last)

(First)

(Middle)

c/o David C. Beling

P. O. Box 114

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

to construct, install, or modify a Waste Treatment  
facility located in Section 1, T24N, R94W  
(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. Galand  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

May 25, 1978

Date of Issuance

2

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ENQ Evaporation Reservoir, Sweetwater County

ARCHITECT OR ENGINEER: Wold Nuclear Co., P. O. Box 114, Casper, Wyoming 82601  
ATTN: David C. Beling

WATER QUALITY DIVISION REFERENCE NUMBER: 78-70

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

DATE OF REVIEW: March 10, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Provide compaction specifications for the dikes.
- 2). What provisions have been made to protect the liner in the area of the pipe discharges?
- 3). Justify the 2 foot free board. Will the waves top the dike?



*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 14, 1978

David C. Beling  
Manager of Mining  
World Nuclear Company  
P. O. Box 114  
Casper, Wyoming 82601

Dear Mr. Beling:

The review of your application for a permit to construct waste holding ponds is enclosed. Will the support facilities have any domestic waste treatment facilities? If so, a permit to construct will be necessary for them also. The same would apply to the exploration camp.

If you have any questions concerning this matter, please contact me.

Sincerely,

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

Roy E. Prior  
Environmental Engineer

REP/do

cc

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA 78-71M

Town of Jackson Water System Improvement Phase C  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Jackson</u> (Last)	<u></u> (First)	<u></u> (Middle)
<u>c/o Nelson Engineering</u>		
<u>P. O. Box 1141</u>		
(Street or P.O. Box)		
<u>Jackson</u> (City)	<u>Teton</u> (County)	<u>Wyoming 83001</u> (State)

to construct, install, or modify a Water System  
facility located in Jackson, Wyoming  
(Legal Description)

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

Authorized by:

William P. Gable  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

February 16, 1978

Date of Issuance

*DR*

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-72R

Sutherland Estates Phase II  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Vanscoy</u> (Last)	<u>Edward</u> (First)	<u>H.</u> (Middle)
<u>610 Butler</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 & Wastewater Collection  
facility located in Section 33, 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 J. Quinn  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

March 20, 1978

Date of Issuance  
cc: Albertson & Associates, 6 Park Circle, Gillette, Wyoming 82716  
ATTN: Gary W. Albertson, P.E.

JS

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sutherland Estates, Phase II, Campbell County

ARCHITECT OR ENGINEER: Davis Surveying  
ATTN: Gary Albertson, P.E.  
610 Butler Spaeth - Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-72

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

DATE OF REVIEW: February 20, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: GENERAL

- 1). Please have owner or owners designated representative fill out and submit two copies of the "Application for Permit to Construct".
- 2). A letter is needed from the City of Gillette indicating their acceptance of the subdivision and that they will provide water and sewer service.
- 3). Complete design criteria for sizing the water and sewer lines are needed including all future flows.

WATER SYSTEM

- 4). The water line should be pressure tested and leakage tested in accordance to AWWA C601. The pressure test should last no less than one (1) hour and the leakage test no less than two (2) hours. Leakage is not set forth in AWWA C900. Indicate amount of leakage allowed.

SEWER SYSTEM

- 5). Detailed specifications are needed for bedding and backfilling in order to prevent excessive sidefill pressures or ovalation. The use of a deflection testing specification is highly recommended (i.e. Go-No-Go Pig at 5% deflection).
- 6). Leakage tests shall be performed. Appropriate water or low pressure air testing shall be performed for all lines laid above the groundwater. Provide details.
- 7). Complete specifications are needed for the RCP sewer pipe.

Enclosure: Application for Permit to Construct (2)

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-73

Kay Hoffman Subdivision  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Hoffman</u> (Last)	<u>Kay</u> (First)	<u></u> (Middle)
<u>c/o Worthington, Lenhart &amp; Carpenter</u>		
<u>632 South David</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 Distribution  
facility located in Section 29, 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 P. Quinn  
Administrator  
Water Quality Division

Robert E. Anderson  
Director  
Wyoming Dept. of Environmental Quality

March 2, 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. 78-74M

City of Casper Sewer Line Extension  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Casper  
(Last) (First) (Middle)  
c/o Worthington, Lenhart & Carpenter, Inc.  
632 South David  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Sewer Line Extension  
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.

Authorized by: -

William L. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

March 17, 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. 78-75RR

Keyhole Trailer Sewer System  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Ogden</u> (Last)	<u>Jon</u> (First)	<u>Stewart</u> (Middle)
<u>State of Wyoming - Game and Fish Department</u> (Street or P.O. Box)		
<u>Cheyenne</u> (City)	<u>Laramie</u> (County)	<u>Wyoming 82001</u> (State)

to construct, install, or modify a Trailer Sewer System  
facility located in Section 27, T51N, R66W  
(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 S. Gula  
Administrator  
Water Quality Division

[Signature]  
Director  
Wyoming Dept. of Environmental Quality

April 20, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Keyhole Trailer Sewer System - Crook County  
Wyoming Game and Fish Department

ARCHITECT OR ENGINEER: Jon S. Ogden, Chief Engineer, Wyoming Game  
and Fish Department

WATER QUALITY DIVISION REFERENCE NUMBER: 78-75R

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

DATE OF REVIEW: April 14, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Provide the following in connection with the septic tank:
  - a. Protect the tank inside and out by a commercial bitumastic or equivalent compound to prevent corrosion.
  - b. Specify that the tank inlet shall be 3 inches above the outlet.
  - c. Two manholes each at least 20 inches in diameter are required for access to the tank. One shall be located over the tank inlet and the other shall be located over the tank outlet.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Keyhole Trailer Sewer System - Crook County  
Wyoming Game and Fish Department

ARCHITECT OR ENGINEER: Jon S. Ogden, Chief Engineer  
Wyoming Game & Fish Department

WATER QUALITY DIVISION REFERENCE NUMBER: 78-75

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

DATE OF REVIEW: March 7, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Submit plan and elevation views of the proposed septic tank. See page 17 & 18 of enclosed Chapter III, Wyoming Water Quality Rules and Regulations.
- 2). The leach field shall be layed relatively flat.
- 3). The minimum depth of the leach field trench shall be 24 inches.
- 4). There shall be a minimum of two (2) inches of ground above the leach field pipe and six (6) inches below the pipe.
- 5). The gravel covered disposal field lines shall be covered with untreated building paper or its equivalent.
- 6). Run percolation test at at least two locations without eliminating the 12 hour soaking period.
- 7). Is the seasonal high ground water table at least 4 feet below the proposed waste disposal system piping?
- 8). Is there any rock or other impervious strata less than 4 feet below the waste disposal system piping?

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-76MR

City of Sheridan 4 MG Water Storage Tank  
(Name of Facility)

This permit hereby authorizes the applicant:

Dean                      Marshall                      M.  
(Last)                      (First)                      (Middle)

City Hall  
(Street or P.O. Box)

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

to construct, install, or modify a Public Water Supply  
facility located in Section 28, 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. Jones  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

May 4, 1978

Date of Issuance  
cc: Howard, Needles, Tammen & Bergendoff, ATTN: Gray Wangelin, P.E., P. O.  
Box 3478, 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 Sheridan, Water System Improvements, 4 MG Water  
Storage Tank - Sheridan County

ARCHITECT OR ENGINEER: Howard Needles Tammen & Bergendoff, ATTN: John E.  
Donmeyer, P. O. Box 3478, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-76M

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

DATE OF REVIEW: April 5, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Submit manufacturer's statement or other acceptable evidence that the bonding agent "congressive" 1001 LPL will not transmit to the water in the storage tank any toxic or other deleterious properties.
- 2). Provide a 24 mesh non-corrodible screen within the overflow pipe at a location least susceptible to damage by vandalism.
- 3). Each vent shall terminate in an inverted U construction with the opening 24 to 36 inches above the roof and covered with 24 mesh non-corrodible screen installed in the pipe at a location least susceptible to vandalism.
- 4). The open end of each vacuum relief valve in the valve vault shall extend to at least one foot above grade and shall be provided with a screened, downward facing opening.
- 5). The tank shall be disinfected in accordance with current AWWA standard D102. Two or more successive sets of samples taken at 24-hour intervals, shall indicate microbiologically satisfactory water before the tank is placed into operation.

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-78M

City of Sheridan  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan

(Last) (First) (Middle)  
c/o Howard Needles Tammen & Bergendoff  
P. O. Box 3478 - Intermountain Building  
(Street or P.O. Box)

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

to construct, install, or modify a Telemetry & Controls  
facility located in Section 28, 29 & 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 L. Garland  
Administrator  
Water Quality Division

Robert E. Austin  
Director  
Wyoming Dept. of Environmental Quality

April 10, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-79R

Bar X Field Camp  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Fremont Energy Corporation</u>		
(Last)	(First)	(Middle)
<u>c/o Burk &amp; Painter, P.C.</u>		
<u>Suite A, The Wyoming Building</u>		
(Street or P.O. Box)		
<u>Casper</u>	<u>Natrona</u>	<u>Wyoming 82601</u>
(City)	(County)	(State)

to construct, install, or modify a Waste Treatment  
facility located in Section 20, T25N, R99W  
(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. Galand  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

May 11, 1978

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

jt

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fremont Energy Corporation, Bar X Field Camp,  
Sweetwater County

ARCHITECT OR ENGINEER: Johnson-Fermelia & Crank, Inc., P. O. Box 1633,  
Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 78-79

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

DATE OF REVIEW: March 13, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Manholes are needed at all changes in grade and alignment.
- 2). Clean out can only be used at the ends of lines that are 150 feet or less in length. A sewer riser is not considered a clean out.
- 3). The two future services on the south line must each have its own service line or the line serving the two trailers must have a manhole at the junction with the main line, be six inches in diameter and have a manhole or clean out on the other end.
- 4). Provide infiltration, exfiltration specifications.
- 5). Provide manhole details.
- 6).- Provide sewer tap details. Wye branches should be used.

cc: Fremont Energy Corp.  
c/o John Burk  
Burk & Painter, P.C.  
Suite A  
The Wyoming Building  
Casper, Wyoming 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cowley Sewerage System, Big Horn County

ARCHITECT OR ENGINEER: Sanderson/Stewart/Mueller Engineering, 1629 Avenue D/  
Suite 7A, Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 78-80MR

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

DATE OF REVIEW: April 20, 1978

ACTION: PERMIT TO CONSTRUCT CONTRACT CHANGE ORDERS 3 & 4

COMMENTS:

The not authorized for construction was only applicable to the contents of change orders 3 and 4. The project was approved for construction with only the subject changes being reviewed. Henceforth this office will be more specific.

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 20, 1978

Environmental Protection Agency  
1860 Lincoln St.  
Denver, CO 80203

Attention: Mr. Brooks

Dear Sir:

Attached are the Department of Environmental Quality's review of contract change orders 3 and 4 for the Cowley, Wyoming sewage system.

I recommend your approval of these changes.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas F. Hamm".

Thomas F. Hamm  
Environmental Engineer

Attachment

TFH/sp

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cowley Sewerage System, Cowley, Wyoming  
Big Horn County

ARCHITECT OR ENGINEER: Sanderson/Stewart/Mueller Engineering, Inc.  
1629 Avenue D/Suite 7A - Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: EPA 78-80M

REVIEWING ENGINEER: *Thomas F. Hamm* - Don *Armstrong*, P.E.  
REF 75-23RR

DATE OF REVIEW: February 23, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: The following comments are offered:

1. Drawing Sheet 16A -
  - a. lateral connection should be anchor blocked
  - b. reinforcement and placement is not delineated
  - c. location of pumping plant inside light and outlet receptacle are not delineated
  - d. location of the outside light and pole not delineated
  - e. sealing for pumping plant walls to base are not delineated
2. Addendum to General Specifications:
  - Para. 3.A.1. Reinforcement data and steel requirements.
    - 3.B. The interior pumping plant light and receptacle shall have Ground Fault Protection.
    - 5.B. The term "fused" and "fuse" infers just that; a circuit breaker or another form of resettable current activated protection device should be stipulated.
    - 6.A. Spell out, do not say. . . other means approved by the Engineer.
      - 6.A.1. 1AW, Ten State and/or AWWA.
      - 6.A.2. 1AW, AWWA or to manufacturer's specifications.
    - 6.B.1. The size, slope and volume of anchor blocks and thrust blocks is determined by the size pipes and application. There should be a standard for each size pipe/line.
    - 6.C. Test and disinfect 1AW, AWWA C600 and C601.
      - 6.C.1. Pressure gages are provided by whom and should be calibrated within ninety (90) days of test date.

PROJECT: Cowley Sewerage System, Cowley, Wyoming  
Big Horn County

WATER QUALITY DIVISION REFERENCE NUMBER: EPA 78-80M - REF 75-23RR

3. Stand. Drawing 7 - This drawing applies to what diameter pipe/line. Minimum of 1/4 yard not acceptable.
4. There are too many items left to the discretion of the Engineer. Requirements should be delineated to the maximum extent possible. Under condition such as in paragraph 6.B.3.a the statement is acceptable.
5. Approval will be given upon incorporation of the preceeding comments.
6. Any queries/clarifications should be directed to Tom Hamm, DEQ, (307) 777-7781.

A & C

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-81R

Wright Wyoming Sewage Treatment Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Novak</u>	<u>Frank</u>	<u>L.</u>
(Last)	(First)	(Middle)
<u>c/o Housing Services, Inc.</u>		
<u>1500 Security Life Building</u>		
(Street or P.O. Box)		
<u>1616 Glenarm Street</u>		
<u>Denver</u>		<u>Colorado 80202</u>
(City)	(County)	(State)

to construct, install, or modify a Gas Chlorination  
facility located in Section 17, 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.

Authorized by:

William P. O'Leary  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance

cc: Gingery Associates, Inc., 2840 South Vallejo Street, Englewood, CO 80110  
ATTN: Gary Anderson

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wright Lagoons, Sewage Treatment, Chlorination Improvements,  
Section 27, T47N, R72W, Campbell County

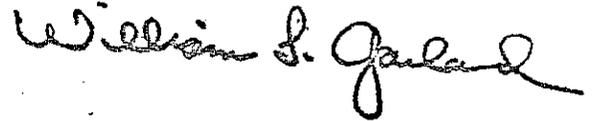
ARCHITECT OR ENGINEER: Gingery Associates, 2840 South Vallejo Street,  
Englewood, CO 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 78-81

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

DATE OF REVIEW: February 23, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

- 1). A clear-glass, gas tight inspection window is needed in the building door.
- 2). Forced ventilation shall be provided, regardless of the size of the building.
- 3). The building lights and the ventilation fan should be turned on from the outside and also automatically upon opening the door.
- 4). An approved gas mask suitable for chlorine gas shall be available.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

New

Renewal

Permit No. 78-82RRR

Modified

LOST CREEK RANCHETTES SUBDIVISION

\_\_\_\_\_  
(Name of Facility)

This permit hereby authorizes the applicant:

A & E LAND COMPANY

\_\_\_\_\_  
(Last)

\_\_\_\_\_  
(First)

\_\_\_\_\_  
(Middle)

BOX 274

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

THAYNE

WYO.

83127

\_\_\_\_\_  
(City)

\_\_\_\_\_  
(State)

\_\_\_\_\_  
(Zip Code)

to construct, install, or modify a WATER DISTRIBUTION SYSTEM

facility located in SEC. 8, T.34N 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 S. Gales  
Administrator  
Water Quality Division

Robert E. Linden  
Director  
Department of Environmental  
Quality

OCTOBER 31, 1978.

\_\_\_\_\_  
Date of Issuance

Structural calculations and shop drawings of the hydropneumatic tank shall be  
provided to this department for concurrence once a supplier is selected.

c.c. Ellsworth Engineering, Inc.

P.O. Box 2336

IDAHO FALLS, IDAHO 83401 ATTN: DONALD ELLSWORTH, P.E.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lost Creek Ranchettes, Water System  
Lincoln County

ARCHITECT OR ENGINEER: Donald Ellsworth, P.E. Ellsworth Engineering, Inc.  
P. O. Box 2336  
Idaho Falls, ID 83401

WATER QUALITY DIVISION REFERENCE NUMBER: 78-82RR

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

DATE OF REVIEW: 9/5/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The hydropneumatic tank must meet ASME Code Requirements, or suitable equivalent. Is structural analysis available?
2. The hydropneumatic tank interior coat must be AWWA, NSF, or FDA approved. Provide information to indicate that it is,
3. A gate valve appears to be needed in the booster pump bypass line.
4. Can the submersible pump adequately supply the subdivision with water if the booster pump fails? Supply submersible pump curve and other applicable data.

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lost Creek Ranchettes, Water System, Section 8, T43N,  
R118W - Lincoln County

ARCHITECT OR ENGINEER: Ellsworth Engineering, Inc., P. O. Box 2336, Idaho  
Falls, Idaho 83401

WATER QUALITY DIVISION REFERENCE NUMBER: 78-82R

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

DATE OF REVIEW: May 24, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The buried pressure tank will not meet our standards.
- 2). Provide manufacturers data on the air controller.
- 3). Provide specifications for the pressure tank and its appurtenances.
- 4). Specifications should indicate the water pipe must comply with AWWA C-900.
- 5). Specifications should indicate how the disinfection should be performed, (see AWWA C-601).
- 6). Provide complete specifications for materials, installation and testing of the water line.
- 7). Provide blocking details.
- 8). Provide air relief valve details.
- 9). Provide details of the flushing hydrant.
- 10). Due to the number of comments, this cannot be considered a final review.

JW

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lost Creek Ranchettes, Water System, Section 8, T34N, R118W,  
Lincoln County

ARCHITECT OR ENGINEER: Ellsworth Engineering, Inc., P. O. Box 2336,  
Idaho Falls, Idaho 83401

WATER QUALITY DIVISION REFERENCE NUMBER: 78-82

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

DATE OF REVIEW: March 14, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION. (SEE COMMENTS).

*William L. Garland*

COMMENTS:

- 1). Pressure tanks cannot be below normal ground surface.
- 2). Does the booster pump have a low pressure cutoff?
- 3). Provide manufacturers data on the air controler,
- 4). What is the source of air used?
- 5). Provide specifications for the pressure tank and its appurtenances.
- 6). The water line should comply with AWWA C-900.
- 7). Provide disinfection specifications.
- 8). Provide specifications for installing, backfilling, testing of the water line.
- 9). Will the system require air relief valves or blocking?
- 10). The dead end lines will require a blowoff valve or flushing hydrant.
- 11). Where does the 1.5 inch line go? If it is to be constructed under this permit application, provide details.
- 12). Due to the number of comments, this cannot be considered a final review.

cc: A & E Land Company  
Box 274  
Thayne, Wyoming 83127

A,B

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-83R

Riverview Terrace Subdivision  
(Name of Facility)

This permit hereby authorizes the applicant:

Clare                      James                      H.  
(Last)                      (First)                      (Middle)  
P. O. Box 493  
(Street or P.O. Box)  
Casper                      Natrona                      Wyoming 82601  
(City)                      (County)                      (State)

to construct, install, or modify a Wastewater Collection & Water Distribution  
facility located in Section 33, 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 L. Garland  
Administrator  
Water Quality Division  
*by Jake Johnson*

Robert E. Auer  
Director  
Wyoming Dept. of Environmental Quality

April 7, 1978

Date of Issuance

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

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Riverview Terrace Subdivision, Water and Sewer  
Fremont County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-83

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

DATE OF REVIEW: March 16, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The slopes of the sewer lines do not meet standards.
- 2). The water sewer line crossings do not meet the requirements of Section 15, Chapter III Rules and Regulations.
- 3). All dead end lines must have fire or flushing hydrants.
- 4). Submit details on flushing hydrants.
- 5). The infiltration and exfiltration specifications do not meet standards.
- 6). What percent compaction will be used in the area of the pipe?
- 7). How will the work under water be performed and under what conditions?
- 8). All pipes when installed should be bell holes and have the barrels resting on the bottom of the trench.
- 9). Wye branches should be used for sewer taps, please provide details.
- 10). Provide specifications for preventing excessive sidefill pressure or ovalution of the sewer pipe.
- 11). Provide letter from the city indicating they will provide service.
- 12). Due to the number of comments, this cannot be considered a final review.

cc: James H. Clare, P. O. Box 493, Casper, Wyoming, 82601

A & B

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-84R

Country Meadow Estates  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Trocki</u> (Last)	<u>Thomas</u> (First)	<u>J.</u> (Middle)
<u>Country Meadow Estates #32</u> (Street or P.O. Box)		
<u>Laramie</u> (City)	<u>Albany</u> (County)	<u>Wyoming 82070</u> (State)

to construct, install, or modify a Sewer Collection and Water Distribution  
facility located in Section 12, T15N, R73W  
(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 P. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

May 17, 1978

Date of Issuance  
cc: Gertsch/Baker & Associates, 203 Grand Avenue, Laramie, Wyoming 82070

May 17, 1978

Tom Trocki  
Country Meadow Estates #32  
Laramie, Wyoming 82070

Dear Mr. Trocki:

Enclosed is the Permit to Construct for the Country Meadows Estates water and sewer extensions. The system has been approved, but one portion of the specifications is a little weak.

Backfill around sewers should be more than lightly compacted. It should be placed and compacted by hand, first up to the middle (or spring line) of the pipe, then up to one (1) foot over the top of the pipe.

An excellent specification for laying plastic sewer pipe is ASTM D 2321, "Standard Recommended Practice for Underground Installation of Flexible Thermoplastic Sewer Pipe".

Yours truly,

Tom Mueller  
Environmental Engineer

TM/do

cc: Chronological File

Enclosure: Permit

14

REVIEW OF PLANS AND SPECIFICATIONS

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

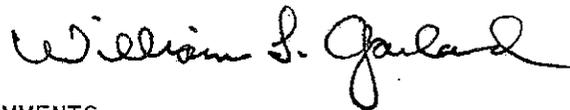
PROJECT: Country Meadows Mobile Home Park Expansion, Space 32, Country Meadows Estates, Laramie, Wyoming 82070

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-84

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

DATE OF REVIEW: March 6, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION. SEE COMMENTS.

COMMENTS:

- 1). All plans must be signed by a Professional Engineer registered to practice in Wyoming.
- 2). Profile drawings are required for new sewer lines. Note that manholes may not be more than 400 feet apart.
- 3). Water and sewer pipe specifications are required. "P.V.C." is not sufficient. Note that PVC water pipe must meet specification AWWA C-900.
- 4). Specifications for bedding and backfill of water and sewer mains are required. A 5% deflection test for plastic sewer mains, using a Go/No Go Gauge, is recommended.
- 5). Infiltration tests are required for all sewer lines below ground water level, and leakage tests are required for sewers above groundwater. Infiltration or leakage must be limited to 200 gallons per inch diameter per mile per day.
- 6). A manhole detail drawing is required.
- 7). A valve specification is required.
- 8). A specification for pressure and leakage testing of water mains is required.
- 9). A disinfection specification for water mains is required.
- 10). Bury depth of water lines should be indicated.
- 11). Separation distance between water and sewer mains and protection at crossings should be indicated.

PROJECT: Country Meadows Mobile Home Park Expansion, Space 32, Country Meadows Estates, Laramie, Wyoming 82070

WATER QUALITY REFERENCE NUMBER: 78-84 (CONT)

- 12). Sewer risers must rest on a concrete pad, to be a minimum of 4 inches thick and 12 inches in diameter.
- 13). Each mobile home lot is to have a separate water service line. Method of frost protection should be indicated.
- 14). An additional water valve should be installed to insure that no more than 20 services are without water in the event of a pipe break.



*Department of Environmental Quality*

*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 26, 1981

C.E. Wolff  
Silver King Mines, Inc.  
P.O. Box 560  
Casper, WY 82602-0560

Dear Mr. Wolff:

Water Quality Division recognizes that Silver King Mines, Inc. has taken over the operation of facilities previously permitted by United Nuclear Corporation. The Water Quality Division permit numbers are listed below:

- 79-399R - North Morton Ranch Golden Eagle Mine
- 78-85RR - South Morton Ranch Mine
- 78-86R - North Morton Ranch
- 76-377 - South Morton Ranch
- 75-191 - North Morton Sanitation Facility

Sincerely,

A handwritten signature in cursive script, appearing to read "Jake Strohmman".

Jake Strohmman  
Engineering Control Supervisor

JS/nc

cc: Tom Mueller, DEQ/WQD, Sheridan



PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 78-85RR

South Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
(Last) (First) (Middle)

P. O. Box 2996  
(Street or P.O. Box)

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

to construct, install, or modify a Barium Chloride Treatment, Sedimentation Ponds and Flow Measuring  
facility located in Section 11, T35N, R72W  
(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. Gale  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

June 6, 1978  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-85R

South Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
(Last) (First) (Middle)

P. O. Box 2996  
(Street or P.O. Box)

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

to construct, install, or modify a Barium Chloride Treatment, Sedimentation Ponds and Flow Measuring  
facility located in Section 11, T35N, R72W  
(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 P. Orland  
Administrator  
Water Quality Division

Robert E. Anderson  
Director  
Wyoming Dept. of Environmental Quality

April 3, 1978  
Date of Issuance

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-85RR

South Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
(Last) (First) (Middle)

P. O. Box 2996  
(Street or P.O. Box)

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

to construct, install, or modify a Barium Chloride Treatment, Sedimentation Ponds and Flow Measuring

facility located in Section 11, T35N, R72W  
(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. Oala  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

June 6, 1978  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-85R

South Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
(Last) (First) (Middle)  
P. O. Box 2996  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Barium Chloride Treatment, Sedimentation Ponds and Flow Measuring  
facility located in Section 11, T35N, R72W  
(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. Osland  
Administrator  
Water Quality Division

Robert E. Scuderi  
Director  
Wyoming Dept. of Environmental Quality

April 3, 1978  
Date of Issuance

8

REVIEW OF PLANS AND SPECIFICATIONS

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

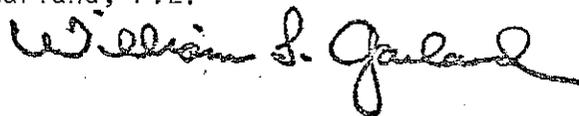
PROJECT: South Morton Ranch Mine, Barium Chloride Treatment Facility,  
Section 11, T35N, R72W, Converse County

ARCHITECT OR ENGINEER: United Nuclear Corporation, Mining & Drilling Division,  
Wyoming Operations, P. O. Box 2996, Casper, Wyoming 82602  
ATTN: E. R. Haymaker, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-85

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

DATE OF REVIEW: February 24, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: GENERAL

- 1). Two copies of all plans and specifications are needed by this office. One copy shall be returned to you upon our approval.

BARIUM CHLORIDE TREATMENT PLANT

- 2). How will the mixing water be obtained?
- 3). How will the barium chloride solution be transferred from the mixing tank to the feed tank?
- 4). A flow proportioned feeding apparatus is needed. Is this provided?
- 5). Will adequate mixing of the barium chloride solution and the mine water take place in the CMP before reaching the sedimentation ponds? It appears that a baffled or mechanical mixing chamber is needed. Provide details.

SEDIMENTATION PONDS

- 6). Please provide a soil summary and geologic summary of the area including expected seepage rates and groundwater depth.
- 7). Provide pipe and valve specifications and inlet and outlet specifications.
- 8). Provide a compaction specification for the sedimentation pond dikes.

OUTFALL STRUCTURE

- 9). Provisions for constant flow monitoring must be provided. Provide details.

ENCLOSURE: Application for Permit to Construct (2)

A & C



*Department of Environmental Quality*

*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 337 737-7781

October 26, 1981

C.E. Wolff  
Silver King Mines, Inc.  
P.O. Box 560  
Casper, WY 82602-0560

Dear Mr. Wolff:

Water Quality Division recognizes that Silver King Mines, Inc. has taken over the operation of facilities previously permitted by United Nuclear Corporation. The Water Quality Division permit numbers are listed below:

- 79-399R - North Morton Ranch Golden Eagle Mine
- 78-85RR - South Morton Ranch Mine
- 78-86R - North Morton Ranch
- 76-377 - South Morton Ranch
- 75-191 - North Morton Sanitation Facility

Sincerely,

A handwritten signature in cursive script that reads "Jake Strohmman".

Jake Strohmman  
Engineering Control Supervisor

JS/nc

cc: Tom Mueller, DEQ/WQD, Sheridan



PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 78-86R

North Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
(Last) (First) (Middle)  
P. O. Box 2996  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Barium Chloride and Flow Measuring  
facility located in Section 14, T36N, 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 J. Chace  
Administrator  
Water Quality Division

Robert E. Jordan  
Director  
Wyoming Dept. of Environmental Quality

March 23, 1978  
Date of Issuance

PERMIT TO CONSTRUCT

AUG 24 1977

- New
- Renewal
- Modified

Permit No. 77-213R

MINING & MILLING DIV  
CASPER, WYOMING

North Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
 (Last) (First) (Middle)  
Mining and Milling Operations  
P.O. Box 2996  
 (Street or P.O. Box)

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

to construct, install, or modify a Wastewater Treatment  
 facility located in SE $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 14, T36N, 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 P. [Signature]*  
 Administrator  
 Water Quality Division

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

August 5, 1977  
Date of Issuance

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-86R

North Morton Ranch Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

United Nuclear Corporation  
(Last) (First) (Middle)  
P. O. Box 2996  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Barium Chloride and Flow Measuring  
facility located in Section 14, T36N, 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 J. Galand  
Administrator  
Water Quality Division

Robert E. Gordon  
Director  
Wyoming Dept. of Environmental Quality

March 23, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

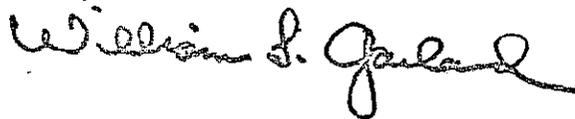
PROJECT: North Morton Ranch Mine, Barium Chloride Treatment Facility,  
Section 14, T36N, R73W, Converse County

ARCHITECT OR ENGINEER: United Nuclear Corp., Mining & Drilling Division,  
Wyoming Operations, P. O. Box 2996, Casper, Wyoming 82602  
ATTN: E. R. Haymaker, P.E.

WATER QUALITY DIVISION REFERENCE NUMBER: 78-86

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

DATE OF REVIEW: February 28, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Same as Water Quality Review 78-85, comments 2-5.

Provisions for constant flow monitoring must be provided. Provide details.

ENCLOSURE: Application for Permit to Construct (2)



THE STATE OF WYOMING

78-87

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 15, 1978

Duane E. Thomas  
Attorney at Law  
P. O. Box 745  
Afton, Wyoming 83110

REF: Cottonwood Subdivision  
Your Letter dated February 16, 1978

Dear Mr. Thomas:

Based upon the information supplied with your letter, septic treatment facilities could meet the State requirements. The location of the facilities with respect to houses, property lines, etc. was not provided. If the facilities can meet the distance requirements, I would foresee no problems in obtaining a State Permit to Construct a small waste facility. As stated in your letter, each facility will require its own permit to construct.

The water system would require a permit to construct from this office. There was not enough information provided to evaluate it. If properly designed, there should be no problem in obtaining a permit to construct it.

If you have any further questions, please contact this office.

Sincerely,

Roy E. Prior  
Environmental Engineer

REP/do

cc: Hoback Ranches, Inc.  
Box 248  
Afton, Wyoming 83110

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-88R

North Simplot/Shop/Bathhouse  
(Name of Facility)

This permit hereby authorizes the applicant:

Arch Mineral Corporation  
(Last) (First) (Middle)  
P. O. Box 530  
(Street or P.O. Box)  
Hanna Carbon Wyoming 82327  
(City) (County) (State)

to construct, install, or modify a Small Wastewater Septic Tank-Leach Field  
facility located in Section 18, T23N, R81W  
(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. Garland  
Administrator  
Water Quality Division  
*by Jake Stutzman*

Robert E. Linder  
Director  
Wyoming Dept. of Environmental Quality

April 10, 1978

Date of Issuance  
cc: C.D.K. Contracting Company, P. O. Box 332, Medicine Bow, Wyoming 82329

REVIEW OF PLANS AND SPECIFICATIONS

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

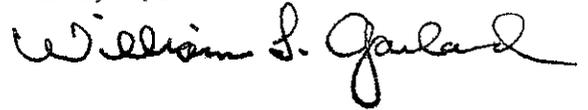
PROJECT: North Simplot/Shop/Bathhouse, Wastewater Facility,  
Section 18, T23N, R81W, Carbon County

ARCHITECT OR ENGINEER: C.D.K. Contracting Company, ATTN: Robert R. Pixler, P.E.,  
P. O. Box 332 - Medicine Bow, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 78-88

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

DATE OF REVIEW: February 27, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please have owner or owners designated representative fill out and submit two (2) copies of the "Application for Permit to Construct".
- 2). Submit complete design loading information (i.e. flows per worker, etc.).
- 3). How can a leach field be used in solid rock? It appears an alternate type of system such as a full retention lagoon or evapotranspiration bed is needed.

ENCLOSURE: Application for a Permit (2)

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-89R

Sage Creek Addition  
(Name of Facility)

This permit hereby authorizes the applicant:

R J Enterprises  
(Last) (First) (Middle)  
P. O. Box 862  
(Street or P.O. Box)  
Worland Washakie Wyoming 82401  
(City) (County) (State)

to construct, install, or modify a Water Distribution & Wastewater Collection  
facility located in Section 31, T47N, R92W  
(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 J. Quinn  
Administrator  
Water Quality Division

Robert E. Landon  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

cc: John Donnell & Associates, P. O. Box 13, Worland, Wyoming, 82401

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-90R

Elmore Wastewater Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

Elmore                      Michael                      T.  
(Last)                      (First)                      (Middle)  
400 - 4J Road  
(Street or P.O. Box)  
Gillette                      Campbell                      Wyoming 82716  
(City)                      (County)                      (State)

to construct, install, or modify a Septic Tank/Evapotranspiration Bed  
facility located in Section 24 & 25, 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. Quinn  
Administrator  
Water Quality Division

Robert E. Anderson  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

cc: TSP Wyoming, ATTN: Richard Horak, P.E., 532 Val Vista, Sheridan, Wyoming 82801

88

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Elmore Wastewater Facility, Section 24 & 25, T50N,  
R72W, Campbell County

ARCHITECT OR ENGINEER: Richard Horak, P.E., TSP Wyoming, 532 Val Vista,  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 78-90

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

DATE OF REVIEW: March 3, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please submit two (2) copies of all plans and specifications. One (1) copy shall be returned to you upon our approval.
- 2). Indicate what type of vegetation you propose to use with the evapo-transpiration bed.
- 3). Where do the floor drains or sumps (if any) drain to?

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-91M

Town of Hartville  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Hartville  
(Last) (First) (Middle)  
P. O. Box 56  
(Street or P.O. Box)  
Hartville Platte Wyoming 82215  
(City) (County) (State)

to construct, install, or modify a Water System  
facility located in Hartville, Wyoming  
(Legal Description)

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

Authorized by:

William S. Garland  
Administrator  
Water Quality Division  
*by [Signature]*

Robert E. Austin  
Director  
Wyoming Dept. of Environmental Quality

April 7, 1978

Date of Issuance

cc: Nelson, Haley, Patterson & Quirk, Inc., 625 East Madison, Riverton, WY 82501

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-92  
REF. 77-457

Tarver Ranch Company  
(Name of Facility)

This permit hereby authorizes the applicant:

C & W Manhattan Associates  
(Last) (First) (Middle)  
c/o Plains Engineering  
P. O. Box 2020  
(Street or P.O. Box)  
Gillette Campbell Wyoming 82716  
(City) (County) (State)

to construct, install, or modify a Sewage Collection & Water Distribution  
facility located in Section 21, 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 J. [Signature]  
Administrator  
Water Quality Division

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

March 15, 1978  
Date of Issuance

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
PERMIT TO CONSTRUCT

*Mailed  
9/14/78*

- New  
 Renewal  
 Modified

Permit No. 78-93RR

~~GRACE WATER TREATMENT FACILITY~~

(Name of Facility)

This permit hereby authorizes the applicant:

FEDERAL AMERICAN PARTNERS

(Last) (First) (Middle)

GAS HILLS STAR ROUTE

(Street or P.O. Box)

RIVERTON

FREMONT

WYOMING

82501

(City)

(State)

(Zip Code)

to construct, install, or modify a

~~WATER TREATMENT FACILITY~~

facility located in SEC. 28 T.33N R.89W

(Legal Description)

in the County of FREMONT, in the State of Wyoming.

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

Authorized by:

William S. Gula  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Department of Environmental  
Quality

September 14, 1978  
Date of Issuance

*fd*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Grace Reservoir Water Treatment Facility, Section 28, T33N,  
R89W - Fremont County

ARCHITECT OR ENGINEER: Robert Streeter - Consulting Engineer, P. O. Box 2030,  
Casper, Wyoming 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 78-93R

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

DATE OF REVIEW: May 11, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The additional information submitted was not signed by an engineer registered in the State of Wyoming.
- 2). What is the depth of groundwater in the area of the leach field.
- 3). Provide typical drawing of the clean out.
- 4). What are the slopes of the sewer lines?
- 5). Provide details of the construction of the septic tank.
- 6). We have not received any additional information on the Reservoirs. Enclosed is a guideline in preparing the information.
- 7). This cannot be considered a final review.

Enclosure

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-94R

Trout Creek Inn  
(Name of Facility)

This permit hereby authorizes the applicant:

Sowerwine                      Elbert                      0,  
(Last)                              (First)                              (Middle)

Trout Creek  
(Street or P.O. Box)

Cody                              Park                              Wyoming 82414  
(City)                              (County)                              (State)

to construct, install, or modify a Septic  
facility located in Section 15, T52N, R104W  
(Legal Description)

in the County of Park, 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. Eberlein  
Director  
Wyoming Dept. of Environmental Quality

May 22, 1978

Date of Issuance

fel

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Trout Creek Inn, Waste Treatment Facility,  
Section 15, T52N, R104W, Park County

ARCHITECT OR ENGINEER: E. O. Sowerwine, Jr., Wapiti, Wyoming 82450

WATER QUALITY DIVISION REFERENCE NUMBER: 78-94

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

DATE OF REVIEW: March 29, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). A manhole will be required on the end of the sewer line.
- 2). What is the design flow from a single unit and total flow from the motel?
- 3). The first compartment should be 50% by volume of the total tank or tanks volume.

cc: E. O. Sowerwine, III  
Trout Creek  
Cody, Wyoming 82414

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-95R

Russell Construction Building  
(Name of Facility)

This permit hereby authorizes the applicant:

Russell Construction  
(Last) (First) (Middle)  
P. O. Box 319  
(Street or P.O. Box)  
Douglas Converse Wyoming 82633  
(City) (County) (State)

to construct, install, or modify a Waste Treatment  
facility located in Lot 1, Riverside Industrial, Section 17, T32N, R71W  
(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 P. Owsen  
Administrator  
Water Quality Division

Robert E. Sardin  
Director  
Wyoming Dept. of Environmental Quality

May 2, 1978

Date of Issuance  
cc: John Lambert, P.E., 215 Walnut, Douglas, Wyoming 82633



78-95

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 6, 1978

Russell Construction  
P. O. Box 319  
Douglas, Wyoming 82633

RE: Russell Construction Building  
Sewage Disposal System

Dear Sirs:

This Department has received the plans and specifications for the above project.

Your facility does not qualify as a single family wastewater facility under our "Chapter III, Rules & Regulations, 1976". The plans will not be reviewed until they are signed or sealed by an engineer registered in the State of Wyoming.

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

Sincerely,

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

David W. Hill  
Environmental Engineer

DWH/do

cc: Skylark Construction  
P. O. Box 334  
Douglas, Wyoming 82633

Enclosure: Application for Permit to Construct (2)  
Chapter III

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-96

Larson Commercial Building  
(Name of Facility)

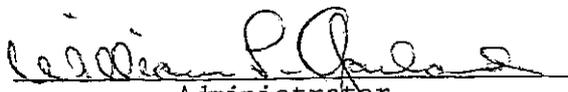
This permit hereby authorizes the applicant:

Larson                      Walter                      C.  
(Last)                      (First)                      (Middle)  
1624 South Chestnut Street  
(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 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.

Authorized by:

  
Administrator  
Water Quality Division

  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

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

cc: Global Engineering, ATTN: B.F. Cronin, P.E., P.O. Box 532, Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-97

M & B Company - Commercial Building  
(Name of Facility)

This permit hereby authorizes the applicant:

Larson Construction Company  
(Last) (First) (Middle)  
1624 South Chestnut Street  
(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.

Authorized by:

William J. Gaudin  
Administrator  
Water Quality Division

Robert E. Gaudin  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

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

cc: Global Engineering, ATTN: B.F. Cronin, P.E., P.O. Box 532, Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-98

Union Carbide Corporation Sewage Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

Union Carbide Corporation  
(Last) (First) (Middle)  
P. O. Box 1500 - Gas Hills Station  
(Street or P.O. Box)  
Riverton Fremont Wyoming 82301  
(City) (County) (State)

to construct, install, or modify a Waste Treatment  
facility located in Section 15, 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 S. Galand  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

cc: Tudor Engineering Co., 450 South Federal Blvd., Riverton, Wyoming 82501

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-99R

Spomer Subdivision Sewer & Water Systems  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Spomer</u> (Last)	<u>Carl</u> (First)	<u>E.</u> (Middle)
<u>901 Shoshone Street</u> (Street or P.O. Box)		
<u>Thermopolis</u> (City)	<u>Hot Springs</u> (County)	<u>Wyoming 82443</u> (State)

to construct, install, or modify a Water Distribution & Wastewater Collection  
facility located in Section 2, T42N, 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 S. Galand  
Administrator  
Water Quality Division

Robert E. Anderson  
Director  
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance  
cc: Engineering Associates, ATTN: Donald Livingston, P. O. Box 1539, Cody, WY  
82414

24

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Spomer Subdivision, Water & Sewer System, Section 2, T42N,  
R95W, Hot Springs County

ARCHITECT OR ENGINEER: Engineering Associates, P. O. Box 1539, Cody,  
Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 78-99

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

DATE OF REVIEW: March 17, 1978

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Water lines must be six (6) inch diameter or larger.
- 2). Sewer lines must be eight (8) inch diameter or larger.
- 3). The water sewer crossings and separations do not conform to Section 15, Chapter III, Water Quality Rules and Regulations.
- 4). The infiltration/exfiltration specifications do not conform to Water Quality standards.
- 5). The air pressure test should be rated by diameter of pipe, length of pipe and the pressure loss.
- 6). What are the manufacturers recommendations and instructions for installing PVC water pipe?
- 7). What is the size of the existing sewer line that is being tapped? Will it be able to handle the additional flows?
- 8). Provide specifications that prevent excessive sidefill pressures or ovalation of the sewer pipe.
- 9). Provide a letter from the Town of Thermopolis indicating they will provide service.
- 10). Due to the number of comments, this cannot be considered a complete review.

cc: C. E. & J. M. Spomer, 901 Shoshoni Street, Thermopolis, Wyoming 82443

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 78-100R

Rolling Hills Subdivision #4  
(Name of Facility)

This permit hereby authorizes the applicant:

Pittman                      Joe                      R.  
(Last)                      (First)                      (Middle)  
P. O. Box 430  
(Street or P.O. Box)  
Glenrock                      Converse                      Wyoming 82637  
(City)                      (County)                      (State)

to construct, install, or modify a Water Supply & Distribution  
facility located in Section 22, 27 & 28, T34N, 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. Galand  
Administrator  
Water Quality Division

Robert E. Scuderi  
Director  
Wyoming Dept. of Environmental Quality

March 20, 1978

Date of Issuance

cc: Mike Ostaz, County Sanitarian  
Western Engineers, 501 North Sun Drive, Casper, WY 82601

REVIEW OF PLANS AND SPECIFICATIONS

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

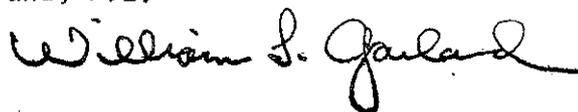
PROJECT: J & J Development, Rolling Hills Subdivision #4,  
Water Distribution System, Converse County

ARCHITECT OR ENGINEER: Duane Fehringer, P.E., Western Engineers-Architects,  
501 North Sun Drive, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-100

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

DATE OF REVIEW: March 9, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please have the owner or owners designated representative fill out and submit two copies of the "Application for Permit to Construct".
- 2). Can the water meter be repaired without removal? A bypass around the meter may be needed.
- 3). Please specify the casing details for both the steel casing and PVC perforated casing (i.e. weight, thickness, etc.).
- 4). Specify the drop pipe details.
- 5). Provide specifications for the PVC chlorine solution feed line.
- 6). Ten State Standards require no less than 30 minutes detention time at average flow for disinfection of ground water sources. You presently have less than this.
- 7). The end of the overflow drain line should be located at least 12-18 inches above the spill line of the receiving ditch.
- 8). The drain line should be flush with the standpipe bottom in order to provide adequate sediment cleaning.