

79-51

VOID

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed to
L. 3/13/79*

- New
- Renewal
- Modified

Permit No. 79-52

B. J. HUGHES, INC.

(Name of Facility)

This permit hereby authorizes the applicant:

B. J. HUGHES, INC.

(Last) (First) (Middle)

SUITE 414, 1776 LINCOLN ST.

(Street or P.O. Box)

DENVER, COLO. 80203

(City) (State) (Zip Code)

to construct, install or modify a SEPTIC TANK - LEACH FIELD

facility located in SEC. 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 L. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality

MARCH 6, 1979

Date of Issuance

H.S. ADNAN
888 So. Lipan
Denver, Colo. 80223.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: BJ-HUGHES, INC.

ARCHITECT OR ENGINEER: A-A ENGINEERS & ASSOCIATES
888 SOUTH LIPAN STREET
DENVER, COLORADO 80223

WATER QUALITY DIVISION REFERENCE NUMBER:

79-52

REVIEWING ENGINEER: DOUG CRAIG *DC*

DATE OF REVIEW: FEBRUARY 13, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Complete the enclosed application for a permit to construct in triplicate.
2. Leach field drain pipe must be continuously looped.
3. A 6-inch minimum pipe size is required in the distribution line preceding the leach field.
4. Explain the function of the dry-well.
5. Compaction of leach-field fill material is not desirable.
6. Provide details of dosing tank/siphon.
7. Indicate highest known groundwater level at the site.
8. Indicate well or water source in relation to leach field.
9. We require plans and spec.s in triplicate.

Enclosures:

MEMORANDUM

TO: Running Record, Permit No. 79-053

FROM: Steve Gerber *SG*

SUBJECT: Status of 'Application for Permit to Construct' submitted by
B-2 Wyoming Inc.

DATE: July 3, 1986

No application of plans can be found for the above referenced project. We have no address for B-2 Wyoming Inc. and only a legal description of the project location. A status request letter was sent to the engineer on December 6, 1985. A response was never received. I called Ray Price, Fremont County Planner. Ray said he had heard of the project. To the best of his knowledge it was never constructed.

cc. Norma Coulson

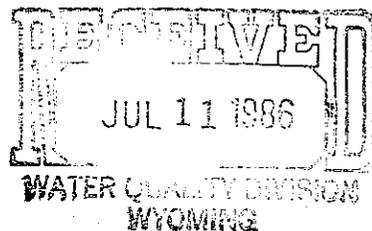
MEMORANDUM

TO: Running Record, Permit No. 79-053

FROM: Steve Gerber *SPZ*

SUBJECT: Status of 'Application for Permit to Construct' submitted by
B-2 Wyoming Inc.

DATE: July 3, 1986



No application of plans can be found for the above referenced project. We have no address for B-2 Wyoming Inc. and only a legal description of the project location. A status request letter was sent to the engineer on December 6, 1985. A response was never received. I called Ray Price, Fremont County Planner. Ray said he had heard of the project. To the best of his knowledge it was never constructed.

Fremont Co.

cc. Norma Coulson



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 6, 1985

CERTIFIED P 399 271 397

Western Engineers
501 North Sun Drive
Casper, WY 82601

Dear Gentlemen:

On February 5, 1979 your firm submitted an application for a "Permit to Construct" sanitary improvements for B-2 Wyoming, Inc. At present we are trying to clear our records. Our records show the review process was never completed. Your help in updating our files would be greatly appreciated. The specific information for this project is:

Facility Name: B-2 Wyoming, Inc.

DEQ/WQD Reference Number: 79-53

Engineering Consultant: Western Engineers

DEQ/WQD Review Engineer: Steve Gerber

Date of DEQ/WQD Review: March 26, 1979

Please indicate below the status of this project and return this form to our office.

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within thirty (30) days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- Other Remarks: _____

Sincerely,

Steven P. Gerber, P.E.
Northwest District Supervisor

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: B-2 WYOMING INC. SANITARY SEWER, SHOSHONI, FREMONT COUNTY
OWNER: MR. NICK BEBOUT, P.O. BOX 265, SHOSHONI, WYO. 82649

ARCHITECT OR ENGINEER: WESTERN ENGINEERS - ARCHITECTS, INC.
501 N. SUN DRIVE,
CASPER, WYO. 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-53

REVIEWING ENGINEER: ROY E. PRIOR *REP*

DATE OF REVIEW: MARCH 26, 1979

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. It was our understanding the water lines would be submitted also. It should be noted that most of the house connections will require special pipe due to the bury department of the sewer lines.
2. The design assumptions are too small. There should be 3.5 people per lot and the peaking factor should be 4 not 1.5.
3. The backfill specifications are not acceptable. Jetting will not be allowed as presented.
4. Provide specifications for sewer fittings, wye branches should be used. Provide typical detail of the installation.
5. Standard details show concrete and fiber glass manholes but spec.s refer to only concrete, will both be used?
6. Standards indicated highway and railroad crossing, but none noted on the plans. Will there be any of these types of borings?
7. Section 4,A of the spec.s seems to be in conflict with Section 4,C of the spec.s.
8. Our standards required each section of pipe to be tested for infiltration and exfiltration.
9. The water, sewer crossing spec.s do not conform to the requirements of Section 15, Chapter III Regulations.
10. Due to the number of comments this cannot be considered a final review.

REP/jky

C.C. DONALD L. ARMSTRONG
450 S. FEDERAL BLVD.
RIVERTON, WYO. 82501

*mailed to
L-3/23/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-54R

CANYON TERRACE SEWER LINES AND LIFT STATION
(Name of Facility)

This permit hereby authorizes the applicant:

<u>COLLIER</u>	<u>ELDON</u>	
(Last)	(First)	(Middle)
<u>P.O. BOX 353</u>		
(Street or P.O. Box)		
<u>GREEN RIVER</u>	<u>WYO.</u>	<u>82520</u>
(City)	(County)	(State)

to construct, install, or modify a WASTEWATER COLLECTION
facility located in SEC. 22 T18N R107W
(Legal Description)

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

AUTHORIZED BY:

William L. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

MARCH 12, 1979

Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: CANYON TERRACE SEWER LINES AND LIFT STATION
OWNER: ELDON COLLIER - P.O. BOX 353 - GREEN RIVER, WYO. 82935

ARCHITECT OR ENGINEER: TUDOR ENGINEERING
450 S. FEDERAL BLVD.
RIVERTON, WYO. 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 79-54

REVIEWING ENGINEER: DOUG CRAIG *D.C.*

DATE OF REVIEW: FEBRUARY 14, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. IS THERE ENOUGH STORAGE CAPACITY IN THE SEWER AND WET WELL TO ACCOMMODATE FLOWS DURING POWER FAILURE OR WILL EMERGENCY POWER BE NECESSARY? PLEASE ADDRESS THE OPERATION UNDER THIS EMERGENCY SITUATION.
2. AN AUDIO-VISUAL ALARM SYSTEM WITH SELF-CONTAINED POWER SUPPLY IS NECESSARY.

*Mailed
10/12/79
5-2-79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-55R

B-J HUGHES INC.
(Name of Facility)

This permit hereby authorizes the applicant:

B-J HUGHES, INC.
(Last) (First) (Middle)

1776 LINCOLN. SUITE 414
(Street or P.O. Box)

DENVER, COLORADO 80203
(City) (County) (State)

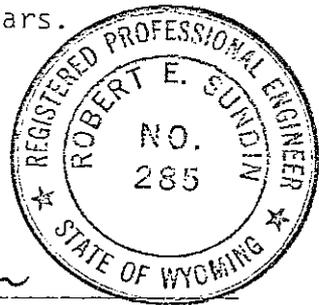
to construct, install, or modify a WASTE TREATMENT
facility located in SEC 19 T1N R4E
(Legal Description)

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. Gault
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



MAY 2, 1979.
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: B.J. HUGHES
LOTS 1-5, FREMONT INDUSTRIAL PARK, FREMONT COUNTY

ARCHITECT OR ENGINEER: HADJI S. ADNAN, 888 SOUTH LIPAN, DENVER, COLO 80223

WATER QUALITY DIVISION REFERENCE NUMBER: 79-55

REVIEWING ENGINEER: ROY E. PRIOR, P.E. *REP*

DATE OF REVIEW: MARCH 26, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Complete and return the enclosed forms.
2. Are there any water lines or wells in the area?
3. The backfill over the absorption field should not be compacted to 85%.
4. Provide details at the siphon chamber.
5. Provide pipe materials and installation specifications
6. What will be the slope of the sewer line?

REP/jky

Enclosure:

PERMIT TO CONSTRUCT

79-56R

- New
- Renewal
- Modified

Permit No. 79-56R

Devonshire Village

(Name of Facility)

This permit hereby authorizes the applicant:

Spencer, D. Keith

 (Last) (First) (Middle)
 The Engineers
 644 W. 14th

 (Street or P.O. Box)

Casper, Natrona, Wyoming 82601

 (City) (County) (State)

to construct, install, or modify a public water supply, distribution & collection system
 facility located in Paradise Valley

 (Legal Description)

in the County of Natrona, in the State of

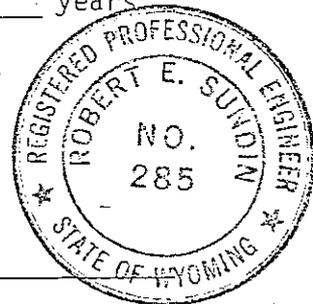
Wyoming. This permit shall be effective for a period of two (2) years

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

AUTHORIZED BY:

William J. [Signature]
 Administrator
 Water Quality Division

Robert E. Sunden
 Director
 Wyoming Dept. of Environmental Quality



May 11, 1979

Date of Issuance

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

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

mailed
3/9/79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Devonshire Village Addition, Paradise Valley, Casper, WY, Natrona County

ARCHITECT OR ENGINEER: Mr. Tom McDill 644 West 19th Street
The Engineers Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-56

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

DATE OF REVIEW: 2/23/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A location map or drawing is needed which indicates the Devonshire Addition location.
2. Show details/specifications of proposed sewer line/existing water main crossover and at the dead end connection to the fire hydrant.
3. Indicate size/flow capacity of existing sewer line to which the Devonshire Addition will connect. Also indicate design flow rates for the Addition. (14 MGD appears to be in error.)
4. This cannot be considered a final review.

mailed
3/6/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-57

Jim Howard Trailers
(Name of Facility)

This permit hereby authorizes the applicant:

Howard Jim _____
 (Last) (First) (Middle)

West of Casper

 (Street or P.O. Box)

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

to construct, install, or modify a Small Waste Facility (Commercial)
 facility located in Section 32, T32N, R78W

 (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. Gable
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

February 15, 1979
 Date of Issuance

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

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

MR. GEORGE L. HOFFMAN
BOX 473
CASPER, WYO. 82601

*mailed to
R. 3/28/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-58

LUCKY MC MINE CHLORINATION SYSTEM

(Name of Facility)

This permit hereby authorizes the applicant:

PATHFINDER MINES CORPORATION, LUCKY MC MINE
(Last) (First) (Middle)

P.O. BOX 831
(Street or P.O. Box)

RIVERTON, WYOMING 82501
(City) (County) (State)

to construct, install, or modify a WATER SUPPLY

facility located in SEC. 22, T. 33N R90W
(Legal Description)

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

AUTHORIZED BY:

William J. Galand
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

MARCH 15, 1979.
Date of Issuance

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

mailed
3/30/79

PERMIT TO CONSTRUCT

New

Permit No. 79-59R

Renewal

Modified

Swanson Brothers Subdivision

(Name of Facility)

This permit hereby authorizes the applicant:

Swanson

John & Ken

(Last)

(First)

(Middle)

Box 816

(Street or P.O. Box)

Saratoga

Carbon

Wyoming 82331

(City)

(County)

(State)

to construct, install, or modify a Water Distribution & Sewage Collection

facility located in Section 15, T17N, R84W

(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

Robert E. Aurdin
Director
Wyoming Dept. of Environmental Quality

March 30, 1979

Date of Issuance

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

mailed
3/20/79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: ~~Swanson Brothers Subdivision - Water & Sewer Improvements,
City of Saratoga, Carbon County~~

ARCHITECT OR ENGINEER: Gary Settell, Gertsch/Baker & Assoc., 203 Grand Avenue,
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: ~~79-59R~~

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

DATE OF REVIEW: 3/19/79

ACTION: ~~NOT AUTHORIZED FOR CONSTRUCTION~~

COMMENTS:

1. Page 3, Specifications: (Water Lines) Who will accomplish pressure testing and chlorination of installed water lines? If problems are found, who will fix?
2. Page 3, Specifications: (Sewer Lines) Recommend use of following lamping phrase to describe test. "The Contractor shall provide all required assistance to the Engineer for lamping each section of sewer constructed. After burial, a light source at one end of a test section should be observed at the other end as nearly a full circle of light. The ability to see only segments, ovals, or reflections indicates serious misalignment or collapse of the sewer and shall be immediately remedied by the Contractor."

mailed
3/28/79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Swanson Brothers Subdivision - Water & Sewer Improvements
City of Saratoga, Carbon County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 79-59

Frank R. Harman

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

DATE OF REVIEW: 2/16/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Provide a letter from the City of Saratoga indicating that it has the necessary sewer collection capacity and sewage treatment capability as well as sufficient water to handle this proposed addition to its present load.

cc: Denny Correll, City Superintendent, P. O. Box 1067, Saratoga, WY 82331

C.C. NELSON ENGINEERING
P.O. BOX 369
GREEN RIVER, WYO. 82935

*mailed to
R, 3/28/79*

PERMIT TO CONSTRUCT

DAVID A. VIOLETTE, P.E.

- New
- Renewal
- Modified

Permit No. 79-60R

EVERS FIELD LIFT STATION

(Name of Facility)

This permit hereby authorizes the applicant:

CITY OF GREEN RIVER

(Last)

(First)

(Middle)

P.O. BOX 127

(Street or P.O. Box)

GREEN RIVER

(City)

WYO.

(County)

82935

(State)

ATTN: FRED SALSBUURY

to construct, install, or modify a LIFT STATION FACILITY

~~facility~~ located in SEC. 22, T18N, R107W

(Legal Description)

in the County of SWEETWATER, in the State of

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

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

AUTHORIZED BY:

William L. Gale
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

MARCH 15, 1979

Date of Issuance

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

gld

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

PROJECT: EVERS FIELD LIFT STATION
SEC. 22, T.18N, R107W
CITY OF GREEN RIVER - SWEETWATER COUNTY

ENGINEER: DAVID A. VIOLETTE, P.E. NELSON ENGINEERING
P.O. BOX 365
GREEN RIVER, WYO. 82935

OWNER: CITY OF GREEN RIVER,
P.O. BOX 127
GREEN RIVER, WYO. 82935

WATER QUALITY DIVISION REFERENCE NUMBER: 79-60

REVIEWING ENGINEER: ^{DW} DAVID W. HILL

DATE OF REVIEW: FEBRUARY 27, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. All discharge gate and check valves should be located outside of the wet well.
2. The wet well ventilation system should blow air into the wet well rather than exhaust air.
3. Do the submersible pumps use a quick connect system to hook up to the discharge piping? Are guide rails provided?
4. Pg. 8 indicates a 200 CFM exhaust fan, Pg. 11 indicates a 446 CFM exhaust fan. Which is correct?
5. It is assumed that the same design loading criteria is used as in the previous submittal (78-321R). If it is not, what is the design loading?

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed to
L. 3/2/79*

New

Renewal

Modified

Permit No. 79-61

OCEAN LAKE UNIT RESIDENCE #2

(Name of Facility)

This permit hereby authorizes the applicant:

WYOMING GAME AND FISH DEPT.

(Last)

(First)

(Middle)

STATE OF WYOMING

(Street or P.O. Box)

CHEYENNE

WYOMING

82002

(City)

(State)

(Zip Code)

to construct, install, or modify a SEPTIC TANK - DRAINFIELD

facility located in NW $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 30 T.3N R.3E WRM

(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. Paul
Administrator
Water Quality Division

Robert E. Sardin
Director
Department of Environmental
Quality

FEBRUARY 26, 1979.

Date of Issuance

J.S. OGDEN
STATE OF WYO.
CHEYENNE, WYO. 82002

mailed
3/7/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-62

Kortis Powerplant
(Name of Facility)

This permit hereby authorizes the applicant:

U.S. Bureau of Reclamation, Lower Missouri Region
(Last) (First) (Middle)

P. O. Box 25247
(Street or P.O. Box)

Denver Colorado 80225
(City) (County) (State)

to construct, install or modify a Sewage Holding Tank
facility located in Section 34, T26N, R84W
(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 J. Paulson
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

February 21, 1979
Date of Issuance

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

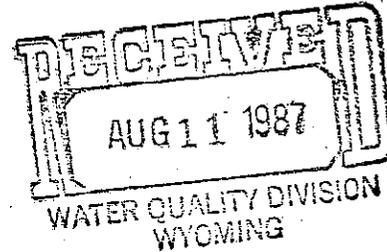


United States Department of the Interior

BUREAU OF RECLAMATION
NORTH PLATTE RIVER PROJECTS OFFICE
P.O. BOX 1630
MILLS, WYOMING 82644

IN REPLY
REFER TO: C-420
120.1

AUG 10 1987



Mr. William Garland
Water Quality Administrator
Water Quality Division
Wyoming Dept. of Environmental Quality
122 West 25th Street
Herschler Building, 4th Floor West
Cheyenne, WY 82002

Dear Mr. Garland:

Enclosed for your review and approval are specifications for an underground 3,000-gallon coal-tar coated domestic sewage holding tank to be installed near the Kortez Powerplant on the North Platte River, SE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 34: T. 26 N., R. 84 W., 6th P.M., Carbon County, Wyoming.

The new tank will replace the 3,800-gallon pre-cast concrete tank that failed during early June 1987, as reported to Mike Carnevale of your office. Installation of the first tank was authorized by DEQ permit-79-~~3662~~. The new tank will be installed in the same place, outside the plant, and will receive sewage from the plant via the original sewage ejection pump system. The tank will then be emptied as needed and hauled to Casper for proper disposal.

If you need additional information, please call Tony Morton of this office at telephone number (307) 261-5664.

Sincerely yours,

David G. Wilde
Project Manager

Enclosure

NORMA



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

June 4, 1980

Ms. Barbara Scott
S & R Land Company
523 West 27th
Cheyenne, WY 82001

Dear Ms. Scott:

We have received no reply to our letter of March 18, 1980, regarding the status of the Savageton Mobile Home Park application for a permit to construct. The application is considered withdrawn and has been removed from our files. Enclosed are all plans and specifications which you submitted to our office for this project.

Sincerely,

Lea Stoneburner

Lea Stoneburner
Administrative Assistant

Is

Enclosures

79-63 - Campbell County

Norma.-

*I marked my files "withdrawn 4/24/80"
However, we gave them over
three months to reply!*

Lea

Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Savageton Mobile Home Park - Campbell County

ARCHITECT OR ENGINEER: Barbara Scott
S & R Land Company
523 W. 27th
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 79-63

REVIEWING ENGINEER: Dan H. Kim

DATE OF REVIEW: March 11, 1979

ACTION: Not Authorized for Construction

COMMENTS:

Well, Chlorination Building

- 1. How is the well pump protected from low water level?
- 2. Please provide:

- Manufacturer's data on pitless adapter
- Material and thickness of well casing, material of drop pipe
- Submersible pump curve
- Well disinfection specifications
- Material specifications of chlorination building, ventilation, etc.

Hypochlorinator

- 1. Manufacturer's information on hypochlorinator is needed, including feeder capacity, control procedures (i.e., is the chlorinator activated upon starting the well pump?) etc.
- 2. A tap is needed for obtaining mix water for hypochlorine solution.

Water Storage, Water System

1. Please show the overflow pipe and drainpipe from the tank. These pipes should be downturned, screened, and at least 12 to 18 inches above the receiving ditch or splash plate.
2. Water riser should be protected by concrete at ground surface a minimum of four inches thick and 12 inches in diameter.
3. Specifications for water line hydrostatic tests are needed. These tests should be performed in accordance with AWWA C600 or C603. Specifications for gate valve are also needed.
4. Typical drawings of bedding and backfilling should include compacted granular beddings with tamped backfill (Class B and C beddings), as described in the specifications.
5. Is the water pressure at all points in the distribution system able to be maintained at least 20 psi even when the fire flow is discharged?

Lagoon

1. It is recommended that the pond should be located as far as practicable from the habitation. Ponds should also be located so that local prevailing winds will be in the direction of uninhabited areas, if practicable. Since the proposed ponds are located only about 700 feet away from the mobile home park, possible odor problem concerns us. Please discuss.
2. Soil boring data is needed to determine subsurface soil characteristics, seepage rates and groundwater level. If the soil tests indicate ground water needs to be protected, the primary cell must be sealed.
3. Our data indicates that the net mean annual evaporation rate of the proposed site is 27 inches/year. We also recommend the maximum allowable seepage rates as 1/8" per day and 1/4" per day for a bentonite sealed pond and for a non-sealed pond, respectively. Therefore, pond surface area of 1.4 acre each (2.8 acres total) or 1.6 acre each may be needed to become a nondischarging lagoon, depending on whether the first pond is to be sealed or not.
4. A portion of the influent sewer, buried underneath the diversion ditch has only a 0.3 foot depth. This portion of the sewer appears to need a special protection against freezing.
5. The pond bottom shall be as level as possible. Provide a specification covering this. A spec describing degree of compaction of pond bottom is also needed.
6. Please provide overflow structure detail drawing in place of outlet box.

NOTE: This cannot be considered a final review due to the number of comments.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

Mailed to P.
3/7/79

New

Renewal

Permit No. 79-65

Modified

DAVIDSON SUBDIVISION

(Name of Facility)

This permit hereby authorizes the applicant:

DAVIDSON

HAROLD

(Last)

(First)

(Middle)

P.O. BOX 646

(Street or P.O. Box)

CODY,

WYO.

82414

(City)

(State)

(Zip Code)

to construct, install, or modify a WATER DISTRIBUTION AND SEWERAGE

facility located in TRACT 71 T.53N R101W

(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. Jansen
Administrator
Water Quality Division

Robert E. Lundin
Director
Department of Environmental
Quality

FEBRUARY 26, 1979

Date of Issuance

DARVIN D. DIETZ
P.O. BOX 348
CODY, WYO. 82414

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-66R

Water System, Flagg Ranch, John D. Rockefeller
(Name of Facility)
Memorial Parkway

This permit hereby authorizes the applicant:

Grand Teton National Park
(Last) (First) (Middle)

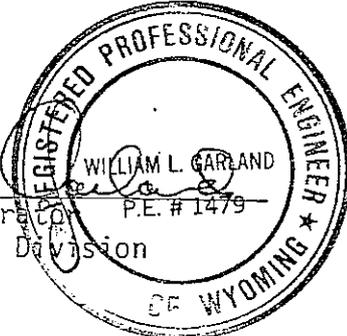
P. O. Box 67
(Street or P.O. Box)

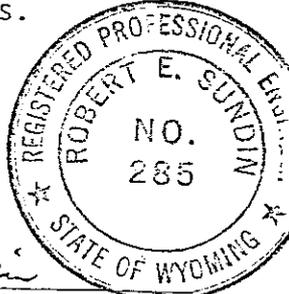
Moose, Wyoming 83012
(City) (County) (State)

to construct, install, or modify a water supply and water distribution
facility located in Sec. 16, T. 48 N., R. 115 W.,
(Legal Description)

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

AUTHORIZED BY:

William L. Garland
Administrative
Water Quality Division


Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality


June 13, 1979
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: FLAGG RANCH

ARCHITECT OR ENGINEER:

DONALD A PURSE

ASST. MGR. MIDWEST - ROCKY MOUNTAIN TEAM, DSC

WATER QUALITY DIVISION REFERENCE NUMBER: UNITED STATES DEPT OF THE INTERIOR, NAT. PARK SERVICE

REVIEWING ENGINEER:

79-66

Denver Service Center
755 Parfet St. POB 25287
DENVER, COLO. 80225

DATE OF REVIEW:

DOUG CRAIG *D.C.*

MAY 1, 1979

ACTION:

NOT AUTHORIZED.

COMMENTS:

1. As per our previous conversation, an "Application for a Permit to Construct" is necessary in triplicate.
2. Also, you indicate an addendum to the spec.s concerning water and sewer crossings.

DC/jky



Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-3047
3145

March 6, 1979.

United States Department of the Interior,
National Park Service,
Denver Service Center
755 Parfet Street,
P.O. Box 25287,
Denver, Colo. 80225.

Attn: Donald A. Purse

Dear Mr. Purse:

RE: JOHN D. ROCKEFELLER MEMORIAL
PARKWAY, PACKAGE 104, FLAGG RANCH,
WATER SYSTEM - DEQ-WQD NO. 79-66

We have received the construction drawings. However, we cannot start a review of the water system until the specifications are received.

One additional copy of the plans and specifications is needed. In addition, three copies of the "Application for Permit to Construct" should be filled out and submitted.

Sincerely,

Doug Craig For

David W. Hill,
DISTRICT SUPERVISOR.

DWH/jky

C.E. SPURLOCK, JR.
P.O. BOX 0
LANDER, WYO. 82520
ATTN: WILLARD ATEN

PERMIT TO CONSTRUCT

mailed
4/11/79

New

Permit No. 79-67RR

Renewal

Modified

JOHNSON'S FIRST ADDITION

(Name of Facility)

This permit hereby authorizes the applicant:

JOHNSON

CHESTER

(Last)

(First)

(Middle)

1000 N. FIFTH STREET

(Street or P.O. Box)

LANDER

WYOMING

82520

(City)

(County)

(State)

to construct, install, or modify a WATER DISTRIBUTION - SEWAGE COLLECTION

facility located in SECTION 7, T.33N, R.99W

(Legal Description)

in the County of FREMONT

in the State of

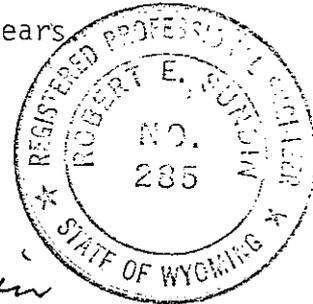
Wyoming. This permit shall be effective for a period of 2 years

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

AUTHORIZED BY:

William L. Ojala
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



APRIL 4, 1979.

Date of Issuance

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

JEQ

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: ~~JOHNSON'S FIRST ADDITION TO THE CITY OF LANDER~~
OWNER: C.E. SPURLOCK, JR.
P.O. BOX 0
LANDER, WYO. 82520 ATTN: WISLARD ATEN

ARCHITECT OR ENGINEER: CHESTER JOHNSON
1000 N. FIFTH ST.,
LANDER, WYO. 82520

WATER QUALITY DIVISION REFERENCE NUMBER:

REVIEWING ENGINEER: RICK ENGELMANN *RE* 79-67R

DATE OF REVIEW: MARCH 27, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. The drawings must be signed by a P.E..
2. The specifications for installation of valves, hydrants, etc. should include specification of adequate bedding support.

RE/jky

280
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: JOHNSON'S FIRST ADDITION TO THE CITY OF LANDER

OWNER: CHESTER JOHNSON
1000 N. FIFTH ST.
LANDER, WYO. 82520

ARCHITECT OR ENGINEER: C.E. SPURLOCK, JR.
P.O. BOX 0
LANDER, WYO. 82520

ATTN: WILLARD ATEN

WATER QUALITY DIVISION REFERENCE NUMBER:

79-67

REVIEWING ENGINEER:

RICK ENGELMANN *R.E.*

DATE OF REVIEW:

FEBRUARY 21, 1979

ACTION:

NOT AUTHORIZED

COMMENTS:

GENERAL:

1. A letter is needed from the City of Lander stating that they can handle the sewage and water flows.
2. We need 3 copies of all submitted material. One copy will stay at our Lander office, one will be sent to D.E.Q., Cheyenne, and one will be sent to the engineer on approval.

TRENCHING, BACKFILLING, AND COMPACTING:

1. The specifications should be more explicit in their definition of acceptable bedding, embedment, and backfill material. They should also be more specific on the methods used for haunching and backfilling (size of lifts, compaction equipment for the various pipe zones, etc.).

WATER LINES:

1. According to the latest revision of AWWA C600 (1977), maximum allowable leakage is:

$$L = \frac{ND \sqrt{P}}{7400}$$

rather than

$$L = \frac{ND \sqrt{P}}{3700}$$

In addition, the minimum test time is now 2 hours rather than 30 minutes.

REVIEW:

JOHNSON'S FIRST ADDITION TO THE CITY OF LANDER
ENGINEER: C.E. SPURLOCK, JR. ATTN: WILLARD ATEN
79-67

BY: RICK ENGELMANN
FEBRUARY 21, 1979
NOT AUTHORIZED.

- 2 -

2. The following are needed:

- a. Specifications for installation of valves, hydrants, and service connections.
- b. A hydrant, flushing hydrant, or similar device on the end of the dead-end line on Fifth Street.
- c. Inclusion of a copy of AWWA C601-68 in the specifications. This is needed because this standard is called out in the spec.s.

SEWERS:

1. What is the purpose of the casing and concrete encasement details on sheet 3? Is it planned to use this type of construction?

2. The following are needed:

- a. Calculations verifying that the loading on the sewers from vehicle traffic will not be excessive.
- b. Specification that the trench bottom must be shaped for the pipe barrel.
- c. Specifications for service connections.

PERMIT TO CONSTRUCT

mailed
3/6/79

- New
- Renewal
- Modified

Permit No. 79-68

Mountain Village Addition
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities
(Last) (First) (Middle)

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

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

to construct, install or modify a Water Distribution & Sewage Collection
facility located in City of Casper
(Legal Description)

in the County of Natrona, in the State of

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

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

AUTHORIZED BY:

William J. Gable
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

February 21, 1979
Date of Issuance

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

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

Book 79-69R

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-69R

Alcova West Ranchettes Water System
(Name of Facility)

This permit hereby authorizes the applicant:

Reeves, John A.
(Last) (First) (Middle)

526 Intermountain Building
(Street or P.O. Box)

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

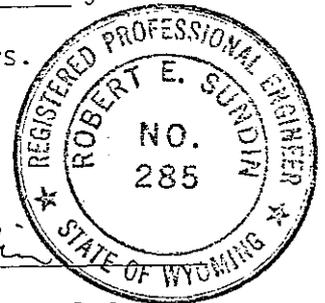
to construct, install, or modify a public water supply (distribution system)
facility located in Sec. 28, T30N, R83W
(Legal Description)

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

AUTHORIZED BY:

William J. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 2, 1979
Date of Issuance

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

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

mailed
3/28/79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Alcova West Ranchettes, Water Supply & Distribution System,
Natrona County, Wyoming

ARCHITECT OR ENGINEER: B. F. Cronin, Global Engineering & Land Surveying, Inc.
P. O. Box 532, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 79-69

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

DATE OF REVIEW: 3/23/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. General

- 1. All property within 100 feet of the well shall be reserved for water supply purposes. There shall be no sewer septic tanks, disposal fields, leaching pit or other sources of contamination in the reserved area.

NOTE: The well apparently was drilled without first obtaining "Site Approval" (See Section 15 of Chapter III, Wyoming Water Quality Rules & Regulations, 1976). Since it is located only 9 feet from the subdivision boundary, additional property will have to be obtained in order to prevent the location of any source of pollution within 100 feet of the well.

50 ft *100 ft*

*Where is
land located*

- 2. The plans and specifications shall carry the seal or signature of the designing engineer.
- 3. The surface of the ground around the well reservoir and booster pump enclosure shall not be subject to flooding and shall slope away from the facilities so that there will be no standing water on the surface within 50 feet of any unit.
- 4. What is the seasonal high groundwater level in the vicinity of the well, reservoir and booster pump facility?
- 5. Power supply shall be provided from at least two independent sources or standby, or auxiliary source shall be provided.

B. Well

- 1. Provisions shall be made for venting the well casing to the atmosphere. The vent shall terminate in a downturned position at a point at least 2 feet above ground level or the top of the pit cover. The vent opening shall be at least 1½ inches diameter and shall be covered with a 16 mesh non-corrodible screen.

pg 93

*floor drain in
well pit*

noisy machine

- ✓ 2. Specify disinfection of the well prior to placing in service.
- ✓ 3. Provision shall be made for future chlorination of the well water at a point upstream from the reservoir.
- ✓ 4. Provide a sampling tap in the well pump discharge pipe.

C. Reservoir

- ✓ 1. The use of a non-pressurized steel reservoir is not recommended because of short tank life due to corrosion resulting in a health hazard from seepage which could enter the tank undetected. *How is the tank to be protected from corrosion? How corrosion is the soil?*
- ✓ 2. The bottom shall be placed above the groundwater table and flood level, and at least 50% of the water depth should be above normal ground level.
- ✓ 3. The top of the reservoir shall be at least two feet above normal ground level.
- ✓ 4. Provide an overflow pipe which opens downward and is screened with 16 mesh non-corrodible screen installed within the pipe at a location least susceptible to vandalism. *can connect to drain*
- ✓ 5. The vent opening shall be covered with a 16 mesh non-corrodible screen and shall be located 24 to 36 inches above the ground.
- ✓ 6. Provide a drain to grade for maintenance purposes.
- ✓ 7. The access manhole should extend 24 to 36 inches above the ground.
- 8. The access manhole shall be fitted with a tight fitting watertight cover which overlaps the opening and extends down around the walls at least 2 inches. *?*
- 9. The manhole cover shall have a locking device. *for*

gaskets & clamp

D. Pump Station

- 1. The floor elevation shall be at least 6 inches above finished grade.
- 2. Submit the calculations covering determination of the need for 5 H.P. booster pumps along with the manufacturer's pump output curve or table showing pump output in the expected discharge pressure range up to 90 psi. NOTE: Each pump shall be capable of providing the maximum daily pumping demand of the system.
- 3. Provide automatic signaling equipment which will report when the station is out of service. *will be*



E. Distribution System

- 1. The open end of each air relief pipe from the automatic combination air release & intake valves shall be extended to at least one foot above grade and be provided with a screened downward facing elbow.

- ✓ 2. Pressure and Leakage Testing shall be conducted in accordance with Section 4-Hydrostatic Testing of AWWA Standard C600-77; maximum allowable leakage shall be 0.34 gallon per hour per 1000 feet of length and the pressures shall be maintained in the pipe under test for a period of at least 2 hours.
3. Consideration should be given to providing the following appurtenances:
 - ✓ a. At least one additional control valve on the north and south lengths of the distribution system in order to place one valve at about one block or 800 foot intervals.
 - ✓ b. An approved (not-stop-and-waste) flushing hydrant which discharges above grade at two or more widely separated locations.

lot 19

between lot 15 & 16

Drain line lot 25 valve?

mailed to
5. 3/30/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-71

BIG HORN COAL NO. 4 RESERVOIR (NPDES #002 POND)
(Name of Facility)

This permit hereby authorizes the applicant:

Big Horn Coal Company, Attention: Bert Brooks
(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 sediment pond

facility located in Section 15, 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. Gale
Administrator
Water Quality Division

Robert E. Scudine
Director
Wyoming Dept. of Environmental Quality

3/28/79
Date of Issuance

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

mailed to
5.3/30/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-72

BIG HORN COAL NO. 2 RESERVOIR (NPDES #003 POND)
(Name of Facility)

This permit hereby authorizes the applicant:

Big Horn Coal Company, Attention: Bert Brooks
(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 sediment pond
facility located in Section 15, 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 J. Janda
Administrator
Water Quality Division

Robert E. Lardin
Director
Wyoming Dept. of Environmental Quality

3/28/79
Date of Issuance

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

Book

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-74

Hardy Project - Bear Creek Uranium Company
(Name of Facility)

This permit hereby authorizes the applicant:

Bear Creek Uranium Company
(Last) (First) (Middle)

P.O. Box 2654
(Street or P.O. Box)

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

to construct, install, or modify a barium chloride injection and settling pond
facility located in Sections 21 and 22, T38N, R73W
(Legal Description)

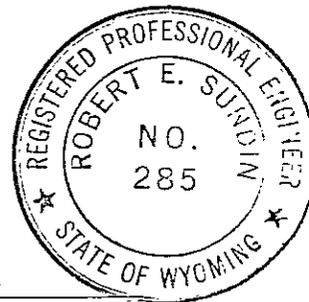
in the County of Converse, in the State of
Wyoming. This permit shall be effective for a period of two (2) years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



March 23, 1979
Date of Issuance

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

mailed to
§ 3/28/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-74

Hardy Project - Pioneer Nuclear, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Pioneer Nuclear, Inc.
(Last) (First) (Middle)

P.O. Box 151
(Street or P.O. Box)

Amarillo Texas 79189
(City) (County) (State)

to construct, install, or modify a Barium Chloride injection and settling pond
facility located in Sections 21 and 22, T.38N., R.73W.
(Legal Description)

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

AUTHORIZED BY:

William P. O'Neal
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 23, 1979
Date of Issuance

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

*Mailed to
L. 4/4/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-75R

GREEN MOUNTAIN - GMIX OPERATION BaCl₂ TREATMENT PLANT
MODIFICATIONS

(Name of Facility)

This permit hereby authorizes the applicant:

WESTERN NUCLEAR, INC.

(Last) (First) (Middle)

P.O. BOX 630

(Street or P.O. Box)

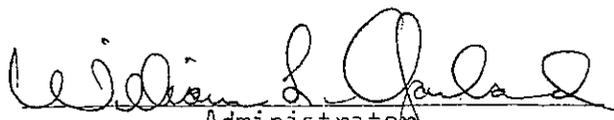
JEFFREY CITY WYOMING 82310

(City) (County) (State)

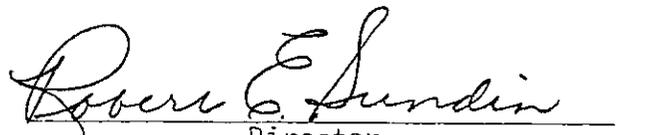
to construct, install, or modify a BARIUM CHLORIDE TREATMENT
facility located in SE 1/4 OF SEC. 17 AND THE SW 1/4 OF SEC. 16, T.28N, R.92W
(Legal Description)

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:



Administrator
Water Quality Division



Director
Wyoming Dept. of Environmental Quality

MARCH 29, 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."

960
16

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: $BaCl_2$ TREATMENT SYSTEM - GMLX OPERATION IMPROVEMENTS
OWNER: WESTERN NUCLEAR, INC. P.O. BOX 630 JEFFREY CITY, WYO. 82310

ARCHITECT OR ENGINEER: JOE CRONK
WESTERN NUCLEAR
P.O. BOX 630 JEFFREY CITY, WYO. 82310
WATER QUALITY DIVISION REFERENCE NUMBER:

REVIEWING ENGINEER: RICK ENGELMANN 79-75

DATE OF REVIEW: MARCH 16, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. The H_2SO_4 line into the $BaCl_2$ mix tank should enter right at the point of the IX Plant discharge to insure adequate acid mixing.
2. The air actuated valve in the H_2SO_4 line - is this a throttling valve?
3. If the solenoid valve on the $BaCl_2$ tank is open - at what rate would $BaCl_2$ flow into the system? What would be the resulting dose rate? How does this compare with the normal dose rate?
4. We are not entirely convinced that the baffling system is needed. However, we have no objection to installation of this system.
5. It appears that the major problem with both settling ponds is short circuiting and siltation. It appears that the best "fix" is dredging and inlet flow distribution, as you have proposed.

E/jky



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
----------------------------------	--	---	--	--

September 8, 1987

David Wilde
Bureau of Reclamation
P. O. Box 1630
Mills, Wyoming 82644

Re: Kortes Power Plant
Septic Tank Replacement - Ref. 79-76

Dear Mr. Wilde:

Based on the information submitted, a permit to replace your septic tank at the Kortes Powerplant is not required.

Sincerely,

Thomas S. Norman
Southeast District Supervisor
Water Quality Division

TSN/jn

Mto
6-6-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-77R

Boysen Powerplant Sewage Disposal System
(Name of Facility)

This permit hereby authorizes the applicant:

Bureau of Reclamation, Lower Missouri Region
(Last) (First) (Middle)

P.O. Box 1630
(Street or P.O. Box)

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

Attention: C-200., 363.
to construct, install, or modify a septic tank - drainfield
facility located in Sec. 9, T.5N, R.6E
(Legal Description)

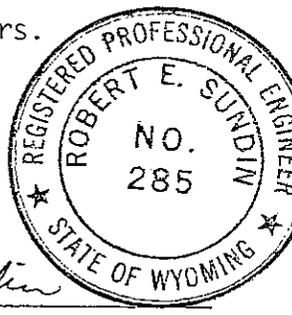
in the County of Fremont, in the State of
Wyoming. This permit shall be effective for a period of 2 years
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 30, 1979
Date of Issuance

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

BBQ

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

PROJECT: BOYSEN POWERPLANT SEWAGE DISPOSAL SYSTEM

ENGINEER: DARRELL SMITH
P.O. BOX 414
CASPER, WYO. 82602

OWNER: BUREAU OF RECLAMATION ATTN: EUGENE HINDE
LOWER MISSOURI REGION
P.O. BOX 25247
BLD. 20, DFC

WATER QUALITY DIVISION REFERENCE NUMBER: DENVER, CO. 80225 79-77

REVIEWING ENGINEER: RICK ENGELMANN *RE*

DATE OF REVIEW: FEBRUARY 28, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Because it is intended to bury the distribution lines so deeply, the lines must be vented to insure aerobic conditions in the line.
2. The sand bedding for the drainfield should not extend out to the toe of the slope on the north end of the disposal field. (See Section B-B.) You're liable to have seepage out through the toe if you do this.
3. The sand specified for the drainfield bed may be too fine. I am enclosing an excerpt from a publication which gives some criteria for sand in drainfield beds.
4. Concerning the percolation tests - these tests must be run. However, I seriously doubt these can affect the design. The basal area should be greater than

$$\frac{400 \text{ gpd}}{(1.5) \left(\sqrt{\frac{5}{t}} \right) \text{ gpd/sq. ft.}}$$

where

- t= perc. rate
- 1.5= safety factor
- basal area= area of sand/native soil interface.

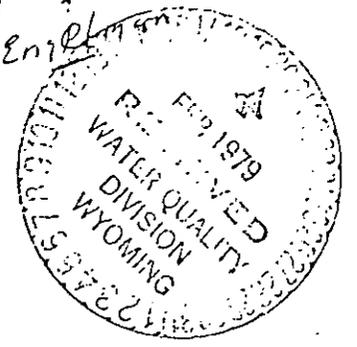
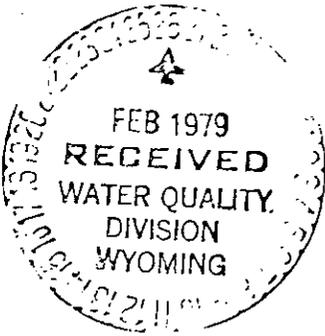
In any event, the perc. rate of the native soil must not exceed 60 minutes/inch.

We need to see the results of the tests before we can issue the permit.

Enclosures:

Look what I got
hold of

Dave Hill
Roy P...
Doug Cr...
Rick En...



Tom H

DESIGN AND CONSTRUCTION

MANUAL

FOR

WISCONSIN

MOUNDS

ON

- Slowly permeable soils with or without high water tables
- Shallow permeable soils over creviced bedrock
- Permeable soils with high water tables

Small Scale Waste Management Project
University of Wisconsin-Madison

Prepared by

James E. Converse
Agricultural Engineering Department
University of Wisconsin-Madison

September, 1978

Contribution from the Small Scale Waste Management Project (SSWM) University of Wisconsin, College of Agricultural and Life Sciences, College of Engineering and University and the State of Wisconsin. Additional grant funds were received from the Upper Great Lakes Regional Commission (Grant No. 102-20112 and 102-20135) and the Environmental Protection Agency (Grant No. R802874-02-0)

TABLE 2. Examples of Sand Sieve Analyses in Percent of Acceptable and Unacceptable Sands for Mounds in Wisconsin.

Sample No.	USDA Classification							Comments
	Gravel >2mm	Very Coarse Sand 1-2mm	Coarse Sand .5-1mm	Medium Sand .25-.5mm	Fine Sand .1-.25mm	Very Fine Sand .05-.1mm	Silt and Clay <.05mm	
1	9	6	22	51	11	0	1	good fill
2	5	0	27	51	13	1	1	good fill
3	0	16	16	39	34	4	1	good fill
4	46	13	12	14	6	2	7	unacceptable - too coarse
5	40	15	17	18	7	1	2	unacceptable - too coarse
6	0	0	7	33	55	4	1	unacceptable - too fine
7	2	0	1	4	30	10	53	unacceptable - too fine
8	18	3	8	30	24	4	15	poor to fair - judgement ^a
9	23	15	22	20	10	6	4	poor to fair - judgement ^a

^aSample 8 is a marginal fill because of the many fines. Sample 9 is a marginal fill because it has too much coarse material. Both of these would be judgement decisions. If acceptable fills were close by, these two fills would not be recommended. If acceptable sands were a great distance away, then they could be used.

PERMIT TO CONSTRUCT

*mailed to
L. 4/4/79*

- New
- Renewal
- Modified

Permit No. 79-78 R

ZUMBRENNEN LIGHT INDUSTRIAL PARK

(Name of Facility)

This permit hereby authorizes the applicant:

ZUMBRENNEN INDUSTRIAL PARK

(Last)

(First)

(Middle)

P.O. BOX 1142

(Street or P.O. Box)

ROCK SPRINGS, WYO.

82901

(City)

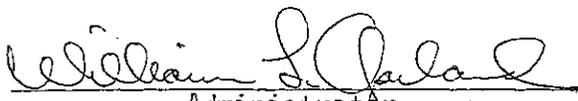
(County)

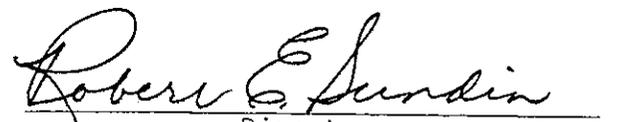
(State)

to construct, install, or modify a WATER DISTRIBUTION AND WASTEWATER COLLECTION
facility located in SEC. 21, 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:


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

MARCH 28, 1979

Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: ~~ZUMBRENNA LIGHT INDUSTRIAL PARK~~
~~SEC. 21, T. 15N, R. 20W~~
~~EVANSTON, WYO., Uinta COUNTY~~

ARCHITECT OR ENGINEER: HARRY N. CARLTON, CARLTON & CARLTON
P.E. P.O. BOX 435, Evanston, Wyo. 82930

WATER QUALITY DIVISION REFERENCE NUMBER: ~~79-78~~

REVIEWING ENGINEER: ^{DAW} DAVID W. HILL

DATE OF REVIEW: MARCH 5, 1979

ACTION: ~~NOT AUTHORIZED~~

COMMENTS:

GENERAL

1. A letter is needed from the City of Evanston indicating that they will supply water and sewer service for this industrial park.

SEWER SYSTEM

2. A deflection testing specification is needed for PVC pipe.
3. Branch wyes should be used.
4. Indicate valve locations.

OWNER: SUMBRENNA INDUSTRIAL PARK
P.O. BOX 1142
ROCK SPRINGS, WYO. 82901

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

Boat
11-10-11-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-79RR

Oregon Trail Estates No. 2, Town of Glenrock
(Name of Facility)

This permit hereby authorizes the applicant:

Nelson, Jim
(Last) (First) (Middle)

933 W. 14th Street
(Street or P.O. Box)

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

to construct, install, or modify a water distribution and sewage collection
facility located in Sec. 3, T33N, R75W
(Legal Description)

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

AUTHORIZED BY:

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

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

October 10, 1979
Date of Issuance

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

Book
100-24-79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Glenrock, Oregon Trail Estates No. 2, Water & Sewer Plans, Converse Co.

ARCHITECT OR ENGINEER: Charles K. Wolz, P. E., Glenrock Engineering, Box 790,
Glenrock, WY 82637

WATER QUALITY DIVISION REFERENCE NUMBER: 79-79

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

DATE OF REVIEW: 3/29/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Water Main Extension

1. Specify that the water lines shall also conform to the following requirements:
 - a. Non-toxic type plastic bearing the seal of approval of the National Sanitation Foundation
 - b. ASTM Standard D2241-76
NOTE: ASTM Class 200 pipe with an SDR 21 is rated by DEQ at 125 psi and should not be used where a higher class is required.
2. Specify the type of joints and the joining materials to be used.
NOTE: If solvent cement is to be used it shall be of a non-toxic type and have the approval of the National Sanitation Foundation.
3. Specify the material of construction, the class or pressure rating and type (threaded, mechanical, cemented) of fitting to be used.
NOTE: Grey-iron and Ductile-iron fittings shall conform with AWWA Standard C110-77.
4. Revise line 11 of Section A-7 Trenches on page 2 of the specifications to read as follows: "minimum of five feet of cover ~~to~~ - depths".
5. Pressure and Leading Testing shall be conducted in accordance with Section 4-Hydrostatic testing of AWWA Standard C600-77 and shall be of 2 hour duration at 1.5 x the working pressure. Allowable leakage per 1000 feet of 6" pipeline at 100 psi is 0.45 gallons per hour.

B. Sewer Main Extension

1. Specify the method of making joints and materials to be used.
2. Provide specifications covering limitation on ovalation of PVC sewer pipe due to improper backfilling and/or compaction. The maximum vertical deflection shall not exceed 5% of the pipe internal diameter.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

HERSCHLER BUILDING

May 5, 1986

Bob Drobish
Recreation Commission
Herschler Building
Cheyenne, WY 82002

RE: Hynds Lodge Water and Sewer System, Curt Gowdy State Park

Dear Mr. Drobish:

For failure to respond to the review comments of March 9, 1979 for the construction permit application for the Hynds Lodge water and sewer system, the Water Quality Division is dropping this application from our computer listing. This system has not been permitted and all references to this application are being removed.

Sincerely,

Thomas S. Norman

Thomas S. Norman
Engineering Evaluator

TSN/pjb

cc: G W Yannaccone
79-80 file ✓



Department of Environmental Quality

Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 13, 1984

Mr. Alvin Bastron
Wyoming Recreation Commission
604 East 25th Street
Cheyenne, WY 82002

Dear Mr. Bastron:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name:	Curt Gowdy State Park, Hynds Lodge Water & Sewer System
DEQ/WQD Reference Number:	79-80
Engineering Consultant:	G. W. Yannaccone, Wyoming Recreation Commission
DEQ/WQD Reviewing Engineer:	LeRoy C. Feusner
Date of DEQ/WQD Review:	March 9, 1979

Please indicate below the status of your application and return this form to our office:

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- Other remarks _____

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



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

cc: G. W. Yannaccone
Wyoming Recreation Commission
604 East 25th Street
Cheyenne, WY 82002

mailed
3/15/79

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Hynds Lodge Water & Sewer System
Curt Gowdy State Park

ARCHITECT OR ENGINEER: G. W. Yannaccone
Wyoming Recreation Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 79-80

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



DATE OF REVIEW: 3/9/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Two complete sets of plans/specifications should be submitted to DEQ/WQD for review and comments.
2. An application form for a Permit to Construct must be filed with each set of plans/specifications.
3. Sheet 2, Hynds Lodge Water System:
 - a. Indicate position of water wells to buildings and sewage disposal system, including distances between wells, buildings, septic tank, and disposal field. Distance must be IAW State specifications.
 - b. Indicate water supply calculations to verify that a 20 gpm demand (pump) will satisfy all domestic/fire requirements. If fire requirements and hydrant are to be included, a larger water supply from well to building may be required.
 - c. Will old well continue to furnish water? If not, it should be sealed IAW AWWA Standard A100, Section A1-13.
 - d. Recommend use of a 1½" copper or cast iron pipe, instead of galvanized pipe, from 5 feet outside building to inside connection.
 - e. If water supply line crosses wastewater line, show details of crossover.
 - f. ASTM Standard D1248-69 is not current. Prefer AWWA Standard references for water supply systems. If Product Standard 11-69 is to be used, please furnish this office a copy for review. Mechanical joints or slip-on joints with rubber gaskets are preferred.
 - g. What trailer house connections? Are the trailer houses also connected to the sewer line? Show number and typical connections.

- h. Recommend 5 feet minimum cover over water supply line to prevent freezing.
- i. Assume you mean polyethylene plastic water line (spelling error).

4. Sheet 3, Hynds Lodge Wastewater System:

a. DEQ does not maintain instructions/drawings on Armon Systems. Either install Armon System as specified by manufacturer literature or consider a septic tank with a evapotranspiration or elevated leach field. Show complete plan/elevation views of any septic tank. Also show details of septic tank design.

b. Show wastewater line slope plan for 4" sewer line.

c. What is the construction material for the 4" wastewater line constructed from the cast iron pipe to the septic tank or Armon system?

d. Recommend minimum of 5 feet cover over sewer line to prevent freezing.

e. Cast iron sewer pipe through building wall must extend out a minimum of 5 feet. Provide detail of cast iron/plastic pipe connection.

f. Provide copy of Commercial Standard CS228-61; otherwise reference ASTM Standards for wastewater systems.

g. Recommend minimum change of direction in sewer line.

h. Show detail of connecting existing 2" drain line to cast iron stub.

i. Show complete design drawing, including distances/material thicknesses, for the Armon system.

j. Clarify that rock size for Armon system may be minimum of 3/4" to maximum of 4" in diameter and free of clay/soil.

k. Specify medium coarse sand for Armon system.

l. Indicated height of sand above domed top of upper tank unit on Armon system.

PERMIT TO CONSTRUCT

mailed to
J. 4/1/79

- New
- Renewal
- Modified

Permit No. 79-81R

Plant Settling Pond No. 1, ARCO Coal Creek Mine
(Name of Facility)

This permit hereby authorizes the applicant:

Atlantic Richfield Co., Attention: D. R. Christiansen
(Last) (First) (Middle)

P.O. Box 5300
(Street or P.O. Box)

Denver, CO 80217
(City) (County) (State)

to construct, install, or modify a runoff and washdown water settling pond
facility located in Section 17, T.46N., R.70W.
(Legal Description)

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

AUTHORIZED BY:

William J. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

April 3, 1979
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT:

Plant Settling Pond No. 1, ARCO

ARCHITECT OR ENGINEER:

Attention: D. R. Christiansen
Atlantic Richfield Co.
P.O. Box 5300
Denver, CO 80217

WATER QUALITY DIVISION REFERENCE NUMBER:

79-81

REVIEWING ENGINEER:

Dan H. Kim DK

DATE OF REVIEW:

March 14, 1979

ACTION:

Not Authorized for Construction (see comments)

COMMENTS:

1. NPDES permit requires a flow measuring device to be installed at the discharging point. Details are needed.
2. Will riprap be needed at the discharging point to minimize erosion?
3. Will seepage collars be needed on the galvanized csp outlet pipes?
4. Your soil specification indicates that the type of soil on the immediate vicinity of the pond is Cushman and Wibaux Channery loam. Our information says that hazard of erosion of both types of soil is moderate to severe. Therefore, it is felt that a maximum velocity of 5 ft/sec, used in the design of conveying ditch or channel may be somewhat high, if those soils were used for channel lining. Please discuss. If those soils are not to be used, what types of soil will be used?
5. Specifications for pond construction are needed, including:
 - Stripping and preparation of the embankment foundation
 - Seeding of embankment
 - Clay liner installation

Book
M to S
5-17-79

PERMIT TO CONSTRUCT

New

Permit No. 79-82R

Renewal

Modified

IRIGARAY URANIUM MINE RESTORATION POND A

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Mineral Corporation

(Last)

(First)

(Middle)

3900 South Wadsworth Blvd.

(Street or P.O. Box)

Lakewood, CO 80235

(City)

(County)

(State)

to construct, install, or modify a evaporation pond

facility located in Section 9, T.45N., R.77W.

(Legal Description)

in the County of Johnson, in the State of

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

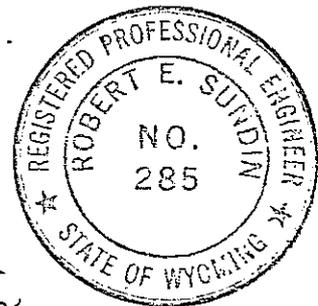
from the date of issuance of this permit not to exceed five (5) years.

cc: Ms. Donna Wichers
P.O. Box 1038, Buffalo, WY 82834

AUTHORIZED BY:

William L. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 17, 1979
Date of Issuance

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

Book
mto S
5-17-79

PERMIT TO CONSTRUCT

New

Permit No. 79-83R

Renewal

Modified

IRIGARAY URANIUM MINE RESTORATION POND B

(Name of Facility)

This permit hereby authorizes the applicant:

Wyoming Mineral Corporation

(Last)

(First)

(Middle)

3900 South Wadsworth Blvd.

(Street or P.O. Box)

Lakewood, CO 80235

(City)

(County)

(State)

to construct, install, or modify a evaporation pond

facility located in Section 9, T.45N., R.77W.

(Legal Description)

in the County of Johnson, in the State of

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

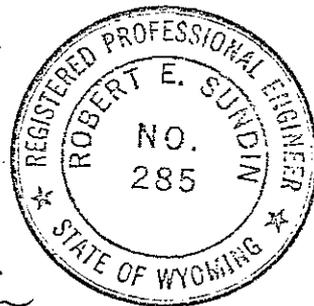
from the date of issuance of this permit not to exceed five (5) years.

cc: Ms. Donna Wichers
P.O. Box 1038, Buffalo, WY 82834

AUTHORIZED BY:

William L. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



May 17, 1979

Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Irigaray Uranium Mine
Restoration Pond A (79-82) Restoration Pond B (79-83)

ARCHITECT OR ENGINEER: Donna Wichers
Wyoming Mineral Corporation
3900 S. Wadsworth Blvd.
Lakewood, CO 80235

WATER QUALITY DIVISION REFERENCE NUMBER: 79-82, 79-83

REVIEWING ENGINEER: Dan H. Kim DK

DATE OF REVIEW: March 15, 1979

ACTION: Not Authorized for Construction (see the comments)

COMMENTS:

1. Design criteria for the restoration ponds are needed, including:
 - Estimated daily flow rate of the wastewater
 - Evaporation rate and precipitation data used
 - Influent line design
2. What measures could be taken to prevent the 1½" diameter polyethylene influent pipe from freezing?
3. Specifications for pond construction are needed, such as:
 - Stripping and preparation of embankment foundation
 - Seeding of embankment
 - Maximum size of gravel used under the plastic membrane liner
 - Degree of compaction and material specifications for the "compacted substrate" used for the liner bedding material.

cc: Jerry A. Jelinek
4630 Indiana Street
Golden, CO 80401

Books
mailed
4-13-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-84R

Triangle 'S' Mobile Villa
(Name of Facility)

This permit hereby authorizes the applicant:

Stanley Delman
(Last) (First) (Middle)

Box 776
(Street or P.O. Box)

Rawlins Carbon Wyoming 82301
(City) (County) (State)

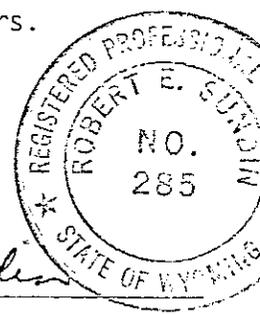
to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 10, T17, R84
(Legal Description)

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 J. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality



April 4, 1979
Date of Issuance

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

PERMIT TO CONSTRUCT

mailed
3/29/79

- New
- Renewal
- Modified

Permit No. 79-84

Triangle 'S' Mobile Villa
(Name of Facility)

This permit hereby authorizes the applicant:

Stanley Delman
(Last) (First) (Middle)

Box 776
(Street or P.O. Box)

Rawlins Carbon Wyoming 82301
(City) (County) (State)

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in Section 10, T17, R84
(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 J. Galan
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 9, 1979
Date of Issuance

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

*mailed
to L. 3/13/79*

New

Renewal

Permit No. 79-85

Modified

NORTH BIG HORN COUNTY AIRPORT SEWAGE DISPOSAL FACILITIES
(Name of Facility)

This permit hereby authorizes the applicant:

BIG HORN COUNTY

(Last)

(First)

(Middle)

COURT HOUSE

(Street or P.O. Box)

BASIN

WYOMING

82410

(City)

(State)

(Zip Code)

ATTN: RAY WEBBER

to construct, install, or modify a SEPTIC TANK-DRAINFIELD

facility located in S.E. 1/4, S.W. 1/4 of SEC. 16, T57N R. 96W
(Legal Description)

in the County of BIG HORN, in the State of Wyoming.

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

Authorized by:

William L. Janda
Administrator
Water Quality Division

Robert E. Jordan
Director
Department of Environmental
Quality

MARCH 1, 1979.

Date of Issuance

GRAHAM DIETZ & ASSOCIATES
P.O. BOX 348 CODY, WYO. 82414

Mailed
5-4-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-86

R. M. Coates
(Name of Facility)

This permit hereby authorizes the applicant:

Coates, R. M.
 (Last) (First) (Middle)
5017 Alcova Rt., Box 39
 (Street or P.O. Box)
 Casper, Natrona Wyoming 82602
 (City) (County) (State)

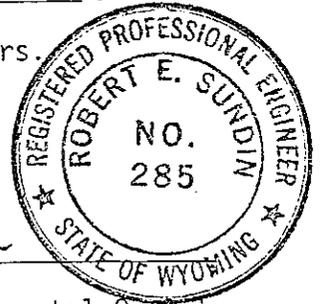
to construct, install, or modify a municipal subsurface disposal
 facility located in Lot 9, Skyline III
 (Legal Description)

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

AUTHORIZED BY:

William L. Paulson
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality



May 3, 1979
 Date of Issuance

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

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



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 4, 1979

R. M. Coates
5017 Alcova Rt.
Box 39
Casper, Wyoming 82602

Dear Mr. Coates:

Please accept our appologies for the delay in issuing your permit. Our records showed that it was authorized in April but a further check showed that it had never been mailed. We hope that this has not caused you any inconvenience.

Sincere apologies,

Norma Coulson

Norma Coulson
Department of Environmental Quality
Water Quality Division

nc

mailed
3/21/79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-87

Skyview Industrial Partners
(Name of Facility)

This permit hereby authorizes the applicant:

Schilling Clark
(Last) (First) (Middle)

P. O. Box A-1, Star Route
(Street or P.O. Box)

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

to construct, install, or modify a n Industrial Subsurface Disposal (Small)
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 L. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 14, 1979
Date of Issuance

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

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

*mailed
to P. 3/28/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-88R

PHIL CAMPBELL MOTEL

(Name of Facility)

This permit hereby authorizes the applicant:

CAMPBELL PHIL

 (Last) (First) (Middle)

NORTH FORK STAR RT.

 (Street or P.O. Box)

CODY WYOMING 82414

 (City) (County) (State)

to construct, install, or modify a SEPTIC TANK - DRAINFIELD
 facility located in SEC. 21, T.52N R.105W

 (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. Carls
 Administrator
 Water Quality Division

Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality

MARCH 16, 1979
 Date of Issuance

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

JD

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING, 82520.
(307)⁴ 332-3144

PROJECT: PHIL CAMPBELL MOTEL SEWAGE DISPOSAL SYSTEM

ENGINEER: R.L. JACOBSON, ENGINEERING ASSOC.
P.O. BOX 1539
CODY, WYO. 82414

OWNER: PHIL CAMPBELL
NORTH FORK STAR RT.
CODY, WYO. 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 79-88

REVIEWING ENGINEER: RICK ENGELMANN R.E.

DATE OF REVIEW: MARCH 1, 1979.

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Please provide the ground slope of the septic tank - drainfield site, a more complete legal description (quarter-quarter section, or a location map), and the lot lines (if nearby).
2. The parallel lines must be laid with a minimum of 6' of native earth between trenches. Using 3' trenches would result in a minimum of 9' spacing.
3. Will Engineering Associates be inspecting construction of this job? The reason this is being asked is that survey control will be needed to insure the levelness of the distribution field. A level field is critical for even distribution in a drainfield of this size.
4. How will the rooms and laundry be split among the three septic tanks?

C.C. MR. LEON R. KJELLGREN, P.E.
P.O. BOX 1144
ROCK SPRINGS, WYO. 82901

*mailed to
L-3/28/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-89

WESTRIDGE ESTATES

(Name of Facility)

This permit hereby authorizes the applicant:

WESTRIDGE DE V. CORP.

(Last) (First) (Middle)

P.O. BOX 1016

(Street or P.O. Box)

ROCK SPRINGS WYO. 82901

(City) (County) (State)

to construct, install, or modify a WATER DISTRIBUTION AND WASTEWATER COLLECTION
facility located in SEC. 33 T19N R105W
(Legal Description)

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

AUTHORIZED BY:

William L. Oelard
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

MARCH 12, 1979

Date of Issuance

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

PERMIT TO CONSTRUCT

New

Permit No. 79-90R

Renewal

Modified

Morton Ranch Tailings Disposal and Sediment Retention System
(Name of Facility)

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

Silver King Mines, Inc.

P.O. Box 560

Casper, Wyoming. 82602-0560

to construct, install, or modify a uranium mill tailings disposal and sediment retention

facility according to the procedures and conditions of the
application No. 79-90R. The facility is located in Sections 11, 12, 13,
14, 15, 22 and 23, T.35N., R.72W.

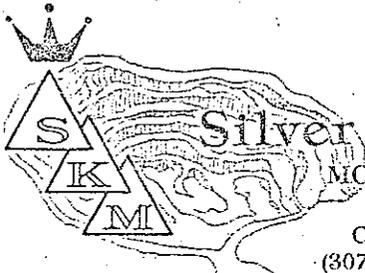
in the County of Converse,
in the State of Wyoming. This permit shall be effective for a period of five (5)
years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and



Silver King Mines, Inc.

MORTON RANCH PROJECT

P. O. Box 560

Casper, Wyoming 82602-0560

(307) 358-5112 — (307) 265-6447

March 12, 1984



Mr. Rich Ruyle
Environmental Engineer
DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
2161 Coffeen Avenue, Suite 301
Sheridan, Wyoming 82801

RE: Permit No. 79-90R

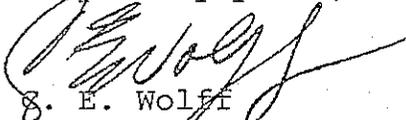
Dear Rich:

According to our records, Permit No. 79-90R, to construct a uranium mill tailings disposal and sediment retention facility expires on October 1, 1984. This facility is located in sections 11, 12, 13, 14, 15, 22, and 23 of Township 35 North, Range 72 West in Converse County, Wyoming.

Because of the deferral in mining activities at the Morton Ranch Project, brought about by the generally unfavorable market conditions being experienced by the uranium industry, the above mentioned facility has not yet been constructed. Silver King Mines, Inc. intends to construct the mill tailings disposal and sediment retention facility when market conditions improve.

Consequently, Silver King desires to keep Permit No. 79-90R in an active status, and requests renewal of the permit for a minimum period of five (5) years or as long as is possible for extension. We appreciate your consideration of this request and would be pleased to provide any additional information you may require regarding this matter.

Very truly yours,


S. E. Wolff
Resident Manager
Morton Ranch Project

CEW:meo

- cc: B. M. Angle
- F. C. Feth
- K. F. Wilson
- M. R. Central File

10-13-81

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-90R

Morton Ranch Tailings Disposal and Sediment Retention System
 (Name of Facility)

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

Silver King Mines, Inc.

P. O. Box 560

Casper, WY 82602-0560

to construct, install, or modify a uranium mill tailings disposal and sediment retention facility according to the procedures and conditions of the application No. 79-90R. The facility is located in Sections 11, 12, 13, 14, 15, 22 and 23, T35N, R72W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of three (3) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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



Department of Environmental Quality

Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 1, 1981

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

Dear Mr. Wolff:

This Division has received Silver King Mines, Inc.'s request for ownership transfer of several permits to construct for various facilities at the Morton Ranch Mine. Only three of the referenced permits are active by DEQ records. Two of the permits will be reissued to Silver King Mines, Inc. The third permit, No. 79-399R, was issued for wastewater treatment facilities at North Morton Ranch Golden Eagle Mine. Since this permit expires on October 16, 1981, I see no need to reissue the permit unless construction of the facility has not been completed. If the facility is not completed, SKM should make application for permit reissuance.

It should also be pointed out that all the other permits requested for transfer to SKM have expired. Any new construction or modification on these facilities require a new permit prior to any construction or modification. Any change of use of the permitted facilities in either quantity or quality of influent requires a permit to construct, install or modify.

Contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Jake Strohmman".

Jake Strohmman, P.E.
Engineering Control Supervisor

JS/pjb
Enclosures



Silver King Mines, Inc.

XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXX

P. O. Box 560
Casper, Wyoming
82602-0560

September 21, 1981

DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
1111 East Lincolnway
Cheyenne, Wyoming 82002

Attn: Mr. William L. Garland
Administrator

RE: Permit Transfer Request
Permit No. 79-90R

Dear Mr. Garland:

Silver King Mines, Inc. hereby declares that it is the new permanent operator of the Morton Ranch Project located north of Douglas, Converse County, Wyoming.

Silver King Mines, Inc. has reviewed and hereby adopts the original Permit No. 79-90R issued to United Nuclear Corporation on May 31, 1979; and hereby agrees to operate in accordance with the described plans; comply with all the terms and conditions; and perform all obligations of said permit (copy attached).

We trust this information will meet your requirements. Please advise at your earliest convenience if additional information is desired.

Silver King Mines, Inc. will comply with all rules and regulations of the Water Quality Division and looks forward to a long lasting cooperative relationship. We request the transfer to be effective October 1, 1981.

Very truly yours,

O. E. Wolff
Resident Manager
Morton Ranch Project

CEW:meo

Attachment

- cc: R. M. Caywood
- P. A. Crowell
- R. L. Morley
- R. J. Mullin
- L. L. Snell
- R. E. Sundin (DEQ)
- M. R. Central File
- A. W. Woods

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-90R

MORTON RANCH TAILINGS DISPOSAL AND SEDIMENT RETENTION SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant:

UNITED NUCLEAR CORP.

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

JUN 27 1979

Attention: Mr. Corwin Likins
P.O. Box 2996

(Street or P.O. Box)

MINING & MILLING DIV.
CASPER, WYOMING

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

to construct, install, or modify a uranium mill tailings disposal and sediment retention
facility located in Sections 11, 12, 13, 14, 15, 22 and 23, T35N, R72W
(Legal Description)

in the County of Converse, in the State of
Wyoming. This permit shall be effective for a period of three (3) years
~~five (5)~~
from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

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

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

May 31, 1979
Date of Issuance

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-90R

MORTON RANCH TAILINGS DISPOSAL AND SEDIMENT RETENTION SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant:

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

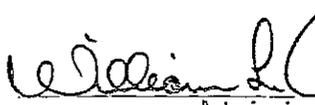
Attention: Mr. Corwin Likins
P.O. Box 2996
(Street or P.O. Box)

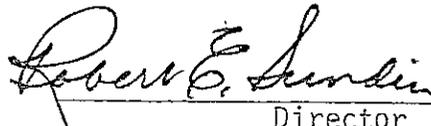
Casper, Wyoming 82602
(City) (County) (State)

to construct, install, or modify a uranium mill tailings disposal and sediment retention
facility located in Sections 11, 12, 13, 14, 15, 22 and 23, T35N, R72W
(Legal Description)

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

AUTHORIZED BY:


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


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

May 31, 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."

UNITED NUCLEAR
CORPORATION

MINING AND MILLING DIVISION
MORTON RANCH OPERATIONS
P. O. BOX 2996
CASPER, WYOMING 82602
AREA CODE (307)
266-4222
358-5112

June 11, 1979

William L. Garland, Administrator
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division
Hathaway Building
Cheyenne, Wyoming 82002



Re: Permit to Construct Morton Ranch Tailings Disposal
and Sediment Retention System

Dear Mr. Garland:

This letter will confirm our telephone conversation of this date pertaining to a correction of the location of the above system.

The enclosed application form gives the correct township as being 35 North, however, on the "Permit to Construct" it shows the township as being 36 North.

Enclosed is the Permit to Construct and a copy of the application. Please have a corrected Permit sent to us at your earliest convenience. Thank you.

UNITED NUCLEAR CORPORATION
Mining and Milling Division

A handwritten signature in dark ink, appearing to read "C. H. Likins". The signature is fluid and cursive.

C. H. Likins
Environmental Supervisor

CHL:jl

Enc.

cc: A. W. Shafer
C. E. Wolff
A. W. Woods

PERMIT TO CONSTRUCT

VOID

- New
- Renewal
- Modified

Permit No. 79-90R

MORTON RANCH TAILINGS DISPOSAL AND SEDIMENT RETENTION SYSTEM
(Name of Facility)

This permit hereby authorizes the applicant:

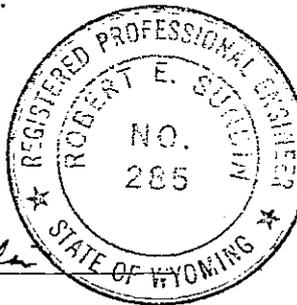
United Nuclear Corporation
 (Last) (First) (Middle)
 Attention: Mr. Corwin Likins
P.O. Box 2996
 (Street or P.O. Box)
Casper, Wyoming 82602
 (City) (County) (State)

to construct, install, or modify a uranium mill tailings disposal and sediment retention
 facility located in Sections 11, 12, 13, 14, 15, 22, and 23, T.36N., R.72W.
 (Legal Description)

in the County of Converse, in the State of
 Wyoming. This permit shall be effective for a period of five (5) 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. Sunde
 Director
 Wyoming Dept. of Environmental Quality


May 31, 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

*mailed
(handed)
3/5/79*

- New
- Renewal
- Modified

Permit No. 79-91

BROOKS SEWER REALIGNMENT

(Name of Facility)

This permit hereby authorizes the applicant:

Brooks Water & Sewer District
 (Last) (First) (Middle)
 c/o Tom McDill - The Engineer
6405 Indian Scout
 (Street or P.O. Box)

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

to construct, install, or modify a municipal sewer system
 facility located in Section 6, T.33 N., R. 79 W.
 (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. Quinn
 Administrator
 Water Quality Division

Robert E. Lundin
 Director
 Wyoming Dept. of Environmental Quality

February 5, 1979
 Date of Issuance

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

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

C.C. JOHNSON-FERMELIA & CRANK, INC.
1515 NINTH ST.
P.O. BOX 1633
ROCK SPRINGS, WYO. 82901

*mailed to
J. 3/21/79*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-92R

SWEETWATER COUNTY SOLID WASTE DISPOSAL DIST. NO. 1

(Name of Facility)

This permit hereby authorizes the applicant:

SWEETWATER COUNTY SOLID WASTE DISPOSAL DIST. NO. 1
(Last) (First) (Middle)

544 BROADWAY
(Street or P.O. Box)

ROCK SPRINGS, WYO. 82901
(City) (County) (State)

to construct, install or modify a SEPTIC TANK - LEACH FIELD

facility located in SEC. 20 T18N R105W
(Legal Description)

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

AUTHORIZED BY:

William J. Gale
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

MARCH 21, 1979.
Date of Issuance

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



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

PROJECT: SWEETWATER COUNTY SOLID WASTE DISPOSAL DIST. NO. 1

ENGINEER: JOHNSON-FERMELIA & CRANK, INC.
1515 NINTH STREET
P.O. BOX 1633
ROCK SPRINGS, WYO. 82901

OWNER: SWEETWATER COUNTY SOLID WASTE DISPOSAL DIST. NO. 1
544 BROADWAY
ROCK SPRINGS, WYO. 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 79-92

REVIEWING ENGINEER: DOUG CRAIG *D.C.*

DATE OF REVIEW: MARCH 7, 1979.

ACTION: NOT AUTHORIZED.

COMMENTS:

1. Please provide water-sewer crossing spec.s.
2. Jetting should not be used for compacting PVC Pipe. This compaction method has a tendency to disturb the original pipe placement and in some cases, float the pipe.

PTER M. JORGENSEN, P.E
P.O. BOX 1142
JACKSON, WYO. 83001

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
PERMIT TO CONSTRUCT

M. Jorgensen
800 -
7-279

c.c. Robert Ablondi-Teton County Planning Commission,
 New Teton County Courthouse, Jackson, Wyo. 83001

Renewal

Permit No. 79-93

Modified

CROSS REF: 78-295

THE ASPEN - LOT 13

(Name of Facility)

This permit hereby authorizes the applicant:

JACKSON HOLE RACQUET CLUB VENTURES

(Last)

(First)

(Middle)

P.O. BOX 362 A STAR ROUTE

(Street or P.O. Box)

JACKSON, WYO. 83001

(City)

(State)

(Zip Code)

to construct, install, or modify a WATER DISTRIBUTION AND WASTEWATER COLLECTION
facility located in SEC.11, T41N R117W LINES
(Legal Description)

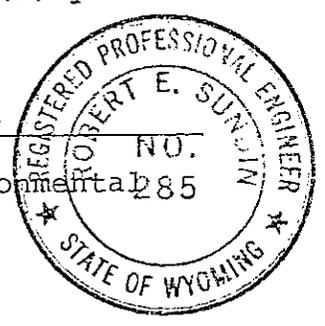
in the County of TETON, in the State of Wyoming.

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

Authorized by:

William L. Jorgensen
Administrator
Water Quality Division

Robert E. Sundin
Director
Department of Environmental
Quality



APRIL 9, 1979.

Date of Issuance

THE CONDOMINIUMS SERVED BY THIS SEWER LINE SHALL NOT BE OCCUPIED UNTIL THE ADDITIONAL
ELEVATED LEACH FIELD IS CONSTRUCTED AND OPERATING.

"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 per-
mitted facility, when constructed, will meet applicable discharge permit conditions
or other effluent or operational requirements."

Book
Mailed
4-13-79

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-94

Meadowlark Hills - Phase IV
(Name of Facility)

This permit hereby authorizes the applicant:

Casper Board of Public Utilities
(Last) (First) (Middle)

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

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

to construct, install, or modify a Water Distribution & Sewage Collection
facility located in City of Casper
(Legal Description)

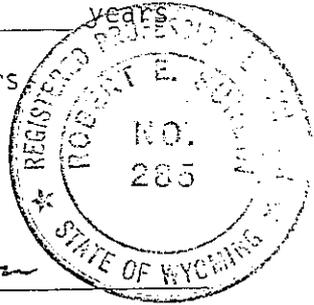
in the County of Natrona, in the State of

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

AUTHORIZED BY:

William L. Galad
Administrator
Water Quality Division

Robert E. Jordan
Director
Wyoming Dept. of Environmental Quality



April 4, 1979
Date of Issuance

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

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

PERMIT TO CONSTRUCT

mailed to
S. 3/28/79

- New
- Renewal
- Modified

Permit No. 79-95

Special Improvement District No. 62 (Tracts 1, 2, 3) City of Sheridan
(Name of Facility)

This permit hereby authorizes the applicant:

City of Sheridan, Attention: Cliff Sanders
(Last) (First) (Middle)

P.O. Box 848
(Street or P.O. Box)

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

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

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

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

AUTHORIZED BY:

William J. Gale
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

March 26, 1979
Date of Issuance

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

79-96 3/8/79
Telephone review completed
Construction completed
No permit to be issued
T.M.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 79-97RR

7 K's R. V. Park
(Name of Facility)

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

Joe Schultz
W of Cody
Cody, WY 82414

to construct, install, or modify a _____
water distribution, sewage collection and sewage disposal

_____ facility according to the procedures and conditions of the
application No. 79-97RR. The facility is located in _____

Tract 74, T52N, R102W
_____ in the County of Park,

in the State of Wyoming. This permit shall be effective for a period of Two (2)
years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the Department of Environ-
mental Quality, Water Quality Division, upon the presentation of credentials and

PERMIT TO CONSTRUCT

New

Permit No. 79-97RR

Renewal

Modified

7 K's R. V. Park
(Name of Facility)

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

Joe Schultz

W of Cody

Cody, WY 82414

to construct, install, or modify a _____

water distribution, sewage collection and sewage disposal

_____ facility according to the procedures and conditions of the

application No. 79-97RR. The facility is located in _____

Tract 74, T52N, R102W

_____ in the County of Park,

in the State of Wyoming. This permit shall be effective for a period of Two (2)

years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

M to S
10-16-79

PERMIT TO CONSTRUCT

New

Permit No. 79-97RR

Renewal

Modified

7 K's R. V. Park
(Name of Facility)

This permit hereby authorizes the applicant:

Russel Clifford
(Last) (First) (Middle)

P.O. Box 1337
(Street or P.O. Box)

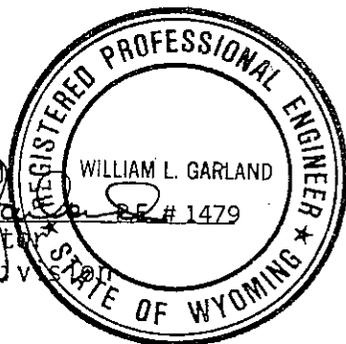
Cody, Wyoming 82414
(City) (County) (State)

to construct, install, or modify a water distribution, sewage collection and sewage disposal
facility located in Tract 74, T. 52 N., R. 102 W.
(Legal Description)

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

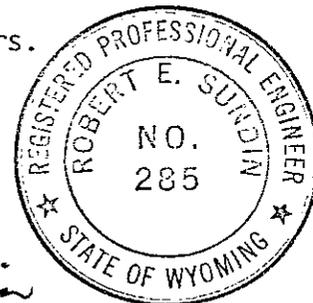
AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Robert E. Sundin
Director

Wyoming Dept. of Environmental Quality



October 2, 1979
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Seven K's R.V. Park

ENGINEER: R. L. Jacobson
P.O. Box 1539
Cody, WY 82414

OWNER: Clifford Russel
P.O. Box 1337
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 79-97R

REVIEWING ENGINEER: Rick Engelmann



DATE OF REVIEW: September 25, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

We appear to be agreed on everything except the location of the water riser in Lot 39. The risers and pipes must be at least twenty-five (25) feet from the leach bed.

300

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: SEVEN K'S R.V. PARK

OWNER CLIFFORD. L. RUSSELL

ARCHITECT OR ENGINEER: ROGER JACOBSON
ENGINEERING ASSOCIATES
CODY, WYO. 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 79-97

REVIEWING ENGINEER: RICK ENGELMANN R.E.

DATE OF REVIEW: MARCH 14, 1979

ACTION: NOT AUTHORIZED

COMMENTS: GENERAL

1. No application for permit to construct was sent.
2. Concerning the design of wastewater facilities @ 350 gpd per space - it appears that the spaces may be too small for regular trailer homes. If this can be justified (e.g., by showing that the adjacent property cannot be used for lengthening the outer spaces, etc.), it may be possible to back off on the design loading.

WATER:

1. The water service lines in spaces 24, 25, 38, and 39 are too close to the septic tank. The standard is for no closer than 25 feet.
2. The following are needed:
 - a. A letter from the city giving permission to tap into the system.
 - b. The operating pressures in Cody's water system in this area.
 - c. Location of the proposed tap-in to Cody's water district system.
 - d. Additional details on the proposed water risers.
 - e. Clarification of the installation depth of water lines - is this 5 feet throughout the system?
 - f. Water line installation specifications.

WASTEWATER:

1. The clean-outs on lines "B" and "C" should be manholes because the lines are greater than 150' long.

SEVEN K'S R.V. PARK

79-97

TO: ROGER JACOBSON
ENGINEERING ASSOCIATES
CODY, WYO. 82414

BY: RICK ENGELMANN

MARCH 14, 1979

NOT AUTHORIZED.

- 2 -

WASTEWATER - cont'd

2. The equation for establishing application rate,

$$\frac{5}{\sqrt{t}}$$

where t equals the percolation rate, is for standard drainfields (i.e. a field with trenches). For a leach bed the above application rate must be divided by 1.5. *This is from the Uniform Plumbing Code.*

3. The following are needed:
- specifications for installation of the sewer lines.
 - specifications for running of exfiltration tests.

RE/jky

PERMIT TO CONSTRUCT

mailed to
S. 4/4/79

- New
- Renewal
- Modified

Permit No. 79-98

GRANVILLE 2ND ADDITION, CITY OF SHERIDAN
(Name of Facility)

This permit hereby authorizes the applicant:

Excel Homes
(Last) (First) (Middle)

400 Coffeen Avenue
(Street or P.O. Box)

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

to construct, install, or modify a water distribution and sewage collection
facility located in Section 3, T.55N., R.84W.
(Legal Description)

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

cc: Gene Hackleman, VTN

AUTHORIZED BY:

William J. Ojala
Administrator
Water Quality Division

Robert E. Sunden
Director
Wyoming Dept. of Environmental Quality

April 3, 1979
Date of Issuance

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

NORMA

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

30 EAST GRINNELL

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6488

June 4, 1980

Mr. William Flaherty
City Engineer
City of Gillette
Fourth & Carey
Gillette, Wyoming 82716

Dear Mr. Flaherty:

It is our understanding that you do not wish to pursue the Sludge Spray Facilities project, Water Quality Division Reference Number 79-99, therefore, we are returning the enclosed plans and specifications for that reason.

Sincerely,

Lea Stoneburner

Lea Stoneburner
Administrative Assistant

ls

Enclosures

Norma,

Tom said the City of Gillette is definitely not going on with this project and that there is no need to send out a follow-up letter, but to just remove it from the files.

Lea
6/4/80

Original

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Gillette
Sludge Spray Facilities

ARCHITECT OR ENGINEER: William Flaherty, P.E., City Engineer
Fourth & Carey
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 79-99

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: April 9, 1979

ACTION: Not Authorized for Construction

COMMENTS:

1. The City of Gillette does not have an approved sludge disposal plan, and has never applied for approval of any such plan. This despite numerous requests by the Environmental Protection Agency and the Department of Environmental Quality. Attached is a listing of some of these requests.

The existing sludge disposal method has never been approved on a permanent basis. No legal action has ever been pursued on the matter because no problem has been brought to the attention of the regulatory agencies, and the landowner has made no protest. However, no fixed, permanent sludge disposal equipment for the site in question will be allowed until such time as the City of Gillette proposes a sludge disposal plan acceptable to both the Solid Waste Management Program, and Water Quality Division, Department of Environmental Quality.

2. Such a sludge disposal plan for this location must address, at a minimum, the following items:
 - a) What are approximate ranges of the following parameters in the applied sludge:
 - solids concentration (total, dissolved, and nonfilterable)
 - Fecal Coliform bacteria concentration
 - Biochemical Oxygen Demand
 - Chemical Oxygen Demand

City of Gillette
April 9, 1979

- Sodium Absorption Ratio
 - Total Kjeldahl Nitrogen concentration
 - Ammonia concentration
 - Nitrate concentration
 - Phosphorus concentration
 - Sulfate concentration
 - Chloride concentration
 - Concentrations of Lead, Zinc, Copper, Boron, Nickel and Cadmium
- b) What are the present and anticipated future sludge application rates, in inches per year?
- c) What are the characteristics of the soil in the sludge disposal area particularly soil type and permeability?
- d) What crops, if any, are raised on the land, and what are the present and anticipated future uses of the land, apart from sludge disposal?
- e) What are the anticipated effects of long term sludge application on the local soil?
- f) What are the anticipated effects on the local soil of long term application of heavy metals at the concentrations of such metals in Gillette municipal sludge?
- g) What is the present near-surface groundwater quality at the site?
- h) What are the uses, if any, of the groundwater in the vicinity of the site?
- i) What are the anticipated effects on groundwater quality and uses of long term sludge application at the site?
- j) What monitoring of the applied sludge, groundwater and soil is proposed?
- k) What measures are existing or proposed to control ponding and surface runoff from the site?
- l) Are there any provisions to cover or disc applied sludge?
- m) Have any alternate sludge disposal methods, such as lagooning or filtration and landfilling, been considered?

City of Gillette
April 9, 1979

3. In addition to the above, the following comments are made with respect to this specific application.
 - a) Current sludge disposal design practice is generally opposed to aerial spraying of sludge, particularly when the sludge is not to be sprayed in a downward direction. Very strong justification will be required before this system can be approved, and the justification must be more than economic. Particular attention should be paid to the possible production of disease causing aerosols and the operator's ability to properly control the system under adverse weather conditions.
 - b) If the supply pump will produce, and the system operate under, a head of 175 feet (76 psi), the pipe materials specified are marginal.
 - c) The possibility of explosive atmosphere buildup, and resulting need for Class 1, Group D, Division 1 wiring, should be addressed.
 - d) What is the purpose of the two-inch air line connection to the pump discharge?
 - e) The plans indicate that Phase 2 of the system will drain to an existing manhole. Will such drainage cause any intermixing of sludge and plant effluent?

Attachment to Review of Plans and Specifications

for Gillette Sludge Spray Facilities

1. The original discharge permit issued to the City of Gillette, August 17, 1974, required the submittal of a sludge disposal plan within 120 days.
2. Following a technical assistance project to the City of Gillette in February and March of 1975, EPA recommended a number of possible sludge disposal plans to the City of Gillette.
3. Following an Operation and Maintenance Inspection in February 1976, EPA identified the submission of the required sludge disposal report as "an item which should be addressed as soon as possible."
4. The City's discharge permit was renewed in July of 1976, again with a requirement of the submittal of a sludge disposal plan within 120 days.
5. In August of 1976, the Department of Environmental Quality, following an Operations and Maintenance Inspection, requested the City to submit the required sludge disposal plan.

PERMIT TO CONSTRUCT

7/20/79
8-7-79

New

Permit No. 79-100R

Renewal

Modified

WATER & SEWER EXTENSIONS

(Name of Facility)

This permit hereby authorizes the applicant:

TOWN OF PAVILLION

(Last)

(First)

(Middle)

(Street or P.O. Box)

PAVILLION

WY

82523

(City)

(County)

(State)

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

facility located in T. 2W, R. 3N

(Legal Description)

in the County of FREMONT, in the State of

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

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

AUTHORIZED BY:

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

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

July 20, 1979

Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
933 MAIN STREET,
LANDER, WYOMING 82520

PROJECT: WATER LINES, TOWN OF PAVILLION
OWNER: TOWN OF PAVILLION
PAVILLION, WYO. 82523, ATTN: CLIFFORD STICKNEY

ARCHITECT OR ENGINEER: ORREN BOWER
801 S. SECOND
LANDER, WYO. 82520

WATER QUALITY DIVISION REFERENCE NUMBER:
79-100

REVIEWING ENGINEER:
RICK ENGELMANN

DATE OF REVIEW:
MARCH 23, 1979

ACTION:
NOT AUTHORIZED

COMMENTS:

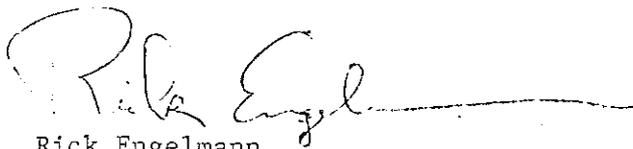
Dear Mayor Stickney:

The material presented is not acceptable. All applications for permits to construct or modify public water supplies and sewerage facilities in the State of Wyoming must be accompanied by 3 copies of complete engineering drawings, 3 copies of material/construction specifications, and a report on the basis of the system designs. This material must be drawn up and signed by a Wyoming Professional Engineer.

In doing a rough review of the material sent, it appears that some of the completed construction does not meet our standards. When the application is resubmitted, the material must cover both the built and the to be built portions of your project. It is possible that some of the built portion may have to be reconstructed.

Strictly speaking, the town is in violation of Article 3 of the State Environmental Quality Act, which states "...that no person, except when permit authorized, shall: construct, install, or modify any sewerage system, treatment works, disposal system or other facility capable of causing or contributing to pollution; or: construct, install, or modify any public water supply."

Sincerely,



Rick Engelmann
ENVIRONMENTAL ENGINEER

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



PROJECT: TOWN OF PAVILLION, WATER & SEWER EXTENSIONS

ENGINEER: Orren J. Bower, 801 South Second, Lander, Wyoming 82520

OWNER: Town of Pavillion, ATTENTION: Clifford Stickney
Pavillion, Wyoming 82523

WATER QUALITY DIVISION REFERENCE NUMBER: 79-100R

REVIEWING ENGINEER: Roy E. Prior, P.E. *Roy E. Prior*

DATE OF REVIEW: June 28, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

1. It is our understanding the Town is going to provide equipment, labor, materials, inspections and the Engineer just the plans and specifications. The specifications as written require the Engineer to make several decisions about installation, testing and material acceptance. Therefore, the specifications are not acceptable for this proposed project.
2. Several of the references using AWWA Standards are out-dated. Current standards should be used.
3. Infiltration, exfiltration and ovalation tests are required.
4. Typical drawings of the installation of fire hydrants, sewer taps, man-holes, water taps, etc., should be provided.
5. Profiles of the sewer lines should be provided.
6. Banded saddles are required for the water taps.
7. Provide specifications on the sewer service tap saddles--WYE branches should be used instead of saddles and they should be installed at the time the sewer line is layed.

PROJECT: Town of Pavillion, Water & Sewer Extensions, 79-100R

PAGE TWO

8. Leakage test for manholes should be specified and any manhole constructed with brick or block should be coated to prevent infiltration.
9. In one area of the spec's, Class B bedding is required, in another, Class B. and C. Please clarify what class of bedding is proposed. Note Class D is not allowed.
10. Two different leakage tests are specified; please clarify.
11. What is the total output of the wells?
12. Our standards require 20 PSI under all flow conditions and a normal working pressure of not less than 35 PSI. The proposed system will not meet the requirements. The existing system needs upgrading before it is expanded to serve other areas.
13. Due to the number of comments, this cannot be considered a final review.