



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 16, 1976

Olman Heath
Box 904
Douglas, Wyoming 82633

Dear Sir:

RE: 76-52 Olman Heath Trailer Park

We have reviewed your as-built plans and found them not meeting minimum state requirements in the following areas.

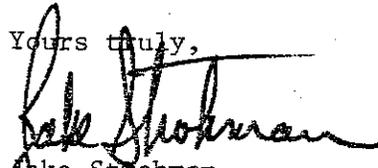
1. The water services shall terminate (4) four inches above ground surface.
2. 1800 gallon is minimum septic tank size allowable on each line. The additional 800 gallon tank can be put downstream in series with the existing tank.
3. 6 inch diameter is the minimum allowable for sewer lines.
4. Maximum distance where a cleanout can be installed in place of a manhole is 150 feet. A manhole is required on each line between septic tank and cleanout. This is mandatory as your four inch sewer line will be allowed in this case, but the size of the line will require more maintenance than larger sizes.
5. The septic tank shall be 10 feet minimum from a water line.
6. The leach field is undersized. Minimum of 1800 Square feet required. Percolation tests require an average of 6 holes saturated with water before tests begin.

All items have been evaluated by myself and Water Quality Division Administrator and it has been decided that items 2, 4, and 6 will require upgrading by June 1, 1976.

Olman Heath
March 16, 1976
Page 2

Should any questions arise, do not hesitate to contact me.

Yours truly,



Jake Strohman
Environmental Engineer
Water Quality Division

JS/js

cc: Ken Wolz, P.O. Box 322, Casper, Wyoming 82601

file with plan review 76-52

PLEASE REPLY TO DIVISION OFFICE



OLMAN HEATH COMPANY

OIL AND GAS EQUIPMENT • ROUSTABOUT SERVICE

HOME OFFICE: 4901 EAST MAIN • FARMINGTON, NEW MEXICO 87401 • (505) 325-4508

May 25, 1976

Department of Environmental Quality
Water Quality Division
Hathoway Bldg.
Cheyenne, Wyoming 82002

RE: 76-52 Olman Heath Trailer Park - Letter 3/16/76

Dear Mr. Strohman:

Please be advised that we have completed all the upgrading of our Douglas Facility as outlined in your letter of March 16, 1976.

Thank you for your assistance in completing this project in the most economical way.

Yours Very Truly,

J. E. Massey

JEM/mt

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Colonel Cody, Inc., Part of Olive Glenn Subdivision
Sewer and Water Extension, Cody, Wyoming

ARCHITECT OR ENGINEER: Lee Graham, P.E., P.O. Box 348, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-53

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: March 16, 1976

ACTION: Construction is not Authorized

COMMENTS:

1. Seal prefab manhole joints with bituminous base sealout.
2. "Y" branches shall be used in place of "T" saddles for service connections. The low sewage flow will allow a condition where solids will collect in the mainline at the service line outfall causing septic conditions. "Y"s have been found to work more efficient as the flow is directed downstream prior to entering the mainline. Also, saddle constructions have had problems meeting infiltration and exfiltration requirements. I realize that infiltration may not be a problem, but in the event of clogging, exfiltration could be a problem.
3. State maximum infiltration and exfiltration requirements.
4. What final alignment check is to be used on sewer lines and allowable deviation from grade? (lamping)

cc: Bill George

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Colonel Cody Inc., Sewer and Water Extension, Olive Glenn Subdivision
Cody, Wyoming

ARCHITECT OR ENGINEER: Lee Graham, P.E.
Box 348, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-53R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: March 23, 1976

ACTION: Construction Authorized

COMMENTS: Ensure adequate thrust blocking.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Burlington Northern, Wastewater Systems, Weston County, Osage, Wyoming

ARCHITECT OR ENGINEER: Hurlbut, Kersich and McCullough, 937 Grand Avenue,
Billings, Montana 59102

WATER QUALITY DIVISION REFERENCE NUMBER: 76-54

REVIEWING ENGINEER: Roy Prior, Paul Schwieger, P.E. 

DATE OF REVIEW: March 18, 1976

ACTION: Construction Authorized

COMMENTS:

As-built plans and specifications approved. No discharge from facility.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Second Friendly Hills Addition Rawlins, Water and Sewer Layout.

ARCHITECT OR ENGINEER: Robert Jack Smith and Associates, Inc.
P.O. Box 1104, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 76-55

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

DATE OF REVIEW: March 19, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Phillip Hughes, District Sanitarian, 138 Railroad, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Amax Coal Company, North Crusher NPDES Pond No. 2 and NPDES Pond No. 1
North Gillette

ARCHITECT OR ENGINEER: Jack Lautenschlager, Amax Coal

WATER QUALITY DIVISION REFERENCE NUMBER: 76-56

REVIEWING ENGINEER: Roy E. Prior, Paul C. Schwieger, P.E. *RSW* *PS*

DATE OF REVIEW: March 29, 1976

ACTION: Construction Authorized

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wondra Subdivision

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-57R

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

DATE OF REVIEW: September 10, 1976

ACTION: Not Authorized for Construction.

COMMENTS:

1. Scoria will not be allowed for backfill. Compacted trench excavation material smaller than $\frac{1}{4}$ " may be used.
2. Recently obtained survey data for the Ranchester Sewer System indicate that infiltration in the system is extremely high. For this reason, sewer taps are to branch wyes, installed and marked at the time the sewer line is laid.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wondra Subdivision, Sewer and Water, Ranchester, Wyoming

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-57

REVIEWING ENGINEER: Roy E. Prior, Paul C. Schwieger, P.E. *R.E.P.*

DATE OF REVIEW: March 29, 1976

ACTION: Not Authorized for Construction

COMMENTS:

1. Need a letter of acceptance from the Town of Ranchester.
2. 10 State Standards require a minimum of 6" water lines. Dead ends must have a fire hydrant or a flushing valve. The end of the pipe on a flushing valve should be extended to a point at least one foot above the ground and provided with a screened, downward-facing elbow.
3. Stop and waste valves on hydrants must be plugged if located in ground-water.
4. The water system must be valved to isolate portion of the system.
5. Send details on the surface water crossings.
6. Maximum distance between manholes is 400'.
7. Sewer taps should be provided. Show details of the sewer taps.
8. What is the seasonal high groundwater table?
9. SCORIA is not allowed as a backfill material.
10. Clarify which bedding will be used.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Jones Addition, City of Hanna, Hanna, Wyoming

ARCHITECT OR ENGINEER: Robert Jack Smith and Associates
Box 1104, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 76-58

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

Frank R. Harman

DATE OF REVIEW: March 29, 1976

ACTION: Authorized for Construction with comment

COMMENTS:

This addition should be ready to begin operation in plan with the
Town of Hanna's new sewage facilities.

cc: Phillip Hughes, District Sanitarian, 138 Railroad, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sweetwater County Fair Building Sewer System, Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Edward Fermelia, P.O. Box 1633, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-59

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

DATE OF REVIEW: April 19, 1976

ACTION: Not Authorized For Construction

COMMENTS:

- 1) Please provide more information on percolation rates for the soil in the leaching field area. We need written verification of the percolation rate from you or the raw percolation data. Once this is done we will authorize construction.
- 2) It would be acceptable to DEQ for you to dig out the entire leaching area and fill with 18" gravel and lay pipes as indicated. This makes for easier construction and makes for more effective leaching area. - Information only.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sweetwater County Fair Building, Sewer System, Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Edward Fermelia, P.O. Box 1633, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-59R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E., *DWA* *WLG*

DATE OF REVIEW: April 26, 1976

ACTION: Authorized for Construction

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

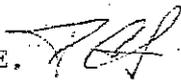
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Valcaro Road between Navarre Road and Ridgecrest Drive, Sewer and
Water Extension, Valley Hills No. 2 Addition

ARCHITECT OR ENGINEER: E.C. Lenhart, P.E.

Casper Board of Public Utilities
136 West 8th Street
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-60

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: March 24, 1976

ACTION: Construction Authorized

COMMENTS:

Inform Mr. Lenhart to sign or seal plans and insert a note stating
installation to meet specifications of Casper Board of Public Utilities.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water and Sewer lines for Block 4, 5 and 6, Sage Hills Addition
Rawlins, Wyoming

ARCHITECT OR ENGINEER: Michael J. Winterling P.E., City of Rawlins
P.O. Box 127, Rawlins, Wyoming 82935

WATER QUALITY DIVISION REFERENCE NUMBER: 76-61

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

DATE OF REVIEW: March 29, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Phillip Hughes, District Sanitarian, 138 Railroad, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Black Mountain Village, Wheatland, Wyoming

ARCHITECT OR ENGINEER: R. Thomas Standish, P.E., Taylor and Associates
8000 East Girard Avenue, Suite 601, Denver, Colorado 80231

WATER QUALITY DIVISION REFERENCE NUMBER: 76-62

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

DATE OF REVIEW: April 6, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Clarks Sewer Line Extension, Jackson, Wyoming

ARCHITECT OR ENGINEER: Donald V. Stocker, Town Engineer
Box 1687, Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-63

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

DATE OF REVIEW: April 20, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) Manhole details are needed.
- 2) Drop manhole details are needed.
- 3) Please submit pipe bedding and backfilling details.
- 4) Detailed drawings and/or specifications are needed concerning the sewer-water line crossing. A minimum distance of 18 inches is needed from the bottom of the water line to the top of the sewer line.
- 5) Profiles are needed for the branch line from Sta. 50+00 to Sta. 52+91-7 for an adequate review of sewer slopes and depths.

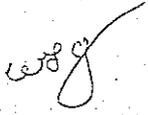
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Clark's Sewer Line Extension
Jackson, Wyoming
Teton County

ARCHITECT OR ENGINEER: Donald V. Stocker, Town Engineer
Box 1687, Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-63R

REVIEWING ENGINEER: ^{DWA} David W. Hill, William L. Garland, P.E. 

DATE OF REVIEW: May 14, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) Infiltration cannot exceed 200 gallons per inch of pipe diameter per mile per day.
- 2) The casing size is too small for an 8" PVC pipe. A 16" steel casing is needed.
- 3) More details are needed on the pulling of the pipe through the casing. The bells of the PVC pipe should not rest on the casing. Wooden skids (at least 2, preferably 4) are needed. These skids should extend for the length of the PVC pipe section except for the bell and spigot area. The skids should be high enough to allow for clearance between the bell and the casing.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Preliminary and Final Plans of the Sherman Hills Estate, Blocks 13 and 14, Lot 6 Block 10.

ARCHITECT OR ENGINEER: Submitted by Joseph L. Gerdon Associate-Planner, City of Laramie, Albany County Planning Office, Room 402
Albany County Courthouse, Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 76-64

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

DATE OF REVIEW: April 5, 1976

ACTION: Authorized for Construction with comments.

COMMENTS:

This Department should be advised, by submission of plans and specifications, at a time when water and sewer system are proposed to be installed.

cc: Phillip Hughes, District Sanitarian, 138 Railroad, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Livingston Trailer Court, Sheridan County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-65

REVIEWING ENGINEER: Tom Mueller, Paul Schwieger, P.E. 

DATE OF REVIEW: April 7, 1976

ACTION: Construction not Authorized. See Comments.

COMMENTS:

1. The pitless well adapter must carry the National Sanitary Foundation seal or details shall be submitted to this office.
2. There shall be a check valve in the water line between the well and the storage tank.
3. Details of the chlorinator shall be submitted.
4. An access entrance to the water storage tank shall be provided.
5. Underground steel tanks are not recommended for water storage. If the proposed tank is retained, the following shall be required:
 - a) details of the cathodic protection system
 - b) groundwater level
 - c) gravel bedding around the tank to assure drainage of any leakage.
6. The minimum acceptable pipe size for water service in a mobile home court is 2 inches.
7. Maximum distance from a manhole to a cleanout shall be 150 ft.
Maximum distance between manholes shall be 400 ft.
8. Specifications for water - sewer crossings and details for the sewage lift station shall be required.
9. Outside banks of lagoons shall be at a 3:1 slope and all three ponds shall be lined with impervious material.
10. Are lagoons 2 and 3 to be operated in series or parallel? A better method of flow and level control shall be provided for the lagoons.
11. The proposed locations of the lagoons is unacceptable.

PROJECT: Livingston Trailer Court, Sheridan County

REFERENCE NUMBER: 76-65

- a) Either the lagoons shall be constructed away from Little Goose Creek, or
 - b) the lagoons shall be lined with suitable riprap around all of the outer banks, with expected and historical flood data for Little Goose Creek to be submitted
12. If the wastewater is to be used for land application (irrigation), the following information and supporting calculations must be submitted:
- a) the exact location and area of application
 - b) geology, topology and soil characteristics of the land to be used.
 - c) climatological data, including annual rainfall and evaporation rate.
 - d) nature and use of the crop to be irrigated
 - e) depth and quality of local groundwater and expected effects of sewage effluent application
 - f) composition and flowrate of effluent to be applied
 - g) method of application (i.e. spraying, ridge and furrow, or flooding)
 - h) details of the irrigation equipment
13. If land application is to be used, there must be some positive means of containing the runoff. The runoff shall not enter Little Goose Creek or any other natural surface water.

Note: Only one copy of the Application for a Permit to Construct need be submitted.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Livingston Trailer Court

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-65R

REVIEWING ENGINEER: *Tom Mueller*
Tom Mueller, Arthur E. Williamson, P.E.

DATE OF REVIEW: May 4, 1976

ACTION: Not Authorized for Construction

COMMENTS:

While this review is not intended to be incomplete, a final review of of the project cannot be made until all the necessary information has been submitted to the Water Quality Division.

1. The sewer line along lots 35-38 shall have a manhole at its termination.
2. Elevations with respect to ground for the water plant, including vent, access, high and low water levels, suction and pump elevations, shall be submitted in accordance with Ten State Standards, Part 7. Pumps shall be primed if necessary.
3. Locks shall be provided at the access manhole, as well as pump and well houses.
4. Overflow and drain lines from the water storage tank shall be provided.
5. Information and calculations shall be submitted to justify the acreage used in the lagoons for total containment.
6. In light of the design of this project, water lines shall be looped, and blow-off valves are to be eliminated. Ten State Standards are very definite on this subject, and in this case it is difficult to justify not looping the lines.
7. Details of the water line crossing over Little Goose Creek shall be submitted.
8. Bypasses of the storage tank and pressure tank shall be provided, as well as a means of pressurizing the pressure tank.

PROJECT: Livingston Trailer Court

REFERENCE NUMBER: 76-65R

9. Information on the ability of the proposed water system to meet peak and total daily demands shall be submitted. This should include pump sizes, well production and other necessary information.
10. Information on the capacity of the sewage lift station shall be submitted.
11. More specific information is needed on flooding of Little Goose Creek. What is the hundred year flood referred to; i.e. how high will water levels actually be, and when is this flood control work to be completed.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: American Park Subdivision
Powell, Wyoming

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-66

REVIEWING ENGINEER: Jake Strohmman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 8, 1976

ACTION: Construction Authorized

COMMENTS:

1. Designing engineer is required to sign or seal plans and specifications.
2. Seal prefab manholes with bituminous base seal.
3. Plans and specifications are required on the water distribution system prior to construction.

cc: Dick Myrick, City Engineer, Municipal Building, Powell, Wyoming 82435

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Big Horn Canyon Visitor Center, Sewer and Water Extensions
Lovell, Wyoming

ARCHITECT OR ENGINEER: Christian, Spring, Sielbach and Associates
2020 Grand Avenue, Billings, Montana 59100

WATER QUALITY DIVISION REFERENCE NUMBER: 76-67

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 8, 1976

ACTION: Construction Authorized (See Comments)

COMMENTS:

1. Recommend sealing prefab manhole joints with bituminous base sealant.
2. Although standby power is not required at this time for this lift station, additional growth in this area will require standby power. Since the lift station by the lagoons does require standby with none available, the alternative of providing standby power for both lift stations from one source should be evaluated at this time.

cc: Robert Snedecker, City Manager, Lovell, Wyoming 82431



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 19, 1976

Mr. John A. Proffit
P.O. Box 746
Evanston, Wyoming 82930

Dear Mr. Proffit:

RE: Mark III Mobile Home Park

After checking your submitted plans and specifications, I find them incomplete. There are several areas that are covered inadequately.

Reference to Water Quality Rules and Regulations Chapter III, 1976 is not sufficient for details on material and workmanship specifications. The specifications and details must be submitted for all materials and workmanship. The following items need details (drawings and/or specifications) which must be submitted to DEQ for our review. This list of items does not necessarily constitute the total list of items that require attention.

WELLS

- 1) Specify the type of well construction (i.e. - drilled, jetted, bored, etc.)
- 2) Specify the constructed details of the steel casing pipe (i.e. - external - internal diameter, thickness, weight per foot)
- 3) Specify the height of casing above the ground.
- 4) Specify the grouting details (i.e. - thickness around casing, method of preparation, method of placement)
- 5) Specify the type and strength of the discharge pipe from the submersible pump to the pressure tanks. The submersible pump will be supported by the discharge pipe, so it needs to be of sufficient size and strength to prohibit breakage.
- 6) A check valve is advisable somewhere in the piping system - Recommendation only.

- 7) Supply details about the pitless adapter used for the submersible pump installation.
- 8) Supply details about the well screens and packers.
- 9) The watertight sanitary seal should have a vent pipe and an access plug for determining well water depth.
- 10) If possible provide information from nearby wells which demonstrate that the wells should be able to provide sufficient yield. After construction, a yield and drawdown test should also be performed on each of the two wells for the Mark III Mobile Home Park. This will determine if two wells will be sufficient.
- 11) A chemical and bacteriological test must be run on each well and the results submitted to DEQ. This shall be done as soon as possible after construction of the well.
- 12) Specify details about the method of the disinfection of the wells prior to use.
- 13) Supply distance from wells to nearest sewer line. It is impossible to determine this from the plan view. The wells have to be a minimum of 50 feet from the nearest sewer line.

PRESSURE TANK BUILDING

- 14) More detailed drawings and specifications are needed of the pressure tank system (i.e. - type, drains, control equipment, valves, means of adding or releasing air, etc.)
- 15) Why not use one - 750 gallon pressure tank rather than 5, 125 gallon tanks. It appears to me that 5 tanks would involve much more trouble and maintenance. - Recommendation only.
- 16) Specify housing details. The tanks must not be allowed to freeze. The floor of the pressure tank building should be at least 12 inches above the ground surface, standing water, or runoff water, whichever is highest.

WATER LINE SYSTEM

- 17) Supply information on the depth of the water lines. Profile drawings of the system would be best for us to review.
- 18) The PVC water line material shall be NSF approved. Specify in specifications.
- 19) Specify the pressure rating of the PVC pipe.

- 20) Provide details on the location, construction, and size of thrust blocks for the water line system.
- 21) Provide details on freeze-proof yard hydrant.
- 22) Provide details concerning sewer-water line crossovers.
- 23) More detailed drawings and specifications are needed on the method of bedding and backfilling of the water line.
- 24) Provide specifications on the method of testing the water line to a minimum of $1\frac{1}{2}$ times the normal operating pressure. This must be done prior to burial.
- 25) Specify the method of the disinfection of the water lines. Disinfection shall be according to AWWA C601-68 "Disinfecting Water Mains".

SEWER LINES

- 26) More detailed drawings and specifications are needed on the method of bedding and backfilling of the sewer lines.
- 27) Provide details of the type of manhole used and all pertinent construction in formation.
- 28) Sewer lines must be laid at a sufficient depth to prevent freezing and prevent pipe crushing. $2\frac{1}{2}$ ft. to 4 ft. depth will not suffice.
- 29) Infiltration into the sewer lines cannot exceed 200 gallons per inch of pipe diameter per mile per day.
- 30) The type of leakage test shall be specified in the submittals.

These areas should be covered before your plans and specifications will be accepted for review.

If I can be of any further help, please let me know.

Sincerely,

David W. Hill

David W. Hill
Environmental Engineer
Water Quality Division

DWH/js

cc: Phillip Hughes, District Sanitarian, Green River
Glenn Payne, Uinta - Lincoln County Planner, Kemmerer

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Parkview Estates - off Dell Range Boulevard, Cheyenne, Wyoming

ARCHITECT OR ENGINEER: Phillip I. Richardson, P.E., Submitted by George Nelson
Imperial Homes Inc., 813 East 16th Street, Cheyenne,
Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-69

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

DATE OF REVIEW: April 8, 1976

ACTION: See Comments

COMMENTS:

Preliminary approval given. Not enough details on water and sewer service to review for final approval. Engineer to provide material and size of service lines, both water and sewer, and sewer profiles to show grades and manholes, etc.

cc: Don Pack, Director Environmental Surveillance, City County Health Unit
315 West 20th Cheyenne, Wyoming 82001

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Husky Station Riverside, Wyoming, Owner, Mrs. Mary Wiant

ARCHITECT OR ENGINEER: Robert Jack Smith and Associates
Box 1104, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 76-70

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

DATE OF REVIEW: April 14, 1976

ACTION: Authorized - See Comment.

COMMENTS:

Both the water well and the septic tank system are approved as existing with no history of problems.

cc: Phillip Hughes, District Sanitarian, Box 1153, Green River, Wyoming 82935
Mrs. Mary Wiant, Encampment, Wyoming 82325

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mark III, Mobile Home Park
Fort Bridger, Wyoming, Uinta County

ARCHITECT OR ENGINEER: John A. Proffitt, Uinta Engineering and Surveying
808 Main Street, Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 76-71R

REVIEWING ENGINEER: ^{DWH} David W. Hill, William L. Garland, P.E. *WJG*

DATE OF REVIEW: May 14, 1976

ACTION: Authorized for Construction

COMMENTS: Please conform to the following:

- 1) The $\frac{1}{4}$ " vent in the well shall be covered with wire mesh screen.
- 2) DEQ will not analyze water samples from the newly completed wells. Chemical and bacteriological tests must be analyzed by another laboratory and the results submitted to DEQ.
- 3) The water supply for the Mark III Mobile Home Park must be bacteriologically analyzed each month. Mr. Mark Hopkinson should contact Mr. Robert Pinther of this office for details in setting up a bacteriological sampling program.
- 4) In the future, profile drawings of the sewer lines will be required. This makes for much easier and faster review by us.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Telescope Facilities at Jelm Mountain, Wyoming

ARCHITECT OR ENGINEER: J.T. Banner and Associates, P.O. Box 550
Laramie, Wyoming 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 76-72

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

DATE OF REVIEW: April 13, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Phillip Hughes, Box 1153, Green River, Wyoming 82935



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 13, 1976

Husky Oil Company
P.O. Box 380
Cody, Wyoming 82414

Attention: Mr. W.T. War, Refinery Manager

Dear Mr. War: RE: 76-73

The overall proposal for disposal of the refinery wastewater at Cody is acceptable to this Department. However, the plans and design are not detailed enough to issue a construction permit at this time.

Although, the water analysis of 4-5-76 from N.W. Analytical Lab from Powell showed the water to be suitable for irrigation, the pollution contaminant levels of phenols, oil and grease, C.O.D., and trace metals were not included in this analysis. These particular items would be heavily weighed in evaluating a land application system. The wastewater should be analyzed for the above parameters.

Plans and specifications would also be required for the springler system. The design should have in it's contents, a soil survey, irrigation application rates, a closed recovery system or a discharge permit, and other items which are included in the enclosed EPA - 430/9-75-001 technical bulletin. A closed recovery system would not require a discharge permit.

A soil survey should be accomplished in the area of the ponds along with percolation rates to determine if the ponds will require sealing. Seeps from the ponds would be considered a discharge. If seeps surface on another land owners property, Husky could be liable for damages.

Plans and/or specifications will be required for pond dike construction, force main, lift station, pond sealing if required, pressure testing, all materials used, etc., before a construction permit will be issued.

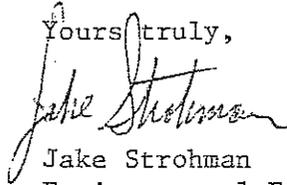
Husky Oil Company

Page 2

April 13, 1976

Should any questions arise, do not hesitate to contact me.

Yours truly,

A handwritten signature in cursive script that reads "Jake Strohman". The signature is written in dark ink and is positioned above the typed name.

Jake Strohman
Environmental Engineer
Water Quality Division

JS/js

Enclosure

*Department of Environmental Quality**Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 5, 1976

Husky Oil Company
P.O. Box 380
Cody, Wyoming 82414

ATTENTION: Mr. W. T. War, Refinery Manager

Dear Mr. War:

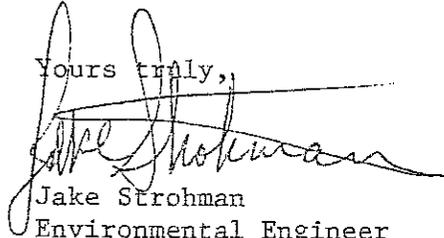
RE: 76-73 and 76-73R

Pursuant to our telephone conversation on Friday, April 30, A CONSTRUCTION AUTHORIZATION IS HEREBY GRANTED FOR THE REFINERY WASTEWATER PONDS, LIFT STATION AND FORCE MAIN WITH THE MANDATORY COMPLIANCE ITEMS LISTED BELOW:

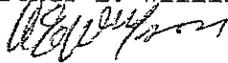
1. Seal the ponds to prevent percolation. Send specifications for this work prior to construction. Alternative: Furnish soil surveys and percolation rates below the bottom elevation of the ponds if ponds are not to be sealed. Provide ground-water monitoring wells at various locations around the ponds. Send chemical analysis and pollution contaminant levels of phenols, oil and grease, C.O.D. and trace metals of all monitoring wells.
2. The lift station shall have emergency standby power or provide temporary storage area. Send plans and specifications for approval prior to construction.
3. Pipe to be pressure tested to $1\frac{1}{2}$ times operating pressure prior to burial.
4. Ensure sufficient trench backfill specifications to prevent trench settling after construction.

Husky Oil Company
May 5, 1976
Page 2

The above items are to be approved by this department prior to construction.

Yours truly,

Jake Strohman
Environmental Engineer
Water Quality Division

JS/js

cc: Arthur E. Williamson, Administrator, Water Quality Division


HUSKY OIL

Company

P. O. BOX 380
CODY, WYOMING 82414

TELEPHONE 307-587-4711

May 6, 1976



Mr. Jake Strohman
Environmental Engineer
Water Quality Division
Department of Environmental Quality
State of Wyoming
Cheyenne, WY 82002

Dear Mr. Strohman:

I am in receipt of your construction authorization for our waste water ponds, and appreciate your quick action in this regard. As I mentioned previously, we are faced with a very tight deadline and severe penalties upon failure to meet this deadline.

As I pointed out to you during our telephone conversation of Friday, April 30, we plan to use good engineering practices in construction of the ponds and pipelines. Our plans covering the ponds are in your possession as well as the specifications for pond and pipeline construction. As I indicated, manufacturers specifications will be followed in the pipeline installation. The pumping system will be spared with two pumps and adequate storage area will be provided in the event of a partial power failure. As you know, our effluent water stream is eliminated during a total power failure, which is most likely in this area. The piping system will be pressure tested to $1\frac{1}{2}$ x operating pressure.

With receipt of this permit, we plan to start construction immediately. We have purchased the necessary water for pond construction, selected a contractor, and expect to begin work within three to four weeks.

Again, I would like to thank you for your approval.

Sincerely,

A handwritten signature in cursive script that reads "W. T. War".

W. T. War
Refinery Manager

WTW:sdb



cc: John Wagner
J. K. Speer
J. V. Sheffield

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 18, 1976

CERTIFIED

Husky Oil Company
P.O. Box 380
Cody, Wyoming 82414

Attention: Mr. W. T. War, Refinery Manager

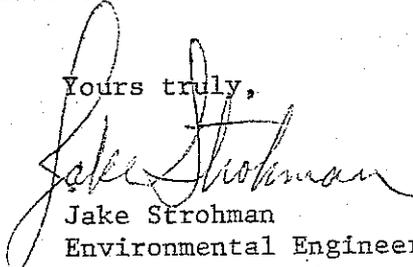
Dear Mr. War:

RE: 76-73 and 76-73R

By notice of this letter, your construction authorization for the wastewater ponds is hereby revoked.

Item 1. of the May 5, 1976 construction authorization has not been complied with.

Yours truly,


Jake Strohman
Environmental Engineer
Water Quality Division

JS/js

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 76-74

Champion Ventures Septic Systems
(Name of Facility)

This permit hereby authorizes the applicant:

Champion Ventures c/o Brady Consultants
(Last) (First) (Middle)
118 South Gillette Avenue
(Street or P.O. Box)
Gillette Campbell Wyoming
(City) (County) (State)

to construct, install, or modify a Septic Tank System
facility located in Sec. 9 T50N R72W
(Legal Description)

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

Authorized by:

RE Williamson
107

Director

Wyoming Dept. of Environmental Quality

April 16, 1976
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Lance Creek Sewage Leach Field

ARCHITECT OR ENGINEER: Continental Pipe Line Company, 1822 Warren Avenue,
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 76-75

REVIEWING ENGINEER: Tom Mueller, Paul Schwieger, P.E. *TS* *PS*

DATE OF REVIEW: April 12, 1976

ACTION: Construction not Authorized. See Comments.

COMMENTS:

1. The plans must bear the signature and/or seal of a Professional Engineer, licensed to practice in the State of Wyoming.
2. Each leach trench shall have a layer of untreated building paper between the gravel and backfill, to prevent the effluent from surfacing.
3. The leach field shall not be located within 50 feet of the Lance Creek stream bed.
4. The ends of all leach lines shall be connected.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 76-75R

Lance Creek Septic System
(Name of Facility)

This permit hereby authorizes the applicant:

John A. Lambert for

Continental Pipeline Company
(Last) (First) (Middle)

P.O. Box 34
(Street or P.O. Box)

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

to construct, install, or modify a Sewage Disposal - Leach Field
facility located in Lance Creek
(Legal Description)

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

Authorized by:

William P. Ireland
Director
Wyoming Dept. of Environmental Quality

November 8, 1976
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Whitlock Subdivision, Streets, Curb and Gutter, Sidewalks and Sewer
Powell, Wyoming

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-76

REVIEWING ENGINEER: Jake Strohmman, Paul Schwieger, P.E.

DATE OF REVIEW: April 13, 1976

ACTION: Construction Authorized

COMMENTS:

1. Designing engineer is required to sign or seal plans and specifications.
2. Seal prefab manholes with bituminous base seal.
3. Plans and specifications are required on the water distribution system prior to construction.
4. Variance is granted to allow .32% grade on 8 inch sewer line with the use of the specified PVC.

cc: Dick Myrick, City Engineer, Municipal Building, Powell, Wyoming 82435

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Valley Hills No. 2, Sewer and Water Extension, West 39th and Placid Drive
Casper, Wyoming

ARCHITECT OR ENGINEER: E.C. Lenhart, P.E., Casper Board of Public Utilities
136 West 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-77

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 14, 1976

ACTION: Construction Authorized

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Spriggs Addition Third Filing, Water System, Lander, Wyoming, Fremont County

ARCHITECT OR ENGINEER: John M. Childers, Nelson, Haley, Patterson, and Quirk, Inc.
625 East Madison, Suite 5, P.O. Box 1520, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 76-78

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *DWH* *wlg*

DATE OF REVIEW: April 28, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) All plans and specifications submitted shall carry the seal or signature of a registered engineer in the State of Wyoming.
- 2) Show details on thrust blocking.
- 3) Disinfection procedures shall include bacteriological testing. Bacteriological tests shall be performed before placing the line into service.
- 4) Detailed drawings of fire hydrant with gate valve are needed (i.e. - thrust blocks, drainage pit size, etc.)
- 5) Specify the operating pressure of the system.
- 6) Provide DEQ with information explaining how negative pressure will be prevented in the booster pumps suction.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Spriggs Addition, Third Filing, Water System, Lander, Wyoming
Fremont County

ARCHITECT OR ENGINEER: John M. Childers, Nelson, Haley, Pattersen, and Quirk, Inc.
625 East Madison, Suite 5, P.O. Box 1520, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 76-78R

REVIEWING ENGINEER: ^{DWH} David W. Hill, William L. Garland, P.E. *wlg*

DATE OF REVIEW: May 21, 1976

ACTION: Authorized for Construction

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Union Pacific Railroad, Bitter Creek, Wyoming
Bitter Creek Station Sanitary Waste Lagoon, Sweetwater County

ARCHITECT OR ENGINEER: J.R. Conner, P.E., R.M. Brown, Chief Engineer, 1416 Dodge Street
Omaha, Nebraska 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 76-79

REVIEWING ENGINEER: ^{DWH} David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: April 29, 1976

ACTION: Not Authorized for Construction

COMMENTS:

We have reservations concerning the size of the proposed lagoon. For that reason we need the following design information submitted to our division:

1. Specify the number of people who will be served by this lagoon.
2. Please specify the design flow.
3. Specify the design evaporation and percolation rate.

In addition the following items need correction:

4. The minimum top width of the berm should be 5 to 6 feet.
5. Riprap or a concrete apron should be provided under the influent pipe.
6. Warning signs are needed indicating the nature of the facility and to advise against trespassing.
7. A manhole should be located at the end of the outfall line as close to the lagoon as possible. Please show location and details on Section A-A. This manhole's invert should be at least 6 inches above the maximum operation depth of the lagoon.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Union Pacific Railroad, Bitter Creek, Wyoming
Bitter Creek Station Sanitary Waste Lagoon, Sweetwater County

ARCHITECT OR ENGINEER: J.R. Conner, P.E., R.M. Brown Chief Engineer
1416 Dodge Street, Omaha, Nebraska 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 76-79R

REVIEWING ENGINEER: ^{DWA} David W. Hill, William L. Garland, P.E. *wsg*

DATE OF REVIEW: May 14, 1976

ACTION: Authorized for Construction

COMMENTS:

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 76-80

Town of Buffalo Water and Sewer Improvements
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Buffalo
(Last) (First) (Middle)
P.O. Box 430
(Street or P.O. Box)
Buffalo Johnson Wyoming
(City) (County) (State)

to construct, install, or modify a Municipal Water and Sewer System
facility located in T51N, R82W
(Legal Description)

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

Authorized by:

A. Williamson
Director
Wyoming Dept. of Environmental Quality

May 27, 1976
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Proposed Cabin (Water and Sewer) for Dick Herren at Guernsey, Wyoming

ARCHITECT OR ENGINEER: None indicated. Submitted by Dick Herren, P.O. Box 187
Harrison, Nebraska 69340

WATER QUALITY DIVISION REFERENCE NUMBER: 76-81

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



DATE OF REVIEW: April 14, 1976

ACTION: Not Authorized; pending receipt of additional information.

COMMENTS:

- 1) The plans as submitted lacks details on drawings of septic tank and drain field and well.

Side view drawings are required on all three items showing dimensions and all details.
- 2) How many bedrooms are there in the cabin?
- 3) Submit percolation test results on which the drain field has been dimensioned.
- 4) Tie ends of drain field lines for better functioning.

cc: Malcolm Crawford, District Sanitarian, Gillette, Wyoming 82716

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Settling Ponds and dams for Vanguard #2 and Vanguard #3 Mines,
Hanna, Wyoming

ARCHITECT OR ENGINEER: Plans submitted by Arnold M. Hannum, Chief Engineer
Energy Development Company, P.O. Box 36, Hanna, Wyoming 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 76-82

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

Frank R. Harman

DATE OF REVIEW: April 15, 1976

ACTION: Authorized for Construction.

COMMENTS:

cc: John Wagner, Permits Section, Water Quality Division, Department of Environmental
Quality
Phillip Hughes, District Sanitarian, Box 1153, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Breck Street Sewer and Water Extension
Sage Knolls Subdivision, Casper, Wyoming

ARCHITECT OR ENGINEER: Franklin D. Blake P.E., James H. Steward and Associates
Fort Collins, Colorado

WATER QUALITY DIVISION REFERENCE NUMBER: 76-83

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 14, 1976

ACTION: Construction Authorized

COMMENTS:

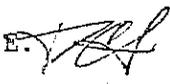
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Stampede Grounds Sewage Disposal, Cody

ARCHITECT OR ENGINEER: Lee Graham, P.E., P.O. Box 348, Cody, Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 76-84

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 19, 1976

ACTION: Construction Authorized (See Comments)

COMMENTS:

- 1.) Insure adequate concrete specifications for septic tanks.
- 2.) Check septic tank for water tightness prior to burial.
- 3.) Mound leach field area to minimize the possibility of standing and runoff water percolating through leach field.
- 4.) State law requires seal or signature of the designing engineer on plans.

REVIEW OF PLANS AND SPECIFICATIONS

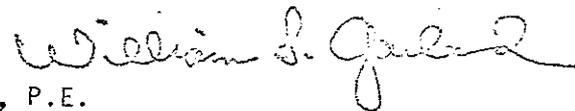
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: TE Ranch, Sewage Disposal System, Cody, WY

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-85

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.



DATE OF REVIEW: February 17, 1977

Supervisor - Water Quality Div.

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS: A bentonite seal extending from one foot below ground level to the top of the disposal bed should be installed to prevent effluent from popping out the side instead of downward percolation.



Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 17, 1977

Engineering Associates
P.O. Box 1539
Cody, Wyoming 82414

Dear Sirs:

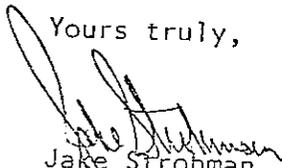
RE: TE Ranch, 76-85

We are sorry to report that there has been an accident in our office involving the plans, that you submitted to us. We have a basket which holds all of the plans that are in the process of being issued a permit. Unfortunately, one of the janitors on the evening shift emptied it, thinking it was a waste basket.

We are sending you the Permit to Construct for the referenced facility, since the plans have met specifications, and request an additional set of plans for our files.

We apologize for the inconvenience.

Yours truly,


Jake Strohmman
Environmental Engineer
Water Quality Division

JS:JO/jo

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 76-85

TE Ranch
(Name of Facility)

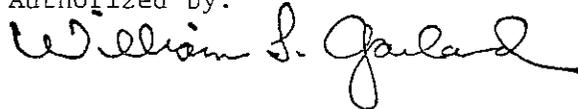
This permit hereby authorizes the applicant:

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

to construct, install, or modify a Sewage Disposal System
facility located in 30 Miles Southwest of Cody
(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:



~~Supervisor - Water Quality Div.~~
Director

Wyoming Dept. of Environmental Quality

February 17, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Sheridan Care Center

ARCHITECT OR ENGINEER: Reese/Rova Associates, 5350 West 78th Street, Minneapolis,
Minn. 55435

WATER QUALITY DIVISION REFERENCE NUMBER: 76-86

REVIEWING ENGINEER: Terry R. Book, William L. Garland, P.E. *TRB* *Wsg*

DATE OF REVIEW: October 4, 1976

ACTION: Not Authorized for Construction. See Comments.

COMMENTS: Due to the extended period of time which has elapsed since the original telephone conversation advising you of certain problems concerning this project we felt it necessary to restate the problems and request that you advise us on their current status. The design of the sewer and water systems has to be in accordance with "Recommended Standards for Water Works and Recommended Standards for Sewage Works" developed by the Great Lakes-Upper Mississippi River Board of State Sanitary Engineers. Also, the plans have to be signed by a professional engineer, registered in Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Tumbleweed Drive-In Restaurant
Waste Treatment Facility, Jackson, Wyoming, Teton County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-87

REVIEWING ENGINEER: David ^{DWH} W. Hill, William L. Garland, P.E. *wlg*

DATE OF REVIEW: April 30, 1976

ACTION: Not Authorized for Construction

COMMENTS:

Because this facility is not classified as a small wastewater facility, complete plans and specifications will be required. Specifically the following items should be complied with.

1. All plans and specifications require the seal or signature of of a Wyoming registered engineer.
2. A profile of the sewer lines from the building to the leaching field is needed for an adequate review. A cleanout will be required at all alignment changes.
3. More details of the septic tanks are needed. (i.e. - baffle depth, cover over septic tanks, number of manholes, inlet and outlet elevations etc.)

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Tumbleweed Drive-In Restaurant
Waste Treatment Facility, Jackson, Wyoming, Teton County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 76-87R

REVIEWING ENGINEER: ^{DWH} David W. Hill, William L. Garland, P.E. *WSG*

DATE OF REVIEW: May 13, 1976

ACTION: Authorized for Construction

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Coleman Lane Park, Natrona County, Wyoming
Owner: Homer Coleman, 345 Oregon Trail, Casper, Wyoming 82601

ARCHITECT OR ENGINEER: Ardys G. Entsminger, P.E., Robinson Engineering
2950 South Fox Street, Englewood, Colorado 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 76-88

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 29, 1976

ACTION: Construction not authorized

COMMENTS:

1. A letter of acceptance from Brooks Water and Sewer District is required.
2. Water supply lines utilizing PVC must meet AWWA C-900 specifications. What is the "DR" ratio of the proposed pipe? What water pressure is being furnished to the park?
3. In several specifications, Wyoming Department of Health and Social Service Standards were mentioned. This office does not know of any such standards which are in effect for Public Water and Sewage Systems. You probably meant Wyoming Water Quality Rules and Regulations, Chapter III, 1976.
4. On sheet 3, under water item 2.f., no local health authorities have jurisdiction in Wyoming on disinfection procedures for Public Water Supply Construction.
5. What minimum size thrust blocks are to be utilized?
6. Specify sewer and water line crossover specifications with regard to minimum horizontal and vertical specifications.
7. Detail B on sheet 3. Stop and Waste Valves are not allowed. Blowoff valve shall drain to daylight and valve outlet shall be 4 inches above ground surface, standing water or runoff water, whichever is higher.
8. Specify water riser to terminate 4 inches above ground surface, standing water or runoff water, whichever is higher.
9. What are bedding and compaction specifications for water lines?

PROJECT: Coleman Lane Park, Natrona County, Wyoming

REFERENCE NUMBER: 76-88

10. Show a typical lot layout with locations of all utilities.
11. Four inch sewer lines can be used to connect one service to the collection main. Lots 11, 12, 13, 14, 15 and 16 need redesign or show 6" line with manhole at the change in direction.

JS/js
Enclosure

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Coleman Lane Park, Water and Sewer and Storm Sewer, Natrona County

ARCHITECT OR ENGINEER: Ardys G. Entsminger, P.E., Robinson Engineering
2950 South Fox Street, Englewood, Colorado 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 76-88R

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E. *wlg*

DATE OF REVIEW: June 2, 1976

ACTION: Construction Authorized

COMMENTS:

Have owner fill out and return application form.

cc: Nix Anderson

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: K.O.A. Mobile Home Addition, Worland, Wyoming

ARCHITECT OR ENGINEER: Roberts and Company, Plumbing and Heating, P.O. Box 122
Worland, Wyoming 82401, NO SEAL OR SIGNATURE OF THE DESIGNING
ENGINEER WHICH IS REQUIRED BY STATE LAW,
WATER QUALITY DIVISION REFERENCE NUMBER: 76-89

REVIEWING ENGINEER: Jake Stroman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 29, 1976

ACTION: Construction is not Authorized

COMMENTS:

The following items are incomplete:

1. A letter from the Worland Board of Public Utilities stating acceptance for furnishing water and sewage to the mobile home park.
2. Plans and specifications require the seal or signature of the designing engineer.
3. Profile of sewer system.
4. Water - sewer crossover specifications.
5. Manhole size and specifications.
6. What is the water pressure furnished to the park? What is the pressure rating for the water line (See AWWA C-900-75; 100psi - SDR 25; 150psi - SDR 18, 200psi - SDR 14)?
7. Water riser is to terminate 4 inches above groundwater or standing water. Send details and specifications for yard hydrants. Send information on water riser.
8. Water line is to be pressure tested to $1\frac{1}{2}$ times operating pressure prior to burial.

cc: Worland Board of Public Utilities, Worland, Wyoming 82401

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Valley Hills #2, Sewer and Water Extensions, Casper, Wyoming
Ridgecrest between 39th Street and Mariposa Blvd., Mariposa
Blvd. between Ridgecrest and Summit; Ridgecrest Ctr., Summit Place
ARCHITECT OR ENGINEER: E.C. Lenhart, P.E., Casper Board of Public Utilities
136 West 8th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-90

REVIEWING ENGINEER: Jake Strohmman, Paul Schwieger, P.E. 

DATE OF REVIEW: April 29, 1976

ACTION: Construction Authorized

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Pioneer Park, Development Plan, Green River, Wyoming

ARCHITECT OR ENGINEER: Gardner-Sweenhart, Inc., 7833 Lomas Blvd. Northeast
Suite 23, Albuquerque, New Mexico 87110

WATER QUALITY DIVISION REFERENCE NUMBER: 76-91

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

DATE OF REVIEW: May 4, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) All plans and specifications submitted shall carry the seal or signature of the designing engineer who shall be a registered engineer in the State of Wyoming.
- 2) Population projections and design water and sewage flows should be submitted.
In addition more details (drawings and/or specifications) are needed on the following items for an adequate review.
WATER LINES
- 3) Details of the fire hydrants.
- 4) Details of water - sewer line crossovers.
- 5) Specifications on pressure testing of the water lines and allowable leakage of the installed pipe.
- 6) Specifications on the method of disinfection used to disinfect the water mains. It must conform to AWWA C601-68, "Disinfecting Water Mains".
- 7) Details of the method of bedding and backfilling of the water line.
SEWER LINES
- 8) Details of cleanouts.
- 9) Details of manholes.
- 10) Details of the method of bedding and backfilling of the sewer lines.
- 11) The method of leakage tests shall be specified.
- 12) Profile drawings of the sewer system are much easier to review - In the future profile drawings of the sewer system will be required. Recommendation only this review.

PROJECT: Pioneer Park, Development Plan, Green River, Wyoming

REFERENCE NUMBER: 76-91

The following items need correction on your design in order to meet our minimum standards.

WATER LINES

- 13) Provide assurance to DEQ that a minimum water pressure of 20 psi can be provided at all times. A letter of verification should be provided if the water is to be supplied by Pacific Power and Light.
- 14) The water riser shall be protected at the ground surface by concrete, a minimum of four inches thick and 12 inches in diameter.
- 15) A water riser of the single valve, stop and waste type is prohibited.
- 16) All PVC pipe used for the water system shall be NSF approved. This should be indicated on the plans and/or specifications.

SEWER LINES

- 17) The sewer riser shall be protected by concrete at the ground surface a minimum of four inches thick and 12 inches in diameter.
- 18) Specifications shall include the maximum allowable infiltration into the sewer lines which is 200 gallons per inch of pipe diameter, per mile, per day.

Enclosure - Wyoming Water Quality Rules and Regulations, Chapter III, 1976.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Pioneer Park Development Plan
Green River, Wyoming

ARCHITECT OR ENGINEER: Gilbert D. Gardner, P.E.
Gardner, Sweenhart, Inc., 7833 Lomas Blvd. N.E. Suite 23
Albuquerque, New Mexico 87110
WATER QUALITY DIVISION REFERENCE NUMBER: 76-91R

REVIEWING ENGINEER: ^{DWH} David W. Hill, William L. Garland, P.E. *wsd*

DATE OF REVIEW: May 20, 1976

ACTION: Authorized for Construction

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Green River, Streets, Water, Sanitary and Storm Sewer
Tract "G", Green River, Wyoming, Sweetwater County

ARCHITECT OR ENGINEER: R. A. Blank, P.E., Parker and Associates
255 Yuma Street
Denver, Colorado 80223

WATER QUALITY DIVISION REFERENCE NUMBER: 76-92

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

DATE OF REVIEW: May 20, 1976

ACTION: Not Authorized for Construction

COMMENTS:

- 1) Please provide information of dead end of water main on West Teton Blvd., pg. 11. Does it hook into existing water line or will it be extended in future? Dead ends should be minimized by proper looping of mains. If looping is not done, the dead end mains should be provided with a fire hydrant, flushing hydrant, or blow-offs for flushing purposes.
- 2) Boring and casing details were included. Are they being used in this project? If so indicate where the casings are used. The bells of the PVC pipe should not rest on the casing. Wooden skids (at least 2, preferably 4) are needed. These skids should extend for the length of the PVC pipe section except for the bell and spigot area. The skids should be high enough to allow for clearance between the bell and casing.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Green River, Streets, Water, Sanitary and Storm Sewer Tract "G",
Green River, Wyoming, Sweetwater County

ARCHITECT OR ENGINEER: R. A. Blank, P.E., Parker and Associates
255 Yuma Street
Denver, Colorado 80223

WATER QUALITY DIVISION REFERENCE NUMBER: 76-92R

REVIEWING ENGINEER: ^{DWA} David W. Hill, William L. Garland, P.E. *wlg*

DATE OF REVIEW: June 8, 1976

ACTION: Authorized for Construction

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Johnson Addition, Hanna, Wyoming, Water and Sewer

ARCHITECT OR ENGINEER: Robert Jack Smith, P.O. Box 1104, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 76-93

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

DATE OF REVIEW: April 30, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Phillip Hughes, District Sanitarian, Box 1153, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Izaak Walton Park, Casper, Wyoming

ARCHITECT OR ENGINEER: E.C. Lenhart, P.E., 632 South David, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-95

REVIEWING ENGINEER: Jake Strohmman, William L. Garland, P.E. *wlg*

DATE OF REVIEW: June 9, 1976

ACTION: Construction Authorized (See Compliance Items). The following items were agreed to be put in plans and specifications and furnished to DEQ in a meeting with Doran Boston on this date.

COMMENTS:

1. Need a blowoff valve on water line by MH #1 (send specs).
2. Need concrete support around sewer risers.
3. Exhaust fan in lift station should protrude to bottom of dry well.
4. Need upper trench compaction specifications.
5. Furnish Casper B.P.U. with lift station O&M Manual.
6. Dump station for self contained trailers will dispose into a storage tank to be pumped and disposed in sanitary landfill. (Send specifications for storage tank).
7. R-1 sewer line will be revised and submitted at a later date.
8. Thermaline water risers will be installed 4" above ground surface, standing water or runoff water, whichever is higher.
9. Water riser at dump station will be redesigned.

cc: Casper B.P.U.
Nix Anderson

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Rawlins - Sawtell Addition - Blocks 2 and 4
Sewer Extension

ARCHITECT OR ENGINEER: Michael Winterling - City Engineer
City of Rawlins, P.O. Box 953, Rawlins, Wyoming 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 76-96

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

DATE OF REVIEW: May 20, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Phillip Hughes, District Sanitarian, P.O. Box 1153, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Missouri Basin Power Project-Laramie River Station. Units 1 and 2
Project 74-021-1

ARCHITECT OR ENGINEER: Burns and McDonnell-Engineers and Architects, P.O. Box 173,
Kansas City, Missouri 64141

WATER QUALITY DIVISION REFERENCE NUMBER: 76-97

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

Frank R. Harman

DATE OF REVIEW: July 7, 1976

ACTION: Authorized for Construction

COMMENTS: Data for the well to be drilled should be submitted prior to use.

cc: Gena Wright, Platte County Sanitarian, P.O. Box 55, Wheatland, Wyoming 82201

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Deer Haven Lodge, P.O. Box 121, Tensleep, Wyoming
Owners: Doug and Sonja Smith

ARCHITECT OR ENGINEER: John W. Donnell and Associates, P.O. Box 13, Worland, Wyoming
82401

WATER QUALITY DIVISION REFERENCE NUMBER: 76-98

REVIEWING ENGINEER: Jake Strohmman, Arthur E. Williamson, P.E.

DATE OF REVIEW: May 5, 1976

ACTION: Construction not Authorized

COMMENTS:

1. A minimum of 6" diameter sewer line is required from the manhole on the East side of the creek to the septic tank.
2. What are the material specifications for the water and sewer line?
3. Give disinfection procedure for water line.
4. What is the slope on the 4 inch sewer line from the proposed cabin to the manhole.
5. Pressure test water lines to $1\frac{1}{2}$ times operating pressure. What is the pressure furnished to the proposed cabin?

cc: Doug and Sonja Smith, P.O. Box 121, Tensleep, Wyoming 82442
U.S. Forest Service, Box 2046, Sheridan, Wyoming 82801

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Deer Haven Lodge, Sewer and Water Extension

ARCHITECT OR ENGINEER: John W. Donnell, Box 13, Worland, Wyoming 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 76-98R

REVIEWING ENGINEER: Jake Strohman, Paul Schwieger, P.E. 

DATE OF REVIEW: May 24, 1976

ACTION: Construction Authorized

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Brady Gas Processing Plant, Sewage Disposal System, Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: John E. Olson, II, Champlin Petroleum Company, Brady Processing Plant, P.O. Box 1375, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-99

REVIEWING ENGINEER: ^{DWH} David W. Hill, William L. Garland, P.E. *WLG*

DATE OF REVIEW: June 11, 1976

ACTION: Not Authorized for Construction.

COMMENTS:

- 1) Please supply the design population and design flows for the system (i.e. - number of workers using the facility and per capita flows). This is needed to determine if the facility is sized properly.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Brady Gas Processing Plant, Sewage Disposal System, Sweetwater County, Wyoming

ARCHITECT OR ENGINEER: John E. Olson, II., Champlin Petroleum Company, Brady Processing Plant
P.O. Box 1375, Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 76-99R

REVIEWING ENGINEER: ^{Dwg} David W. Hill, William L. Garland, P.E. ^{WJG}

DATE OF REVIEW: June 30, 1976

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Uranium Supply Services, Inc., Shirley Basin Operations
Septic Tank and disposal field

ARCHITECT OR ENGINEER: Western Engineers - Architects, Inc.
2111 E. 2nd Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-100

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

DATE OF REVIEW: May 21, 1976

ACTION: Authorized for Construction

COMMENTS:

cc: Phillip Hughes, District Sanitarian, Box 1153, Green River, Wyoming 82935

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Uranium Supply Services, Inc., Shirley Basin Operations, Septic Tank and disposal field

ARCHITECT OR ENGINEER: Western Engineers - Architects, Inc., 2111 East 2nd, Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 76-100R

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

DATE OF REVIEW: August 6, 1976

ACTION: Authorized For Construction

COMMENTS:

The revision of the disposal field from 75' x 75' to 50' x 50' is approved, as is the septic tank system from a 5000 gallon tank with a 800 polishing tank to 2 - 1500 gallon tanks.

However, it is to be expected that the first of the 2, 1500 gallon tanks will build up with solids very rapidly and this tank will need to be pumped out regularly, at least annually.

cc: Phillip Hughes, District Sanitarian, Box 1153, Green River, Wyoming 82935