

PERMIT TO CONSTRUCT

mailed
3/29/79

- New
- Renewal
- Modified

Permit No. 78-101MRR

North End Sewer Extensions, Trunk, Collector Sewers, Lift
(Name of Facility) Station & Force Main

This permit hereby authorizes the applicant:

City of Sheridan - J. C. Sanders, City Engineer
(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 Sewer System Extension & Lift Station
facility located in Sheridan, WY
(Legal Description)

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

AUTHORIZED BY:

William J. Paul
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

March 19, 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

REVIEW OF PLANS AND SPECIFICATIONS

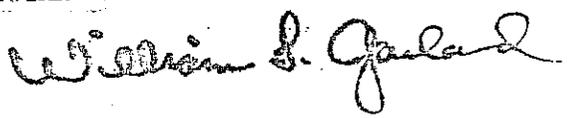
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
Hathaway Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Sheridan, North End Sewer Extensions, Trunk, Collection Sewers,
Lift Station and Force Main, Sheridan County

ARCHITECT OR ENGINEER: TSP Wyoming, 532 Val Vista, Sheridan, WY 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 78-101MR

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



DATE OF REVIEW: 6/28/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Sewage Pump Station & Force Main
 - a. Specify that all electrical systems and components shall comply with the National Electrical Code requirements for Class I, Division I locations.
 - b. Submit a letter from the responsible Sheridan City officials stating that the City of Sheridan will provide for emergency operation in accordance with Section 35, Emergency Operation of the Recommended Standards for Sewage Works of the Great Lakes - Upper Mississippi River Board of State Sanitary Engineers.
 - c. Since a municipal facility of 24-hour attendance is available, the pump station alarms shall be telemetered thereto.
 - d. The sewage pump station shall not be subject to flooding. Submit details pertaining to the flood hazard (such as the 100-year flood level or the highest known water mark). Also, submit details pertaining to the protection to be provided against flooding or make arrangements for the submission of plans and specification covering the flooding protection project to this office.
 - e. The following provisions shall be made in connection with the removal of screenings from the sewage in the wet well:
 - 1) Provide facilities for removal by the operator of the "basket strainer" and returning it to the required location under the raw sewage influent pipe without exposure to the operator of hazardous gases produced in the wet well.
 - 2) Alter the raw sewage influent pipe outlet so that all the raw sewage will pass through the "basket strainer" at all times that sewage is flowing into the wet well.
 - f. Is the access road at least graveled so the station will be accessible during wet weather?
 - g. The ventilator blower shall have a capacity of at least 300 cubic feet per minute in order to provide the required 30 air changes per hour for the dry well shown on the plans.

- h. The ventilator blower shall be interconnected with the dry well lighting system.

2. Collection System

Regular flushing of the 30 inch trunk sewer line will be necessary to avoid excessive build-up of sewage solids due to insufficient sewage flow.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Sheridan, North End Sewer Extensions, Trunk, Collection
Sewers and Force Main, Sheridan County

ARCHITECT OR ENGINEER: TSP Wyoming, 532 Val Vista, Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 78-101M

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

DATE OF REVIEW: April 18, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1). Sewage Pumping Station and Force Main

- a. Provide an access road to the pumping station and protection against flooding as necessary.
- b. Submit specifications.
- c. Submit a detail of the force main discharge to the "existing manhole" at the sewage treatment plant (see sheet 11). The force main shall enter the gravity sewer system at a point not more than two (2) feet above the flow line of the receiving manhole.
- d. Provide a check valve on each pump discharge line between the shutoff valve and the pump.
- e. Specify that all electrical systems and components shall comply with the National Electrical Code requirements for Class I, Division I locations.
- f. If 50 homes or more are served, provide for emergency operation in accordance with Section 35, Emergency Operation of the Recommended Standards for Sewage Works of the Great Lakes-Upper Mississippi River Board of State Sanitary Engineers.
- g. Submit manhole details and/or other instructions covering the change over of the force main to a gravity flow system accessible at each manhole.

PAGE 2

PROJECT: City of Sheridan

WATER QUALITY REFERENCE NUMBER: 78-101M (CONT)

2). Collection System

- a. There shall be a specification covering limitation on ovalation of PVC sewer pipe due to improper backfilling and/or compaction. The maximum vertical deflection should not exceed 5% of the pipe internal diameter.
- b. Submit a detail of the "tie into existing wet well" as designated on page 15 of the plans.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-102

Hamilton Dome
(Name of Facility)

This permit hereby authorizes the applicant:

Ashland Exploration Inc.
(Last) (First) (Middle)
P. O. Box 1503
(Street or P.O. Box)
Houston Texas 77001
(City) (County) (State)

to construct, install, or modify a Waste Treatment
facility located in Section 13, T44N, R98W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division
By: [Signature]

Robert E. Lunden
Director
Wyoming Dept. of Environmental Quality

April 7, 1978
Date of Issuance

April 7, 1978

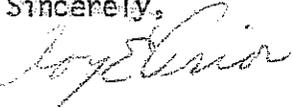
Dan R. Eppley
Senior Staff Engineer
Ashland Exploration Inc.
P. O. Box 1503
Houston, Texas 77001

REF: 78-102

Dear Mr. Eppley:

The enclosed permit is for construction of the waste treatment facility. Permits for solid waste disposal or information concerning solid waste can be obtained from Charles A. Porter, Solid Waste Management, Department of Environmental Quality, Hathaway Building, Cheyenne, Wyoming, 82002, Telephone (307) 777-7752.

Sincerely,



Roy E. Prior
Environmental Engineer

REP/do

cc

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-103

Shop Building
(Name of Facility)

This permit hereby authorizes the applicant:

Klein Russell C.
(Last) (First) (Middle)

P. O. Box 2021
(Street or P.O. Box)

Rock Springs Sweetwater Wyoming 82901
(City) (County) (State)

to construct, install, or modify a Waste Treatment
facility located in Lot 4, Block 13, Mountaineer Subd., Sec. 9, 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. Garland
Administrator
Water Quality Division
By John Stohman

Robert E. Searles
Director
Wyoming Dept. of Environmental Quality

April 7, 1978
Date of Issuance

PERMIT TO CONSTRUCT

Mailed
10/23/78

- New
- Renewal
- Modified

78-104
 Ref: 77-497
 Permit No. _____

JEFFREY CITY SEWER TRUNK LINE

(Name of Facility)

This permit hereby authorizes the applicant:

WESTERN NUCLEAR INC. c/o RICHARD FAIRSERVIS

(Last) (First) (Middle)

P.O. BOX 630

(Street or P.O. Box)

JEFFREY CITY WYOMING 82301

(City) (State) (Zip Code)

to construct, install, or modify a SEWER MANHOLE AND TEE

facility located in SEC 9, 10 & 15, T29N R92W
(Legal-Description)

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

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

Authorized by:

William J. ...

 Administrator
 Water Quality Division

Robert E. ...

 Director
 Department of Environmental
 Quality

OCTOBER 17, 1978
Date of Issuance

C.C. WESTERN ENGINEERS ARCHITECTS, 501 NORTH SUN DRIVE, CASPER, WYO. 82601

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

933 MAIN

LANDER, WYOMING 82520

TELEPHONE 307-332-~~2047~~³¹⁴⁴

October 17, 1978

Mr. Russell L. Donley,
Western Engineers - Architects
501 North Sun Drive,
Casper, Wyo. 82601.

Dear Mr. Donley:

Re: JEFFREY CITY, WESTERN NUCLEAR, SEWAGE TRUNK
LINE - DEQ-WQD REFERENCE NUMBER 78-104

We have completed our review of the sewage trunk line. The plans as submitted are as built drawings except for the proposed manhole 5B and a capped Tee in manhole 6A.

The Department does not issue permits to construct for as built facilities. This letter is to indicate that with the addition of the manhole 5B and the capped tee in manhole 6A, they will meet the Water Quality Division's Requirements.

The Permit to Construct the manhole and cap the tee will be forwarded to you upon receipt from Cheyenne.

Sincerely,

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

Roy E. Prior, P.E.
- DISTRICT ENGINEER.

C.C. WESTERN NUCLEAR INC.
ATTN: RICHARD FAIRSERVIS

JS

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Western Nuclear - Sewage Trunk Line

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc., 501 North Sun
Drive, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-104 (REF. 77-497RR)

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

DATE OF REVIEW: May 25, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

As of this date we have not received the information requested pertaining to the sewer trunk line. Per your request the lift station project and the trunk line project were separated into two separate applications. The permit to construct, our reference number 77-497RR, was for the lift station only. Please submit the information requested. As you know the trunk line was constructed without a permit and resulted in a letter of violation from this office and the information is needed to conclude this matter.

cc: Western Nuclear, Inc.
ATTN: Richard Fairservis
P. O. Box 630
Jeffrey City, Wyoming 82301

JSL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Northland Village Mobile Home Park, Section 14, T50N
R72W, Campbell County

ARCHITECT OR ENGINEER: Albertson & Associates, 6 Park Circle, Gillette,
Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-105R

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

DATE OF REVIEW: March 29, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1). Complete design criteria are needed (i.e. water-sewer system, sizing water well, storage tank, etc.).
- 2). The water well, pumphouse, etc. and the wastewater treatment plant must be located outside of the 100 year flood zone. Provide information.

WATER SYSTEM

Water Mains

- 3). Any water distribution system which provides fire protection must have six inches or larger sized mains throughout the subdivision.
- 4). Class 160 psi PVC pipe meeting ASTM D2241-73 is unacceptable. All PVC pipe must meet AWWA C900 standards.
- 5). All plastic pipe (main or service lines) must be NSF approved. Insert this into the specifications.
- 6). Indicate the depth of bury of the water mains.
- 7). Indicate the proposed maximum and minimum water pressure in the subdivision.
- 8). Each mobile home lot shall be provided with its own service line and water riser.
- 9). All asbestos-cement water pipe must meet AWWA C400-77.

PROJECT: Northland Village Mobile Home Park

WATER QUALITY REFERENCE NUMBER: 78-105R

- 10). All water mains shall be disinfected in accordance to AWWA C601. This standard requires bacteriological tests after chlorine disinfection.
- 11). Trenches shall be excavated in rock to a depth of at least 4 inches below pipe bottom for PVC pipe and 6 inches below pipe bottom for asbestos-cement pipe (UNI-B-3-77, and AWWA C603-65 standards).

Well, Pumphouse, Etc.

- 12). Complete details are needed for the well, booster pumps, pump building, storage tank, etc.
- 13). A chemical and bacteriological analysis of the well is needed upon completion.
- 14). The ability to provide for disinfection is required on all water supplies. Supply details.

SEWER SYSTEM

- 15). Cleanouts may only be used if the length of the line from the cleanout to the nearest manhole is 150 feet or less.
- 16). Any sewer main or sewer service line which passes over or less than 18 inches under water mains must be constructed of special water class type material for at least ten feet on each side of the crossing. Adequate structural support is needed for all sewer lines laid over water lines.
- 17). "Y"e" 45° branches should be used instead of saddles.
- 18). No less than 4-inches of excavation below the pipe bottom is needed in rock excavation.
- 19). Detailed specifications are needed for bedding and backfilling in order to prevent excessive sidefill pressures or ovalution of the pipe. The use of a deflection testing specification is recommended (i.e. Go-No-Go Pig at 5% deflection).
- 20). All sewer risers must project above the ground surface at least 4 inches and be surrounded by a concrete pad at least 12 inches in diameter and 4 inches thick.
- 21). Manholes cannot be spaced over 400 feet apart. More manholes appear to be needed.
- 22). Provide more specific details of the exfiltration test procedure.

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PROJECT: Northland Village Mobile Home Park

WATER QUALITY REFERENCE NUMBER: 78-105R

WASTEWATER TREATMENT PLANT

- 23). A bypass around the plant is not allowed.
- 24). Discuss power outages. Emergency power or two separate feeder lines should be provided.
- 25). Complete detailed drawings and/or specifications are needed for the proposed chlorination building and facilities.
- 26). Provide details of how the plant will be isolated and protected (i.e. building, fencing, etc.).
- 27). Surge flows can have a very detrimental effect on small wastewater facilities. It is recommended that a surge basin be provided on the front of the wastewater plant.
- 28). Sludge wasting facilities such as an aerobic digester are needed. Provide details.
- 29). A wasted sludge management plan is needed including ultimate disposal. Provide details.
- 30). A maintenance and operation manual should be provided.
- 31). Flow measuring details are needed.
- 32). Outfall structure details are needed.
- 33). Where will the scum be disposed to?
- 34). Details of the communitor bar screen unit is needed.
- 35). Indicate all yard pipe sizing and material specifications.
- 36). Water is needed at the plant site in order to wash down and clean equipment, etc.
- 37). You indicate in the specifications that a grit chamber is provided. The plans do not show one.
- 38). Are you using sludge pumps or air-lift pumps?
- 39). Due to the number of comments, this cannot be considered a complete or final review.

cc: Paul J. McGee, 605 Miller, Gillette, Wyoming 82716
Francis-Meador-Gellhaus, Inc., 1823 West Main Street, Rapid City, SD 57701

Book

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Northland Village Mobile Home Park

ARCHITECT OR ENGINEER: Robert Ballmes, Balmes Engineering
259 E. Oakland - Rapid City, SD 57701

WATER QUALITY DIVISION REFERENCE NUMBER: 78-105RR

REVIEWING ENGINEER: Tom Mueller

DATE OF REVIEW: 7/3/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: Water System

1. In the design calculations, two water supply wells are referred to. Only one is shown on the plans. Please explain.
2. Please indicate that piping in the pump room will be supported, so as to avoid extra weight on the pumps. An actual support plan will not be needed. Permanent pump stands should also be indicated.
3. The fire hydrants presently on South Boise and Lincoln Avenues must be located within the 6" water main loop.

Sewage System

1. Will the wet well of the Tift station be of poured concrete construction, as shown on the plans, or reinforced concrete pipe as in the design calculations?
2. The design calculations and specifications differ for the size of sewage lift pumps. The pumps must be of 150 gpm capacity.
3. The specifications call for sewer pipe meeting ASTM D-3034, SDR-42. The ASTM specification does not provide for SDR-42 pipe in the 6 inch size. SDR-35 pipe will be required for the 6 inch sewer mains, and is recommended for the 8 inch mains as well.
4. The lagoons appear to be adequately sized. Their shape, however, and local wind direction may cause considerable floating solids deposition in the South east corner of the first lagoon. Has any consideration been given to this?

Review of Reference Number 78-105RR

Page 2

5. Was local soil data used to specify the bentonite application rate?
What is the anticipated seepage rate?
6. An operation and maintenance manual should be provided for the lagoon.
Of particular importance is maintenance of proper water levels to avoid odors.

NOTES: Manhole 12-B is mislocated on page 15 of the drawings. Plastic water service lines are not usually designed or required to meet AWWA C900. These items need not be addressed in your reply.

When the above items have been satisfactorily addressed, a permit can be issued for the system. This office will also prepare a letter to the commissioner of Public Lands, stating that we feel there will be no excessive flood risk or subsurface seepage from the lagoons.

cc: Paul McGee, 605 Miller, Gillette, WY 82716
Francis-Meader-Gelhaus, Inc., 1823 West Main St., Rapid City, SD 57701

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-105RRR

Northland Village Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

McGee Paul J.
(Last) (First) (Middle)
605 Miller
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Public Water Supply, Sewage Collection and Disposal facility located in Section 14, T50N, R72W
(Legal Description)

in the County of Campbell, 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:

William J. Gales
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

August 21, 1978

Date of Issuance

cc: Ballmes Engineering, 259 E. Oakland, Rapid City, SD 57701
Francis-Meador-Gellhaus, 1823 W. Main, Rapid City
Gary Albertson, 6 Park Circle, Gillette, WY 82716
Malcolm Crawford, County Sanitarian George Mathes, 802 E. 3rd, Gillette
Cherry Lane Sewer District, 900 Cherry Lane, Gillette

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-106M

Town of Medicine Bow
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Medicine Bow
(Last) (First) (Middle)
c/o Banner Associates, Inc.
P. O. Box 550
(Street or P.O. Box)
Laramie Albany Wyoming 82070
(City) (County) (State)

to construct, install, or modify a 1.5 MG Storage Tank
facility located in Section 8, T22, R78
(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. Garland
Administrator
Water Quality Division

Robert E. Sandlin
Director
Wyoming Dept. of Environmental Quality

April 7, 1978
Date of Issuance



Chron
78-108

ED HERSCHELE
GOVERNOR

Department of Environmental Quality

Water Quality Division

401 W. 19TH STREET

EQUALITY STATE BANK BUILDING
CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

August 27, 1980

REGISTERED

Mr. Larry Redding
RADIX, Inc.
350 W. A Street
Suite 205
Casper, WY 82601

Subject: Trails West Sewage Treatment Plant Construction Permit 78-108R
Discharge Permit WY0027596

Dear Mr. Redding:

As you are aware, the final Casper Urban Water Quality Management Plan requires that no additional sewage treatment plants with discharges to the North Platte River above Casper Creek be allowed. The Plan has been adopted by Natrona County and the City of Casper and has been signed and certified by the Governor.

Once the Governor certifies a 208 plan, this Department must comply with the provisions of that plan. Therefore, under the authority of Section 12a of Wyoming Water Quality Rules and Regulations, Chapter III (copy enclosed) the construction permit for the Trails West Sewage Treatment Plant (permit number 78-108R) is hereby revoked.

Also, you should be aware that the discharge permit for the Trails West Sewage Treatment Plant (WY0027596) will expire January 31, 1983 and under the provisions of Section 5a(4) of Wyoming Water Quality Rules and Regulations, Chapter II (copy enclosed), that permit will not be renewed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/mlb

Enclosures

cc: Steve Jones, Asst. Attorney General
Dan Coughlin, Brooks Water & Sewer
Jake Strohmman
John Wagner
LeRoy Feusner
Larry Robinson
EPA, Permits Branch

cc: Chuck Davis, City-County Planner
Rod Tompkins, Heritage Homes

cc: The Engineers
6405 Indian Scout Dr.
Casper, WY 82602

cc: Brooks Water & Sewer
Box 2080
Mills, WY 82644

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-108R

Trails West Sewage Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Radix, Inc.
 (Last) (First) (Middle)
Casper Professional Center
350 West A, Suite 205
 (Street or P.O. Box)

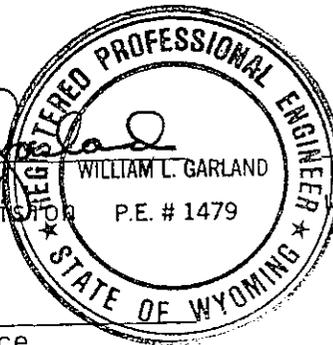
Casper, WY 82601
 (City) (County) (State)

to construct, install, or modify a sewage treatment plant
 facility located in Sec. 15 & 22, T33N, R80W
 (Legal Description)

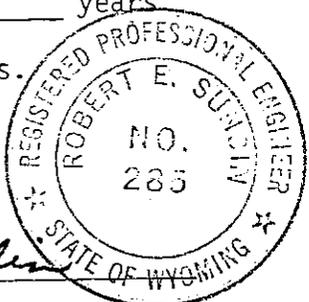
in the County of Natrona, in the State of
 Wyoming. This permit shall be effective for a period of two (2) years
 from the date of issuance of this permit not to exceed five (5) years.

AUTHORIZED BY:

William L. Garland
 Administrator
 Water Quality Division
 P.E. # 1479



Robert E. Sundin
 Director
 Wyoming Dept. of Environmental Quality



March 17, 1980
Date of Issuance

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

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



*Jake
John L
Norma*

SUITE 205 CASPER PROFESSIONAL CENTER 350 WEST A
Casper, Wyoming 82601 TELEPHONE 307/265-3771

March 13, 1980.

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

Attn: Jake Strohman

Re: Permit Number 78-108R



Gentlemen:

Radix, Inc. presently has the above referenced permit to construct a sewage treatment plant. The permit is valid through May 17, 1980. Also, Radix, Inc. has a permit to discharge number, Wy-0027596, which expires on January 31, 1983 and they have purchased \$127,976.85 of equipment for the plant.

Radix, Inc. writes this letter to respectfully request an extension of Permit to Construct Number 78-108R for a 2 year period.

Very truly yours,

RADIX, INC.

Larry L. Redding

Larry L. Redding, President

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-108R

Trails West Sewage Treatment Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Radix, Inc.
(Last) (First) (Middle)

Western Resources Building - Suite 230
(Street or P.O. Box)

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

to construct, install, or modify a Sewage Treatment Plant
facility located in Section 15 & 22, T33N, R80W
(Legal Description)

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

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

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 17, 1978

Date of Issuance
cc: The Engineers, 644 West 14th Street, Casper, Wyoming 82601
Brooks Water and Sewer, Box 2080, Mills, Wyoming 82644

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Trails West - Sewage Treatment Plant,
Section 15 & 22, T33N, R80W, Natrona County

ARCHITECT OR ENGINEER: The Engineers, ATTN: Thomas P. McDill, P.E.,
644 West 14th Street, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 78-108

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

DATE OF REVIEW: April 4, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1). A yard hydrant should be located at the ozonation facility.
- 2). More details are needed concerning the alarm systems. Do all pumps and wet wells have alarms? Do the clarifier sludge collectors have a high torque alarm and shutoff? Is there an audio-visual device or telemetry system available for times when no operator is present at the plant?
- 3). Filletting is recommended in the grit chamber channel, sludge sumps and the aerobic digester.
- 4). All units should have provisions for dewatering. How will this be accomplished?
- 5). Will pressure relief valves be needed in the floors of the clarifiers and oxidation ditch (i.e. high groundwater).
- 6). More operational controls are needed (i.e. sample taps in digester waste sludge line, return sludge and waste sludge flow measurement, sludge blanket finder, etc.).
- 7). For safety purposes, electrical disconnects should be provided at all pump locations. Oxygen deficiency meter, hydrogen sulfide meter, self contained breathing apparatus, etc., are also recommended.
- 8). An operation and maintenance manual should be provided.

PAGE 2

PROJECT: Trails West - Sewage Treatment Plant
Section 15 & 22, T33N, R80W, Natrona County

WATER QUALITY REFERENCE NUMBER: 78-108

LIFT STATION-GRIT CHAMBER

- 9). Where will the screenings and grit be disposed of?
- 10). In a two pump lift station, each pump must be capable of handling peak flows. Either larger sized pumps or a third pump is needed. In a three pump lift station, peak flow must be handled with the largest pump out of service.
- 11). The floor drain in the lift station should have a trap to prevent odors from the wet well.
- 12). The dry well in any lift station should have a ventilation capacity of at least 30 room air changes per hour for intermittent operation.
- 13). Manufacturers information is requested concerning the oxygen jet diffuser.
- 14). The filleting in the wet well should have a steeper slope to help prevent solids deposition.
- 15). How will short circuiting be prevented with the circulating pump. The pumps discharge lies close to its intake.
- 16). Will thrust blocking be needed where the new force main connects into the existing 8 inch force main?

OXIDATION DITCH

- 17). A bypass should be provided around the oxidation ditch for maintenance purposes.

CLARIFIERS

- 18). Where is the heavy solids sludge hopper?
- 19). Ten State Standards require a maximum sludge return rate capability of 200% of average daily flow. You appear to have much less than this.
- 20). A floor drain is needed in the fiberglass sludge pump building.
- 21). Will the sludge sumps be covered. Odors could develop with excessive detention times in the sumps, especially the heavy solids sump.
- 22). Suction lift of sludge by centrifugal pumps is not allowed by Ten State Standards. A minimum positive head of at least 24 inches shall be provided to the suction side of the centrifugal pumps. All sludge pump piping should also be at least six inches in size.

PROJECT: Trails West

WATER QUALITY REFERENCE NUMBER: 78-108

CLARIFIERS (CONT)

- 23). How will the sludge pumping rates be controlled? Timers or variable speed or valve control.

AEROBIC DIGESTER

- 24). I question if enough air is provided to the digester to accomplish complete mixing. The literature indicates at least 20-30 SCFM per 1000 ft³ of volume is needed.
- 25). Do the two diaphragm sludge-supernatant pumps work off the roots blower or a separate compressor. The plans and specifications do not make this clear.
- 26). Submit details of the aerobic digester waste sludge pump pit. Forced venelation and a drain or sump pump are needed.

SLUDGE DRYING BEDS

- 27). At present the design supplies about 1.1 ft²/capita of sludge bed area. The literature indicates more should be provided (1.75 ft² - 2.5 ft²/capita). Please discuss.
- 28). How will the sludge drying bed influent pipes be drained to prevent freezing.

OZINATION FACILITY

- 29). A bypass should be provided around the contact chambers for normal maintenance activities.
- 30). This cannot be considered a final review.

PERMIT TO CONSTRUCT

New

Renewal

Modified

Permit No. 78-109R

Century West Fifth Filing
(Name of Facility)

This permit hereby authorizes the applicant:

<u>C.S.S.A.</u>		
(Last)	(First)	(Middle)
<u>P. O. Box 943</u>		
(Street or P.O. Box)		
<u>Cheyenne</u>	<u>Laramie</u>	<u>Wyoming 82001</u>
(City)	(County)	(State)

to construct, install, or modify a Water Distribution and Wastewater Collection
facility located in Section 21, T14N, R66W
(Legal Description)

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

Authorized by:

William P. O'Connell
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 2, 1978

Date of Issuance

cc: Board of Public Utilities, P. O. Box 1469, Cheyenne, Wyoming 82001

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Century West, 5th Filing, Section 21, T14N, R66W,
Laramie County

ARCHITECT OR ENGINEER: Alvin F. Bastron, P.E., CSSA, P. O. Box 943,
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-109

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

DATE OF REVIEW: March 22, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). A letter is needed from the City of Cheyenne stating that they will provide water and sewer service for the subdivision.
- 2). A temporary blowoff or fire hydrant should be provided at the ends of all dead end lines (i.e. South Grandview Avenue) unless this line will be extended in the very near future.

JL

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Kroe Lane Mobile Home Park, Section 26, T56N, R84W,
Sheridan County

ARCHITECT OR ENGINEER: R. V. Lord & Associates, 30 East Grinnell Street,
Sheridan, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 78-110

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

DATE OF REVIEW: March 22, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: ---

WATER SYSTEM

- 1). Will fire protection be provided? We see no hydrant locations.
- 2). All dead end lines must have a hydrant or a flushing hydrant on the end.
- 3). Submit details of a typical mobile home lot water riser.
- 4). Please indicate water and sewer riser locations on the typical lot layout.

SEWER SYSTEM

- 5). Manholes shall be installed at all changes in direction (i.e. alternate sewer line for Antelope Court).
- 6). A cleanout or manhole is needed on the end of the alternate sewer line for Antelope Court.
- 7). The sewer riser pipe shall terminate a minimum of four inches above natural ground and be protected by concrete a minimum of four inches thick and twelve inches in diameter. The sewer risers shall be capped or plugged when not in use.
- 8). All City of Sheridan requirements should be adhered to.

cc: City of Sheridan, ATTN: C. J. Sanders, P.E., City Engineer

Enclosure: Chapter III, Water Quality Rules & Regulations

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-111

Arminto School House Antiques
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Werner</u> (Last)	<u>Henry</u> (First)	<u>D.</u> (Middle)
<u>5017 Alcova Route -- Box 74</u> (Street or P.O. Box)		
<u>Casper</u> (City)	<u>Natrona</u> (County)	<u>Wyoming 82601</u> (State)

to construct, install, or modify a Small Wastewater
facility located in Section 28, T33N, R80W
(Legal Description)

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

Authorized by:-


Administrator
Water Quality Division


Director
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

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

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-113

Resubdivision Tract "L", Sunburst Subdivision #3
(Name of Facility)

This permit hereby authorizes the applicant:

McCawley Dale E.
(Last) (First) (Middle)

P. O. Box 883
(Street or P.O. Box)

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

to construct, install, or modify a Sewer System
facility located in Section 2 & 3, T49N, R72W
(Legal Description)

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

Authorized by:

William P. Ojala
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance
cc: Timm & Associates, ATTN: R. J. Timm, P.E., P. O. Box 726, Gillette, Wyoming
82716

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-114

Valley View Connector Sewer
(Name of Facility)

This permit hereby authorizes the applicant:

Jensen Ronald L.
(Last) (First) (Middle)

Route 1 - Box 37
(Street or P.O. Box)

Rapid City South Dakota 57701
(City) (County) (State)

to construct, install, or modify a Sanitary Sewer Connector
facility located in Section 34, T50N, R72W
(Legal Description)

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

Authorized by:

William J. Quisenberry
Administrator
Water Quality Division

Robert E. Hendin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

Date of Issuance
cc: R. J. Timm & Associates
Malcolm Crawford, County Sanitarian

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-115MR

City of Riverton North 8th West Sanitary Sewer
(Name of Facility)

This permit hereby authorizes the applicant:

City of Riverton
(Last) (First) (Middle)
ATTN: Dennis Whitehead, Asst. City Engineer
Box 1700
(Street or P.O. Box)
Riverton Fremont Wyoming 82501
(City) (County) (State)

to construct, install, or modify a Sanitary Sewer
facility located in the City of Riverton
(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 P. O'Connell
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Riverton, North 8th West Sanitary Sewer
Fremont County

ARCHITECT OR ENGINEER: William P. Williams, P.E. City Engineer,
Box 1700, Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-115M

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

DA

DATE OF REVIEW: March 20, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION ...

COMMENTS:

- 1). Submit a detailed drawing of a typical standard type manhole proposed to be used for the entire project.
- 2). Where the proposed sewer crosses water lines, the requirements as set forth in the 10 State Standards shall prevail. (Copy attached).

29.2 Relation to Water Works Structures

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

29.3 Relation to Water Mains

29.31 Horizontal Separation

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

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

29.32 Vertical Separation

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

29.33 Special Conditions

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-116MR

City of Lander Utilities Relocation
(Name of Facility)

This permit hereby authorizes the applicant:

<u>City of Lander</u>		
(Last)	(First)	(Middle)
c/o C. E. Spurlock, Jr. & Associates		
P. O. Box 0		
<u>(Street or P.O. Box)</u>		
<u>Lander</u>	<u>Fremont</u>	<u>Wyoming 82520</u>
(City)	(County)	(State)

to construct, install, or modify a Water Line Relocation
facility located in Highway 287 South and Highway 789 North
(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. Linder
Director
Wyoming Dept. of Environmental Quality

May 9, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: City of Lander - Utilities Relocation
Highway 287 South and 787 North - Fremont County

ARCHITECT OR ENGINEER: C. E. Spurlock & Associates, 150 North Third
Street, Lander, Wyoming 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 78-116M

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

DATE OF REVIEW: March 23, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1). DRAWINGS

Make standard drawing showing each different blocking application and specify minimum volume of concrete or blocking for each application by pipe diameter. That is a sketch and a tabular format. An alternate is to specify the minimum volume for each point on the drawings.

2). SPECIFICATIONS - WATER LINE CONSTRUCTION

Anchorage of Bends. . .

Last Sentence: Data must be delineated.

Allowable Leakage -

The formula should be - $Q = \frac{N \times D \times (P)^{1/2}}{3700}$

Allowable leakage must be specified (AWWA C600).

3). Upon incorporation of the aforementioned changes and resubmittal to DEQ, a permit will be granted.

4). Questions and/or clarifications should be directed to Tom Hamm, (307) 777-7781.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-117M

Town of Elmo Lagoon System
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Elmo
(Last) (First) (Middle)
c/o Johnson-Fermelia & Crank, Inc.
P. O. Box 631
(Street or P.O. Box)
Kenmerer Wyoming 83101
(City) (County) (State)

to construct, install, or modify a Aerated Lagoon
facility located in Elmo, Wyoming
(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 A. Garland
Administrator
Water Quality Division
by [Signature]

Rover E. Austin
Director
Wyoming Dept. of Environmental Quality

April 7, 1978
Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Elmo - "As Built" Plans of Aerated Lagoon System
Carbon County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-117M

REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, P.E.

DATE OF REVIEW: April 3, 1978

ACTION: AUTHORIZED

COMMENTS:

The "as built" plans are in accordance with the DEQ requirements.
See the attached letter.

file
Chron



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 3, 1978

The Honorable Leroy Swatter
P. O. Box 244
Town of Elmo, Wyoming 82327

Dear Mayor Swatter:

Our office has reviewed the "as constructed" plans of Elmo's aerated lagoon system, submitted by Johnson-Fermelia and Crank, Inc. in Kemmerer.

The review revealed that the "as built" plans and specifications are acceptable to our office. However, since the dike failure was evidently caused by inadequate compaction procedures, the repair of tunneling and settlement of embankments shall be performed in accordance with the approved specifications.

It should, also, be noted that any modifications, including the ones caused by specific field situation, must be fully acknowledged by the Department of Environmental Quality engineer before any alteration will be made.

If you have any questions, please feel free to let us know.

Sincerely yours,

Dan H. Kim
Environmental Engineer
Water Quality Division

DHK/ks

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-118R

Rocky Hill No. 1 Sour Water Reservoir
(Name of Facility)

This permit hereby authorizes the applicant:

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

to construct, install, or modify a Evaporative Sour Water Reservoir
facility located in Section 16, T44N, R71W
(Legal Description)

in the County of Campbell, in the State of

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

Authorized by:

William P. Janda
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance

cc: Atlantic Richfield Company, Synthetic Crude & Minerals Division, Coal
Operations, ATTN: D. R. Christiansen, 1500 Security Life Building, 1616
Glenarm Place, Denver, CO 80202

js

REVIEW OF PLANS AND SPECIFICATIONS

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

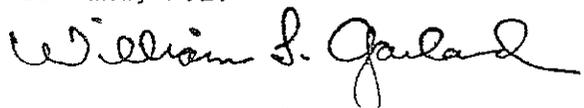
PROJECT: Rocky Hill No. 1, Sour Water Reservoir, Section 16,
T44N, R71W, Campbell County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-118

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

DATE OF REVIEW: April 4, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). This Department is quite concerned about the use of a clay liner. We would recommend the use of a synthetic liner with a leak detection system. If a clay liner is used, we need some very detailed back-ground data. (REF. "Guidelines for Wastewater Pond Construction Permit Applications" enclosed.).
- 2). Provide design calculations for determining free board of the pond.
- 3). Fencing should be provided. Details are needed.

Enclosure

GUIDELINES FOR WASTEWATER POND CONSTRUCTION PERMIT APPLICATIONS

AUTHORITY: Wyoming Water Quality Rules and Regulations, Chapter III

The following is a list of items which should be included in a construction permit application for wastewater ponds. These guidelines are general in nature and should not be construed as a complete application.

Certain applications having specific unique problems may require additional information and design data.

Any impoundment, diversion, or use of surface or underground water must have clearance of the Office of State Engineer, Barrett Building, Phone 307-777-7354, Cheyenne, WY 82002.

The application shall contain all applicable information listed below:

- I. Completed Permit Application Form
- II. Design Information
 - A. Wastewater Characteristics
 1. Physical, chemical, bacteriological and radiological
 2. State source of wastewater and an explanation of any process which affects wastewater characteristics.
 - B. Soil profiles noting groundwater depths, also percolation rates.
 - C. Engineering Design Information:
 1. Justify all aspects of facility design, (ie, all facts and estimations used in sizing treatment ponds, runoff diversion ditch, stormwater settling ponds, piping, etc.)
 2. Design calculations of the wave action utilized to establish freeboard of pond.
NOTE: Winds in Wyoming often reach 90 mph.
 - D. Discharging Facilities
 1. Must have applied for a discharge permit to determine effluent quality parameters that the treatment facility must meet.
(Contact DEQ-NPDES permit section)
 - E. General Geology (to the extent data is available, or required; not required for runoff settling ponds or artificial impervious lined ponds)
 1. Surface geology maps
 - a. areal distribution of formations or units
 - b. dip and strike
 - c. faults, dikes, and sills, other intrusives and extrusives

2. Stratigraphic information
 - a. columnar or stratigraphic section
 - b. lithologies of rock units
 - c. thickness of rock units
 3. Supporting information and documents
 - a. geologic reports of the area
 - b. information obtained from soil, percolation and other tests, geophysical surveys
- F. Hydrology (groundwater) (to the extent data is available or required; not required for runoff settling ponds or artificial impervious lined ponds)
1. Piezometric surface (water table) map
 2. Identification of aquifers
 - a. distribution and depth range
 - b. water quality
 - c. characteristics
 - d. aquifer-test data
 3. Water quality variations
 4. Locations of existing water wells and relevant data such as well completion information, yields, quality, water uses, etc.
 5. Any knowledge of future underground water development in the area? If yes, answer item 4 with regard to proposed uses, quantity, required quality, etc.

III. Plans and Specifications

1. Seal or signature of Wyoming licensed designing engineer.
2. Location map indicating location of facility, piping structures, waterways, drainage, etc.
3. Topography of area
4. Construction & installation procedures, (ie, compaction specifications, pipe installation, depth of pipe bury, pressure testing, etc.)
5. Details of all aspects of facility (dikes, control structures, treatment plant, pumping facilities, overflow or outfall structures, flow measuring devices, etc.)
6. Specifications for all materials used in the construction.

NOTES:

- A. A permit to discharge is required for the following mining-related wastewater discharge points:
1. All settling ponds which have an outfall structure and which receive any "mine water" (including underground water encountered while mining or during overburden removal).
 2. All settling ponds which have an outfall structure and which receive runoff from disturbed areas and which are not designed to hydraulically accommodate the runoff from a ten year - twenty four hour precipitation event.
 3. All facilities with a surface discharge which receive any sanitary waste.
- B. A permit to discharge is not required for the following mining-related wastewater discharge points:
1. Any facility which does not have a "point of discharge" (outfall structure).
 2. All settling ponds which receive runoff from disturbed areas only and which are designed to completely contain all of the runoff from a ten year - twenty four hour precipitation event.
- C. 1. All runoff settling ponds require control structures or accommodations to draw off supernatant five (5) days after a storm. Drawoff must be accomplished within fifteen (15) days after a storm.
- D. 2. Past experience has shown smooth outfall pipes protruding through a dike or embankment impounding water are extremely susceptible to washing out. Therefore, design consideration for cutoff structures should be provided as necessary.
- E. 3. Fencing may be required depending on nature of wastewater.
- F. 4. Ponds requiring artificial impervious liners will also require a leak detection system.
- G. 5. Latest technology for determining runoff for settling pond capacity shall be used. "Analysis of Runoff from Small Drainage Basins in Wyoming", U.S. Department of Interior, Geological Survey (Open file 77-727); "Techniques for Estimating Flow Characteristics of Wyoming Streams", PB-264 224 Geological Survey, Cheyenne, Wyoming, Water Resources Division.

All application correspondence should be mailed to:

Department of Environmental Quality
Water Quality Division
Hathaway Building
Cheyenne, WY 82002

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-119

N. L. Baroid Petroleum Services
(Name of Facility)

This permit hereby authorizes the applicant:

Coleman Custom Service
(Last) (First) (Middle)
345 Oregon Trail - Mountain View Addition
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 34, T34N, R80W
(Legal Description)

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

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

Authorized by:

William P. Galand
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-120M

Town of Medicine Bow
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Medicine Bow
(Last) (First) (Middle)
c/o Banner Associates
P. O. Box 550
(Street or P.O. Box)

Laramie Albany Wyoming 82070
(City) (County) (State)

to construct, install, or modify a Wastewater Treatment
facility located in Medicine Bow, Wyoming
(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.

Recommend re-evaluation of the aerator mooring arrangement.

Authorized by:

William G. Garland
Administrator
Water Quality Division
by D. D. Smith

Robert E. Larkin
Director
Wyoming Dept. of Environmental Quality

April 7, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-121

Bitner Construction Company
(Name of Facility)

This permit hereby authorizes the applicant:

Bitner Construction Company
(Last) (First) (Middle)
Box 2205
(Street or P.O. Box)
Casper Natrona Wyoming 82601
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 32, T79W, R34N
(Legal Description)

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

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

Authorized by:

William S. Galand
Administrator
Water Quality Division

Robert E. Durbin
Director
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-122RR

Liquid Energy Corporation Gas Plant
(Name of Facility)

This permit hereby authorizes the applicant:

Liquid Energy Corporation

(Last) (First) (Middle)

P. O. Box 872

(Street or P.O. Box)

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

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

facility located in Section 10, T36N, R70W

(Legal Description)

in the County of Converse, in the State of

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

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

This permit does not cover the evaporation pit construction.

Authorized by:

William P. O'Leary
Administrator
Water Quality Division

Robert E. Linder
Director
Wyoming Dept. of Environmental Quality

June 6, 1978

Date of Issuance

J

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Liquid Energy Gas Plant Office Trailer, Section 10, T36N,
R70W, Converse County

ARCHITECT OR ENGINEER: Liquid Energy Corporation, ATTN: Eugene A. Johnson, P.E.,
P. O. Box 872, Douglas, Wyoming 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 78-122R

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

DATE OF REVIEW: May 17, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The ends of the leach line ends must be connected.
- 2). The evaporation pit receiving water from the gas-water separators is considered to be a waste disposal system by the Wyoming Water Quality Rules & Regulations, 1976, Chapter III and needs a Permit to Construct.

cc: Chinook Construction, Inc.
P. O. Box 819
Douglas, Wyoming 82633

April 6, 1978

Liquid Energy Corporation
P. O. Box 872
Douglas, Wyoming 82633

RE: Office Trailer
Wastewater Disposal System
Reference Number 78-122

Dear Sirs:

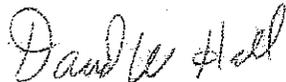
This office has received a set of plans and specifications for your proposed septic tank-leach field system.

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

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

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

Sincerely, -



David W. Hill
Environmental Engineer

DWH/do

cc

Enclosure: Chapter III

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-123

A M. Well Service
(Name of Facility)

This permit hereby authorizes the applicant:

Anderson Gerald
(Last) (First) (Middle)

P. O. Drawer 33
(Street or P.O. Box)

Riverton Fremont Wyoming 82501
(City) (County) (State)

to construct, install, or modify a Waste Treatment
facility located in Section 35, T47N, R93W
(Legal Description)

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

Authorized by:

William J. Garland
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 11, 1978

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-125R

Hines Addition
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Hines</u> (Last)	<u>James</u> (First)	<u></u> (Middle)
<u></u> (Street or P.O. Box)		
<u>Pinedale</u> (City)	<u>Sublette</u> (County)	<u>Wyoming 82941</u> (State)

to construct, install, or modify a Waste Collection and Water Distribution
facility located in Pinedale Wyoming
(Legal Description)

in the County of Sublette, 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. Gault
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance
cc: Rio Verde Engineering, ATTN: Robert Harrower, P.E., P. O. Box 67,
Pinedale, Wyoming 82941

JK

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Hines Addition - Pinedale, Wyoming
Sublette County

ARCHITECT OR ENGINEER: Rio Verde Engineering, P. O. Box 67, Pinedale,
Wyoming 82941

WATER QUALITY DIVISION REFERENCE NUMBER: 78-125

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

DATE OF REVIEW: April 19, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Submit application for permit to construct (copies enclosed).
- 2). Provide details of curb stop and drain and buffalo box, (stop and drains are not allowed).
- 3). Saddles are not allowed, wye branches should be used.
- 5). What is the size of the existing sewer line? Can this line handle the additional flows?
- 6). The leakage tests should be from manhole to manhole.
- 7). There should be specifications for the prevention of excessive sidefill pressures and ovalation of the pipe.
- 8). Provide specifications for the Driscopipe 1000 Municipal sewer pipe.
- 9). Provide a letter from the Town of Pinedale indicating they will provide service.
- 10). Due to the number of comments, this cannot be considered a final review.

Enclosure: Application for Permit to Construct (2)

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-126

Sunrise Hills 23 & 24 & Trunk Line
(Name of Facility)

This permit hereby authorizes the applicant:

Pearlmutter Jack
(Last) (First) (Middle)
c/o Worthington, Lenhart & Carpenter
632 South David
(Street or P.O. Box)

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

to construct, install, or modify a Sewer Collection System
facility located in Section 21, T33N, R79W
(Legal Description)

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

Authorized by:

William S. Janda
Administrator
Water Quality Division

Robert E. Austin
Director
Wyoming Dept. of Environmental Quality

April 3, 1978

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

J

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Texas Gulf Sewage Treatment (Red Desert Site)
Fremont County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-127

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

DATE OF REVIEW: May 3, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The proposed influent weir is confusing. Does the PVC pipe pass through the weir? How can you accurately measure the head above the weir crest? The NPDES permit would require the measurement of the discharge flow within + 10% of the true flow. It would require analysis of influent and effluent for BOD and TSS.
- 2). What is the elevation of the ground water in the area of the lagoon?
- 3). What type of soils are there in the area of the lagoon?
- 4). How is the liner installed and how much bentonite will be used?
- 5). The inlet pipe must provide a scouring velocity. A disc shaped splash apron may be considered.
- 6). Are there seepage stops on the equalized and overflow pipes?
- 7). How is the depth in the ponds controlled?
- 8). Are there any provisions for selective draw off?
- 9). Final pond drawoff should not be on the pond bottom.
- 10). Are the ponds located in the 100 year flood zone? If so, what provisions are there to prevent flooding?
- 11). Due to the number of comments, this cannot be considered a final review.

cc: J. H. Ogg

May 4, 1978

J. H. Ogg
Manager - Administration
Minerals Exploration Division
Texasgulf Inc.
5934 McIntyre Street
Golden, Colorado 80401

REF: Notice of Violation Docket No. 341-78 and Application
for Permit to Construct No. 78-127

Dear Mr. Ogg:

We have received an application to modify the waste water treatment facility located in Section 12, T 27 N, R 93 W, Fremont County. The plans and specifications only showed new construction details and not the as-built system required in the Notice of Violation. We will still need the as-built drawings of the collection system.

Enclosed is the review of the application number 78-127. If you have any questions, please contact this office.

Sincerely,


Roy E. Prior
Environmental Engineer

REP/do

cc: C. E. Spurlock, Jr. and Associates
P. O. Box 0
Lander, Wyoming 82520



THE STATE OF WYOMING



HERSCHLER GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE, SUITE 301

SHERIDAN, WYOMING .82801

TELEPHONE 307-672-6457

February 22, 1982

Scott Engineering
P.O. Box 2097
Gillette, Wyoming

Gentlemen:

Our records indicate the application for a permit to construct, Reference Number 78-128RR, Texas Trail Subdivision, Water and Sewer, Moorcroft, has not been resubmitted to this office. Please indicate below the status of the application.

- X The application will not be resubmitted. The application is to be removed from DEQ files.
The application will be resubmitted within 30 days.
The facility has been constructed, or is under construction.
Other remarks

If this letter is not returned within 30 days, your application will be removed from our files.

Sincerely,

Lea Stoneburner

Lea Stoneburner
Administrative Assistant

Is

CERTIFIED MAIL - RETURN RECEIPT

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Texas Trail Subdivision, Water & Sewer, Moorcroft, Crook County.

ARCHITECT OR ENGINEER: Scott Engineering, ATTN: Wayne Haug
P.O. Box 2709, Gillette, Wyo 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-128RR

REVIEWING ENGINEER: Dan H. Kim, Tom Mueller

DATE OF REVIEW: 4/19/79

ACTION: Not authorized for construction (see the comments).

COMMENTS:

1. Installation of the booster pump station in the subsurface pit should be avoided. Pumping station shall be located and designed in accordance with Section 6 of the 10 states standards for water works.
2. The following comments on the booster pump stations need to be addressed:
 - a. Detail drawing of the booster station shows two discharge lines from the pumps, whereas sheet no. 2 called for one discharge line. Please clarify.
 - b. Please provide material specifications for pressure control valves (PCV).
 - c. What is the preset pressure of the pressure switch?
 - d. How will the lead pump be prevented from being turned on and off too often, due to the pressure fluctuation in the distribution system?
 - e. Why is there additional PCV needed at the distribution line where each pump has an individual PCV at its discharge line?



mailed
10/20/78

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Texas Trail Subdivision, Water & Sewer, Crook County

ARCHITECT OR ENGINEER: Scott Engineering, ATTN: Wayne P. Haug
P.O. Box 2709, Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-128R

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

DATE OF REVIEW: 10/22/78

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Our records do not indicate that this Department has received a letter from the Town of Moorcroft.
2. A final review will not be made until the drawings and detailed information concerning well construction and well house will be provided.
3. Ten State Standards indicate that the well capacity shall equal or exceed the design maximum daily demand and equal or exceed the design average day demand with the largest producing well out of service.

When the well is drilled, yield and draw down tests are to be performed, and the sustained yield of the well is to be reported to this Division. If the well does not provide a sustained yield of approximately 65 gpm, the second well must be drilled.
4. All water supplies are required to have an ability for disinfection. Minimum detention time of 30 minutes is needed for groundwater source. Please provide details.
5. Your specifications concerning separation of water & sewer lines still does not meet our Chapter III Regulations. Should local conditions prevent a vertical separation of at least 18 inches between the bottom of the water main and the top of the sewer, the sewer lines shall be constructed of special water class type material for at least ten feet on each side of the crossing. Adequate structural support is also needed for all sewer lines laid over water lines.
6. Although your letter indicates that the water line will not be connected to the Moorcroft system, The vicinity sketch shows that this line is tied to the city system. Please clarify.

7. Revised drawings, showing the new 6" line connecting between Blk 4 and Blk 5, added water valves, added manholes, etc. should be provided.
8. Since there exist low pressure areas, a booster pressure system is required. Please provide complete drawings and design data of the pressure system. It should be noted that individual home booster pump is prohibited.

Water Storage Tank

9. What is the elevation overflow pipe?
10. The overflow drain pipe from the tank should be down turned, screened, and terminate at least 12-18 inches above the ground surface. Please show the details.
11. Is a removable silt stop to be provided in the tank?
12. Please discuss how this water system is controlled. Show the control system. Are low-level warning or alarms provided? Also indicate the high and low water levels in the tank.
13. Please state the size of the casing pipe.
14. Due to the number of comments, This cannot be considered a final review.

fs

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Texas Trail Subdivision, Water & Sewer, Moorcroft, Wyoming
Crook County

ARCHITECT OR ENGINEER: Scott Engineering Company, ATTN: Wayne P. Haug, P.E.,
P. O. Box 2709, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-128

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

DATE OF REVIEW: April 17, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

William L. Garland

COMMENTS:

GENERAL

- 1). A letter is needed from the Town of Moorcroft indicating that they will provide sewer service for this subdivision.
- 2). Complete design criteria is needed for sizing (storage tank, well, etc.).
- 3). Provide specifications covering the separation of water mains and sewer mains and service lines, both parallel and crossing each other.

WATER SYSTEM

- 4). Another line is needed to connect the two halves of the system together.
- 5). You indicated by telephone conversation on April 6th that this water system would not be connected to the Moorcroft system. Will this line end in a hydrant or be looped now?
- 6). Valves should be located at not more than 800 foot intervals in order to minimize inconvenience and sanitary hazards during water main repair (Homestead Drive).
- 7). All fire hydrants should have one 4-1/2 pumper nozzle in addition to two 2-1/2 inch nozzles.
- 8). Indicate maximum and minimum pressures available in the system.

PROJECT: Texas Trail Subdivision - Water & Sewer

WATER QUALITY REFERENCE NUMBER: 78-128

WATER SYSTEM (CONT)

- 9). Complete drawings and/or specifications are needed for the tank foundation, well, storage tank overflow and drain, yard piping, etc.
- 10). Manufacturer's information is requested on the bolted steel storage tank.

SEWER SYSTEM

- 11). Manholes shall not be located more than 400 feet apart.
- 12). Indicate the highway casing material and strength.
- 13). How will the casing ends be closed.
- 14). Skids are needed for pulling the pipe through and for keeping the bells of the pipe off the casing bottom. Provide details.
- 15). This cannot be considered a final review.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-129MR

Town of Lyman Sewerage Facilities Project
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Lyman</u>		
(Last)	(First)	(Middle)
<u>c/o Uinta Engineering & Surveying</u>		
<u>P. O. Box 746 - 808 Main Street</u>		
(Street or P.O. Box)		
<u>Evanston</u>	<u>Uinta</u>	<u>Wyoming 82930</u>
(City)	(County)	(State)

to construct, install, or modify a Sewerage
facility located in Lyman Wyoming
(Legal Description)

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

Authorized by:

William J. O'Connell
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

April 19, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Lyman - Sewerage Facilities Project
Uinta County

ARCHITECT OR ENGINEER: Uinta Engineering & Surveying, 808 Main Street,
P. O. Box 746, Evanston, Wyoming 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 78-129MR

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

DATE OF REVIEW: April 19, 1978

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Relative to OSHA. We submit them to OSHA where deemed necessary.

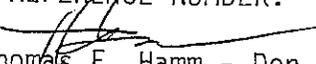
REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Lyman - Sewerage Facilities Project
Uinta County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-129M

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

DATE OF REVIEW: March 22, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:
SPECIFICATIONS

SGC 8.09.a

This specification contains no soil data nor did the step I plan; however in the step I it was stated that the soil was very porous thereby necessitating a bentonite lining. The cell must be lined or the required soils data provided to show that no lining is required.

SGC 8.09.b

The outlet structures are not delineated on the drawings.

SGC 8.13

What type wire will be used and where are details?

20-3.02

When lines are broken they shall be repaired to the engineers satisfaction.

21-2.02

Change SDR 42 to SDR 41, ASTM D3033 covers only SDR 41 and 35.

52.1

What voltages and how many phases are required?

PAGE 2

PROJECT: Town of Lyman - Sewerage Facilities Project
Uinta County

WATER QUALITY REFERENCE NUMBER: 78-129M

DRAWINGS

Sheet 14

On line F-b and F-c delineate the canal (ditch) crossing.

Sheet 19

Line I-No must be 10 in. vice 8 in. There is an 8 in. and a 10 in. line feeding this line. An alternate would be to use the existing 8 in. instead of abandoning it if it is still tight and useable.

Sheet 21

Where and how will chlorination be accomplished?

Sheet 22

Details of the two outfall structures and installation are not shown. The outlets must allow for varying operating depths. The cell corners should be rounded. There are insufficient details for the chlorination equipment.

1. What type bedding and/or ground preparation is required for the flumes, the buildings and the contact chamber?
2. How will the electrical power be run to the aerators and into the control building. What type instrumentation is planned other than the flow recorders?
3. Have these plans received OSHA approval?
4. No data or requirements for sewer line-water line clearances and crossing is presented in the specifications or on the drawings.
5. This cannot be construed as a final review.
6. Any question and/or clarification should be directed to Tom Hamm, (307) 777-7781.

A,B

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-130R

NPDES 001 - Eagle Butte Mine
(Name of Facility)

This permit hereby authorizes the applicant:

AMAX Coal Company, A Division of AMAX, Inc.
(Last) (First) (Middle)
P. O. Box 3005
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Stormwater Runoff Settling Pond
facility located in Section 16, T51, R72W
(Legal Description)

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

Authorized by:

William S. Qalad
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-131R

NPDES 005 - Eagle Butte Mine
(Name of Facility)

This permit hereby authorizes the applicant:

AMAX Coal Company, A Division of AMAX, Inc.
(Last) (First) (Middle)

P. O. Box 3005
(Street or P.O. Box)

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

to construct, install, or modify a Stormwater Runoff Settling Pond
facility located in Section 16, T51N, R72W
(Legal Description)

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

Authorized by:

William S. Gaudin
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 78-132R

NPDES 002 - Eagle Butte Mine
(Name of Facility)

This permit hereby authorizes the applicant:

AMAX Coal Company, A Division of AMAX, Inc.
(Last) (First) (Middle)

P. O. Box 3005
(Street or P.O. Box)

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

to construct, install, or modify a Stormwater Runoff Settling Pond
facility located in Section 21, T51N, R72W
(Legal Description)

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

Authorized by:

William J. Galand
Administrator
Water Quality Division

Robert E. Lardin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978
Date of Issuance

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-133R

NPDES 004 - Belle Ayr Mine
(Name of Facility)

This permit hereby authorizes the applicant:

AMAX Coal Company, A Division of AMAX, Inc.
(Last) (First) (Middle)
P. O. Box 3005
(Street or P.O. Box)
Gillette Campbell Wyoming 82716
(City) (County) (State)

to construct, install, or modify a Stormwater Runoff Settling Pond
facility located in Section 33, T48N, R71W
(Legal Description)

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

Authorized by:

William P. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978
Date of Issuance

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REVIEW OF PLANS AND SPECIFICATIONS

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

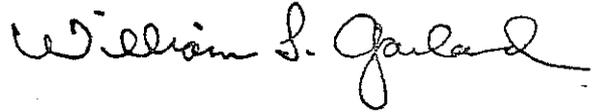
PROJECT: Amax Coal Company-Eagle Butte Mine
Section 16, 21, 33, T51N, R72W, Campbell County

ARCHITECT OR ENGINEER: Amax Coal Company, ATTN: Jack L. Lautenschlager, P.E.,
P. O. Box 3005, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-130, 78-131, 78-132, 78-133

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

DATE OF REVIEW: April 5, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Compaction specifications are needed for all dikes and fills.
- 2). The discharge permit requires flow measurement. Provide details.
- 3). This Department is concerned about the use of a dirt-riprap spillway. How will erosion be prevented, especially around the flow measuring structure? A permanent facility such as concrete or asphalt lined ditch should be considered.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-134R

Gilpatrick Sanitary Sewer Extension

(Name of Facility)

This permit hereby authorizes the applicant:

City of Riverton

(Last)

(First)

(Middle)

P. O. Box 1700

(Street or P.O. Box)

Riverton

(City)

Fremont

(County)

Wyoming 82501

(State)

to construct, install, or modify a Wastewater Collection

facility located in Section 32, T1N, R4E

(Legal Description)

in the County of Fremont,

in the State of

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

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

Authorized by:

William J. Galar
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 24, 1978

Date of Issuance

cc: R. D. Connell & Associates, Inc., P. O. Box 1010, Riverton, WY 82501

8

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Gilpatrick Sanitary Sewer Extension, Section 32, T1N, R4E,
Fremont County

ARCHITECT OR ENGINEER: R. D. Connell & Assoc. Inc., P. O. Box 1010,
Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 78-134

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

DATE OF REVIEW: April 27, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The water and sewer crossings do not meet the requirements of Section 15, Chapter III, Water Quality Rules and Regulations.
- 2). The infiltration rate specified for the sewer line is greater than allowed in Ten State Standards.
- 3). Provide exfiltration specifications.
- 4). Infiltration and exfiltration specifications should be for each section of the pipe (i.e. manhole to manhole).
- 5). Provide specifications to prevent excessive sidefill pressure and ovalation of the pipe.
- 6). Compaction by jetting is not recommended. It will not be authorized unless the following conditions are met:
 - a. Types of native soils allowed are specified and these soils are conducive to jetting.
 - b. The backfill and bedding material is conducive to jetting.
 - c. The exact method for performing the jetting is specified.
- 7). This cannot be considered a final review.

cc: City of Riverton, P. O. Box 1700, Riverton, Wyoming 82501

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 78-135

Roger Geer Mobile Home Park
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Geer</u> (Last)	<u>Roger</u> (First)	<u></u> (Middle)
<u>1819 Robertson Avenue</u> (Street or P.O. Box)		
<u>Worland</u> (City)	<u>Washakie</u> (County)	<u>Wyoming 82401</u> (State)

to construct, install, or modify a Sewage Collection and Water Distribution
facility located in Section 30, T47N, R92W
(Legal Description)

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

Authorized by:

William P. Galand
Administrator
Water Quality Division

Robert E. Dunbar
Director
Wyoming Dept. of Environmental Quality

April 24, 1978

Date of Issuance

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



MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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

July 19, 1988

Willie Harrop
Bowen Tools, Inc.
P O Box 850
Mills, Wyoming 82644

Re: Bowen Tools, Inc., Natrona County, Wyoming, Ref. No. UIC 78-136

Dear Mr. Harrop:

The Water Quality Division (WQD) has received the requested materials submitted under a cover letter dated April 14, 1988 from Bowen Tools. A review of this information prompts the following comments and questions:

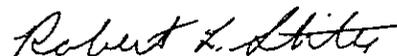
1. Systems that dispose of wastes to the ground through drainfields or leachfields are, by definition, class V injection wells. Two such facilities exist at the Bowen site. The system on the south side of the building apparently receives only septic waste and is not of concern at this time. The system north and west of the building is and has been capable of receiving industrial wastes from the oil tool servicing and other activities at the site.
2. Has it always been Bowen's practice to recycle the intensifier fluids and spent oil?
3. Many of these substances contain chemicals that dissolve in water and may have been discharged to the drainfield with the dirty water.
4. This information, plus results from similar facilities in the area, suggest a significant possibility of groundwater contamination.

It is requested that Bowen obtain water samples from the northern system as close to the drainfield distribution as possible. These should be analyzed by EPA

Willie Harrop
July 19, 1988
Page 2

Methods 624 and 625 and the results will be used to evaluate possible mitigative actions Bowen may need to undertake. If you have any questions or comments please call this office at (307) 777-7781 during business hours.

Sincerely,



Robert Stites
Groundwater Engineering Evaluator
Water Quality Division

RS/jt

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-136

Bowen Tool Company, Inc.
(Name of Facility)

This permit hereby authorizes the applicant:

Bowen Tool Company, Inc.
(Last) (First) (Middle)

P. O. Box 850
(Street or P.O. Box)

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

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 34, T34N, R80W
(Legal Description)

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

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

Authorized by:

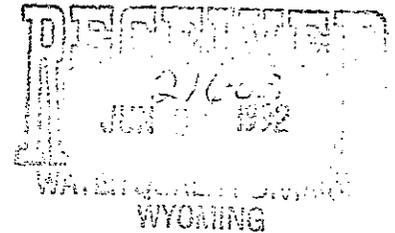
William S. Galand
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

April 5, 1978

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

MEMORANDUM



MEMO TO: FILES

FROM: ROBERT LUCHT, UIC PROGRAM SUPERVISOR 

DATE: JUNE 2, 1992

SUBJECT: BOWEN OIL TOOLS INDUSTRIAL DRAINFIELD

1. There are two permits issued to Bowen Oil Tools, 78-136 and 78-146. After checking the plans submitted with both of these permits I find that they are both intended to cover an installation at the corner of 6 Mile Road and 6 NW Road in Casper, specifically Lot 21, Westgate Park I. That particular description is found on both sets of plans. Unfortunately, Lot 21, Westgate Park I is located in Section 33, T34N, R80W according to the County Address Book. Permit 78-136 shows the legal description in Section 34 and 78-146 shows it in Section 28. Both are wrong. There is only one facility located at 2242 North 6 Mile Road. Since both of these permits were issued on the same day it is unclear which permit actually was used in construction. For purposes of the UIC program, the facility is referred to as WQD 78-146.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-137R

Alcova Water Company
(Name of Facility)

This permit hereby authorizes the applicant:

Alcova Acres Investment Company
(Last) (First) (Middle)

5017 Alcova Route - Box 6
(Street or P.O. Box)

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

to construct, install, or modify a Water Distribution System
facility located in Section 22-27, T33N, R80W
(Legal Description)

in the County of Natrona, in the State of

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

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

Authorized by:

William F. Garland
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 17, 1978

Date of Issuance

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

2

REVIEW OF PLANS AND SPECIFICATIONS

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

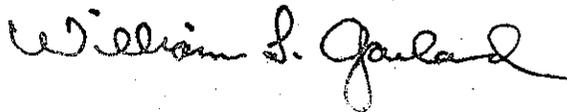
PROJECT: Alcova Acres Investment - Westland Park No. 3
Section 22-27, T33N, R80W - Natrona County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-137

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

DATE OF REVIEW: April 19, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Pressure testing-leakage testing must last no less than two (2) hours.
- 2). In any system utilizing fire protection, all new lines must be no less than six (6) inches in size.

ff

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Leavitt Travel Park, c/o A. Ross Leavitt,
P. O. Box 211, Tihayne, Wyoming 83127

ARCHITECT OR ENGINEER: NONE

WATER QUALITY DIVISION REFERENCE NUMBER: 78-138

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

DATE OF REVIEW: March 28, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The plans as submitted to the Water Quality Division do not meet the minimum requirements to start the review process.

The plans and specifications must be signed by an engineer registered in the State of Wyoming. The plans and specifications must contain the information required in our Chapter III Regulations (copy enclosed).

Please submit three copies of your revised plans and specifications.

ENCLOSURES

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. EDA 78-139MR

Town of Jackson - Phase 2 - Pumphouse
(Name of Facility)

This permit hereby authorizes the applicant:

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

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

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

Authorized by:

William S. Janda
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

April 17, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Town of Jackson, Water System Improvements, Schedule
2, Pumphouse - Teton County

ARCHITECT OR ENGINEER: Nelson Engineering, Box 1141, Jackson, Wyoming 83001
ATTN: David A. Violette

WATER QUALITY DIVISION REFERENCE NUMBER: EDA 78-139M

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

DATE OF REVIEW: March 24, 1978 .

ACTION: -- NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:
DRAWINGS

Sheet 2-1

- South Elevation - Door for chlorination room must have/be glass.
- Pump Room doors must open outward.
- Plan view - west wall of chlorine room, chain and hooks required for extra chlorine tanks.
- Require a minimum of 230 CFM fan for ventilation.

Sheet 2-2

- A jig or eyebolt on the ceiling should be considered to facilitate pulling the pump motor.
- Is the overhead opening large enough to facilitate pulling the pump?

Sheet 2-3

- Electrical detail - the light and fan in the chlorine room must be activated when the door is opened and must also be switchable.
- Where are the thermostats to be located?
 - The electrical heater is not optimally located.
 - There must be a positive ventilation system (fan of 230 CFM minimum).
 - The outlet receptacles and pump must have ground fault protection.

PROJECT: Town of Jackson, Water System Improvements, Schedule
2, Pumphouse - Teton County

WATER QUALITY REFERENCE NUMBER: EDA 78-139M

Chlorination Room Equipment - The exhaust fan is too high. A maximum of 12 inches above the floor. The fan could be located lower and a duct used or the fan and inlet louvers switched.

- There is no drain for the booster pump or in the room.
- Two feeders are required.
- An alarm system is required. It should be tied into the telemetry system.
- No eye wash facility is called out.

In general the requirements of Section 5, CHEMICAL APPLICATION of the "10 State Standards" are not met.

Chlorine diffuser - what class are the welds?

Profile - there are no drains for pump seepage and the floor,
- Where does the drain in the chlorination manhole drain to?

Recommend the welding of the control valve return line to the well casing be evaluated/considered. This would minimize chances of groundwater pollution and minimize any problems with the connection.

There is no potable water tap in the building.

Sheet 2-4

Recommend a volt meter and ammeter, switchable for monitoring all three phases be installed. These will allow the monitoring of the motor operation and foreseeing motor problems before failure or reduced operation is achieved. The service life of the motor and pump can be extended by being able to see changes in the operational characteristics.

SPECIFICATIONS

Items not meeting requirements covered in the specification but not applicable to this contract will not be commented on. Lack of comments cannot be construed as tacit approval.

Page 4-4

PVC pipe - must as a minimum, meet AWWA standards.

Page 4-7

Gages should have been calibrated within 90 days. Maximum allowable leakage IAW AWWA standards.

PROJECT: Town of Jackson, Water System Improvements, Schedule
2, Pumphouse - Teton County

WATER QUALITY REFERENCE NUMBER: EDA 78-139M

Page 4-11

J - change "10 ppm" to "25 ppm".

Page 4-21

Pipe supports - change "where necessary" to "as delineated on the drawings".

Page 4-38

"Leaded" paints should be covered.

Page 4-44

Add "ground fault protection" requirements.

Page 4-46

Heaters should be 220^v 1- \emptyset or 3- \emptyset vice 110-volt.

Page 4-47

Add exhaust fan for main room IAW "10 State"...

This may not be construed as a final review.

Comments, questions and/or clarifications should be directed to Tom Hamm,
(307) 777-7781.

A,B

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-140R

Primary Settling Pond
(Name of Facility)

This permit hereby authorizes the applicant:

Cordero Mining Company

(Last) (First) (Middle)

P. O. Box 1449

(Street or P.O. Box)

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

to construct, install, or modify a Stormwater Runoff Settling Pond
facility located in Section 25 & 26, T47N, R71W
(Legal Description)

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

Authorized by:

William S. Jones
Administrator
Water Quality Division

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

May 12, 1978

Date of Issuance
cc: Cooper-Clark & Associates, P. O. Box 2232, Gillette, Wyoming 82716
ATTN: Donald E. Clark, P.E.

7

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cordero Mining Settling Pond, Section 25 & 26, T47N, R71W
Campbell County

ARCHITECT OR ENGINEER: Donald E. Clark, P.E. - Cordero Mining Company,
P. O. Box 1449, Gillette, Wyoming 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 78-140

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

DATE OF REVIEW: April 20, 1978

William L. Garland

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). Please indicate the soil type in the reservoir and embankment. Also expected percolation rates for the soils.
- 2). Compaction specifications are needed for the embankment.
- 3). Indicate the depth to the groundwater in the reservoir area.
- 4). Please provide information on the water stage recorder.
- 5). Will seepage collars be needed on the CMP culvert?

cc: Cooper-Clark & Associates
ATTN: Donald E. Clark, P.E.
P. O. Box 2232
Gillette, Wyoming 82716

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-142R

Bird Construction Shop
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Bird</u> (Last)	<u>Donald</u> (First)	<u>S.</u> (Middle)
<u>P. O. Box 1363</u> (Street or P.O. Box)		
<u>Laramie</u> (City)	<u>Albany</u> (County)	<u>Wyoming 82070</u> (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 21, T16N, R73W
(Legal Description)

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

Authorized by:

William S. Ojala
Administrator
Water Quality Division

Robert E. Sundin
Director
Wyoming Dept. of Environmental Quality

May 2, 1978

Date of Issuance

April 6, 1978

Donald S. Bird
P. O. Box 1363
Laramie, Wyoming 82070

RE: Bird Construction Inc.
Shop & Office Wastewater
Disposal System - Reference
Number 78-142

Dear Mr. Bird:

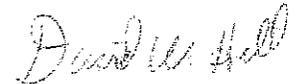
This office has received a set of plans and specifications for the proposed septic tank-leach field system.

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

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

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

Sincerely,



David W. Hill
Environmental Engineer

DWH/do

cc

Enclosure: Chapter III



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

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
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May 6, 1988

Bill Schimpf
IRI International Corporation
P O Box 1307
Casper, Wyoming 82602

RE: Drainfields located at 3273 N. I-25 Frontage Road 10081 Landmark Lane, Permit 78-143, Casper, Natrona County, Wyoming.

Dear Mr. Schimpf:

The drainfield at 10081 Landmark Lane can be handled by immediately sealing the floor drains where they connect to the septic system. This should be done so that the plug is permanent and non-removable. Please contact us when this is accomplished so that we can inspect the final work. If you elect not to seal this drain, you will have to follow a similar procedure as for your other facility as outlined below.

The drainfield at your other facility, located at 3273 North I-25 frontage road represents a clear potential threat for groundwater contamination. If you wish to continue using this facility, would you please sample the distribution box and have it analyzed by EPA methods 624 and 625? The local labs in Casper can take the sample for you and make these analyses. The cost of these analyses is approximately \$850.00. This analyses is the first step toward obtaining a UIC permit for this facility. Based on these results I will be contacting you with forms and other requirements for this permit.

Sincerely,

Robert Lucht, P.E.
UIC Program Supervisor
Water Quality Division

RL/jt

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-143R

Cabot Corporation
(Name of Facility)

This permit hereby authorizes the applicant:

Cabot Corporation
(Last) (First) (Middle)
Mountain View Addition
(Street or P.O. Box)
Mills Natrona Wyoming 82644
(City) (County) (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 20, T34N, R79W, SE $\frac{1}{4}$, SE $\frac{1}{4}$
(Legal Description)

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

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

Authorized by:

William L. Ireland
Administrator
Water Quality Division
By Jake Anderson

Robert E. Lundin
Director
Wyoming Dept. of Environmental Quality

April 10, 1978

Date of Issuance

cc: Worthington, Lenhart & Carpenter, ATTN: E. C. Lenhart, P.E., 632 South David,
Casper, Wyoming 82601

js

REVIEW OF PLANS AND SPECIFICATIONS

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

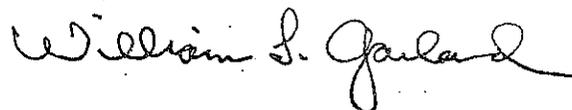
PROJECT: Cabot Corporation, Waste Treatment Facility, SE $\frac{1}{4}$, SE $\frac{1}{4}$,
Section 20, T34N, R79W, Natrona County

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

WATER QUALITY DIVISION REFERENCE NUMBER: 78-143

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

DATE OF REVIEW: April 3, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). The leach bed serving the wash water sump system must be sized at least 150% larger than if a leaching trench system were used. At a 27 minute/inch percolation rate, with an effluent flow of 500 gallons per day, you would need at least 780 square feet of leaching area in a leaching bed.
- 2). Indicate location of well, if any, or water line.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-144

Steel Structures for TOTCO Corporation

(Name of Facility)

This permit hereby authorizes the applicant:

TOTCO

(Last)

(First)

(Middle)

c/o Worthington, Lenhart & Carpenter
632 South David

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

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

facility located in Section 34, T34N, R80W

(Legal Description)

in the County of Natrona, in the State of

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

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

Authorized by:

William S. Galar

Administrator
Water Quality Division

Robert E. Auer

Director
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-145

Caspar Metal Buildings

(Name of Facility)

This permit hereby authorizes the applicant:

Caspar Metal Buildings

(Last)

(First)

(Middle)

513 North Lennox

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

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

facility located in Section 32, T34N, R79W

(Legal Description)

in the County of Natrona, in the State of

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

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

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

Authorized by:

William J. Galand

Administrator

Water Quality Division

Robert E. Lunden

Director

Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

cc: E. C. Lenhart, P.E. Worthington, Lenhart & Carpenter, Inc., 632 South David,
Casper, Wyoming 82601

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-146

Bowen Tool Corporation

(Name of Facility)

This permit hereby authorizes the applicant:

Bowen Tool Corporation

(Last)

(First)

(Middle)

1801 6 North Road

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

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

facility located in Section 28, T34N, R80W

(Legal Description)

in the County of Natrona, in the State of

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

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

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

Authorized by:

William S. Jala

Administrator

Water Quality Division

Robert E. Lundin

Director

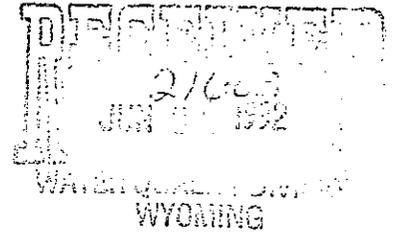
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

cc: E. C. Lenhart, P.E., Worthington, Lenhart & Carpenter, Inc., 632 South David,
Casper, Wyoming 82601

MEMORANDUM



MEMO TO: FILES

FROM: ROBERT LUCHT, UIC PROGRAM SUPERVISOR 

DATE: JUNE 2, 1992

SUBJECT: BOWEN OIL TOOLS INDUSTRIAL DRAINFIELD

1. There are two permits issued to Bowen Oil Tools, 78-136 and 78-146. After checking the plans submitted with both of these permits I find that they are both intended to cover an installation at the corner of 6 Mile Road and 6 NW Road in Casper, specifically Lot 21, Westgate Park I. That particular description is found on both sets of plans. Unfortunately, Lot 21, Westgate Park I is located in Section 33, T34N, R80W according to the County Address Book. Permit 78-136 shows the legal description in Section 34 and 78-146 shows it in Section 28. Both are wrong. There is only one facility located at 2242 North 6 Mile Road. Since both of these permits were issued on the same day it is unclear which permit actually was used in construction. For purposes of the UIC program, the facility is referred to as WQD 78-146.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-147

Commercial Flooring Sewage System
(Name of Facility)

This permit hereby authorizes the applicant:

Foose Construction
(Last) (First) (Middle)
280 North American Road
(Street or P.O. Box)
Cheyenne Laramie Wyoming 82001
(City) (County) (State)

to construct, install, or modify a Septic Wastewater
facility located in Section 27, T14N, R66W
(Legal Description)

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

Authorized by:

William L. Garland
Administrator
Water Quality Division
by John Stokman

Robert E. Hendon
Director
Wyoming Dept. of Environmental Quality

April 12, 1978

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 78-149

Phillip Kudlock Landscaping Store
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Kudlock</u> (Last)	<u>Phillip</u> (First)	<u>A.</u> (Middle)
<u>(Street or P.O. Box)</u>		
<u>Four Corners</u> (City)	<u>Weston</u> (County)	<u>Wyoming 82715</u> (State)

to construct, install, or modify a Septic Tank - Leach Field
facility located in Section 28, T45N, R61W
(Legal Description)

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

Authorized by:

William P. O'Quinn
Administrator
Water Quality Division

Robert E. Scudino
Director
Wyoming Dept. of Environmental Quality

May 2, 1978

Date of Issuance

cc: Plains Engineering, ATTN: Robert C. Hartley, P. O. Box 727, Newcastle,
Wyoming 82701

April 6, 1978

Mr. Frank Torrence
1200 West Street
Douglas, Wyoming 82633

RE: Trailer Court Sewage
Disposal System - Re-
ference Number 78-150

Dear Mr. Torrence:

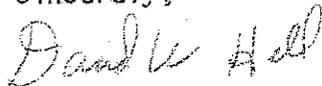
This office has received the plans and specifications for your proposed four trailer wastewater disposal system.

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

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

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

Sincerely,



David W. Hill
Environmental Engineer

DWH/do

cc: Converse Septic Tank Service, P. O. Box 813, Douglas, Wyoming 82633
Enclosure: Chapter III