



View East



w.w. spilling out of riser pipe

WISCONSIN DEPARTMENT OF ENVIRONMENTAL QUALITY

Subject Leach field failure

Location Crossed Arrows Park Subd. N. of Meeteetse County Park

Date: 6/10/91

Photographer Jeff Kernovich

Witness none

Location of Negatives Zander

File No. _____



wastewater "pool"
view to west



drainage

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER CONTROL DIVISION

Subject: wastewater below field
Leach field
Location: Crossed Arrows Park N. of Meeteetse

County: Park

Date: 6/10/91

Photographer: Jeff Hermanson

Witness: me

Operator: Lander



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848

Air Quality Division (307) 332-6755	Land Quality Division (307) 332-3047	Solid Waste Management Program (307) 332-6924	Water Quality Division (307) 332-3144
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CERTIFIED P 404 490 718

February 11, 1992

Mr. Lee Christiansen
Vision Quest Estates, Inc.
P.O. Box 4
Meeteetse, Wyoming 82433

re: Crossed Arrows Park Subdivision

Dear Mr. Christiansen:

On June 10, 1991 I investigated a complaint that sewage was being discharged onto the ground at the Crossed Arrows Park Subdivision. I found and photographed sewage discharging from a pipe which appeared to be an inspection port for monitoring wastewater levels in the disposal field which is located along Saddle Hill Road. The sewage covered a large area and extended to a drainage east of the field. The disposal field is clearly failing.

W.S. 35-11-301(a)(i.) and Chapter II of the Wyoming Water Quality Rules and Regulations provide that no person, except when authorized by a permit issued pursuant provisions of the act, shall cause, threaten or allow the discharge of any pollution or wastes. The owners of the Crossed Arrows Park Subdivision are in violation of W.S. 35-11-301(a)(i.) and Chapter II for discharging without a permit.

Any person who violates any provision of the Environmental Quality Act, or any rule, standard, permit, license or variance adopted thereunder, is liable to a penalty of ten thousand (\$10,000) for each day of violation. Penalties may be recovered in a civil action brought by the Attorney General in the name of the People of the State of Wyoming.

The Department of Environmental Quality, Water Quality Division (DEQ/WQD) would prefer to resolve this violation without resorting to legal action. Therefore, you need to take steps to stop the discharge and develop a permanent solution for your sewage disposal in accordance with all the applicable regulations.

*Spoke to Steve Christiansen 2/13/92. He is responsible for subd. -
Lee Christiansen died in Jan. '92. Steve said beach field
was repaired in Oct. '91 and it ^{may have} only served one house.*

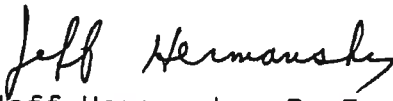
ACW
DEQ 0227

Mr. Lee Christiansen
Vision Quest Estates, Inc.
February 11, 1992
Page 2

Within 30 days of receipt of this letter, you must submit a schedule for compliance. Construction of a new disposal field or another type of treatment system must be completed in a timely manner. Please be aware that the DEQ/WQD must issue a permit to construct before construction begins and that an engineer licensed in Wyoming must sign the plans that are submitted.

Please contact either Steve Gerber or me if you have any questions.

Sincerely,


Jeff Hermansky, P. E.
Environmental Engineer

JH

xc: Tim Morrison, Park County Planner
Larry Robinson, DEQ/WQD, Cheyenne
file (2)

Items 1 and/or 2 for additional services.
 Items 3, and 4a & b.
 Name and address on the reverse of this form so that we can
 forward to you.
 Attach this form to the front of the mailpiece, or on the back if space
 permit.
 "Return Receipt Requested" on the mailpiece below the article number.
 Return Receipt Fee will provide you the signature of the person delivered
 at the time of delivery.

I also wish to receive the
 following services (for an extra
 fee):

1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

Addressed to:

Christiansen
 Vision Quest Estates, Inc.
 Box 4
 Meeteetse, WY 82433

4a. Article Number

P 404 490 718

4b. Service Type

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Registered | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Certified | <input type="checkbox"/> COD |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Return Receipt for
Merchandise |

7. Date of Delivery

Signature (Addressee)

Lee Christiansen

Signature (Agent)

8. Addressee's Address (Only if requested
 and fee is paid)

811, November 1990 *U.S. GPO: 1991-287-086

DOMESTIC RETURN RECEIPT

P 404 490 718

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

U.S. G.P.O. 1989-234-555

Sent to Lee Christiansen	
Street and No. Vision Quest Estates, Inc. P.O. Box 4	
P.O. State and ZIP Code Meeteetse, WY 82433	
Postage	\$,29
Certified Fee	2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	

85

DEQ 0229



WISCONSIN DEPARTMENT OF ENVIRONMENTAL QUALITY

Subject: Area wet with wastewater & sludge from lead field failure

Location: Crossed Arrows Park, Saldia, Sec. 33 T49N R10W S05E, Park

Date: 9/10/92 Time: P.M.

Photographer: J. J. Bernavsky

Investigator: Lander

File No. 1397

THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

November 17, 1992

Steven A Christiansen
Vision Quest Estates, Inc.
P.O. Box 4
Meeteetse, Wyoming 82433

RE: Crossed Arrows Park Subdivision

Dear Mr. Christiansen:

On September 10, 1992 I stopped at Crossed Arrows Park to inspect the leach field area serving the subdivision. I stopped since in June of 1991 I found the leach field to be failing and requested that the system be repaired. In a March 2, 1992 letter you indicated that John Deromidi had fixed the problem. Yet in September I found indications that the leach field is still failing.

The leach field failure is a violation of the Department of Environmental Quality, Water Quality Division (DEQ/WQD) Rules and Regulations as well as a health hazard to the area residents. It appears that the leach field is not large enough to handle the wastewater flow and will need to be modified. A permit for modification is required before construction and must be obtained from either this office or Tim Morrison at the Park County Planning Office. I also suspect that the septic tanks in the subdivision need to be pumped. The pumping should be done immediately if they haven't been pumped in the last three years.

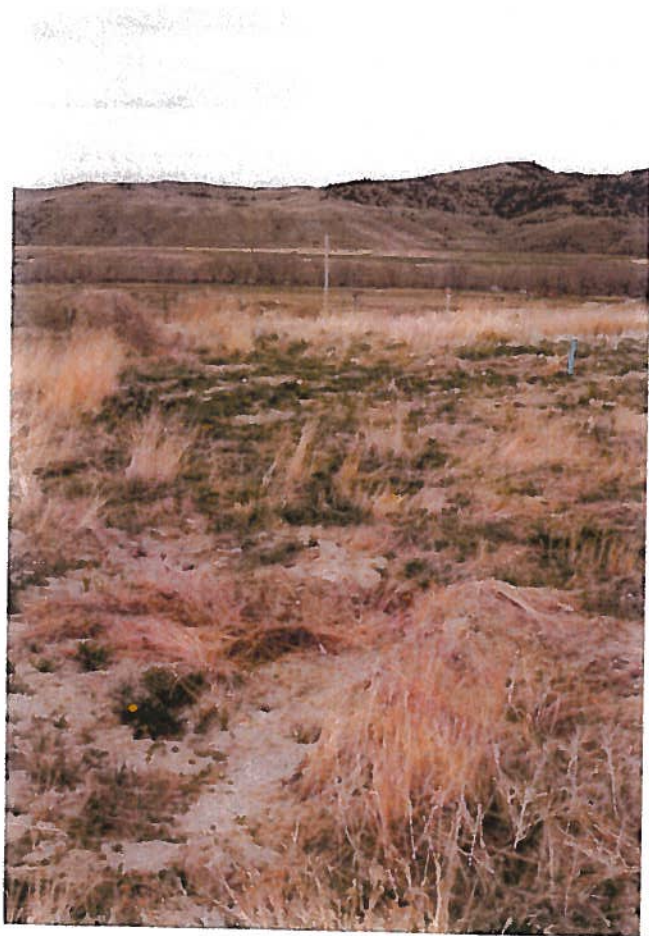
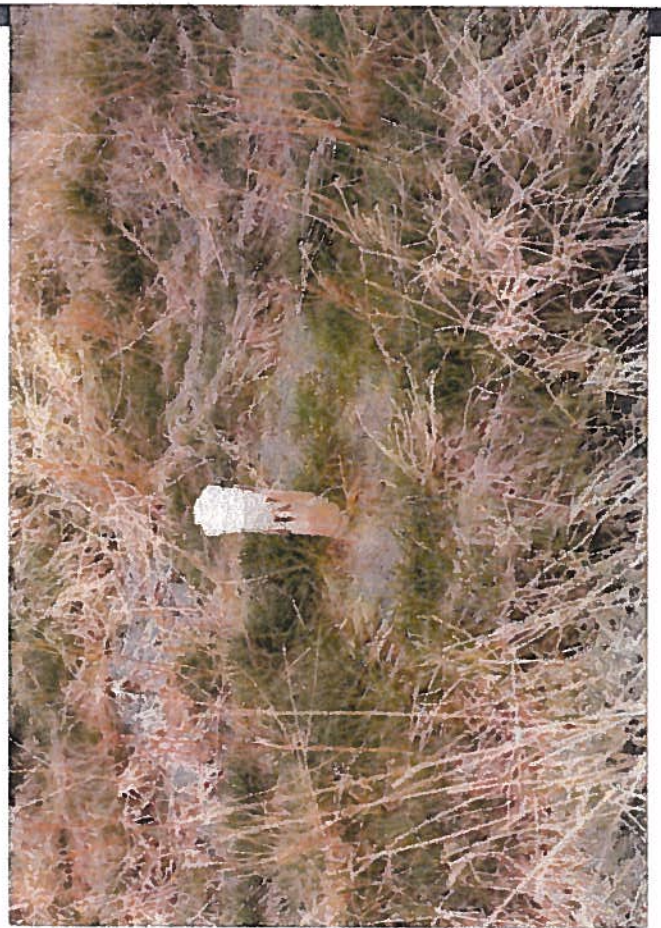
Please contact me as soon as possible so we can discuss this problem in greater detail.

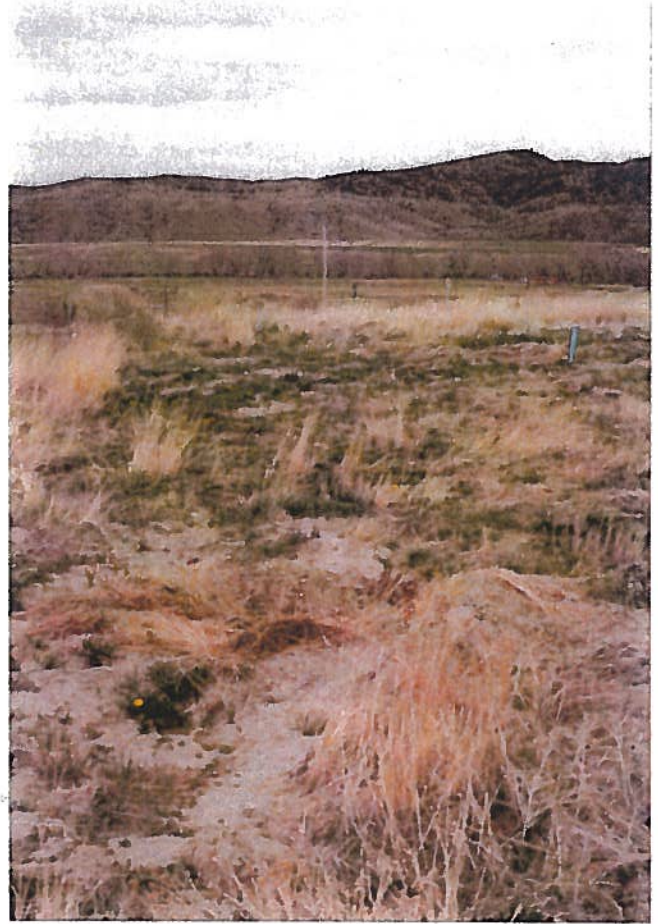
Sincerely,

Jeff Hermansky, P.E.
Northwest District Supervisor

JH/jh
xc: Tim Morrison
file (2)

DEQ 0231





CROSSED ARROWS SUBDIVISION
5-15-96

MEMORANDUM

TO: Jeff Hermansky
FROM: Mike Roberts
SUBJECT: Trip Report, Big Horn Basin: 15 May 1996
DATE: 16 May 1996

GOLDMARK ENGINEERING

The trip was in part at the request of Goldmark Engineering regarding the clean up of the pipeline break which occurred in January of this year.

The clean up is nearly finished. All of the free oil has been collected. Oil stained vegetation has been burned as has that crude oil which could not be collected. Oil saturated soil has been collected and stored in a pipe yard. Total volume of this soil is less than 100 cubic yards.

The areas that were inaccessible to machinery were cleaned with hand labor.

I inspected several long reaches of the drainage area and found the area to be satisfactorily cleaned of any crude oil stain. Those areas in which there was some evidence of staining have been hand raked so as to expose the oil to the air.

The siphon structures are still in place on dikes two and three and will remain until all evidence of the spilled oil is gone.

I recommend that we inspect this area in July or August for a final clean up assessment.

CROSSED ARROWS SUBDIVISION

Photographs were taken of the leach field area on May 15, 1996. The leach field is again failing. As the photographs show, effluent water is freely flowing from the leach field riser. This water is flowing over the property line to the north and is saturating the area adjacent to a high pressure natural gas line. This moisture adjacent to this high pressure line could help to create an accelerated corrosion environment. The line belongs to Cody Gas Company and they have been notified of the situation.

JIM ENIS FAILED LEACH FIELD

The residence of Jim Enis is located at 1123 Missouri Flat Road approximately 13 miles northwest of Thermopolis. Phone 864-2338 ask for Julie Enis if a call is necessary.

The leach field has failed. The effluent appears to go into an earthen pit at the end of the leachfield. It appears that the soil in the vicinity of the house is a very tight bentonitic clay. A backhoe pit could verify if a conventional leachfield, infiltrators or other structure could suffice or if a constructed wetland would be more appropriate. Photographs of the failed leach field were taken.



Failed leach field: Crossed Arrows Subdivision
Water flowing from riser; east end of leach field

15 May 1996

Mike Roberts

Park
1300 hrs

Lander

88886

DEQ 0237



500 PSI
gas transmission
line

Failed leach field. Crossed Arrows subdivision
waste water flowing northward beyond fence saturating
earth around high pressure gas line.

Crossed Arrows Subdivision: Failed leach field
leach field discharge flowing across property line
1 mile North of Meeteetse

15 May 1996

Mike Roberts

Park
1300

Lander

88886

DEQ 0238

THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

OPY



Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6924	WATER QUALITY (307) 332-3144
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May 17, 1996

Mr Tim Good
Cody Gas Company
P. O. Box 970
Cody, Wyoming 82414

RE: Septic tank leach field discharge onto transmission line ROW

Mr. Good:

Pursuant to our phone conversation this morning this letter is to advise you of a potential corrosion situation you may be experiencing on your transmission line.

The Crossed Arrows mobile home subdivision, a short distance north of Meeteetse, is served by individual septic tanks all tied into a community leach field near the entrance road into the subdivision.

This leach field is failing, i.e., waste water is surfacing near the east end of the field and is draining off the area and onto your gas transmission line ROW. This situation has been occurring for at least a month. The waste water nearly always contains anaerobic bacteria, some of which are iron reducing. There is usually hydrogen sulfide in this waste water. This wet area along your line in an otherwise dry environment has a tendency to promote a corrosion hot spot due to the ease with which ions and currents can travel. The waste water is a continual source of deleterious ions and bacteria.

I request that you investigate this situation as a matter of public safety.

Thank you for your attention to this matter. Please advise me of your findings.

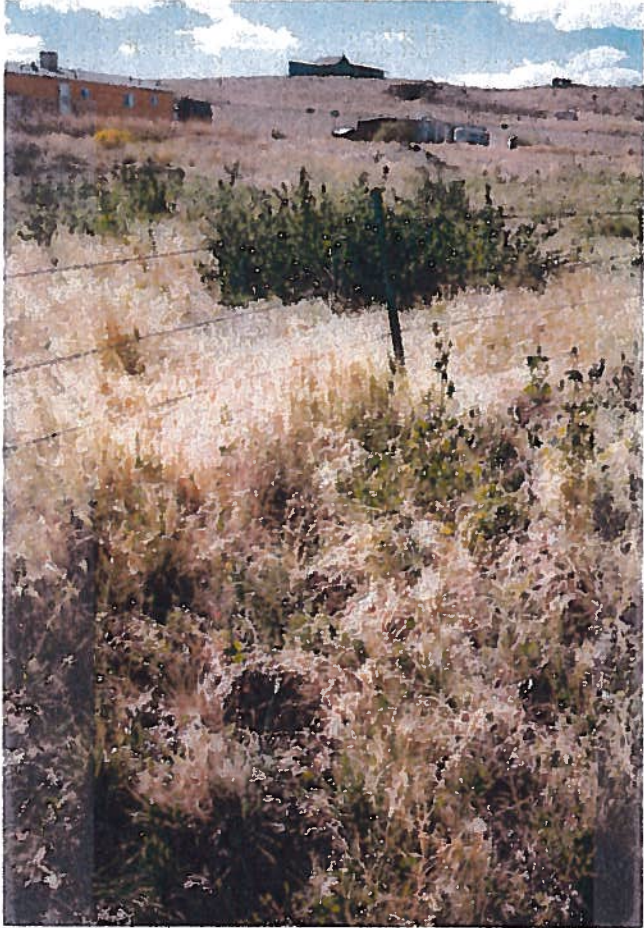
Respectfully,

Mike Roberts
Northwest District Engineer

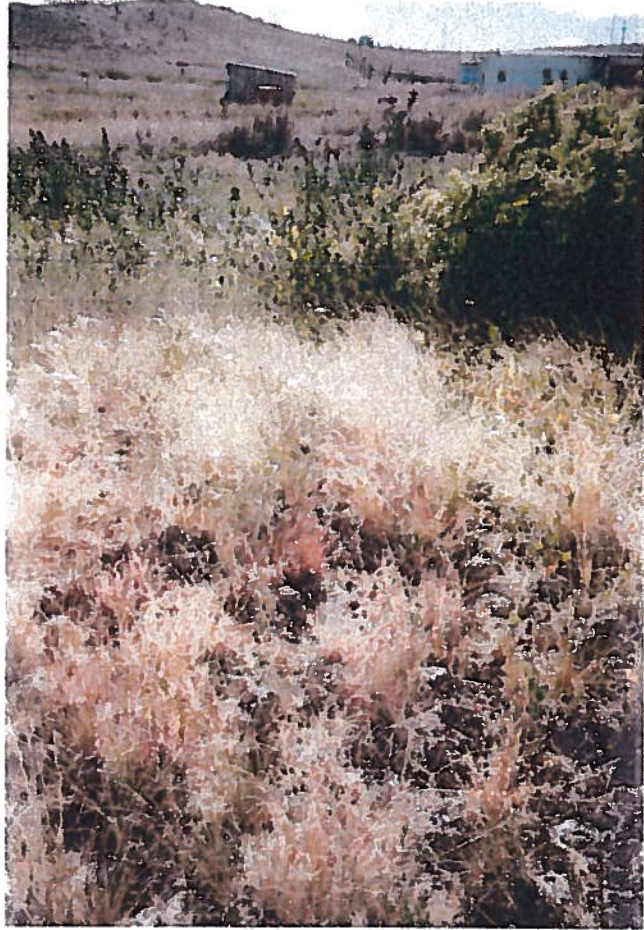
DEQ 0239

Crossed Arrows Subdivision
Leach Field Failure

9/17/04



failure - ww in bottom photo



ww "pooling" across fence



overview of leach area



ww "pooling"

by: Jeff Hermansky
Neg. #: 5578





DEQ 0242



DEQ 0243