

PERMIT CHANGE TRACKING FORM

DATE RECEIVED	8/26/94	PERMIT NUMBER	ACT/002/016
Title of Proposal:	#8 Mine Damage	PERMIT CHANGE #	94c
Description:	Amendment	PERMITTEE	W.A. Coal
		MINE NAME	Golden Creek #2, #7, #8

	DATE DUE	DATE DONE	RESULT
<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION			<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED
<input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.			Permit Change Classification
<input type="checkbox"/> Request additional review copies prior to Division/Other Agency review.			<input type="checkbox"/> Significant Permit Revision
<input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.)			<input type="checkbox"/> Permit Amendment
<input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.			<input type="checkbox"/> Incidental Boundary Change

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative						
<input type="checkbox"/> Biology						
<input type="checkbox"/> Engineering						
<input type="checkbox"/> Geology						
<input type="checkbox"/> Soils						
<input type="checkbox"/> Hydrology						
<input type="checkbox"/> Bonding						
<input type="checkbox"/> AVS Check						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> OSMRE						
<input type="checkbox"/> US Forest Service						
<input type="checkbox"/> Bureau of Land Management						
<input type="checkbox"/> US Fish and Wildlife Service						
<input type="checkbox"/> US National Parks Service						
<input type="checkbox"/> UT Environmental Quality						
<input type="checkbox"/> UT Water Resources						
<input type="checkbox"/> UT Water Rights						
<input type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History						
<input type="checkbox"/> Other						

<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)	<input type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Copy of Approved Permit Change to File.
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.
<input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.

APPLICATION FOR PERMIT CHANGE

Title of Change: No. 8 MINE DRAINAGE

Permit Number: ACT 0071016

Mine: GORDON CREEK 2/7/8

Permittee: Mountain Coal Co.

Description, include reason for change and timing required to implement:

- | | | |
|---|--|--|
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 1. Change in the size of the Permit Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease. |
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Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Dana Ballard for Price Beville 8/15/94
Signed - Name - Position Date

Subscribed and sworn to before me this 15 day of AUGUST, 1994

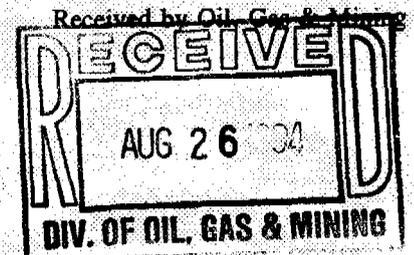
Dana Ballard
Notary Public



DANA BALLARD
NOTARY PUBLIC - STATE OF UTAH
865 EAST 2800 SOUTH
PRICE, UTAH 84501
COMM. EXP. 9-27-97

My Commission Expires: _____
Attest: STATE OF _____
COUNTY OF _____

9/27, 1997
[Signature]



ASSIGNED PERMIT CHANGE NUMBER



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 31, 1994

Paige Beville
Manager, Environmental Health and Safety
ARCO Coal Company
555 Seventeenth Street
Denver, Colorado 80202

Re: Initial Review Response--Accepted, #8 Mine Drainage Amendment, Gordon Creek #2, #7, and #8 Mine, Mountain Coal Company, ACT/007/016-94C, Folder #2, Carbon County, Utah

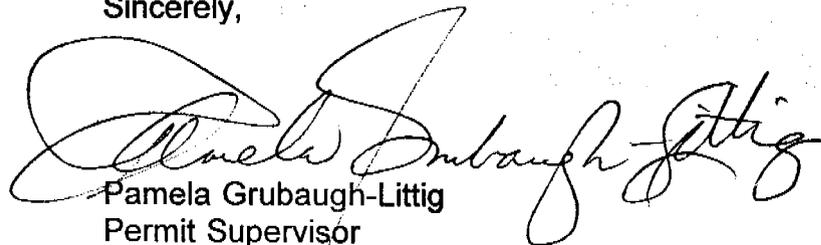
Dear Ms. Beville:

The Division received the proposed amendment, #8 Mine Drainage Amendment, on August 26, 1994 and has determined the application complete. This amendment has been assigned the permit change number, ACT/007/016-94C.

We anticipate completion of this review by September 30, 1994, at which time you will be notified of amendment status.

If you have any questions or concerns, please call me.

Sincerely,



Pamela Grubaugh-Littig
Permit Supervisor

ALTI



Mountain Coal Company

West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015



August 15, 1994

**Ms. Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203**

**Re: No. 8 Mine Drainage Amendment
Mountain Coal Co.
Gordon Creek No. 2/7/8 Mines
ACT/007/016
Carbon County, Utah**

Dear Ms. Littig:

Enclosed are 3 copies of a proposed amendment for the No. 8 Mine area of the Gordon Creek 2/7/8 Permit. This amendment is to show the location and design of a new ditch to carry runoff from the partially backfilled No. 8 Mine pad area, and is being submitted at the request of Mr. Scott Milovich.

If you have and questions, or need any further information, please let me know.

Respectfully,

**Dan W. Guy,
for Paige Beville**

**cc: Paige Beville
Scot Anderson
File**

APPLICATION FOR PERMIT CHANGE

Title of Change: *No. 8 MINE DRAINAGE*

Permit Number: *ACT 0071016*

Mine: *GORDON CREEK 2/7/18*

Permittee: *Mountain Coal Co.*

Description, include reason for change and timing required to implement:

- | | | |
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Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Dana Ballard for Paige Beville 8/15/94
Signed - Name - Position Date

Subscribed and sworn to before me this 15 day of August, 1994
Dana Ballard
Notary Public



DANA BALLARD
NOTARY PUBLIC - STATE OF UTAH
865 EAST 2800 SOUTH
PRICE, UTAH 84501
COMM. EXP. 9-27-97

My Commission Expires: 9/27, 1997
Attest: _____
COUNTY OF _____

Received by Oil, Gas & Mining

ASSIGNED PERMIT CHANGE NUMBER

APPENDIX 7-2

NO. 8 MINE DRAINAGE

8/15/94

APPENDIX 7-2

NO. 8 MINE DRAINAGE

The No. 8 Mine was closed and the portals sealed in November and December 1990, respectively. In 1991, the portals were backfilled and the coal seam was covered at the request of the Division. Structures were also removed in 1991, including a box inlet and flexible culvert which previously carried runoff from the disturbed area of the mine to the culvert below.

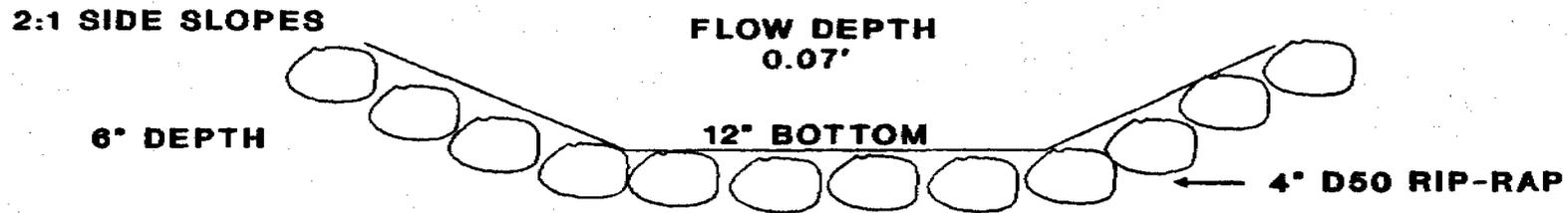
Due to some rilling starting to occur on the downslope of the partially backfilled pad, it has become necessary to reinstate a berm and rip-rapped channel off of the pad to prevent erosion. The location of the structures are shown on Plate 3-1.

The channel was designed to carry the expected runoff from the area from a 10-year, 24-hour storm. The channel typical is shown on Figure 1 of this Appendix. The runoff to the channel is from 0.70 acres of undisturbed area, with a slope of 83% and a CN of 63, and 0.41 acres of disturbed area, with a slope of 50% and a CN of 90. Channel flows were calculated with the Storm 6.21 computer program. Computer backup data is also included with this Appendix.

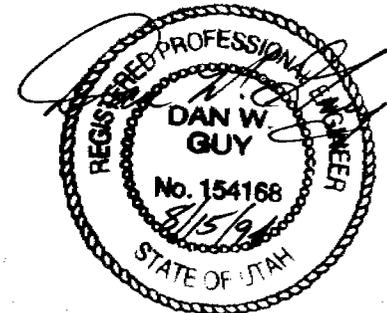
Conclusion: The designed channel is adequate to carry the expected runoff from this area, and rip-rap protection is adequate to prevent erosion in the channel.

NO. 8 MINE DRAINAGE CHANNEL

TYPICAL SECTION



**NOTE: CHANNEL CONFIGURATION MAY VARY IN FIELD;
HOWEVER, THE CROSS-SECTIONAL AREA WILL BE
MAINTAINED AT A MINIMUM OF 1.0 CU. FT.**



Title of run: No. 8 Mine

Solving for.....= Depth Normal

Trapezoid

Flow depth (ft).....=	0.07
First Side slope.....=	2.0
Second Side slope.....=	2.0
Bottom width (ft).....=	1.00
Slope of diversion.....=	0.3300
Manning's n.....=	0.040
CFS.....=	0.28
Cross section area (sqft).....=	0.08
Hydraulic radius.....=	0.06
fps.....=	3.38
Froude number.....=	2.38

Mountain Coal Company
West Elk Mine
Post Office Box 591
Somerset, Colorado 81434
Telephone 303 929-5015



August 15, 1994

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Re: No. 8 Mine Drainage Amendment
Mountain Coal Co.
Gordon Creek No. 2/7/8 Mines
ACT/007/016
Carbon County, Utah

Dear Ms. Littig:

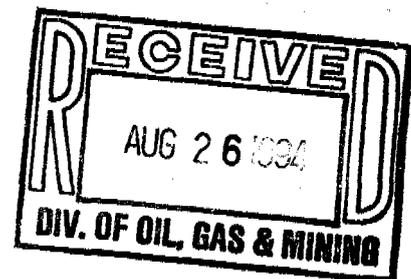
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APPLICATION FOR PERMIT CHANGE

Title of Change: No. 8 MINE DRAINAGE

Permit Number: ACT 0071016

Mine: GORDON CREEK 2/7/8

Permittee: Mountain Coal Co.

Description, include reason for change and timing required to implement:

- | | | |
|---|--|--|
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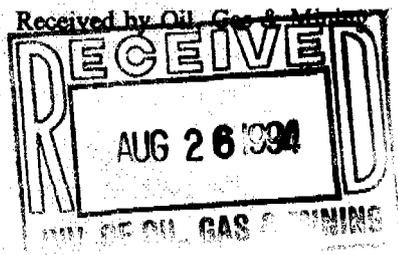
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Signed - Name - Position - Date

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DANA BALLARD
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865 EAST 2800 SOUTH
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My Commission Expires: 9/27, 1997
Attest: *[Signature]*
STATE OF
COUNTY OF



ASSIGNED PERMIT CHANGE NUMBER

APPENDIX 7-2

NO. 8 MINE DRAINAGE

8/15/94

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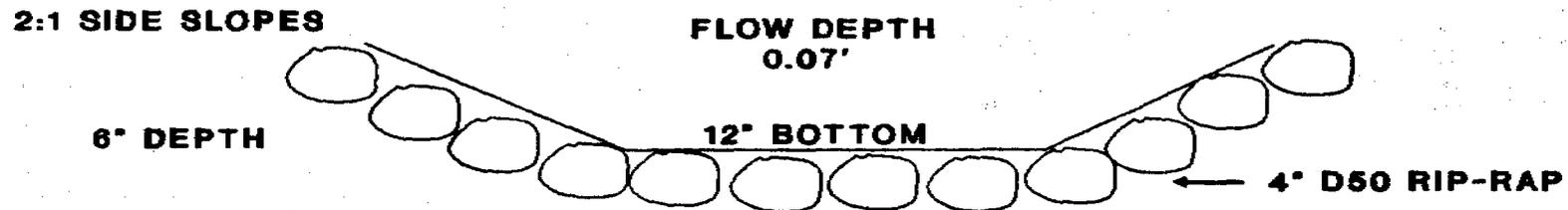
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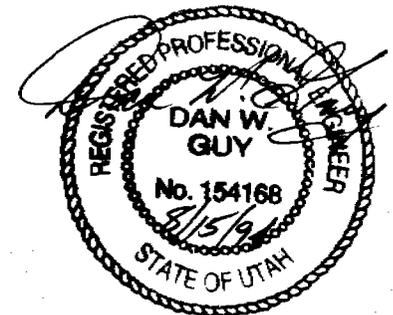
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Mountain Coal Company
West Elk Mine
Post Office Box 591
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August 15, 1994

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Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

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Gordon Creek No. 2/7/8 Mines
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Carbon County, Utah

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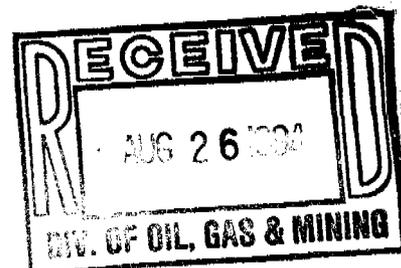
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for Paige Beville

cc: Paige Beville
Scot Anderson
File



APPLICATION FOR PERMIT CHANGE

Title of Change: No. 8 MINE DRAINAGE

Permit Number: ACT 0071016

Mine: GOEDAN CREEK 21718

Permittee: Mountain Coal Co.

Description, include reason for change and timing required to implement:

- | | | |
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| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 10. Does permit change require or include ownership, control, right-of-entry, or compliance information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 11. Does the permit change affect the surface landowner or change the post mining land use? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 12. Does permit change require or include collection and reporting of any baseline information? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 14. Does permit change require or include soil removal, storage or placement? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 15. Does permit change require or include vegetation monitoring, removal or revegetation activities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 16. Does permit change require or include construction, modification, or removal of surface facilities? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 17. Does permit change require or include water monitoring, sediment or drainage control measures? |
| <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | 18. Does permit change require or include certified designs, maps, or calculations? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 19. Does permit change require or include underground design or mine sequence and timing? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 20. Does permit change require or include subsidence control or monitoring? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling? |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 23. Is this permit change coal exploration activity <input type="checkbox"/> inside <input type="checkbox"/> outside of the permit area? |

Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Dana Ballard for Paige Beville 8/15/94
Signed - Name - Position - Date

Subscribed and sworn to before me this 15 day of AUGUST, 1994

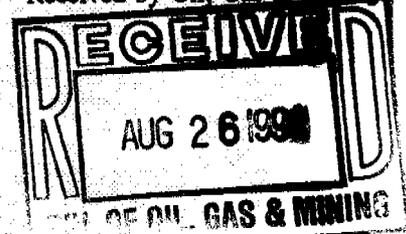
Dana Ballard
Notary Public



DANA BALLARD
NOTARY PUBLIC - STATE OF UTAH
865 EAST 2800 SOUTH
PRICE, UTAH 84501
COMM. EXP. 9-27-97

My Commission Expires: 9/27, 1997
Attest: STATE OF _____ COUNTY OF _____

Received by Oil, Gas & Mining



ASSIGNED PERMIT CHANGE NUMBER

APPENDIX 7-2

NO. 8 MINE DRAINAGE

8/15/94

APPENDIX 7-2

NO. 8 MINE DRAINAGE

The No. 8 Mine was closed and the portals sealed in November and December 1990, respectively. In 1991, the portals were backfilled and the coal seam was covered at the request of the Division. Structures were also removed in 1991, including a box inlet and flexible culvert which previously carried runoff from the disturbed area of the mine to the culvert below.

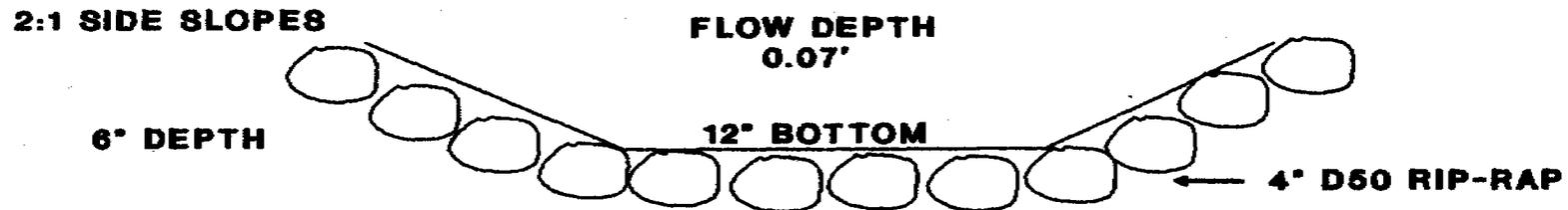
Due to some rilling starting to occur on the downslope of the partially backfilled pad, it has become necessary to reinstate a berm and rip-rapped channel off of the pad to prevent erosion. The location of the structures are shown on Plate 3-1.

The channel was designed to carry the expected runoff from the area from a 10-year, 24-hour storm. The channel typical is shown on Figure 1 of this Appendix. The runoff to the channel is from 0.70 acres of undisturbed area, with a slope of 83% and a CN of 63, and 0.41 acres of disturbed area, with a slope of 50% and a CN of 90. Channel flows were calculated with the Storm 6.21 computer program. Computer backup data is also included with this Appendix.

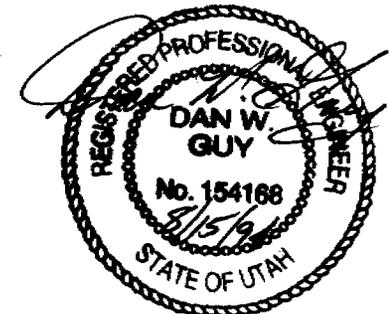
Conclusion: The designed channel is adequate to carry the expected runoff from this area, and rip-rap protection is adequate to prevent erosion in the channel.

NO. 8 MINE DRAINAGE CHANNEL

TYPICAL SECTION



**NOTE: CHANNEL CONFIGURATION MAY VARY IN FIELD;
HOWEVER, THE CROSS-SECTIONAL AREA WILL BE
MAINTAINED AT A MINIMUM OF 1.0 CU. FT.**



Title of run: No. 8 Mine

Solving for.....= Depth Normal

Trapezoid

Flow depth (ft).....=	0.07
First Side slope.....=	2.0
Second Side slope.....=	2.0
Bottom width (ft).....=	1.00
Slope of diversion.....=	0.3300
Manning"s n.....=	0.040
CFS.....=	0.28
Cross section area (sqft)..=	0.08
Hydraulic radius.....=	0.06
fps.....=	3.38
Froude number.....=	2.38