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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)

January 24, 1996

Mark Page, Regional Engineer  
Utah Division of Water Rights  
Southeastern Regional Office  
453 S. Carbon Avenue  
P. O. Box 718  
Price, Utah 84501-0718

Re: Revised Mine Plan Submittal, Longwall Mining Under Crandall Creek, Genwal Resources, Inc., Crandall Canyon Mine, ACT/015/032-96A, Folder #2, Emery County, Utah

Dear Mr. Page:

Enclosed is a mine plan amendment proposed by Genwal Resources, Inc. to modify the layout and sequence of longwall panels beneath Federal Lease UTU-68082.

This submittal modifies the approved plan as noted on the approved map Plate 5-2, dated 9-21-94, see approved mine permit. The operator has reoriented the longwall panels to incorporate both longwall and room and pillar mining in areas where mining will have less chance of impacting flows in Crandall Creek.

The operator also includes a mitigation plan in the event that stream flow becomes interrupted because of mining activities.

Please review the proposal and address any deficiencies or comments to our Division by February 12, 1996. Thank you for your time and cooperation.

Best Regards

A handwritten signature in cursive script that reads "David W. Darby".

David W. Darby  
Reclamation Hydrologist

mt  
cc.

Daron Haddock  
Pam Grubaugh-Littig

## PERMIT CHANGE TRACKING FORM

- Significant Permit Revision
- Permit Amendment
- Incidental Boundary Change

DATE RECEIVED <i>1/9/96</i>	By: _____ (Initials)	PERMIT NUMBER	ACT/015/032
Title of Proposal: <i>LONGWALL</i>		PERMIT CHANGE #	<i>96 A</i>
Description:		PERMITTEE	GENWAL RESOURCES, INC.
		MINE NAME	CRANDALL CANYON MINE

<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION	DATE DUE	DATE DONE	RESULT
<input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.			<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED
<input type="checkbox"/> Responses Received.			COMMENTS
<input type="checkbox"/> Notice of Affidavit of Publication. (If change is a Significant Revision.)			

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGM REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input checked="" type="checkbox"/> Lead <i>DAVE DARB/</i> _____	<i>2/15</i>					
<input type="checkbox"/> TA (See Attached) _____						
<input type="checkbox"/> Reviewers _____						
<input type="checkbox"/> Administrative (AVS) _____						
<input type="checkbox"/> Biology _____						
<input type="checkbox"/> Engineering <i>WAYNE WESTER</i> _____	<i>2/15</i>					
<input type="checkbox"/> Geology <i>DAVE DARB/</i> _____						
<input type="checkbox"/> Soils _____						
<input type="checkbox"/> Hydrology _____						

COORDINATED REVIEWS	SENT	DUE	RECEIVED	SENT	DUE	DONE
<input checked="" type="checkbox"/> OSMRE		<i>NA</i>				
<input checked="" type="checkbox"/> US Forest Service		<i>2/15</i>				
<input checked="" 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 checked="" type="checkbox"/> UT Water Resources						
<input checked="" type="checkbox"/> UT Water Rights						
<input checked="" type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History (SHPO)						
<input type="checkbox"/> State Trust Lands						

<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"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Permit Change Denied.
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to File.
<input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.
	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.

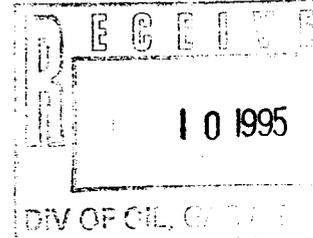


**GENWAL**  
RESOURCES, INC.

P.O. Box 1420 • 195 North 100 West • Huntington, Utah 84528  
Telephone (801) 687-9813 • Fax (801) 687-9784

January 9, 1996

Mr. Dave Darby  
Sr. Reclamation Hydrologist  
Division of Oil, Gas and Mining  
3 Triad Center  
355 West North Temple  
Salt Lake City, Utah 84180-1203



*This was the wrong stamp date.  
Received January 9, 1996 [initials]*

RE: Crandall Canyon Mine ACT/015/032-94E, Folder #3, Emery County,  
Utah. Proposed Streamflow Mitigation Plan and Change of  
Insurance Certificate

Dear Dave:

Genwal Resources, Inc is submitting an updated/new insurance certificate for the Crandall Canyon Mine. Also, we are submitting the proposed streamflow mitigation plans for our minor MRP Amendment.

We appreciate working with you on this and other projects. Please call me should you have any comments or questions.

Sincerely,

Randolph B. Gainer, P.G.  
Environmental Manager

enclosures

# APPLICATION FOR PERMIT CHANGE

Title of Change: **MRP Minor Amendment**

Permit Number: **ACT/015/032**

Mine: **Crandall Canyon**

Permittee: **Genwal Resources, Inc.**

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

**Insurance Certificate and Proposed Streamflow Mitigation**

- |                              |  |  |
|------------------------------|--|--|
| <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.               |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 2. Change in the size of the Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.            |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?  |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 4. Will permit change include operations in hydrologic basins other than currently approved?   |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?                                  |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 6. Does permit change require or include public notice publication?  |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 7. Permit change as a result of a Violation? Violation # _____   |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 8. Permit change as a result of a Division Order? D.O.# _____  |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 9. Permit change as a result of other laws or regulations? Explain: _____  |
| <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 type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 16. Does permit change require or include construction, modification, or removal of surface facilities?                                  |
| <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | 17. Does permit change require or include water monitoring, sediment or drainage control measures?                                       |
| <input type="checkbox"/> Yes | <input checked="" 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.

*Sandra H. Baird* *Env Manager* *1-9-96*  
 Signed - Name - Position - Date

Subscribed and sworn to before me this 19th day of January 1996.  
*Rosina Siaperas*  
 Notary Public

My Commission Expires: May 28, 1997  
 Attest: STATE OF \_\_\_\_\_ )  
 COUNTY OF \_\_\_\_\_ )

10 1995

Received by Oil, Gas & Mining



**ROSINA SIAPERAS**  
 NOTARY PUBLIC - STATE OF UTAH  
 775 EAST BRIARWOOD CIRCLE  
 PRICE, UT 84501  
 COMM. EXP. 5-28-97

ASSIGNED PERMIT CHANGE NUMBER



## STREAM FLOW INTERRUPTION MITIGATION

Genwal Resources, Inc. has submitted mine plans to place long-wall panels in Section 2 (State Lease 21568). Portions of these panels will be in areas which have intermittent drainages for several months due to snowmelt runoff. Genwal is presenting this mitigation plan even though several hundred feet of overburden is present between the coal seam and the surface; the interburden material is primarily shales which have been proven to be self sealing; and the land and mineral owner is the State of Utah.

If surface flows from the existing drainages are interrupted by subsidence and/or subsequent mine inflows are observed the following mitigation measures will be implemented. They are:

1. Field inspections will be immediately undertaken (within 72-hours) to locate the area of impact and to verify if an impact has occurred. Appropriate regulatory agencies and land owners will be immediately notified upon verification of any verified impact.
2. Using approved methods (horse, hand-carried, helicopter, etc.) to move appropriate materials to repair the stream inflow in the area of impact. It is proposed that a bentonite/cement mix be used with local materials as a backfill material.
3. Hand-excavation methods will be used to excavate the insitu sand, gravel and cobble materials within the inflow zone. (An appropriately sized flexible pipe will be used to bypass the flow while the remediation measures are being installed). The exposed insitu soils will then be mixed with the bentonite/cement mix (5 bentonite and 1 cement with 10 equal volumes of soil) and hand compacted. The coarse materials will then be replaced.
4. Where required geotextile fabric will be used to aid in bank and stream bottom stabilization.
5. The area being remediated will be inspected on a bi-weekly basis for an 8-week period. After the area is considered stable, annual inspections of the remediation work will be conducted.