



P.O. Box 910, East Carbon, Utah 84520 794 North "C" Canyon Rd, East Carbon, Utah 84520  
Telephone (435) 888-4000 Fax (435) 888-4002

Daron Haddock  
Permit Supervisor  
Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

C/015/0032  
Task ID #4697  
Received 10/3/2014

October 3, 2014

**Re: Revision of Isotopic Information; Crandall Canyon, (ACT 015/032) (14-003)**

Dear Mr. Haddock:

Please find attached three (3) copies of the changes made to the MRP, clarifying Isotopic Laboratory Measurement information.

It was brought to our attention that a paragraph of language regarding Isotopic Laboratory Measurement had been unintentionally deleted during the last revision to the MRP (Task #4639). The approved permit has been revised to reflect the addition of the missing language.

Completed C1 and C2 forms, as well as a redline strike-out copy are also included.

If you have any questions please give me a call at (435) 888-4007

Sincerely,

  
R. Jay Marshall P.E.  
Resident Agent  
UtahAmerican Energy Inc.

## APPLICATION FOR PERMIT PROCESSING

<input type="checkbox"/> Permit Change	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: <b>015/032</b>
Title of Proposal: <b>Revision of Isotopic Information (14-003)</b>						Mine: <b>GENWAL Mine</b>
						Permittee: <b>GENWAL Resources, Inc.</b>

Description, include reason for application and timing required to implement.

**Instructions:** If you answer yes to any of the first 8 questions (gray), submit the application to the Salt Lake Office. Otherwise, you may submit it to your reclamation specialist.

<input type="checkbox"/> Yes	<input type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input type="checkbox"/> No	2. Is the application submitted as a result of a Division Order?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	9. Is the application submitted as a result of a Violation?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain:
<input type="checkbox"/> Yes	<input type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

Attach 3 complete copies of the application.

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. (R645-301-123)

*R. J. Marshall*      10/3/14  
 Signed: Name - Position - Date

Subscribed and sworn to before me this 3rd day of October, 2014

*Linda Kerns*  
 Notary Public      3.27.17  
 My Commission Expires: \_\_\_\_\_  
 Attest: STATE OF Utah  
 COUNTY OF Carbon



Received by Oil, Gas & Mining
ASSIGNED TRACKING NUMBER



TABLE 7-4(A)

Mine-Water Discharge Analysis List

**Field Measurements:**

Ferrous iron  
pH  
Dissolved oxygen  
Conductivity  
Temperature  
Flow

**Laboratory Measurements:**

Calcium (dissolved)  
Potassium (dissolved)  
Sodium (dissolved)  
Magnesium (dissolved)  
Silica  
Chloride  
Hot acidity by Standard Method 2310B4(a)  
Aluminum (total and dissolved)  
Iron (total and dissolved)  
Manganese (total and dissolved)  
Sulfate  
Alkalinity (total, carbonate, and bicarbonate)  
TDS  
Suspended solids

**Isotopic Laboratory Measurements:**

Tritium  
Carbon-14  
Deuterium  
Oxygen-18

Note: All Mine-Water Discharge monitoring data will be submitted to the Division monthly. Water chemistry and field measurement data will be submitted electronically using the Division's water monitoring database EDI system. Isotopic laboratory measurement data will be submitted when the results become available from the laboratories. Mine-water discharge rate data will be provided in spreadsheet format.

Note: A test for carry over of treatment chemicals will be done if Flocculent is being used in the treatment process. If flocculent is not used a carry over of treatment test is not required.

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