

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

May 31, 2013



**Re: Adding a Fence around Burma Pond (C/015/032) (13-006)**

Dear Mr. Haddock:

As you are aware the Burma Pond is complete. However, accidental access is possible from the County Road. To prevent this accidental access and to prevent cattle and wildlife from puncturing the pond liner, UEI proposes to construct a fence around Burma Pond.

Included you will find a revision to Page 11 of Appendix 7-66 and revised maps.

Completed C1 and C2 forms are included as well as a Red Line Strike Out Copy.

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

Sincerely,



R. Jay Marshall P.E.  
Resident Agent

## 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>Adding a fence to Burma Pond (13-006)</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? <b>FENCE</b>                                 |
| <input 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. Marshall* 5/31/13  
Signed Name - Position - Date

Subscribed and sworn to before me this 31<sup>st</sup> day of May, 2013.

*Linda Kerns*  
Notary Public  
My Commission Expires: 03-27-17  
STATE OF Utah  
COUNTY OF Carbon



Received by Oil, Gas & Mining

ASSIGNED TRACKING NUMBER



## WordPerfect Document Compare Summary

Original document: S:\GENWAL\Submittals\2013\13-006 Burma Pond Fence\12-008 Appendix 7-66 Burma Evaporation Pond-Working.wpd

Revised document: @PFDesktop\MyComputer\S:\GENWAL\Submittals\2013\13-006 Burma Pond Fence\13-006 Burma Pond Fence.wpd

Deletions are shown with the following attributes and color:

~~Strikeout~~, Blue RGB(0,0,255).

Deleted text is shown as full text.

Insertions are shown with the following attributes and color:

Double Underline, Redline, Red RGB(255,0,0).

The document was marked with 2 Deletions, 4 Insertions, 0 Moves.

constructed as a shallow cut in the native ground. In final design, this upper access road will be a continuation of the entrance road.

11) To protect groundwater from potential exposure to leachate, an engineered liner will be installed in the interior of the pond. The proposed liner is described in Attachment #2 of Appendix 7-66 of the approved MRP and is the same as that used for the cells in the treatment plant at Crandall.

12). It should be emphasized that this basin is not expected to normally impound much if any water, only temporarily after cleaning disposal. At an average of 80,000 gallons of diluted sludge material per two-month cleaning cycle (as explained above), coming primarily during the concentrated two-week cleaning periods, the maximum depth of standing water at any given time is not anticipated to exceed 5 inches. In between the anticipated two-month cleaning cycles, the evapo-transpiration process is expected to quickly eliminate any standing water to a damp, thin concentrated filter-cake, or dry out completely. This assumption has been verified through previous experience when the material was disposed of at the Wildcat Loadout facility. The basin will be constructed 5' deep, primarily to provide ample excavated fill material to be replaced to a depth of 48" at time of final reclamation. With a 5' basin depth, the cleaning water could actually fill to a standing depth of 36" and still allow 24" of freeboard to the top of the containment berm.

The basin is not designed to ever discharge and all of-site drainage is diverted around the pond. However, at DOGM requirements, a single small 5' x 6" emergency spillway has been designed into the structure as shown on Drawing #4. This will allow the release, in a controlled fashion, of any flows in the highly improbable chance that water filled the pond. Other than the watery material disposed of from the Crandall treatment, the only water entering the basin will be from natural rainfall or snowfall. The 10-year, 24-hour event in this area is 2.00 inches and the 100-year, 24-hour event is 2.59 inches. As discussed in Chapter 7, the anticipated rise in water level from the 10yr event will be about 4 inches and for the 100yr event will be about 4.5 inches. Hence, there is no statistical probability that the basin will ever fill with water above the 18" freeboard level to the spillway elevation in the berm, given the fact that no undisturbed drainage reports to the basin. The basin can better be envisioned as a large depressed evaporation area rather than an impoundment structure.

13) The in-slopes to the basin will be constructed to a shallow slope of 3 vertical to 1 horizontal. ~~With these gentle in-slopes, and the shallow depth of containment, there will be no necessity for any perimeter barricade or fence for wildlife protection, or public safety. Also, as mentioned previously,~~ **Even though** the basin contents (dried iron precipitate material) has been tested as non-toxic, non-hazardous and non-acid forming, **posing and poses** no public health threat, **a fence and gate will be installed around the pond to protect the pond liner from cattle and wildlife. The gate will prevent accidental and unauthorized access from the road.**

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13) The in-slopes to the basin will be constructed to a shallow slope of 3 vertical to 1 horizontal. Even though the basin contents (dried iron precipitate material) has been tested as non-toxic, non-hazardous and non-acid forming, and poses no public health threat, a fence and gate will be installed around the pond to protect the pond liner from cattle and wildlife. The gate will prevent accidental and unauthorized access from the road.

14) Based on the design shown on Drawings 4 and 5 of Attachment 1, the computer-generated volume of excavation is 3,500 cubic yards. Of this volume, 1,137 cubic yards

- NOTES:
1. ALL DIMENSIONS ARE APPROXIMATE. FINAL LOCATIONS AND CONFIGURATIONS OF THE FACILITY STRUCTURES MAY VARY DEPENDING UPON CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
  2. ALL INTERIOR EVAPORATION BASIN SLOPES SHALL BE A MAXIMUM OF 3:1. ALL OTHER CUT/FILL SLOPES SHALL BE A MAXIMUM OF 2:1 UNLESS OTHERWISE NOTED.
  3. MINIMUM INTERIOR RADI OF PERIMETER ACCESS ROAD SHALL BE 40'.
  4. BOTTOM OF EVAPORATION BASIN ELEVATION = 6514.5'
  5. VEGETATION GRUB PILES TO BE LOCATED AS CONVENIENT.
  6. LINE BOTTOM OF POND WITH ENGINEERED POND LINER.

**KEY**

- EXISTING MAJOR CONTOURS (10' INTERVALS)
- EXISTING MINOR CONTOURS (2' INTERVALS)
- EXISTING DISTURBED MAJOR CONTOURS (10' INTERVALS)
- EXISTING DISTURBED MINOR CONTOURS (2' INTERVALS)
- NEW MAJOR CONSTRUCTION CONTOURS (5' INTERVALS)
- NEW MINOR CONSTRUCTION CONTOURS (1' INTERVALS)

CUT/FILL VOLUME: APPROX. 3,500 C.Y.  
(MAY VARY UPON AS-BUILT)

PERMIT AREA = 7.32 ACRES

AREA LOCATED IN  
SECTION 5,  
TOWNSHIP 17 SOUTH,  
RANGE 8 EAST, SLBM

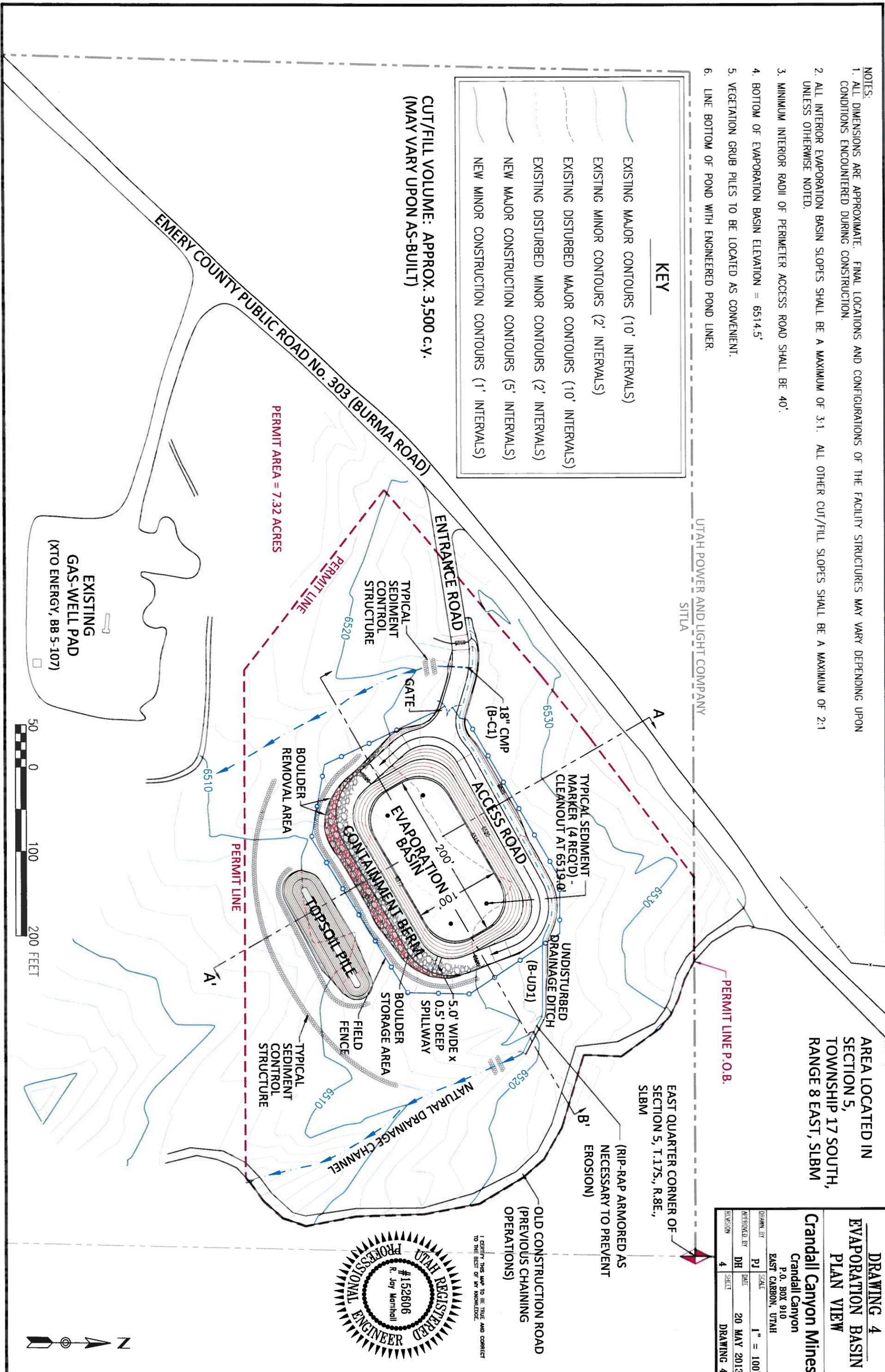
**DRAWING 4**  
**EVAPORATION BASIN**  
**PLAN VIEW**

**Crandall Canyon Mines**  
Crandall Canyon  
P.O. BOX 910  
EAST CARBON, UTAH

|             |    |       |             |
|-------------|----|-------|-------------|
| DESIGNED BY | PJ | SCALE | 1" = 100'   |
| APPROVED BY | DH | DATE  | 20 MAY 2013 |
| REVISION    | 4  | SHEET | DRAWING 4   |



I CERTIFY THIS MAP TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



| KEY |   |
|-----|---|
|     | AS-CONSTRUCTED MAJOR CONTOURS (10' INTERVALS) |
|     | AS-CONSTRUCTED MINOR CONTOURS (2' INTERVALS)  |

AREA LOCATED IN  
SECTION 5,  
TOWNSHIP 17 SOUTH,  
RANGE 8 EAST, SLBM

|   |             |
|---|-------------|
| <b>AS-CONSTRUCTED<br/>EVAPORATION BASIN<br/>PLAN VIEW</b> |             |
| <b>Crandall Canyon Mines</b>                              |             |
| Crandall Canyon<br>P.O. BOX 910<br>EAST CARBON, UTAH      |             |
| DESIGNED BY   | PJ          |
| APPROVED BY   | DH          |
| DATE  | 20 MAY 2013 |
| SCALE   | 1" = 100'   |
| REVISION  | 2           |
| SHEET   | DRAWING 1   |

UTAH POWER AND LIGHT COMPANY  
SITLA

EAST QUARTER CORNER OF  
SECTION 5, T.17S., R.8E.,  
SLBM

OLD CONSTRUCTION ROAD  
(PREVIOUS CHAINING  
OPERATIONS)

I CERTIFY THIS MAP TO BE TRUE AND CORRECT  
TO THE BEST OF MY KNOWLEDGE.

