

## Comment Report

72-16772

1. jstanton 8/19/2008 3:00:30 PM POD  
Comment: Updated Shape
2. jstanton 8/19/2008 4:45:05 PM POU  
Comment: Updated Shape
3. jstanton 8/19/2008 4:45:39 PM POU  
Comment: Updated Shape
4. jstanton 8/19/2008 4:46:20 PM POU  
Comment: Updated Shape
5. jstanton 8/19/2008 4:47:04 PM POU  
Comment: Updated Shape
6. jstanton 8/19/2008 4:47:48 PM POU  
Comment: Updated Shape
7. jstanton 4/2/2009 4:42:51 PM POU  
Comment: Updated Shape
8. jstanton 4/2/2009 4:46:15 PM POU  
Comment: Updated Shape
9. jstanton 4/2/2009 4:48:20 PM POD  
Comment: Updated Shape
10. jstanton 4/2/2009 4:48:51 PM POD  
Comment: Updated Shape
11. jstanton 8/19/2008 1:44:08 PM Special Administration Area Notes  
Comment: Special Administration Areas : Wild & Scenic Area  
Exempt: N  
Reason:  
Doc Attached:  
Explanation:
12. jstanton 8/19/2008 1:44:45 PM Additional Information Supporting Application  
Comment: Residency affidavit for hydropower development: N/A  
Additional hydropower project information: N/A  
Additional fish propagation project information: N/A

Additional fish propagation project information: N/A

Appropriation Rule 40.05.c information: N/A

Mitigation Plan or acceptance form: N/A

Evidence of Pre-1987 development: N/A

13. jstanton 8/19/2008 Comment/Analysis

Comment: This application covers all possible uses of a recently-drilled geothermal well located a little NE of Challis. The well was drilled for irrigation as cold-water well, but hot water was encountered. In order to use the heat value of the water first as required, the second application has been filed. The application seems reasonable, and should be approvable with standard conditions required in the Wild & Scenic Area.

I talked to Mrs. Bullock, who said that the existing well is producing about 100 gpm as far as they could tell. She said the water has a lot of sulfur, so may not be usable for some of the proposed uses. They are not sure what they will be able to do at this time. She mentioned that they might drill a second irrigation well if needed. As is often the case with geothermal water, it takes a lot of trial and error to figure out what will actually work and what will not. If we require exact answers, they are just not available at this time. So we can approve the permit as is so the applicants can try to develop non-irrigation uses, or we deny the permit and make them seal out the hot water.

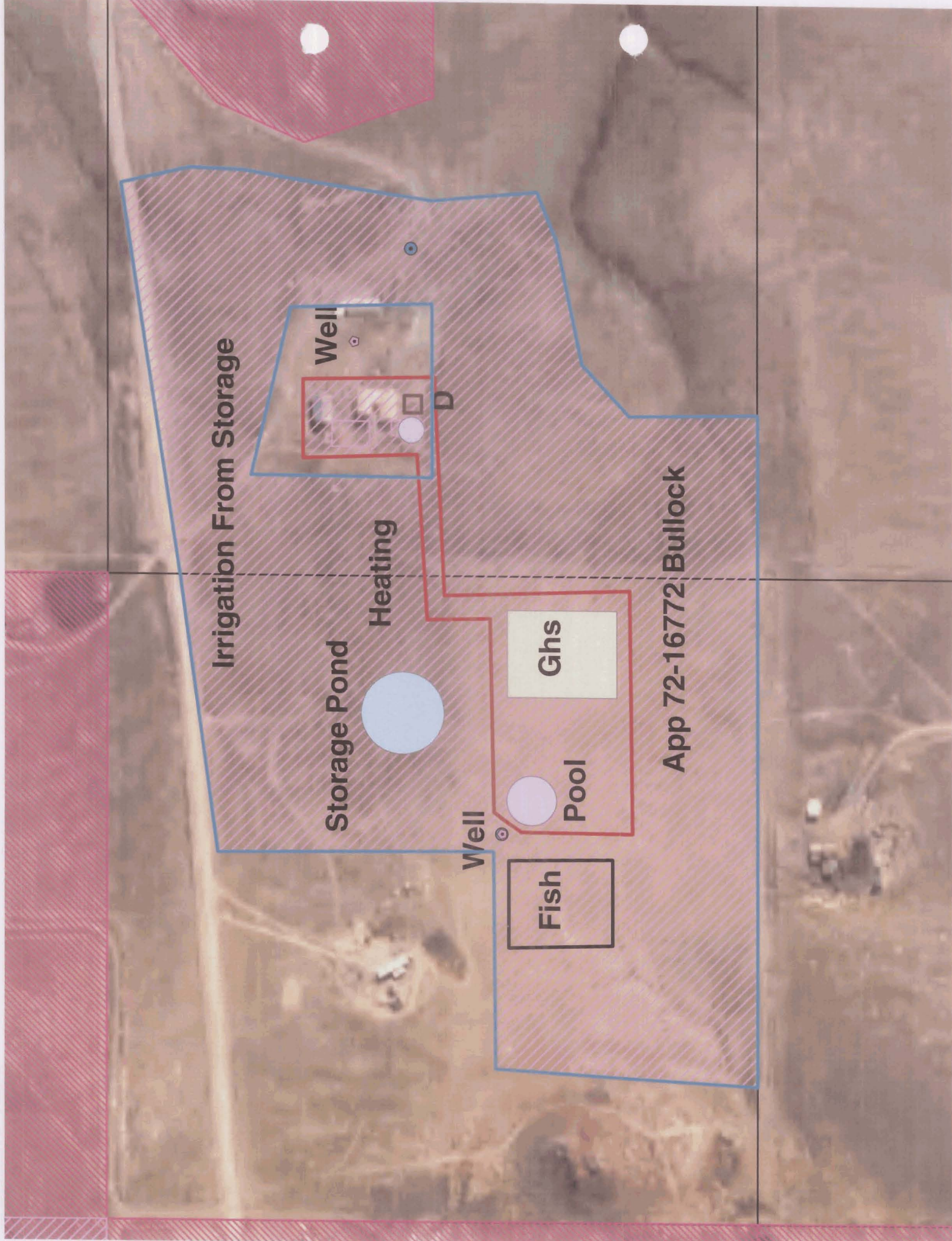
I spoke with Nathan about the groundwater situation in this area. It appears that there is enough water in a shallow clay layer for domestic purposes, but not enough for irrigation. His down-hole temperature measurements shows the water increasing in temperature with depth, up to the 97 degrees in this well. They went another 70 feet below the geothermal layer, but did not find any additional water. It is Nathans opinion that there is not a sufficient supply of cold water in this area for irrigation, so it should not be necessary for the applicants to use the heat value of the water first. So they could probably drill another hot well for irrigation without running into these same problems.

At the insistance of S. O., direct irrigation use has been added to this application under an amendment. The applicants have submitted the form requesting direct irrigation use of geothermal water. The irrigation pou is the same as what was already approved under their previous permit, and I have added a condition limiting this use under both permits.

14. jstanton 5/27/2008 Legal Notice Remarks

Comment: This application covers irrigation and additional non-consumptive uses (fish propagation, recreation, heating, commercial and domestic) from a well that was drilled for irrigation under an earlier permit. Geothermal water was encountered during the drilling process, and the heat value of the water must be used before the water can be used for irrigation unless a waiver is granted; a waiver has been requested. The well is located about 3 1/2 miles north and 1 mile east of Challis. The application also requests a second well on the same property, as the first well does not provide enough water for the proposed uses. This application proposes the diversion and use of water

water for the proposed uses. This application proposes the diversion and use of water tributary to the Salmon River (a federally designated Wild & Scenic River). The decreed minimum stream flow rights for the federal Wild & Scenic Rivers are subordinate to certain categories of water use and to specific amounts of water use established after the minimum stream flow. The non-consumptive uses proposed in this application will benefit from the subordination provision. The irrigation use proposed in this application will benefit from the subordination provision because the diversion rate and acres are the same as those permitted by 72-16699 which have been applied to the subordination amounts specified in the decree for the Wild & Scenic River listed above.



Irrigation From Storage

Storage Pond

Heating

Well

D

Well

Fish

Pool

Ghs

App 72-16772 Bullock