

## **MEMORANDUM**

TO: File

FROM: Steve Lester 

DATE: October 20, 2008

RE: Application 63-32185 and Conditions of Approval

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This 2005 application lingered in the Basin 63 Moratorium backlog until recent discussion between IDWR and IDFG directors caused it to be processed. Mitigation for consumptive use from ground water was not proposed, indicating the application was processed somewhat out of priority order. The site is downstream from Star in Basin 63 now open to new ground water rights. The standard condition about “subject to all prior rights” can cover the timing of processing issue if necessary.

The original application included a consultant, but the May 2008 amended application deleted the consultant.

Previously, abbreviated rule 40 information for a large diversion (6.0 cfs) was adequately covered by a combination of the consultant report received 10/21/2005 and existing IDWR information. Rule 40 information became unnecessary by the October 16, 2008 email reducing the rate to 4.8 cfs. Additional legal notice is not needed for that change, and the priority date remains the same.

An IDWR map was included with the application checklist to show known domestic and/or stockwater (D/S) wells within a one-half mile radius of proposed production wells for this project. The closest D/S wells are for rights 63-26060 and 63-25860 in the SWNE. Well logs for those are not found in IDWR records (1905 and 1979 priorities).

A well log search revealed D/S wells drilled in Section 25 <sup>1</sup> range from 70-176 ft. deep and are cased from 69-139 ft. Rights 63-26090 and 63-25860 are not scanned in IDWR records but microfiche copies of the original SRBA claims list well depths of 120 and 105 ft., respectively.

The project is not intended to intercept shallow ground water (application remarks – not typical excavated pond scenario). Site characteristics, IDFG funding in relation to well drilling and pumping costs, and a probable more modest quantity of water needed after initial fill of the ponds (probably will not pump close to 4.8 cfs in the long run) will likely minimize impacts to others in the local area.

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<sup>1</sup> Excludes IDFG 2004 domestic/test well noted in consultant’s report.

Still, some concerns remain about possible injury to adjacent wells constructed in about the same aquifer zone being proposed in this application. Modified conditions from recently approved Permit 67-14750 (Heck) were applied to this IDFG project to address injury concerns – pump tests etc. IDFG accepted these conditions in its October 16, 2008 email. Protests were not filed, indicating that other local public concerns were not found.

Dam Safety concerns are noted in the June 19, 2008 email in the file. We do not know if any single pond will exceed the minimum 50 af threshold for possible regulation by Dam Safety. Dams under 10 ft. are proposed. A condition of approval about dam safety is justified because of uncertainty about any single pond capacity and/or possible design changes as the project is developed.

The application should be approved with the following conditions of approval:

1) Standard conditions used for all permits. — 26A,004,

2) Proof due October 1, 2013.

Plus

3) 046 (for well drilling)

4) The right holder shall conduct a pump test of at least twenty-four hours for each well used as a point of diversion in connection with this water right. The pump test shall be designed and conducted by a qualified professional, such as a hydrologist, geologist, or engineer, and shall be approved by the Department before being conducted. The pump test shall measure all standard parameters associated with pump tests for the right holder's well(s) being tested and for any observation well(s) used for the pump test. The right holder shall keep records of the data collected during the pump test and shall make it available to the Department upon request. This condition is waived if the right holder provides written notification to the Department documenting unsuccessful attempts to obtain permission for pump test activities from owners of wells located within a one-half mile radius from any point of diversion developed under this right.

5) If the right holder is notified by the Department and/or by another well owner that use under this right has allegedly injured a well that was constructed and used prior to approval of this right, the right holder shall cease pumping and shall notify the Department in writing. The Department shall require pump testing by the right holder to determine if the use of this right has injured senior right holders. Pumping under this right shall not resume until the Department has issued written notification to the right holder that either (a) the right holder has demonstrated injury has not occurred, or (b) the right holder has demonstrated injury has occurred but the diversion and use under this right have not caused the injury, or (c) the right holder has demonstrated injury has occurred and that the right holder will mitigate the injury. A mitigation plan shall be approved by the Department prior to any mitigation activity.

6) In accordance with sections 42-1710 through 42-1721, Idaho Code, a dam or artificial barrier, together with appurtenant works, which is or will be ten (10) feet or more in height or will have an impounding capacity at maximum storage elevation of fifty (50) acre-feet or more, shall be subject to regulation by the Department of Water Resources.

7) 01M (modified) After specific notification by the Department, the right holder shall install a suitable measuring device(s) or shall enter into an agreement with the Department to use power records to determine the amount of water diverted from all authorized points of diversion under this approval and shall annually report the information to the Department.

8) 121 (for future mitigation)

9) Wildlife use is for the Roswell Marsh Wildlife Habitat Area.

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

Office Use Only  
Well ID No. 815532  
Inspected by \_\_\_\_\_  
Twp \_\_\_\_\_ Rge \_\_\_\_\_ Sec \_\_\_\_\_  
1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_  
Lat: \_\_\_\_\_ Long: \_\_\_\_\_

1. WELL TAG NO. D 0031214  
DRILLING PERMIT NO. \_\_\_\_\_  
Water Right or Injection Well No. 63-32185

2. OWNER:  
Name Idaho Dept. of Fish & Game  
Address P.O. Box 25 600 S. Walnut  
City Boise State ID Zip 83704

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 5 North ☒ or South ☐  
Rge. 6 East ☐ or West ☒  
Sec. 25 1/4 SW 1/4 NE 1/4  
Gov't Lot \_\_\_\_\_  
County Latah  
Lat: \_\_\_\_\_ Long: \_\_\_\_\_  
Address of Well Site Pebble Lane S. Hwy 18  
City Parma

Lt. \_\_\_\_\_ Blk. \_\_\_\_\_ Sub. Name \_\_\_\_\_

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation  
☐ Thermal ☐ Injection ☒ Other Wildlife

5. TYPE OF WORK check all that apply

☒ New Well ☐ Modify ☐ Abandonment ☐ Other \_\_\_\_\_

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other \_\_\_\_\_

7. SEALING PROCEDURES

| Seal Material       | From     | To        | Weight / Volume | Seal Placement Method |
|---------------------|----------|-----------|-----------------|-----------------------|
| <u>3/8 Bencrete</u> | <u>0</u> | <u>18</u> | <u>10 Bags</u>  | <u>dry pour 10"</u>   |

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 145  
Was drive shoe seal tested? ☐ Y ☒ N How? \_\_\_\_\_

8. CASING/LINER:

| Diameter   | From        | To         | Gauge     | Material     | Casing                              | Liner                    | Welded                              | Threaded                 |
|------------|-------------|------------|-----------|--------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <u>10"</u> | <u>+1.6</u> | <u>145</u> | <u>20</u> | <u>Steel</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_  
Packer ☐ Y ☐ N Type \_\_\_\_\_

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Holt Use Performance  
Screen Type & Method of Installation \_\_\_\_\_

| From      | To        | Slot Size | Number              | Diameter | Material | Casing                   | Liner                    |
|-----------|-----------|-----------|---------------------|----------|----------|--------------------------|--------------------------|
| <u>85</u> | <u>95</u> | <u>8</u>  | <u>perforations</u> |          |          | <input type="checkbox"/> | <input type="checkbox"/> |

10. FILTER PACK

| Filter Material | From       | To         | Weight / Volume | Placement Method |
|-----------------|------------|------------|-----------------|------------------|
| <u>N/A</u>      | <u>N/A</u> | <u>N/A</u> | <u>N/A</u>      | <u>N/A</u>       |

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

10 ft. below ground Artesian pressure \_\_\_\_\_ lb.  
Depth flow encountered \_\_\_\_\_ ft. Describe access port or control devices: \_\_\_\_\_  
Sanitary Well Cap

12. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

| Yield gal./min. | Drawdown   | Pumping Level | Time         |
|-----------------|------------|---------------|--------------|
| <u>45</u>       | <u>35'</u> | <u>80</u>     | <u>1 Hrs</u> |

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_

Water Quality test or comments: \_\_\_\_\_

Depth first Water Encounter \_\_\_\_\_

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

| Bore Dia.  | From       | To         | Remarks: Lithology, Water Quality & Temperature | Y | N |
|------------|------------|------------|-------------------------------------------------|---|---|
| <u>10"</u> | <u>0</u>   | <u>3</u>   | <u>top soil</u>                                 |   |   |
| <u>10"</u> | <u>3</u>   | <u>10</u>  | <u>brown clay</u>                               |   |   |
| <u>10"</u> | <u>10</u>  | <u>20</u>  | <u>fine sand</u>                                |   |   |
| <u>10"</u> | <u>20</u>  | <u>78</u>  | <u>gravel</u>                                   |   |   |
| <u>10"</u> | <u>78</u>  | <u>80</u>  | <u>cemented sand</u>                            |   |   |
| <u>10"</u> | <u>80</u>  | <u>100</u> | <u>coarse sand &amp; top gravel</u>             |   |   |
| <u>10"</u> | <u>100</u> | <u>110</u> | <u>blue clay w/ sand &amp; silt</u>             |   |   |
| <u>10"</u> | <u>110</u> | <u>127</u> | <u>coarse sand w/ gravel</u>                    |   |   |
| <u>10"</u> | <u>127</u> | <u>135</u> | <u>coarse sand w/ clay &amp; silt</u>           |   |   |
| <u>10"</u> | <u>135</u> | <u>145</u> | <u>coarse sand w/ pea gravel</u>                |   |   |

\* OK PER APP. 63-32185.

WD fee upgrade covered  
per IOFG - Iowa electronic  
billing, see 6/24/08 email

-SL 10/20/08

RECEIVED

JUL 08 2004

WATER RESOURCES  
WESTERN REGION

Completed Depth 145 (Measurable)

Date: Started 5-19-04 Completed 5-25-04

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Richard & Co Firm No. 333

Principal Driller \_\_\_\_\_ Date \_\_\_\_\_  
and \_\_\_\_\_  
Driller or Operator \_\_\_\_\_ Date 6-25-04

Operator \_\_\_\_\_ Date \_\_\_\_\_

Principal Driller and Rig Operator Required.  
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

upgrade existing well