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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

APR 08 2008

WELL LABEL # L 82750

START CARD # 181254

(1) LAND OWNER Owner Well I.D. Delta Well #8

First Name Last Name
Company City of Keizer
Address 930 Chemewa Rd
City Keizer State OR Zip 97307

(2) TYPE OF WORK
[X] New Well [ ] Deepening [ ] Conversion
[ ] Alteration (repair/recondition) [ ] Abandonment

(3) DRILL METHOD
[X] Rotary Air [ ] Rotary Mud [ ] Cable [ ] Auger [ ] Cable Mud
[X] Reverse Rotary [ ] Other

(4) PROPOSED USE
[ ] Domestic [ ] Irrigation [X] Community
[ ] Industrial/ Commercial [ ] Livestock [ ] Dewatering
[ ] Thermal [ ] Injection [ ] Other

(5) BORE HOLE CONSTRUCTION Special Standard [X] (Attach copy)
Depth of Completed Well 328. ft.

Table with columns: Dia, From, To, Material, SEAL From, To, Amt, lbs. Rows include Cement, Bentonite Chips, and Cement.

How was seal placed: Method [ ] A [ ] B [X] C [ ] D [ ] E
Backfill placed from 167.7 ft. to 170. ft. Material sugar sand
Filter pack from 328. ft. to 189. ft. Material pea gravel Size pea gravel
Explosives used: [ ] Yes Type Amount

(6) CASING/LINER Table with columns: Casing Liner, Dia, From, To, Gauge, Stl, Plstc, Wid, Thrd. Includes a diagram of casing sections.

Shoe [ ] Inside [X] Outside [ ] Other Location of shoe(s) 155.5
Temp casing [X] Yes Dia 16. From 0 To 155.5

(7) PERFORATIONS/SCREENS
Perforations Method
Screens Type Wire Wrap Material 304 SS

Table with columns: Perf/ Scree /Liner, Casing Screen Dia, From, To, Scrn/slot width, Slot lengt, # of slots, Tele/ pipe size. Lists screen details for different depths.

(8) WELL TESTS: Minimum testing time is 1 hour

Table for well tests with columns: Pump/Bailer/Air/Flowing Artesian, Yield gal/min, Drawdown, Drill stem/Pump depth, Duration (hr). Includes a handwritten value of 157' for drawdown.

Temperature 56 °F Lab analysis [ ] Yes By
Water quality concerns? [ ] Yes (describe below)
Table with columns: From, To, Description, Amount, Units.

(9) LOCATION OF WELL (legal description)

County MARION Twp 6.00 S N/S Range 3.00 W E/W WM
Sec 26 NE 1/4 of the SW 1/4 Tax Lot 4000
Tax Map Number Lot
Lat 45 1 3.000" or 45.0175 DMS or DD
Long -123 1 16.00" or -123.02111111 DMS or DD
[ ] Street address of well [X] Nearest address
939 Delta Drive NE, Keizer, OR

(10) STATIC WATER LEVEL Date SWL(psi) + SWL(ft)
Existing Well / Predeepening
Completed Well 04-24-2006 72.9
Flowing Artesian? [ ]

WATER BEARING ZONES Depth water was first 70.
Table with columns: SWL Date, From, To, found, Est Flow, SWL(psi), + SWL(ft). Rows include 12-16-2005 and 04-24-2006.

(11) WELL LOG Ground Elevation
Table with columns: Material, From, To. Lists various soil and rock layers such as asphalt, brown clay, gravel, and sand.

Date Started 12-05-2005 Completed 04-26-2006

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number Date
Password: (if filing electronically)
Signed

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 523 Date 5-15-06
Password: (if filing electronically)
Signed
Contact Info



# Oregon

Theodore R. Kulongoski, Governor

## Water Resources Department

North Mall Office Building  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266  
503-986-0900  
FAX 503-986-0904

April 3, 2006

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5-08-06

GEO TECH EXPLORATIONS  
ROBERT STADELI #1523  
19700 SW TETON  
TUALATIN OR 97062

### FINAL ORDER

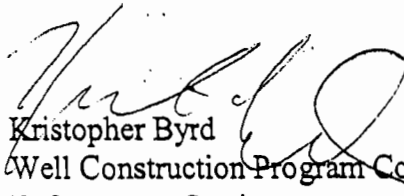
Dear Robert:

The Special Standard request you submitted for owner: City of Keizer, Start Card number 181254 is hereby approved for the following: You may *seal* this water well from a depth of 71 ft bgs to 65 ft bgs with unhydrated bentonite due to the cement losses encountered in this interval. The chips may be added until the chips return to theoretical hole volume. Cement must then be substituted for the bentonite. The placement of the bentonite shall conform to the Departments rules and the manufacturers specifications and result in a seal that is free of voids or bridges. Care shall be taken to minimize the introduction of bentonite dust. Only sodium bentonite chips manufactured to be greater than 1/4 inch or tablets shall be used below the water level in the sealing interval. (See OAR 690-220-0060, 690-220-0030 and 690-220-0090). Your Special Standard request form is enclosed.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, I may be contacted at (503) 986-0851, or by e-mail at [Kristopher.R.Byrd@wr.d.state.or.us](mailto:Kristopher.R.Byrd@wr.d.state.or.us).

Sincerely,

  
Kristopher Byrd  
Well Construction Program Coordinator  
Enforcement Section

cc: Joel Jeffery, NW Region Well Inspector  
File

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

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T 10591



# WELL TEST DATA SHEET

**GEO-TECH EXPLORATIONS**  
 A DIVISION OF BOART LONGYEAR  
 19700 SW Teton Ave, Tualatin, OR 97062  
 Phone 503-692-6400 Fax 503-692-4759

Owner's Name \_\_\_\_\_ City of Keizer \_\_\_\_\_ Well Location \_\_\_\_\_ Keizer Well # 8  
 Date 4/25/06

Well Dia. 12-inch Depth 328 Static Level 84.59 Cased to \_\_\_\_\_ Perforated @ \_\_\_\_\_  
 Test Pump Setting \_\_\_\_\_ Test Pump Size \_\_\_\_\_ Air Line \_\_\_\_\_ Tested by Steve Vibbard  
 Static After Test \_\_\_\_\_ Drilled by Brad Wright Test Started 1:34 pm 4/25/06  
 Test Stopped 2:31 pm (4/25/06) Max GPM \_\_\_\_\_ Reference Point 3.3 feet above ground surface

Remarks: One hour pump test. Probe length = 4/10 short of 100 feet. All measurements taken from the top of pvc stickup at 3.3 feet above ground surface.

| Time       | Depth to Water (ft. BRP) | Drawdown (ft) | Specific Capacity | Sand Reading | Water Quality | Discharge Rates       |                   |                     |
|------------|--------------------------|---------------|-------------------|--------------|---------------|-----------------------|-------------------|---------------------|
|            |                          |               |                   |              |               | Flow Hand Reading gpm | Totalizer Reading | Calculated Rate gpm |
| 4/25/06 pm |                          |               |                   |              |               |                       |                   |                     |
| 1:34       | 84.59                    | 0             | ---               |              |               |                       |                   | 1000                |
| 1:35       | 137.75                   | 53.16         | 18.81             |              |               |                       |                   | 1000                |
| 1:36       | 146.65                   | 62.06         | 16.11             |              |               |                       |                   | 1000                |
| 1:37       | 149.50                   | 64.91         | 15.41             |              |               |                       |                   | 1000                |
| 1:38       | 151.70                   | 67.11         | 14.90             |              |               |                       |                   | 1000                |
| 1:39       | 152.50                   | 67.91         | 14.73             |              |               |                       |                   | 1000                |
| 1:40       | 153.20                   | 68.61         | 14.58             |              |               |                       |                   | 1000                |
| 1:41       | 153.90                   | 69.31         | 14.43             |              |               |                       |                   | 1000                |
| 1:42       | 154.35                   | 69.76         | 14.33             |              |               |                       |                   | 1000                |
| 1:43       | 154.90                   | 70.31         | 14.22             |              |               |                       |                   | 1000                |
| 1:44       | 155.50                   | 70.91         | 14.10             | 8.20         | empty sand    |                       |                   | 1000                |
| 1:45       | 155.90                   | 71.31         | 14.02             | 0.00         |               |                       |                   | 1000                |
| 1:46       | 156.00                   | 71.41         | 14.00             | 0.10         |               |                       |                   | 1000                |
| 1:47       | 156.35                   | 71.76         | 13.94             | 0.20         |               |                       |                   | 1000                |

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| Time       | Depth to Water (ft. BRP) | Drawdown (ft) | Specific Capacity | Sand Reading | Water Quality | Discharge Rates |                       |                   |                     |
|------------|--------------------------|---------------|-------------------|--------------|---------------|-----------------|-----------------------|-------------------|---------------------|
|            |                          |               |                   |              |               | Time            | Flow Hand Reading gpm | Totalizer Reading | Calculated Rate gpm |
| 4/24/06 am |                          |               |                   |              |               |                 |                       |                   |                     |
| 1:48       | 156.75                   | 72.16         | 13.86             | 0.30         |               |                 |                       |                   | 1000                |
| 1:49       | 156.90                   | 72.31         | 13.83             | 0.40         |               |                 |                       |                   | 1000                |
| 1:50       | 157.20                   | 72.61         | 13.77             | 0.50         |               |                 |                       |                   | 1000                |
| 1:51       | 157.40                   | 72.81         | 13.73             | 0.55         |               |                 |                       |                   | 1000                |
| 1:52       | 157.60                   | 73.01         | 13.70             | 0.60         |               |                 |                       |                   | 1000                |
| 1:53       | 157.70                   | 73.11         | 13.68             | 0.65         |               |                 |                       |                   | 1000                |
| 1:54       | 157.80                   | 73.21         | 13.66             | 0.70         |               |                 |                       |                   | 1000                |
| 1:55       | 157.90                   | 73.31         | 13.64             | 0.70         |               |                 |                       |                   | 1000                |
| 1:56       | 158.00                   | 73.41         | 13.62             | 0.70         |               |                 |                       |                   | 1000                |
| 1:57       | 158.15                   | 73.56         | 13.59             | 0.75         |               |                 |                       |                   | 1000                |
| 1:58       | 158.25                   | 73.66         | 13.58             | 0.90         |               |                 |                       |                   | 1000                |
| 1:59       | 158.35                   | 73.76         | 13.56             | 1.00         |               |                 |                       |                   | 1000                |
| 2:00       | 158.45                   | 73.86         | 13.54             | 1.00         |               |                 |                       |                   | 1000                |
| 2:01       | 158.65                   | 74.06         | 13.50             | 1.00         |               |                 |                       |                   | 1000                |
| 2:02       | 158.75                   | 74.16         | 13.48             | 1.05         |               |                 |                       |                   | 1000                |
| 2:03       | 158.78                   | 74.19         | 13.48             | 1.10         |               |                 |                       |                   | 1000                |
| 2:04       | 158.70                   | 74.11         | 13.49             | 1.15         |               |                 |                       |                   | 1000                |
| 2:05       | 158.68                   | 74.09         | 13.50             | 1.30         |               |                 |                       |                   | 1000                |
| 2:06       | 158.75                   | 74.16         | 13.48             | 1.50         |               |                 |                       |                   | 1000                |
| 2:07       | 158.75                   | 74.16         | 13.48             |              |               |                 |                       |                   | 1000                |
| 2:08       | 158.85                   | 74.26         | 13.47             | 1.78         |               |                 |                       |                   | 1000                |
| 2:09       | 158.90                   | 74.31         | 13.46             | 1.90         |               |                 |                       |                   | 1000                |
| 2:10       | 158.92                   | 74.33         | 13.45             | 2.00         |               |                 |                       |                   | 1000                |
| 2:11       | 158.98                   | 74.39         | 13.44             | 2.10         |               |                 |                       |                   | 1000                |
| 2:12       | 159.05                   | 74.46         | 13.43             | 2.15         |               |                 |                       |                   | 1000                |
| 2:13       | 159.10                   | 74.51         | 13.42             | 2.20         |               |                 |                       |                   | 1000                |
| 2:14       | 159.12                   | 74.53         | 13.42             | 2.30         |               |                 |                       |                   | 1000                |
| 2:15       | 159.18                   | 74.59         | 13.41             | 2.50         |               |                 |                       |                   | 1000                |

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WATER RESOURCES DEPT  
SALEM OREGON

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WATER RESOURCES DEPT  
SALEM, OREGON

# WELL TEST DATA SHEET

**GEO-TECH EXPLORATIONS**  
A DIVISION OF BOART LONGYEAR  
19700 SW Teton Ave, Tualatin, OR 97062  
Phone 503-692-6400 Fax 503-692-4759

Owner's Name City of Keizer Well Location Keizer Well # 8  
Well Dia. 12-inch Depth 328 Static Level 76.5 Cased to Perforated @  
Test Pump Setting Test Pump Size Air Line Tested by Steve Vibbard  
Static After Test Drilled by Brad Wright Test Started 10:40am 4/24/06  
Test Stopped 12:15 pm (4/25/06) Max GPM Reference Point 3.3 feet above ground surface

Remarks: Probe length = 4/10 short of 100 feet. All measurements taken from the top of pvc stickup at 3.3 feet above ground surface>

| Time       | Depth to Water (ft. BRP) | Drawdown (ft) | Specific Capacity | Sand Reading | Water Quality | Discharge Rates |                       |                   |                     |
|------------|--------------------------|---------------|-------------------|--------------|---------------|-----------------|-----------------------|-------------------|---------------------|
|            |                          |               |                   |              |               | Time            | Flow Hand Reading gpm | Totalizer Reading | Calculated Rate gpm |
| 4/24/06 am |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:27am    | SWL=76.0                 |               |                   |              |               |                 |                       | 81908             |                     |
| 10:25      | SWL=76.0                 |               |                   |              |               |                 |                       |                   |                     |
| 10:26      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:27      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:28      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:28      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:29      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:30      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:31      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:32      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:33      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:34      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:35      |                          |               |                   |              |               |                 |                       |                   |                     |
| 10:36      | SWL=76.5                 |               |                   |              |               |                 |                       |                   |                     |

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality   | Discharge Rates |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|-----------------|-----------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |                 | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/24/06<br>am |                             |                  |                      |                 |                 |                 |                                |                      |                        |
| 10:37 am      |                             |                  |                      |                 |                 |                 |                                |                      |                        |
| 10:38         |                             |                  |                      |                 |                 |                 |                                |                      |                        |
| 10:39         |                             |                  |                      |                 |                 |                 |                                |                      |                        |
| 10:40         | Start Pump                  |                  |                      |                 |                 |                 | 480                            |                      |                        |
| 10:41         | 76.2                        | -0.3             | -1600.00             |                 |                 |                 | 480                            |                      |                        |
| 10:42         | 81.6                        | 5.1              | 94.12                |                 |                 |                 | 480                            |                      |                        |
| 10:43         | 81.8                        | 5.3              | 90.57                |                 |                 |                 | 480                            |                      |                        |
| 10:44         | 83.6                        | 7.1              | 67.61                |                 |                 |                 | 480                            |                      |                        |
| 10:45         | 87.2                        | 10.7             | 44.86                |                 |                 |                 | 480                            |                      |                        |
| 10:46         | -----                       |                  |                      |                 |                 |                 | 480                            |                      |                        |
| 10:47         | -----                       |                  |                      |                 |                 |                 | 480                            |                      |                        |
| 10:48         | -----                       |                  |                      |                 |                 |                 | 480                            |                      |                        |
| 10:49         | 96.2                        | 19.7             | 24.37                |                 |                 |                 | 480                            |                      |                        |
| 10:50         | 99.4                        | 22.9             | 20.96                |                 |                 |                 | 480                            |                      |                        |
| 10:51         | 102.1                       | 25.6             | 18.75                |                 |                 |                 | 480                            |                      |                        |
| 10:52         | 103.2                       | 26.7             | 17.98                |                 |                 |                 | 480                            |                      |                        |
| 10:53         | 104.5                       | 28               | 17.14                |                 |                 |                 | 480                            |                      |                        |
| 10:54         | 104.7                       | 28.2             | 17.02                |                 |                 |                 | 480                            |                      |                        |
| 10:55         | 104.7                       | 28.2             | 17.02                |                 |                 |                 | 480                            |                      |                        |
| 10:56         | 104.7                       | 28.2             | 17.02                |                 |                 |                 | 480                            |                      |                        |
| 10:57         | 104.7                       | 28.2             | 17.02                |                 | Cloudy; no sand |                 | 480                            |                      |                        |
| 10:58         | 105.4                       | 28.9             | 16.61                |                 |                 |                 | 480                            |                      |                        |
| 10:59         | 105.6                       | 29.1             | 16.49                |                 |                 |                 | 480                            |                      |                        |
| 11:00         | 105.7                       | 29.2             | 16.44                |                 |                 |                 | 480                            |                      |                        |
| 11:01         | 105.9                       | 29.4             | 16.33                |                 |                 |                 | 480                            |                      |                        |
| 11:02         | 106                         | 29.5             | 16.27                |                 |                 |                 | 480                            |                      |                        |
| 11:03         | 106.2                       | 29.7             | 16.16                |                 |                 |                 | 480                            |                      |                        |
| 11:04         | 105.9                       | 29.4             | 16.33                |                 |                 |                 | 480                            |                      |                        |
|               |                             |                  |                      |                 | <b>RECEIVED</b> |                 |                                |                      |                        |

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality                  | Discharge Rates |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|--------------------------------|-----------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |                                | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/24/06<br>am |                             |                  |                      |                 |                                |                 |                                |                      |                        |
| 11:05 am      | 105.9                       | 29.4             | 16.33                |                 | Cleaner /Still a little cloudy |                 | 480                            |                      |                        |
| 11:06         | 106.0                       | 29.5             | 16.27                |                 |                                |                 | 480                            |                      |                        |
| 11:07         | 106.0                       | 29.5             | 16.27                |                 |                                |                 | 480                            |                      |                        |
| 11:08         | 106.1                       | 29.6             | 16.22                |                 |                                |                 | 480                            |                      |                        |
| 11:09         | 106.1                       | 29.6             | 16.22                |                 |                                |                 | 480                            |                      |                        |
| 11:10         | 106.2                       | 29.7             | 16.16                |                 | cleaner                        |                 | 480                            |                      |                        |
| 11:11         | 106.2                       | 29.7             | 16.16                |                 |                                |                 | 480                            |                      |                        |
| 11:12         | 106.0                       | 29.5             | 16.27                |                 |                                |                 | 480                            |                      |                        |
| 11:13         | 105.9                       | 29.4             | 16.33                |                 |                                |                 | 480                            |                      |                        |
| 11:14         | 105.8                       | 29.3             | 16.38                |                 |                                |                 | 480                            |                      |                        |
| 11:15         | 105.9                       | 29.4             | 16.33                |                 |                                |                 | 480                            |                      |                        |
| 11:16         | 105.9                       | 29.4             | 16.33                |                 |                                |                 | 480                            |                      |                        |
| 11:17         | 105.9                       | 29.4             | 16.33                |                 |                                |                 | 480                            |                      |                        |
| 11:18         | -----                       |                  |                      |                 | Increase pumping               |                 | 640                            |                      |                        |
| 11:19         | 119.0                       | 42.5             | 15.06                |                 |                                |                 | 640                            |                      |                        |
| 11:20         | 119.0                       | 42.5             | 15.06                |                 |                                |                 | 640                            |                      |                        |
| 11:21         | 119.1                       | 42.6             | 15.02                |                 |                                |                 | 640                            |                      |                        |
| 11:22         | 118.9                       | 42.4             | 15.09                |                 |                                |                 | 640                            |                      |                        |
| 11:23         | 118.9                       | 42.4             | 15.09                |                 |                                |                 | 640                            |                      |                        |
| 11:24         | 118.9                       | 42.4             | 15.09                |                 |                                |                 | 640                            |                      |                        |
| 11:25         | 118.7                       | 42.2             | 15.17                |                 |                                |                 | 640                            |                      |                        |
| 11:26         | 118.7                       | 42.2             | 15.17                |                 |                                |                 | 640                            |                      |                        |
| 11:27         | 118.7                       | 42.2             | 15.17                |                 |                                |                 | 640                            |                      |                        |
| 11:28         | 118.8                       | 42.3             | 15.13                |                 |                                |                 | 640                            |                      |                        |
| 11:29         | 118.7                       | 42.2             | 15.17                |                 |                                |                 | 640                            |                      |                        |
| 11:30         | 118.7                       | 42.2             | 15.17                |                 |                                |                 | 640                            |                      |                        |
| 11:31         | 118.8                       | 42.3             | 15.13                |                 |                                |                 | 640                            |                      |                        |
| 11:32         | 118.8                       | 42.3             | 15.13                |                 |                                |                 | 640                            |                      |                        |
| 11:33         | 118.8                       | 42.3             | 15.13                |                 |                                |                 | 640                            |                      |                        |

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| Time<br>4/24/06<br>am/pm | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality    | Discharge Rates |                                |                      |                        |
|--------------------------|-----------------------------|------------------|----------------------|-----------------|------------------|-----------------|--------------------------------|----------------------|------------------------|
|                          |                             |                  |                      |                 |                  | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 11:34 am                 | -----                       |                  |                      |                 | Increase pumping |                 | 810                            |                      |                        |
| 11:35                    | 129.0                       | 52.5             | 15.43                |                 |                  |                 | 810                            |                      |                        |
| 11:36                    | 134.0                       | 57.5             | 14.09                |                 |                  |                 | 810                            |                      |                        |
| 11:37                    | 134.5                       | 58               | 13.97                |                 |                  |                 | 810                            |                      |                        |
| 11:38                    | 134.6                       | 58.1             | 13.94                |                 |                  |                 | 810                            |                      |                        |
| 11:39                    | 135.3                       | 58.8             | 13.78                |                 |                  |                 | 810                            |                      |                        |
| 11:40                    | 135.7                       | 59.2             | 13.68                |                 |                  |                 | 810                            |                      |                        |
| 11:41                    | 135.8                       | 59.3             | 13.66                |                 |                  |                 | 810                            |                      |                        |
| 11:42                    | 136.0                       | 59.5             | 13.61                |                 |                  |                 | 810                            |                      |                        |
| 11:43                    | 136.1                       | 59.6             | 13.59                |                 |                  |                 | 810                            |                      |                        |
| 11:44                    | 136.1                       | 59.6             | 13.59                |                 |                  |                 | 810                            |                      |                        |
| 11:45                    | 136.1                       | 59.6             | 13.59                |                 |                  |                 | 810                            |                      |                        |
| 11:46                    | 136.2                       | 59.7             | 13.57                |                 |                  |                 | 810                            |                      |                        |
| 11:47                    | -----                       |                  |                      |                 |                  |                 | 810                            |                      |                        |
| 11:48                    | -----                       |                  |                      |                 |                  |                 | 810                            |                      |                        |
| 11:49                    | -----                       |                  |                      |                 |                  |                 | 810                            |                      |                        |
| 11:50                    | 136.3                       | 59.8             |                      |                 |                  |                 | 810                            |                      |                        |
| 11:55                    | 136.4                       | 59.9             | 13.52                |                 |                  |                 | 810                            |                      |                        |
| 12:00 pm                 | 136.6                       | 60.1             | 13.48                |                 |                  |                 | 810                            |                      |                        |
| 12:03                    | 136.9                       | 60.4             | 13.41                |                 |                  |                 | 810                            |                      |                        |
| 12:05                    | 137.2                       | 60.7             | 13.34                |                 |                  |                 | 810                            |                      |                        |
| 12:10                    | 137.3                       | 60.8             | 13.32                |                 |                  |                 | 810                            |                      |                        |
| 12:15                    | 137.3                       | 60.8             | 16.45                |                 | Increase pump    |                 | 1000                           |                      |                        |
| 12:20                    | 139.2                       | 62.7             | 15.95                |                 | Very cloudy      |                 | 1000                           |                      |                        |
| 12:25                    | 147.0                       | 70.5             | 14.18                |                 |                  |                 | 1000                           |                      |                        |
| 12:30                    | 146.0                       | 69.5             | 14.39                |                 | <b>RECEIVED</b>  |                 | 1000                           |                      |                        |
| 12:35                    | 148.0                       | 71.5             | 13.99                |                 |                  |                 |                                | 1000                 |                        |
| 12:40                    | 148.1                       | 71.6             | 13.97                |                 | APR 0.8 2008     |                 | 1000                           |                      |                        |

T 10591

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality                                  | Discharge Rates |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|--|-----------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |  | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/24/06<br>pm |                             |                  |                      |                 |  |                 |                                |                      |                        |
| 12:43 pm      | 150.6                       | 74.1             | 13.50                |                 |  |                 | 1000                           |                      | 1000                   |
| 12:45         | 154.0                       | 77.5             | 12.90                |                 |  |                 | 1000                           |                      | 1000                   |
| 12:55         | 153.8                       | 77.3             | 12.94                |                 |  |                 | 1000                           |                      | 1000                   |
| 1:00          | 154.0                       | 77.5             | 12.90                | 0               | water dirty                                    |                 | 24"                            |                      | 1000                   |
| 1:15          | 154.3                       | 77.8             | 12.85                | 1.3             | water dirty                                    |                 | 24"                            |                      | 1000                   |
| 1:30          | 154.55                      | 78.05            | 12.81                | 5.0             | H2O starting to clear up                       |                 | 24"                            |                      | 1000                   |
| 1:45          | 154.4                       | 77.9             | 12.84                | 10.0            | empty sand ;<br>Pat said started meadow @ 1:30 |                 | 24"                            |                      | 1000                   |
| 2:00          | 154.4                       | 77.9             | 12.84                | 3.7             | Cloudy   |                 | 24"                            |                      | 1000                   |
| 2:15          | 154.8                       | 78.3             | 12.77                | 6.4             | cloudy   |                 | 24"                            |                      | 1000                   |
| 2:30          | 154.9                       | 78.4             | 12.76                | 7.5             | Cloudy; Empty sand                             |                 | 24"                            |                      | 1000                   |
| 2:45          | 155.0                       | 78.5             | 12.74                | 0.6             | cloudy   |                 | 24"                            |                      | 1000                   |
| 3:00          | 155.15                      | 78.65            | 12.71                | 1.2             | cloudy   |                 | 24"                            |                      | 1000                   |
| 3:15          | 155.3                       | 78.8             | 12.69                | 1.8             | Slightly cloudy                                |                 | 24"                            |                      | 1000                   |
| 3:30          | 155.45                      | 78.95            | 12.67                | 2.5             | clear  |                 | 24"                            |                      | 1000                   |
| 3:45          | 155.4                       | 78.9             | 12.67                | 3.8             | Clear water temp =52°                          |                 | 24"                            |                      | 1000                   |
| 4:00          | 155.9                       | 79.4             | 12.59                | 7.0             | Clear; Empty sand                              |                 | 24"                            |                      | 1000                   |
| 4:15          | 155.7                       | 79.2             | 12.63                | 0.4             | clear  |                 | 24"                            |                      | 1000                   |
| 4:30          | 155.8                       | 79.3             | 12.61                | 0.8             | clear  |                 | 24"                            |                      | 1000                   |
| 4:45          | 155.9                       | 79.4             | 12.59                | 1.2             | clear  |                 | 24"                            |                      | 1000                   |
| 5:00          | 155.8                       | 79.3             | 12.61                | 1.3             | clear  |                 | 24"                            |                      | 1000                   |
| 5:15          | 155.8                       | 79.3             | 12.61                | 1.5             | clear  |                 | 24"                            |                      | 1000                   |
| 5:30          | 155.4                       | 78.9             | 12.67                | 2.0             | clear  |                 | 24"                            |                      | 1000                   |
| 5:45          | 155.9                       | 79.4             | 12.59                | 2.2             | clear  |                 | 24"                            |                      | 1000                   |
| 6:00          | 155.95                      | 79.45            | 12.59                | 2.4             | clear  |                 | 24"                            |                      | 1000                   |
| 6:15          | 156.0                       | 79.5             | 12.58                | 2.6             | clear  |                 | 24"                            |                      | 1000                   |
| 6:30          | 155.9                       | 79.4             | 12.59                | 2.8             | clear  |                 | 24"                            |                      | 1000                   |

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APR 08 2008

WATER RESOURCES DEPT.  
SALEM, OREGON

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality   | Discharge Rates |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|-----------------|-----------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |                 | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/24/06<br>pm | 155.8                       | 79.3             | 12.61                | 6.0             | clear           |                 | 24"                            |                      | 1000                   |
| 7:00          | 157.1                       | 80.6             | 0.00                 |                 |                 |                 |                                |                      |                        |
| 7:15          | 157.0                       | 80.5             | 0.00                 |                 | Empty sand      |                 |                                |                      |                        |
| 7:30          | 157.1                       | 80.6             | 12.41                | 0.75            | clear           |                 | 24"                            |                      | 1000                   |
| 7:45          | 157.2                       | 80.7             | 12.39                | 1.5             | clear           |                 | 24"                            |                      | 1000                   |
| 8:00          | 157.3                       | 80.8             | 12.38                | 2.0             | clear           |                 | 24"                            |                      | 1000                   |
| 8:30          | 157.2                       | 80.7             | 12.39                | 3.1             | clear           |                 | 24"                            |                      | 1000                   |
| 8:45          | 157.4                       | 80.9             | 12.36                | 3.5             | clear           |                 | 24"                            |                      | 1000                   |
| 9:00          | 157.5                       | 81.0             | 12.35                | 3.9             | clear           |                 | 24"                            |                      | 1000                   |
| 9:15          | 157.5                       | 81.0             | 12.35                | 4.0             | clear           |                 | 24"                            |                      | 1000                   |
| 9:30          | 157.6                       | 81.1             | 12.33                | 4.25            | clear           |                 | 24"                            |                      | 1000                   |
| 9:45          | 157.6                       | 81.1             | 12.33                | 4.5             | clear           |                 | 24"                            |                      | 1000                   |
| 10:00         | 157.7                       | 81.2             | 12.32                | 4.9             | clear           |                 | 24"                            |                      | 1000                   |
| 10:15         | 157.7                       | 81.2             | 12.32                | 5.0             | clear           |                 | 24"                            |                      | 1000                   |
| 10:30         | 157.8                       | 81.3             | 12.30                | 5.0             | clear           |                 | 24"                            |                      | 1000                   |
| 10:45         | 157.8                       | 81.3             | 12.30                | 5.25            | clear           |                 | 24"                            |                      | 1000                   |
| 11:00         | 157.9                       | 81.4             | 12.29                | 5.5             | clear           |                 | 24"                            |                      | 1000                   |
| 11:15         | 157.9                       | 81.4             | 12.29                | 5.75            | clear           |                 | 24"                            |                      | 1000                   |
| 11:30         | 157.8                       | 81.3             | 12.30                | 5.85            | clear           |                 | 24"                            |                      | 1000                   |
| 11:45         | 157.8                       | 81.3             | 12.30                | 6.0             | clear           |                 | 24"                            |                      | 1000                   |
| 12:00 am      | 158.0                       | 81.5             | 12.27                | 6.0             | Clear; midnight |                 | 24"                            |                      | 1000                   |
| 12:15         | 157.9                       | 81.4             | 12.29                | 6.0             | clear           |                 | 24"                            |                      | 1000                   |
| 12:30         | 157.9                       | 81.4             | 12.29                | 6.0             | clear           |                 | 24"                            |                      | 1000                   |
| 12:45         | 157.9                       | 81.4             | 12.29                | 6.25            | clear           |                 | 24"                            |                      | 1000                   |
| 1:00          | 157.9                       | 81.4             | 12.29                | 6.25            | clear           |                 | 24"                            |                      | 1000                   |
| 1:15          | 158.0                       | 81.5             | 12.27                | 6.25            | clear           |                 | 24"                            |                      | 1000                   |
| 1:30          | 158.0                       | 81.5             | 12.27                | 6.5             | clear           |                 | 24"                            |                      | 1000                   |
| 1:45          | 158.1                       | 81.6             | 12.25                | 6.5             | clear           |                 | 24"                            |                      | 1000                   |

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APR 08 2008

T 10571

| Time    | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality | Discharge Rates |                                |                      |                        |
|---------|-----------------------------|------------------|----------------------|-----------------|---------------|-----------------|--------------------------------|----------------------|------------------------|
|         |                             |                  |                      |                 |               | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 2:00 am | 158.0                       | 81.5             | 12.27                | 6.75            | clear         |                 | 24"                            |                      | 1000                   |
| 2:15    | 158.0                       | 81.5             | 12.27                | 6.75            | clear         |                 | 24"                            |                      | 1000                   |
| 2:30    | 158.0                       | 81.5             | 12.27                | 7.0             | clear         |                 | 24"                            |                      | 1000                   |
| 2:45    | 158.1                       | 81.6             | 12.25                |                 | Empty sand    |                 | 24"                            |                      | 1000                   |
| 3:00    | 158.1                       | 81.6             | 12.25                |                 | clear         |                 | 24"                            |                      | 1000                   |
| 3:15    | 158.2                       | 81.7             | 12.24                | 0.5             | clear         |                 | 24"                            |                      | 1000                   |
| 3:30    | 158.1                       | 81.6             | 12.25                | 0.75            | clear         |                 | 24"                            |                      | 1000                   |
| 3:45    | 158.2                       | 81.7             | 12.24                | 0.75            | clear         |                 | 24"                            |                      | 1000                   |
| 4:00    | 158.2                       | 81.7             | 12.24                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 4:15    | 158.3                       | 81.8             | 12.22                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 4:30    | 158.3                       | 81.8             | 12.22                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 4:45    | 158.3                       | 81.8             | 12.22                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 5:00    | 158.4                       | 81.9             | 12.21                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 5:15    | 158.4                       | 81.9             | 12.21                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 5:30    | 158.3                       | 81.8             | 12.22                | 1.0             | clear         |                 | 24"                            |                      | 1000                   |
| 5:45    | 158.3                       | 81.8             | 12.22                | 1.25            | clear         |                 | 24"                            |                      | 1000                   |
| 6:00 am | 158.3                       | 81.8             | 12.22                | 1.25            | clear         |                 | 24"                            |                      | 1000                   |
| 6:15    | 158.3                       | 81.8             | 12.22                | 1.25            | clear         |                 | 24"                            |                      | 1000                   |
| 6:30    | 158.3                       | 81.8             | 12.22                | 1.25            | clear         |                 | 24"                            |                      | 1000                   |
| 6:45    | 158.3                       | 81.8             | 12.22                | 1.3             | clear         |                 | 24"                            |                      | 1000                   |
| 7:00    | -----                       |                  |                      | 1.5             | clear         |                 | 24"                            |                      | 1000                   |
| 7:15    | 158.3                       | 81.8             | 12.22                | 1.6             | clear         |                 | 24"                            |                      | 1000                   |
| 7:30    | 158.45                      | 81.95            | 12.20                | 1.9             | clear         |                 | 24"                            |                      | 1000                   |
| 7:45    | 158.55                      | 82.05            | 12.19                | 2.0             | clear         |                 | 24"                            |                      | 1000                   |
| 8:00    | 158.65                      | 82.15            | 12.17                | 2.2             | clear         |                 | 24"                            |                      | 1000                   |
| 8:15    | 158.6                       | 82.1             | 12.18                | 2.3             | clear         |                 | 24"                            |                      | 1000                   |
| 8:30    | 158.6                       | 82.1             | 12.18                | 2.4             | clear         |                 | 24"                            |                      | 1000                   |
| 8:45    | 158.7                       | 82.2             | 12.17                | 2.4             | clear         |                 | 24"                            |                      | 1000                   |
| 9:00    | 158.75                      | 82.25            | 12.16                | 2.5             | Clear         |                 | 24"                            |                      | 1000                   |

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APR 08 2008

RESOURCES DEPT  
NEW BRITAIN

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality | Discharge Rates                 |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|---------------|---------------------------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |               | Time                            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/25/06<br>am |                             |                  |                      |                 |               |                                 |                                |                      |                        |
| 9:15          | 158.65                      | 82.15            | 12.17                | 2.65            | Clear         |                                 | 24"                            |                      | 1000                   |
| 9:30          | 158.6                       | 82.1             | 12.18                | 2.7             | Clear         | Start meadows<br>well @ 9:30 am | 24"                            |                      | 1000                   |
| 9:45          | 158.6                       | 82.1             | 12.18                | 2.8             | clear         |                                 | 24"                            |                      | 1000                   |
| 10:00         | 158.75                      | 82.25            | 12.16                | 3.0             | clear         |                                 | 24"                            |                      | 1000                   |
| 10:15 AM      | 159.0                       | 82.5             | 12.12                | 3.0             | clear         |                                 | 24"                            |                      | 1000                   |
| 10:30         | 159.2                       | 82.7             | 12.09                | 3.0             | clear         |                                 | 24"                            |                      | 1000                   |
| 10:45         | 159.35                      | 82.85            | 12.07                | 3.1             | clear         |                                 | 24"                            |                      | 1000                   |
| 10:50         | 159.5                       | 83               | 12.05                |                 |               |                                 |                                |                      | 1000                   |
| 10:55         | 159.9                       | 83.4             | 11.99                |                 |               |                                 |                                |                      | 1000                   |
| 11:00         | 159.55                      | 83.05            | 12.04                | 3.2             | clear         |                                 | 24"                            |                      | 1000                   |
| 11:15         | 159.7                       | 83.2             | 12.02                | 3.3             | clear         |                                 | 24"                            |                      | 1000                   |
| 11:30         | 159.95                      | 83.45            | 11.98                | 3.5             | clear         |                                 | 24"                            |                      | 1000                   |
| 11:45         | 160.1                       | 83.6             | 11.96                | 3.5             | clear         |                                 | 24"                            |                      | 1000                   |
| 12:00 PM      | 160.3                       | 83.8             | 11.93                | 3.6             | clear         |                                 | 24"                            |                      | 1000                   |
| 12:15         | 160.35                      | 83.85            | 11.93                | 3.7             | clear         |                                 | 24"                            |                      | 1000                   |
|               |                             |                  |                      |                 |               |                                 |                                | 83535                |                        |

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APR 08 2008

WATER SUPPLY DEPT  
SACRAMENTO DIVISION

T 10591

# RECOVERY TEST

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality | Discharge Rates |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|---------------|-----------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |               | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/25/06<br>pm |                             |                  |                      |                 |               |                 |                                |                      |                        |
| 12:16         | 97                          |                  |                      |                 |               |                 |                                |                      |                        |
| 12:17         | 95.4                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:18         | 93.7                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:19         | 92.55                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:20         | 91.6                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:21         | 91                          |                  |                      |                 |               |                 |                                |                      |                        |
| 12:22         | 90.4                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:23         | 89.95                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:24         | 89.6                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:25         | 89.25                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:26         | 89                          |                  |                      |                 |               |                 |                                |                      |                        |
| 12:27         | 88.8                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:28         | 88.55                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:29         | 88.3                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:30         | 88.1                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:31         | 87.9                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:32         | 87.85                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:33         | 87.65                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:34         | 87.5                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:35         | 87.4                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:36         | 87.3                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:37         | 87.15                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:38         | 87.05                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:39         | 87                          |                  |                      |                 |               |                 |                                |                      |                        |
| 12:40         | 86.9                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:41         | 86.8                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:42         | 86.7                        |                  |                      |                 |               |                 |                                |                      |                        |

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APR 08 2008

STATE OF OREGON  
SALE DEPARTMENT

T 10591

RECOVERY TEST (continued)

| Time          | Depth to Water<br>(ft. BRP) | Drawdown<br>(ft) | Specific<br>Capacity | Sand<br>Reading | Water Quality | Discharge Rates |                                |                      |                        |
|---------------|-----------------------------|------------------|----------------------|-----------------|---------------|-----------------|--------------------------------|----------------------|------------------------|
|               |                             |                  |                      |                 |               | Time            | Flow<br>Hand<br>Reading<br>gpm | Totalizer<br>Reading | Calculated<br>Rate gpm |
| 4/25/06<br>pm |                             |                  |                      |                 |               |                 |                                |                      |                        |
| 12:43 pm      | 86.6                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:44         | 86.45                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:45         | 86.45                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:46         | 86.35                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:47         | 86.3                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:48         | 86.3                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:49         | 86.25                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:50         | 86.1                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:51         | 86.05                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:52         | 85.97                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:53         | 85.95                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:54         | 85.9                        |                  |                      |                 |               |                 |                                |                      |                        |
| 12:55         | 85.88                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:56         | 85.77                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:57         | 85.74                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:58         | 85.71                       |                  |                      |                 |               |                 |                                |                      |                        |
| 12:59         | 85.68                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:00          | 85.6                        |                  |                      |                 |               |                 |                                |                      |                        |
| 1:01          | 85.54                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:02          | 85.5                        |                  |                      |                 |               |                 |                                |                      |                        |
| 1:03          | 85.46                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:04          | 85.42                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:05          | 85.33                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:06          | 85.27                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:07          | 85.26                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:08          | 85.23                       |                  |                      |                 |               |                 |                                |                      |                        |
| 1:09          | 85.2                        |                  |                      |                 |               |                 |                                |                      |                        |

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APR 08 2008

STATE RESOURCES DEPT  
TALEM, OREGON





STATE OF OREGON  
 WATER SUPPLY WELL REPORT  
 (as required by ORS 537.765)

WELL I.D. # L \_\_\_\_\_

START CARD # 181323

Instructions for completing this report are on the last page of this form.

(1) LAND OWNER Well Number MARI 5224  
 Name City of Kelzer  
 Address 930 Chemawa Rd.  
 City Kelzer State OR Zip 97307

(2) TYPE OF WORK  New Well  
 Deepening  Alteration (repair/recondition)  Abandonment  Conversion

(3) DRILL METHOD  
 Rotary Air  Rotary Mud  Cable  Auger  Cable Mud  
 Other abandon in place

(4) PROPOSED USE  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other \_\_\_\_\_

(5) BORE HOLE CONSTRUCTION Special Construction:  Yes  No  
 Depth of Completed Well 329 ft.  
 Explosives used:  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

| BORE HOLE |      |     | SEAL       |      |     |                 |
|-----------|------|-----|------------|------|-----|-----------------|
| Diameter  | From | To  | Material   | From | To  | Sacks or Pounds |
| 16"       | 0    | 329 | Cement     | 0    | 65  | 310 sacks       |
|           |      |     | Bent Chips | 65   | 73  | 150 sacks       |
|           |      |     | Cement     | 73   | 170 | 250 sacks       |
|           |      |     | Bent Chips | 170  | 329 | 240 sacks       |

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

(6) CASING/LINER

| Diameter | From | To | Gauge | Steel                    | Plastic                  | Welded                   | Threaded                 |
|----------|------|----|-------|--------------------------|--------------------------|--------------------------|--------------------------|
| Casing:  |      |    |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Liner:   |      |    |       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Drive Shoe used  Inside  Outside  None  
 Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS  
 Perforations Method \_\_\_\_\_  
 Screens Type \_\_\_\_\_ Material \_\_\_\_\_

| From | To | Slot Size | Number | Diameter | Tele/pipe size | Casing                   | Liner                    |
|------|----|-----------|--------|----------|----------------|--------------------------|--------------------------|
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |

(8) WELL TESTS: Minimum testing time is 1 hour  
 Pump  Bailer  Air  Flowing Artesian

| Yield gal/min | Drawdown | Drill stem at | Time |
|---------------|----------|---------------|------|
|               |          |               |      |
|               |          |               |      |

Temperature of water \_\_\_\_\_ Depth Artesian Flow Found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL (legal description)  
 County Marion  
 Tax Lot 4000 Lot \_\_\_\_\_  
 Township 6 S Range 3 W WM  
 Section 26 NE 1/4 SW 1/4

Lat 45 ° 1 ' 3 " or \_\_\_\_\_ (degrees or decimal)  
 Long 123 ° 1 ' 16 " or \_\_\_\_\_ (degrees or decimal)

Street Address of Well (or nearest address) 939 Delta Dr NE, Kelzer, OR 97303

(10) STATIC WATER LEVEL  
95.8 ft. below land surface. Date 1-19-2006  
 \_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
 Artesian pressure \_\_\_\_\_ lb. per square inch Date \_\_\_\_\_

(11) WATER BEARING ZONES  
 Depth at which water was first found \_\_\_\_\_

| From | To | Estimated Flow Rate | SWL |
|------|----|---------------------|-----|
|      |    |                     |     |
|      |    |                     |     |

(12) WELL LOG Ground Elevation \_\_\_\_\_

| Material  | From | To  | SWL |
|---|------|-----|-----|
| SEE MARI 5224 FOR CONSTRUCTION DETAILS  |      |     |     |
| 16" water well abandoned as per variance.                                       | 0    | 329 |     |
| Backfill screen w/ dry bentonite Cut and remove casing from 159 feet to surface | 170  | 329 |     |
| --remove all gravel pack  |      |     |     |
| --abandon w/ cement grout   | 73   | 170 |     |
| --back fill w/ dry bent chips due to cement loss                                | 65   | 73  |     |
| --abandon w/ cement grout   | 0    | 73  |     |

Date Started 1-19-2006 Completed 03-08-2006

(unbonded) Water Well Constructor Certification  
 I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

WWC Number 1672 Date 4-19-06

Signed [Signature]

(bonded) Water Well Constructor Certification  
 I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 10011 Date 4/19/06

Signed [Signature]

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 SALEM, OREGON

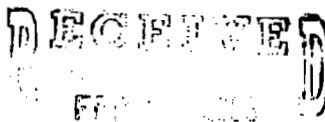


# Oregon

Theodore R. Kulongoski, Governor

Water Resources Department  
North Mall Office Building  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266  
503-986-0900  
FAX 503-986-0904

February 2, 2006



GEO TECH EXPLORATIONS  
ROBERT STADELI #1523  
19700 SW TETON  
TUALATIN OR 97062

### FINAL ORDER

Dear Robert:

This Special Standard supercedes the previous Special Standard for the same Start Card number issued on January 26, 2006. It clarifies the abandonment method in respect to perforations in the cased intervals due to a misunderstanding between the driller and the Department. The Special Standard request you submitted for owner: Keizer Water District, Start Card number 181323 (original log Mari 5224) is hereby approved for the following: You may abandon this water well in place from a depth of 333 ft bgs to 170 ft bgs with unhydrated bentonite in order to prevent cement grout infiltration into the new production well approximately 50 feet away. Extreme care shall be taken during the placement of the bentonite to prevent voids or bridges. Care shall be taken to minimize the introduction of bentonite dust. Only sodium bentonite chips manufactured to be greater than 1/4 inch or tablets shall be used below the water level in the sealing interval. A 10 foot cement plug shall be placed from 170 ft bgs to 160 ft bgs and shall be allowed to set up. The remainder of the 16 inch casing and the gravel pack material shall be removed from a depth of 160 ft bgs to land surface. The well shall then be grouted up in one continuous operation from 160 ft bgs to land surface. The 30 inch casing that is currently sealed from land surface to 25 ft bgs may remain in place. The 30 inch well casing may also be severed below land surface and removed (See OAR 690-220-0060, 690-220-0030 and 690-220-0090). Your Special Standard request form is enclosed.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, I may be contacted at (503) 986-0851, or by e-mail at Kristopher.R.Byrd@wrdd.state.or.us.

Sincerely,

Kristopher Byrd  
Well Construction Program Coordinator  
Enforcement Section

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SALEM, OREGON

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SALEM, OREGON

cc: Joel Jeffery, NW Region Well Inspector  
File

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

11591



# Oregon

Theodore R. Kulongoski, Governor

Water Resources Department  
North Mall Office Building  
725 Summer Street NE, Suite A  
Salem, OR 97301-1266  
503-986-0900  
FAX 503-986-0904

February 24, 2006

GEO TECH EXPLORATIONS  
ROBERT STADELI #1523  
19700 SW TETON  
TUALATIN OR 97062

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FEB 24 2006  
FINAL ORDER

Dear Robert:

The Special Standard request you submitted for owner: Keizer Water District, Start Card number 181323 (original log Mari 5224) is hereby approved for the following: You may abandon this water well from a depth of 160 ft bgs to 70 ft bgs with cement grout as the 16 inch casing is pulled back to 70 ft. All gravel pack material must have been removed from this interval prior to grouting. After the grout has set up, the gravel pack material from land surface to 70 ft bgs shall be removed from the well and it shall be grouted to land surface as the 16 inch casing is removed. The 30 inch casing that is currently sealed from land surface to 25 ft bgs may remain in place. The 30 inch well casing may also be severed below land surface and removed (See OAR 690-220-0060, 690-220-0030 and 690-220-0090). Your Special Standard request form is enclosed.

The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions concerning this letter, I may be contacted at (503) 986-0851, or by e-mail at [Kristopher.R.Byrd@wrđ.state.or.us](mailto:Kristopher.R.Byrd@wrđ.state.or.us).

Sincerely,

Kristopher Byrd  
Well Construction Program Coordinator  
Enforcement Section

cc: Joel Jeffery, NW Region Well Inspector  
File

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SALEM, OREGON

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| Material   | From | To  |
|--|------|-----|
| Top soil, brown  | 0    | 5   |
| Clay, brown, fine, sandy   | 5    | 35  |
| Clay, brown, fine sandy w/ some pea gravel                       | 35   | 40  |
| Clay, brown, fine, sandy w/ gravel up to 1"                      | 40   | 46  |
| Clay, brown  | 46   | 49  |
| Clay, dark brown   | 49   | 65  |
| Clay, dark brown, fine, sandy                                    | 65   | 70  |
| Sand, cemented, rusty brown                                      | 70   | 74  |
| Gravel, pea up to 1" w/ sand, mud, rusty brown<br>w/ some 4"     | 74   | 77  |
| Gravel, up to 6" w/ some sand, brown, medium                     | 77   | 107 |
| Gravel up to 4" w/ some sand, brown, medium, loosely<br>cemented | 107  | 115 |
| Gravel up to 6" w/ some sand, brown, medium, loosely<br>cemented | 115  | 125 |
| Gravel up to 6" w/ some sand, black, medium                      | 125  | 128 |
| Gravel up to 6", rusty, w/ some sand, brown,<br>loosely cemented | 128  | 145 |
| Clay, brown to blue  | 145  | 146 |
| Clay, blue   | 146  | 150 |
| Clay, blue-green   | 150  | 153 |
| Clay, dark green, fine, sandy                                    | 153  | 159 |
| Gravel, w/ clay, green, w/ sand, med-coarse                      | 159  | 160 |
| Gravel w/ sand, med-coarse                                       | 160  | 164 |
| Gravel & sand w/ some clay, green                                | 164  | 168 |
| Gravel & sand, med-coarse  | 168  | 176 |
| Gravel & sand, med-coarse, cemented                              | 176  | 189 |
| Sand, cemented   | 189  | 190 |
| Gravel, w/ some sand & some clay, gray                           | 190  | 195 |
| Gravel & sand, med-coarse, loosely cemented                      | 195  | 210 |
| Gravel & sand, med-coarse, w/ some clay, gray<br>up to 6"        | 210  | 221 |
| Gravel, cemented w/ some sand, med. up to 6"                     | 221  | 238 |
| Gravel, cemented w/ some clay, blue-green up to 6"               | 238  | 248 |
| Gravel w/ clay, brown  | 248  | 250 |
| Gravel w/ some sand & some clay, gray, cemented                  | 250  | 255 |
| Clay, gray, hard   | 255  | 256 |
| Clay, brown, w/ some stray gravel                                | 256  | 261 |
| Clay, light brown  | 261  | 264 |
| Gravel w/ some sand, brown, loosely cemented<br>up to 6"         | 264  | 279 |
| Gravel w/ sand, med-coarse, brown w/some clay,<br>blue gray      | 279  | 288 |
| Gravel w/ sand, med-coarse brown, some cemented                  | 288  | 318 |
| Gravel w/ sand, med-coarse, brown, w/ some clay,<br>brown        | 318  | 323 |
| Clay, brown & gray   | 323  | 326 |
| Clay, gray, sandy  | 326  | 330 |
| Clay & gravel, black, sandy                                      | 330  | 333 |

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SALEM, OREGON

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65/3w-26ca

Keizer Water District  
8103

(5) Casing Installed:

|                          |           |            |
|--------------------------|-----------|------------|
| 30" Diameter from +1'10" | to 25'    | Gauge .375 |
| 16" Diameter from +2'    | to 159'2" | Gauge .375 |
| 16" Diameter from 259'5" | to 264'5" | Gauge .375 |
| 16" Diameter fro 324'6"  | to 329'6" | Gauge .375 |

$\frac{1}{4}$ " thick steel plate welded on bottom

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| Well/Site# | Description/Address                   | Site Elevation | Well Size     | Well Depth        | Perforated or Screen                                | Perf. Or Screen Interval   | Seal Depth | SWL          | Well Test Capacity @PWL                           | Yr. Drilled                   |
|------------|---------------------------------------|----------------|---------------|-------------------|---|--|------------|--------------|---|-------------------------------|
| 1          | Carhaven West<br>950 Brandon NE       | 133ft.         | 8"            | 225'              | Perforated<br>3/8" x 1 1/2"                         | 8"-125'-130'<br>6"-1500: 138'-223'   | 18'(1980)  | 12'-15' *    | 300 GPM @ 52' * (1999)                            | Original:1945<br>Deepened:198 |
| 2          | Willamette Manor<br>3868 5th. Ave.    | 139ft.         | 8"            | 191'              | S.S. Screen, 6" PS(all)                             | 120'-140' & 175'-185'-80 slot<br>140'-145'-50 slot,145'-180'-100 slot                      | 95'        | 26'(5-30-00) | 400 GPM @ 94' (6-09-00)                           | 2000                          |
| 3          | Burnside Well<br>4335 Shoreline N     |                | 6" below 113' | Blank:113'-120'   |   |  |            |              |   |                               |
| 4          | Keizer Station<br>Jorie Road NE       | 148ft.         | 12"           | 270'              | 8" P.S. S.S. Screen<br>All 60 Slot                  | 150'-185'; 200'-234'; 239'-265'<br>Filter packed with 8 x 12 sand                          | 150'       | 28.3'        | 750 GPM @ 128' PWL                                | 2005                          |
| 5          | Cherry Ave.<br>4110 Cherry Ave. NE    | 132ft.         | 12"           | 210'              | S.S. Screen, 12" & 10"                              | 12" Tele.-120'-140'-60 slot<br>10" PS-170'-188'-30 slot,188'-205'-25 slot                  | 80'        | 25'          | 410 GPM @ 74' (1999)                              | 1982                          |
| 6          | City Hall<br>Rickman Road NE          | 135ft.         | 12"           | 290'              | 12" tele S.S. screen                                | 170'-175' w/50 slot, 175-200 with 100 slot,<br>200'-240' w/35 slot, 265'-280' w/125 slot   | 90'        | 29' 6"       | 950 GPM @ 161' PWL<br>833 GPM @ 152' PWL (36 hrs) | 2006                          |
| 7          | Wiessner Well<br>2006 Wiessner Ave.   | 170ft.         | 18"           | 258'              | 90'-16"S.S. Screen<br>All 100 slot                  | 145'-185' & 205'-255'  | 30'        | 49' (3-3-00) | 1350 GPM @ 99' * (1993)<br>1500 GPM @ 436" (1981) | 1980                          |
| 8          | Delta Well<br>939 Delta NE            | 181ft.         | 12"           | 328'              | All 10" P.S.  | 180'-195' w/ 150 slot, 210'-250' w/125 slot<br>250'-270' w/ 90 slot, 280'-320' w/ 150 slot | 150'       | 72.9'        | 1000 GPM @ 157 PWL                                | 2006                          |
| 9          | McNary Well<br>610 Lockhaven NE       | 122ft.         | 16"           | 205'              | 16" S.S. Screen<br>16" PS w/ 150 slot               | 119.5'-200'<br>Gravel Pack:0'-205'(172"-314")  | 96'        | 23'          | 1350 GPM @ 43" * (1993)                           | 1981                          |
| 10         | Chemawa Well<br>841 Chemawa           | 132ft.         | 16"           | 255'              | 130'-16"S.S. Screen<br>16" PS w/ 150 slot           | 120'-250'<br>Gravel Pack:0'-255'(172"-)  | 85'        | 21'          | 2500 GPM @ 90' (1981)                             | 1981                          |
| 11         | Lauderback Well<br>6180 Lauderback NE | 152ft.         | 10"           | 155'              | Perforated<br>Mills Knife-1/2"x 2"                  | 250 between 140'-150'  | 30'        | 24'          | 370 GPM @ 80" (2000)                              | 1973                          |
| 12         | 17th. Ave. Well<br>6288 17th. Ave. NE | 147ft.         | 10"           | 146'              | Perforated  | 65-860 perfs.-75'-157'<br>92-74'-100'&133'-146'  | 28'        | 28'          | 330 GPM @ 51" * (1999)<br>500 GPM @ 73' (1992)    | 1965<br>Rehab:1992            |
| 13         | 13th. Ave. Well<br>6250 13th. Ave. NE | 150ft.         | 8"            | 140'              | Perforated  | 290 perfs.-76'-105' *<br>84 perfs.-130'-138'   | Unk.       | 26'          | 550 GPM @ 97' (1961)                              | 1961                          |
| 14         | Meadows Well<br>7177 River Rd. NE     | 177ft.         | 12"           | 310'              | 10" PS S.S. Screen (3)                              | 195'-230' w/80 slot, 230'-250',50 slot<br>275'-295', 80 slot                               | 52'        | 60'          | 1200 GPM @ 93" * (1992)                           | 1992                          |
| 15         | Ridge Drive Well<br>5175 Ridge Dr. NE | 156.5ft.       | 12"           | 260'              | Perforated-3/8"x 2"<br>10" PS Screen-125 slot       | Perf.-144'-177'<br>Screen-190'-250'  | 127'       | 35'          | 830 GPM @ 143" * (1999)                           | 1999                          |
| 16         | Reitz Well<br>1065 Bair Road NE       | 180ft.         | 10"           | 410'              | 10" S.S. telescope screen                           | 313'-410'  | 180'       | 80'          | 700 GPM @ 242' PWL<br>at 24 hour                  | 2003                          |
| 17         | Elevated Reservoir                    | Base: 177'     |               | HW Surface:270.40 |   |  |            |              |   |                               |
| 18         | Lacey Court<br>Proposed               |                |               |                   |   |  |            |              |   |                               |
|            |                                       |                |               |                   | LEGEND  |  |            |              |   |                               |
|            |                                       |                |               |                   | S.S.=Stainless steel                                |  |            |              |   |                               |
|            |                                       |                |               |                   | P.S.= Pipe Size                                     |  |            |              |   |                               |
|            |                                       |                |               |                   | COS= Original design or operating condition of pump |  |            |              |   |                               |
|            |                                       |                |               |                   | * = Most Recent Test                                |  |            |              |   |                               |

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