

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

WELL I.D. # L 78308

START CARD # 184556

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

(1) LAND OWNER Well Number P-1 Name Cavanaugh and Cavanaugh LLC Address 3435 NE 46th Ave Ste J City Portland State OR Zip 97213

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

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

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

(5) BORE HOLE CONSTRUCTION Special Construction: [X] Yes [] No Depth of Completed Well 299 ft. Explosives used: [] Yes [X] No Type Amount

Table with columns: BORE HOLE (Diameter, From, To, Material, Socks or Pounds) and SEAL (From, To, Socks or Pounds). Row 1: 12", 0, 22, Bentonite, 0, 22, 10 lbs.

How was seal placed: Method [] A [] B [] C [] D [] E [X] Other Poured chips in annulus and hydrated Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 6", 0, 278, .250, [X], [], [], [].

Drive Shoe used [] Inside [X] Outside [] None Final location of shoe(s) 278

(7) PERFORATIONS/SCREENS Table with columns: From, To, Slot Size, Number, Diameter, Tele/pipe size, Casing, Liner. Rows for Perf 260-270, Liner 274, and Screen 274-299.

(8) WELL TESTS: Minimum testing time is 1 hour [] Pump [] Bailor [X] Air [] Flowing Artesian Yield gal/min 66 Drawdown 190 Drift stem at 290 Time 1 hour

Temperature of water 54 F Depth Artesian Flow Found Was a water analysis done? [X] Yes By whom Chemt Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

(9) LOCATION OF WELL (legal description) County Multnomah Tax Lot 5290 Township 1 N Range 1 E WM Section 36 NE 1/4 NW 1/4

Lat Long Street Address of Well (or nearest address) 1111 East Burnside St Portland

(10) STATIC WATER LEVEL 87 ft. below land surface Date 2/16/06 Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 96, 300, 80 gpm, 87.

(12) WELL LOG Table with columns: Material, From, To, SWL. Rows: Gravel crushed gray 0-1, Sandy Silt tan 1-22, Silty Sand tan 22-48, Silty sand with gravel tan 48-57, Silty Sand with ecc gravel brown 48-97, Sandy Gravel troutdale gray 97-299.

Date Started 2/2/06 Completed 2/5/06

(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 Date 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.

WWC Number 1824 Date 2/13/06 Signed [Signature]

RECEIVED

APR 10 2006

WATER RESOURCES DEPT 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 7, 2006

GREGORY DRILLING INC
CHAD GREGORY #10451
17609 NE 70TH ST
REDMOND, WA 98052

FINAL ORDER

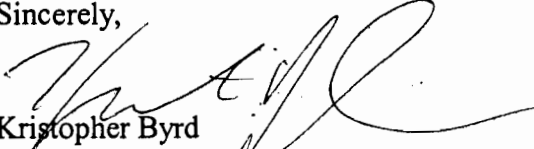
Dear Chad:

The Special Standard request you submitted for owner: Kevin Cavanaugh, Start Card number 184555 is hereby approved for the following: You may construct this well within 33 feet from a sanitary sewer line. However, the well must have a minimum surface seal depth of 22 feet bgs. If a deeper surface seal is required to meet the minimum standards based on site conditions then a deeper surface seal shall be placed. The well may also be placed in an underground vault. The vault shall be constructed to the ODWR recommended standards that were included with your Special Standard request. The vault must be watertight and it shall have a two inch drain to daylight (See OAR 690-210-0030 and 690-210-0250). All other construction standards must be adhered to. Your Special Standard request form is enclosed. This Special Standard only addresses the minimum well construction standards. DEQ regulates UIC systems and should be contacted regarding any UIC. I would also urge the landowner to contact the local Watermaster to address any water use or quantity issues.

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, please contact me 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

enclosure

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.

MULT 83130

Production Well (P-1)
(Sanitary Sewer set back)

Oregon Water Resources Department

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Specialist, Water Resources Department, 725 Summer Street NE, Suite "A", Salem OR 97301-1271. Requests may also be considered by the appropriate Regional Manager.

Date of request: 2/1/06 Oral approval date (if applicable): _____

Bonded Well Constructor (name, license #, and mailing address): Chad Gergory (Gergory Drilling Inc)

License # 1824 17609 NE 70th ST, Redmond, WA 98052

(1) Location of Well: NE 1/4 SW 1/4 Tax lot 5200 Section 35,
Township 1N, Range 1E w, Multnomah County
Address at well site: 1111 E Burnside St, Portland, Or 97214

(2) Start Card Number(s)(for work to be done): 184555

(3) Name and Address of Land Owner: Kevin Cavanaugh: 3435 NE 45th Ave., Suite J,
Portland, OR 97213

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)
It is 33' to the nearest closed sewage lateral (see attached site map). This distance is measured from the well to the point where the sewage line emerges from beneath the building. There are no septic tanks or drainfields known in the area

(5) The unusual site conditions which necessitate this request: Lot is entirely covered by building;
production and injection wells need to be separated a maximum distance to function as efficient geothermal wells.
The only location available for this production is 33 feet from the sanitary sewer line (see site map)
The sanitary sewer line drains south off the property to a main line 52 feet from the property line.

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)

ODWR Setback Requirements (690-210-003) are 50' for closed sewage drainage system. The proposed well is 17' closer than recommended. To assure groundwater protection a 22' surface seal will be placed around the well to seal the casing within a 22 foot thick natural silt layer beneath the property (see Foster Gambee geotech boring log). The groundwater table is separated from any sewage source by 90 feet of soil and Troutdale formation. Finally, this well is less vulnerable to sewage seepage because it is not a drinking well but is a low temperature production well; water pulled from this well will be reinjected at the west end of the property(see site map).

MULT 83130

- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)

1. Site Map

2. Well Construction Map

3. GEOTECH Soil BORING Log

PLEASE NOTE:

- (1) 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.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

Bonded Constructor Signature: _____

