



1 the minimum standards for the construction, alteration, abandonment, conversion, and  
2 maintenance of monitoring wells in Oregon.

3 (7) Monitoring wells are wells as defined in ORS 537.515(9). A license and licensing fee, bond,  
4 examination, well report, and start card are required for construction, conversion, alteration, or  
5 abandonment of a monitoring well. In addition, a start card fee is required for new construction,  
6 deepening a well, and conversion.

7 (8) To protect the ground water resource, the Commission has the authority to regulate  
8 geotechnical holes under ORS 537.780(1)(c)(A). Construction of geotechnical holes requires  
9 either a **W**[w]ater **S**[s]upply **Well Constructor** or **M**[m]onitoring **W**[w]ell **C**[c]onstructor's  
10 **L**[l]icense or Oregon registration as a geologist or civil engineer. If any one of the criteria in  
11 OAR 690-240-0035(2)(a)-(d) is met, a geotechnical hole report must be submitted.

12 (9) To protect the ground water resource, the Commission has the authority, under ORS  
13 537.780(1)(c)(A), to regulate any hole through which ground water may be contaminated.  
14 Construction of holes other than water supply wells and monitoring wells does not require a  
15 license and licensing fee, bond, examination, well report, start card, and start card fee.

16 (10) Holes constructed under ORS chapters 517, 520, and 522, and rules promulgated from those  
17 statutes, are the responsibility of the Oregon Department of Geology and Mineral Industries and  
18 are not subject to these rules. These include, but are not limited to, holes constructed for the  
19 purposes of exploring for, or producing, petroleum, minerals, or geothermal resources.

20 (11) The rules and regulations set forth herein shall become effective upon adoption by the Water  
21 Resources Commission.

22 (12) Under no circumstances shall a monitoring well, piezometer, geotechnical hole, or other hole  
23 be constructed in a manner that allows commingling or leakage of ground water by gravity flow  
24 or artesian pressure from one aquifer to another. (See definition of aquifer.)

25 (13) The rules and regulations set forth herein provide the minimum standards for the  
26 construction, conversion, alteration, maintenance, and abandonment of monitoring wells,  
27 geotechnical holes, and other holes. After the effective date of adoption of these rules and  
28 regulations, no monitoring well, geotechnical hole, or other hole shall be constructed, altered,  
29 converted, or abandoned contrary to the provisions of these rules and regulations without prior  
30 approval from the Water Resources Department. Violation of these standards may result in  
31 enforcement under OAR chapter 690, division 240, including suspension or revocation of a  
32 constructor's license, imposition of civil penalties on the landowner or constructor, action on a  
33 bond, or other sanctions authorized by law.

34 [ED. NOTE: Tables referenced are available from the agency.]

35 Stat. Auth.: ORS 536.090 & 537.505 - 537.795

36 Stats. Implemented: ORS 536.090 & 537.505 - 537.795

37 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 2-  
38 1995, f. 5-17-95, cert. ef. 7-1-95; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 4-2004, f. & cert.  
39 ef. 6-15-04

#### 40 **690-240-0010**

#### 41 **Definitions**

42 Language to be deleted is in italic and bracketed: *[example]*

New language is in bold: **example**

1 The following definitions apply to terms as used in monitoring well, geotechnical hole and other  
2 hole rules, OAR 690-240-0005 to 690-240-0640. No other definitions of these same words apply:

3 (1) "Abandonment, Permanent" means to remove all or any portion of a monitoring well from  
4 service by filling it in such a manner that vertical movement of water within the well bore and  
5 within the annular space surrounding the well casing is effectively and permanently prevented.  
6 This term is synonymous with "decommission".

7 (2) "Abandonment, Temporary" means to remove a drilling machine from a well site after  
8 completing or altering a well provided the well is not immediately put into service, or to remove a  
9 well from service with the intent of using it in the future.

10 (3) "Altering a Well" means the deepening, installation of seals, adding, removing or replacing  
11 casing, and any other material change in the design or construction of a well.

12 (4) "Annular Space" means the space between the drillhole wall and the outer well casing.

13 (5) "Aquifer" means a geologic formation, group of formations, or part of a formation that  
14 contains saturated and permeable material capable of transmitting water in sufficient quantity to  
15 supply wells or springs and that contains water that is similar throughout in characteristics such as  
16 potentiometric head, chemistry, and temperature. (Figure 240-1)

17 (6) "Area of Known or Reasonably Suspected Contamination" means a site that is currently under  
18 investigation by the Oregon Department of Environmental Quality, U.S. Environmental  
19 Protection Agency, or other state or federal agency for the presence of contaminants, or a site  
20 where a prudent person would suspect contamination after conducting an appropriate inquiry  
21 consistent with good commercial or customary practice as to the nature of the property.

22 (7) "Artesian Aquifer" means a confined aquifer in which ground water is under sufficient head to  
23 rise above the level at which it was first encountered whether or not the water flows at land  
24 surface. If the water level stands above land surface the well is a flowing artesian well. (Figure  
25 240-1).

26 (8) "Artesian Monitoring Well" means a monitoring well in which ground water is under  
27 sufficient pressure to rise above the level at which it was first encountered, whether or not the  
28 water flows at land surface. If the water level stands above land surface the well is a flowing  
29 artesian monitoring well.

30 (9) "Bored Well" means a well constructed with the use of earth augers turned either by hand or  
31 by power equipment.

32 (10) "Casing" means the outer tubing, pipe, or conduit, welded or thread coupled, and installed in  
33 the borehole during or after drilling to support the sides of the well and prevent caving. Casing  
34 can be used, in conjunction with proper seal placement, to shut off water, gas, or contaminated  
35 fluids from entering the hole, and to prevent waste of ground water.

36 (11) "Casing Seal" means the water tight seal established in the well bore between the well casing  
37 and the drillhole wall, above the filter pack seal, to prevent the inflow and movement of surface  
38 water or shallow ground water in the well annulus, or to prevent the outflow or movement of  
39 water under artesian or hydrostatic pressures.

40 (12) "Civil Engineer" means an individual registered by the State of Oregon to practice civil  
41 engineering.

- 1 (13) "Clay" means a fine-grained, inorganic material having plastic properties and with a  
2 predominant grain size of less than 0.002 mm.
- 3 (14) "Commission" means the Oregon Water Resources Commission.
- 4 (15) "Committee" means the Oregon Ground Water Advisory Committee created by ORS  
5 536.090.
- 6 (16) "Confining Formation" means the "impermeable" stratum immediately overlying an artesian  
7 (confined) aquifer. (Figure 240-1)
- 8 (17) "Consolidated Formation" means materials that have become firm through natural rock-  
9 forming processes. It includes, but is not limited to, materials such as basalt, sandstone, shale,  
10 hard claystone, and granite.
- 11 (18) "Contamination" means any chemical, ion, radionuclide, synthetic organic compound,  
12 microorganism, waste or other substance that does not occur naturally in ground water or that  
13 occurs naturally but at a lower concentration.
- 14 (19) "Continuing Education" means that education required as a condition of licensure under ORS  
15 537.747, to maintain the skills necessary for the protection of ground water, the health and  
16 general welfare of the citizens of Oregon and the competent practice of the construction,  
17 alteration, abandonment, conversion, and maintenance of water supply wells, monitoring wells,  
18 and geotechnical holes.
- 19 (20) "Continuing Education Committee" means the Well Constructor Continuing Education  
20 Committee authorized under Chapter 496, Oregon Laws 2001 (ORS 537.765).
- 21 (21) "Continuing Education Course" means a formal offering of instruction or information to  
22 licensees that provides continuing education credits.
- 23 (22) "Continuing Education Credit" (CEC) means a minimum of 50 minutes of instruction or  
24 information approved by the Continuing Education Committee.
- 25 (23) "Converting" a well means changing the use of an existing well or hole not previously used  
26 to either withdraw or monitor water such that the well or hole can be used to either withdraw or  
27 monitor water.
- 28 (24) "Deepening a well" means extending the well bore of an existing well through previously  
29 undisturbed native material. Deepening is a type of alteration.
- 30 (25) "Department" means the Oregon Water Resources Department.
- 31 (26) "Director" means the Director of the Department or the Director's authorized representatives.
- 32 (27) "Documentation of Completion" means written evidence or documentation demonstrating  
33 attendance and completion of a continuing education course, including but not limited to: a  
34 certificate of completion, diploma, transcript, certified class roster, or other documentation as  
35 approved by the Continuing Education Committee.
- 36 (28) "Dug Well" means a well in which the excavation is made by the use of digging equipment  
37 such as backhoes, clam shell buckets, or sand buckets. (See Hand dug well)
- 38 (29) "Excavation" means a free-standing cavity with greater width than depth constructed in the  
39 earth's surface which has a primary purpose other than seeking water or water quality monitoring.

1 (30) "Figure", when used herein, refers to an illustration and is made a part of the primary article  
2 and section by reference.

3 (31) "Filter Pack" means the granular material placed in the annular space between the well  
4 screen and the borehole.

5 (32) "Filter Pack Seal" means the fine grained sand or dry bentonite which is placed in the  
6 annulus above the filter pack and prevents grout infiltration into the filter pack.

7 (33) "Geologic Formation" means an igneous, sedimentary or metamorphic material that is  
8 relatively homogeneous and is sufficiently recognized as to be distinguished from the adjacent  
9 material. The term is synonymous with "formation".

10 (34) "Geologist" means an individual registered by the State of Oregon to practice geology.

11 (35) "Geotechnical hole" means a hole constructed to collect or evaluate subsurface data or  
12 information, monitor movement of landslide features, or to stabilize or dewater landslide features.  
13 Geotechnical holes are not monitoring wells or water supply wells as defined below. Various  
14 classes and examples of geotechnical holes are listed in OAR 690-240-0035(6)-(9).

15 (36) "Grout" means approved cement, concrete or bentonite sealing material used to fill an  
16 annular space of a well or to abandon a well.

17 (37) "Grout Pipe" means a pipe which is used to place grout at the bottom of the sealing interval  
18 of a well.

19 (38) "Hand dug well" means a well in which the excavation is only made by the use of picks,  
20 shovels, spades, or other similar hand operated implements. (See Dug Well)

21 (39) "Hazardous Materials Training" means training as defined by OAR 437-002-0100 Adoption  
22 by Reference Subdivision H Hazardous Materials 1910.120 Hazardous Waste Operations and  
23 Emergency Response.

24 (40) "Hazardous Waste" means a substance as defined by ORS 466.005.

25 (41) "Health Hazard" means a condition where there are sufficient concentrations of biological,  
26 chemical, or physical, including radiological, contaminants in the water that are likely to cause  
27 human illness, disorders, or disability. These include, but are not limited to naturally occurring  
28 substances, pathogenic viruses, bacteria, parasites, toxic chemicals, and radioactive isotopes.  
29 Sufficient concentrations of a contaminant include but are not limited to contaminant levels set by  
30 the Oregon Department of Environmental Quality and Oregon Health Division.

31 (42) "Health Threat" means a condition where there is an impending health hazard. The threat  
32 may be posed by, but not limited to: a conduit for contamination, or a well affecting migration of  
33 a contaminant plume, or the use of contaminated water. A well in which the construction is not  
34 verified by a monitoring well report or geophysical techniques may be considered a conduit for  
35 contamination in certain circumstances. Those circumstances include, but are not limited to: an  
36 unused and neglected well or a well for which no surface seal was required. A well in which the  
37 casing seal, filter pack seal, or watertight cap has failed, or was inadequately installed may be  
38 considered a conduit for contamination.

39 (43) "Horizontal Well" means a well that intentionally deviates more than 20 degrees from true  
40 vertical at any point.

1 (44) "Hydrologic Cycle" is the general pattern of water movement by evaporation from sea to  
2 atmosphere, by precipitation onto land, and by return to sea under influence of gravity.

3 (45) "Impermeable Sealing Material" means cement or bentonite which is used to fill the open  
4 annulus.

5 (46) "Jetted Well" means a well in which the drillhole excavation is made by the use of a high  
6 velocity jet of water.

7 (47) "Leakage" means movement of surface and/ or subsurface water around the well casing or  
8 seal.

9 (48) "Monitoring Well" means a well designed and constructed to determine the physical  
10 (including water level), chemical, biological, or radiological properties of ground water.

11 (49) "Monitoring Well Constructor" means any person who has a current[, *effective*] **water**  
12 [*monitoring*] well constructor's license **with a monitoring well endorsement** issued in  
13 accordance with ORS 537.747(3).

14 **(50[68]) "Monitoring Well Constructor's License" means a Water Well Constructor's**  
15 **License with a monitoring well endorsement issued in accordance with ORS 537.747(3).**

16 (51[0]) "Monitoring Well Drilling Machine" means any driving, jetting, percussion, rotary,  
17 boring, auguring, or other equipment used in the construction, alteration, or abandonment of  
18 monitoring wells.

19 (52[1]) "Order" means any action satisfying the definition given in ORS Chapter 183 or any other  
20 action so designated in ORS 537.505 to 537.795.

21 (53[2]) "Other Hole" means a hole other than a water supply well, monitoring well, or  
22 geotechnical hole, however constructed, in naturally occurring or artificially emplaced earth  
23 materials through which ground water can become contaminated. Holes constructed under ORS  
24 Chapters 517, 520, and 522 are not subject to these rules. Examples of other holes are listed in  
25 OAR 690-240-0030.

26 (54[3]) "Perched Ground Water" means ground water held above the regional or main water table  
27 by a less permeable underlying earth or rock material. (Figure 240-1)

28 (55[4]) "Permeability" means the ability of material to transmit fluid, usually described in units of  
29 gallons per day per square foot of cross-section area. It is related to the effectiveness with which  
30 pore spaces transmit fluids.

31 (56[5]) "Person" includes individuals, corporations, associations, firms, partnerships, joint stock  
32 companies, public and municipal corporations, political subdivisions, the state and any agencies  
33 thereof, and the Federal Government and any agencies thereof.

34 (57[6]) "Petcock Valve" is a valve used to contain pressure which when opened will drain the line  
35 or pipe.

36 (58[7]) "Piezometer" means a type of monitoring well designed solely to obtain ground water  
37 levels. Piezometers are prohibited in areas of known or reasonably suspected contamination. This  
38 term is synonymous with observation well.

1 (59[8]) "Porosity" means the ratio of the volume of voids in the geologic formation being drilled  
2 to the overall volume of the material without regard to size, shape, interconnection, or  
3 arrangement of openings.

4 (60[59]) "Potable Water" means water which is sufficiently free from biological, chemical,  
5 physical, or radiological impurities so that users thereof will not be exposed to or threatened with  
6 exposure to disease or harmful physiological effects.

7 (61[0]) "Potentiometric Surface" means the level to which water will rise in tightly cased wells.  
8 (Figure 240-1).

9 (62[1]) "Pressure Grouting" means a process by which grout is confined within the drillhole or  
10 casing by the use of retaining plugs or packers and by which sufficient pressure is applied to drive  
11 the grout slurry into the annular space or zone to be grouted.

12 (63[2]) "Professional" means any person licensed or registered by the State of Oregon to construct  
13 monitoring wells, water supply wells, or practice geology or civil engineering.

14 (64[3]) "Public-at-Large" means a person not actively engaged in the well industry.

15 (65[4]) "Refusal to Renew" means a provision in an order, or as allowed by ORS 537.747, that  
16 prohibits renewal of a well constructor's license, for a specified term not to exceed one year from  
17 the expiration date of the current license.

18 (66[5]) "Remediation Well" means a well used for extracting contaminated ground water from an  
19 aquifer. This term is synonymous with "extraction well" and "recovery well".

20 (67[6]) "Respondent" means the person against whom an enforcement action is taken.

21 (68[7]) "Responsible Party" means the person or agency that is in charge of construction or  
22 maintenance, or the landowner of record and is either in violation as specified in a notice of  
23 violation or who may benefit from that violation.

24 (69[8]) "Rough Drilling Log" means a record kept on the well site of the information needed to  
25 complete the well report for the well being constructed.

26 (70[69]) "Revoke" means termination of a well constructor's license.

27 (71[0]) "Sand" means a material having a prevalent grain size ranging from 2 millimeters to 0.06  
28 millimeters.

29 (72[1]) "Silt" means an unconsolidated sediment composed predominantly of particles between  
30 0.06 mm and 0.002 mm in diameter.

31 (73[2]) "Slope Stability Geotechnical Hole" means a geotechnical hole excavated, drilled or bored  
32 for studying and/or monitoring movement of landslide features, including water levels, or other  
33 mass-wasting features to detect zones of movement and establish whether movement is constant,  
34 accelerating, or responding to remedial measures. Hole(s) excavated, drilled or bored for the  
35 purpose of slope remediation or stabilization shall be considered a slope stability geotechnical  
36 hole. Slope stability geotechnical holes are not monitoring wells, piezometers, or water supply  
37 wells.

38 (74[3]) "Sponsor" means an institution, professional organization, individual, or business that  
39 offers continuing education courses to licensees. This term is synonymous with provider.

1 (75[4]) "Static Water Level" means the stabilized level or elevation of water surface in a well not  
2 being pumped.

3 (76[5]) "Stratum" means a bed or layer of a formation that consists throughout of approximately  
4 the same type of consolidated or unconsolidated material.

5 (77[6]) "Sump" means a hole dug to a depth of ten feet or less with a diameter greater than ten  
6 feet in which ground water is sought or encountered.

7 (78[7]) "Suspension" means the temporary removal of the privilege to construct wells under an  
8 existing license for a period of time not to exceed one year.

9 (79[8]) "Unconsolidated Formation" means naturally occurring, loosely cemented, or poorly  
10 indurated materials including clay, sand, silt, and gravel.

11 (80[79]) "Underground Injection" means the emplacement or discharge of fluids to the  
12 subsurface.

13 (81[0]) "Underground Injection System" means a well, improved sump, sewage drain hole,  
14 subsurface fluid distribution system, or other system or ground water point source used for the  
15 emplacement or discharge of fluids.

16 (82[1]) "Upper Oversize Drillhole" means that part of the well bore extending from land surface  
17 to the bottom of the surface seal interval.

18 (83[2]) "Violation" means an infraction of any statute, rule, standard, order, license, compliance  
19 schedule, or any part thereof and includes both acts and omissions.

20 (84[3]) "Water Supply Well" means a well, other than a monitoring well, that is used to  
21 beneficially withdraw or beneficially inject ground water. Water supply wells include, but are not  
22 limited to, community, dewatering, domestic, irrigation, industrial, municipal, and aquifer storage  
23 and recovery wells.

24 (85[4]) "Water Supply Well Constructor" means any person who has a current[ *effective*] water  
25 [ *supply*] well constructor's license **with a water supply well endorsement** issued in accordance  
26 with ORS 537.747(3).

27 **(86) "Water Supply Well Constructor's License" means a Water Well Constructor's**  
28 **License with a water supply well endorsement issued in accordance with ORS 537.747(3).**

29 (87[5]) "Water Table" means the upper surface of an unconfined water body, the surface of which  
30 is at atmospheric pressure and fluctuates seasonally. The water table is defined by the levels at  
31 which water stands in wells that penetrate the water body. (See Figure 240-1)

32 **(88[6]) "Water Well Constructor's License" means a license to construct, alter, deepen,**  
33 **abandon or convert wells issued in accordance with ORS 537.747(3). Endorsements are**  
34 **issued to the license and are specific to the type of well a constructor is qualified to**  
35 **construct, alter, deepen, abandon or convert.**

36 (89) "Well" means any artificial opening or artificially altered natural opening, however made, by  
37 which ground water is sought or through which ground water flows under natural pressure, or is  
38 artificially withdrawn or injected. This definition shall not include a natural spring, or wells  
39 drilled for the purpose of exploration or production of oil or gas. Prospecting or exploration for  
40 geothermal resources as defined in ORS 522.005 or production of geothermal resources derived

1 from a depth greater than 2,000 feet as defined in ORS 522.055 is regulated by the Department of  
2 Geology and Mineral Industries.

3 [ED. NOTE: Figures referenced are available from the agency.]

4 Stat. Auth.: ORS 536.090 & 537.505 - 537.795

5 Stats. Implemented: ORS 536.090 & 537.505 - 537.795

6 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 2-  
7 1995, f. 5-17-95, cert. ef. 7-1-95; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert.  
8 ef. 3-14-03; WRD 4-2004, f. & cert. ef. 6-15-04

9  
10 **690-240-0015**

11 **Delegation of Responsibility for Monitoring Wells, Geotechnical Holes and Other Holes**

12 (1) The Director may, by memorandum of understanding, delegate to another state agency direct  
13 control and management of monitoring wells, geotechnical holes and other holes when the other  
14 state agency implements these standards, as a minimum, for the construction, operation,  
15 maintenance, and abandonment of monitoring wells, geotechnical holes and other holes.

16 (2) Such delegation shall be revoked at such time as the agency intentionally or repeatedly fails to  
17 enforce the standards.

18 (3) The Water Resources Department shall provide notice to all Oregon licensed **M**[*m*]onitoring  
19 and **W**[*w*]ater **S**[*s*]upply **W**[*w*]ell **C**[*c*]onstructors and professional geologists and civil engineers  
20 registered in Oregon whenever authority is delegated to or revoked from another state agency.  
21

22 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795\

23 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

24 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 2-  
25 1995, f. 5-17-95, cert. ef. 7-1-95; WRD 7-2001, f. & cert. ef. 11-15-01

26  
27 **690-240-0035**

28 **Geotechnical Holes: General Performance and Responsibility Requirements**

29 (1) A geotechnical hole is defined in OAR 690-240-0010(35). Geotechnical holes may be either  
30 cased or uncased and are constructed to evaluate subsurface data or information (geologic,  
31 hydrogeologic, chemical, or other physical characteristics). Geotechnical holes are not "wells"  
32 because their construction and/or duration of use are different than wells and therefore are not  
33 subject to the same requirements as wells. Geotechnical holes are broken into the following  
34 classifications:

35 (a) Temporary (abandoned within 72 hours) geotechnical holes;

36 (b) Cased permanent geotechnical holes;

37 (c) Uncased permanent geotechnical holes; or

38 (d) Slope stability geotechnical holes.

1 (2) A geotechnical hole report, signed by the responsible professional, must be submitted to the  
2 department if any of the criteria listed in subsections (a) through (d) below is met. The  
3 geotechnical hole is:

4 (a) Greater than 18 feet deep; or

5 (b) Within 50 feet of a water supply or monitoring well; or

6 (c) Used to make a determination of water quality; or

7 (d) Constructed in an area of known or reasonably suspected contamination.

8 (3) Geotechnical holes greater than ten feet in depth and less than eighteen feet in depth that do  
9 not meet any of the criteria spelled out in OAR 690-240-0035(2) shall have a professional person  
10 as described in OAR 690-240-0035(4)(c) responsible for the construction and abandonment of the  
11 geotechnical hole but do not require a 'Geotechnical Hole Report' to be filed.

12 (4)(a) Although enforcement actions may be exercised against other parties, the landowner of the  
13 property where the geotechnical hole is constructed is ultimately responsible for the condition,  
14 use, maintenance, and abandonment of the geotechnical hole;

15 (b) Conversion of a geotechnical hole to a water supply or monitoring well shall be considered by  
16 the Water Resources Department on a case by case basis;

17 (c) When a geotechnical hole report is required, or if it is between 10' and 18', any person  
18 (professional) who is responsible for the construction, alteration or abandonment of a  
19 geotechnical hole shall have one of the following certifications:

20 (A) A current Oregon Monitoring Well Constructor's License;

21 (B) A current Oregon Water Supply Well Constructor's License;

22 (C) Be registered by the State of Oregon as a Professional Geologist; or

23 (D) Be registered by the State of Oregon as a Professional Civil Engineer.

24 (d) The professional shall show proof of license or registration and a current photo identification  
25 to Department employees upon request.

26 (e) In order to protect the ground water resource, all geotechnical holes shall be constructed,  
27 operated, used, maintained, and abandoned in such a manner as to prevent contamination or waste  
28 of ground water, or loss of artesian pressure.

29 (f) If the geotechnical hole is completed above ground, it shall have a minimum casing height of  
30 one foot above finished grade and a lockable cap with lock shall be attached to the top of the  
31 casing. If a geotechnical hole, except a slope stability hole, is completed flush with the land  
32 surface, a lockable watertight cap with lock, shall be attached to the top of the casing. A vault or  
33 monument designed to be watertight, level with the ground surface, shall be installed to prevent  
34 the inflow of surface water. The cover must be designed to withstand the maximum expected  
35 loadings.

36 (5)(a) A 'Geotechnical Hole Report' shall be prepared for each geotechnical hole, including  
37 unsuccessful geotechnical holes, constructed, altered, converted, or abandoned if the hole meets  
38 any of the requirements of OAR 690-240-0035(2) above.

39 (b) The 'Geotechnical Hole Report' shall be filed with the Department within 30 days of the  
40 completion of the geotechnical hole;

Language to be deleted is in italic and bracketed: *[example]*

New language is in bold: **example**

1 (c) The report shall be prepared in triplicate on forms furnished or previously approved in writing  
2 by the Water Resources Department. The original shall be furnished to the Director, the first copy  
3 shall be retained by the professional, and the second copy shall be given to the landowner or  
4 customer who contracted for the construction of the geotechnical hole;

5 (d) In the event any drilling equipment or other tools are left in a geotechnical hole the  
6 professional shall enter this fact on the Geotechnical Hole Report;

7 (e) A copy of any special authorizations or special standards issued by the Director shall be  
8 attached to the Geotechnical Hole Report. See OAR 690-240-0006 for information concerning  
9 special standards;

10 (f) The report of geotechnical hole construction shall include, as a minimum, the following:

11 (A) Landowner name and address;

12 (B) Started/Completed date;

13 (C) Location of the geotechnical hole by County, Township, Range, Section, tax lot number, if  
14 assigned, street address, or nearest address, and either the 1/4, 1/4 section or Latitude and  
15 Longitude as established by a global positioning system (GPS);

16 (D) Use of geotechnical hole;

17 (E) Type of geotechnical hole;

18 (F) Depth;

19 (G) Map showing location of geotechnical hole on site must be attached and shall include an  
20 approximate scale and a north arrow;

21 (H) General hydrologic and geologic information as indicated on the Geotechnical Hole Report;  
22 and

23 (I) Such additional information as required by the Department.

24 (6) Temporary geotechnical holes:

25 (a) Temporary geotechnical holes include but are not limited to: drive points, soil and rock  
26 borings, temporary sample holes, permeability test holes, and soil vapor holes;

27 (b) Temporary geotechnical holes shall be abandoned within 72 hours of initial construction;

28 (c) Any temporary casing that has been installed shall be removed as part of the abandonment.

29 (7) Cased permanent geotechnical holes:

30 (a) Cased permanent geotechnical holes include but are not limited to: gas migration holes,  
31 cathodic protection holes, vapor extraction holes, and air sparging holes;

32 (b) If permanent casing is installed in a geotechnical hole, it shall meet the casing requirements in  
33 OAR 690-240-0430, 690-210-0210, or 690-210-0190 and the sealing requirements in OAR 690-  
34 240-0475.

35 (8) Uncased permanent geotechnical holes:

36 (a) Uncased permanent geotechnical holes include but are not limited to: pneumatic and electrical  
37 piezometers;

1 (b) Temporary casing can be used during the construction of the uncased permanent geotechnical  
2 hole but must be removed prior to completion. Surface casing (5 feet maximum) may be installed  
3 for placement of logging or recording equipment.

4 (9) Slope stability geotechnical holes.

5 (a) slope stability geotechnical holes include but are not limited to: slope instrumentation holes  
6 such as slope inclinometers, and slope remedial holes.

7 (b) Slope stability geotechnical holes are defined in OAR 690-240-0010(72). Such holes shall be  
8 constructed, operated, used, maintained, and abandoned in such a manner as to prevent  
9 contamination or waste of ground water.

10 (c) When a Geotechnical Hole Report is required under OAR 690-240-0035(2) for a slope  
11 stability geotechnical hole that is constructed to facilitate water level measurements, an affidavit  
12 from an engineer or geologist qualified to perform geotechnical investigations shall be attached to  
13 the Geotechnical Hole Report. The affidavit shall have the qualified engineer or geologist's stamp  
14 on it and shall certify that the slope stability geotechnical hole is on a landslide or a mass-wasting  
15 feature.

16 (10) Geotechnical Holes abandonment:

17 (a) Geotechnical holes shall be abandoned so that they do not:

18 (A) Connect water bearing zones or aquifers;

19 (B) Allow water to move vertically with any greater facility than in the undisturbed condition  
20 prior to construction of the geotechnical hole; or

21 (C) Allow surface water to enter the hole.

22 (b) Temporary geotechnical holes constructed to collect a water quality sample shall be  
23 abandoned in accordance with OAR 690-240-0510.

24 Stat. Auth.: ORS 537.780

25 Stats. Implemented:

26 Hist.: WRD 2-1995, f. 5-17-95, cert. ef. 7-1-95; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 1-  
27 2003, f. & cert. ef. 3-14-03; WRD 4-2004, f. & cert. ef. 6-15-04

28  
29 **690-240-0055**

30 **License Required to Construct Monitoring Wells**

31 (1) Unless otherwise provided in these rules, any person who constructs, alters or abandons  
32 monitoring wells for another person shall have a Monitoring Well Constructor's License or work  
33 under the supervision of a licensed Monitoring Well Constructor.

34 (2) If a person advertises services [*and*]/or enters into contracts for the construction, alteration or  
35 abandonment of monitoring wells for another person, that person shall furnish a \$10,000 **Water**  
36 [*Monitoring*] Well Constructor's Bond or Irrevocable Letter of Credit to the Water Resources  
37 Commission and must be a licensed **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor. [*This bond or letter*  
38 *of credit is separate from the bond or letter of credit required for construction of water supply*  
39 *wells.*]

1 (3) A property owner who constructs, alters, or abandons a monitoring well on their own property  
2 shall have a Landowner Well Permit as described in OAR 690-240-0340 for each monitoring well  
3 on which work is done.

4 Stat. Auth.: ORS 536.090 & 537.505 - 537.795

5 Stats. Implemented: ORS 536.090 & 537.505 - 537.795

6 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
7 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; WRD 4-2004, f. & cert. ef. 6-  
8 15-04

9  
10 **690-240-0060**

11 **Monitoring Well Constructor License Examination**

12 (1) The Water Resources Department administers the written examination required under ORS  
13 537.747. Separate examinations are administered for each license [*type*] **endorsement**. The  
14 Department schedules the examination on the second Monday during the months of January,  
15 April, July and October. [*Only one examination may be taken during each testing period.*]  
16 Examinees must pay a \$20 exam fee. Special accommodations may be given to those individuals  
17 who cannot attend the regularly scheduled examination dates. Requests shall be considered on a  
18 case-by-case basis. The examination tests the applicant's knowledge of:

19 (a) Oregon laws and administrative rules on the use of ground water, monitoring well constructor  
20 licensing requirements, the construction of monitoring wells and/or geotechnical holes, and the  
21 preparing and filing of Start Cards and Monitoring Well Reports;

22 (b) Hydrogeology, the occurrence and movement of ground water and contaminants, and the  
23 design, construction and development of monitoring wells; and

24 (c) Types, uses, and maintenance of drilling tools and equipment, drilling problems and corrective  
25 procedures, repair of faulty monitoring wells, sealing of monitoring wells, and safety rules and  
26 practices.

27 (2) An applicant who fails to pass [*the*] **an endorsement** examination may retake **an** [*the*]  
28 examination **for the same endorsement** after three months and the payment of another  
29 examination fee.

30 (3) Passing examination scores are valid for three years from the date of the examination.

31 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

32 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

33 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
34 2001, f. & cert. ef. 11-15-01

35  
36 **690-240-0065**

37 **Monitoring Well Constructor's License, Experience Requirements and Trainee Card**

38 (1) License. To qualify for a Monitoring Well Constructor's License, a person shall:

39 (a) Be at least 18 years old;

40 (b) Pass a written examination;

1 (c) Have a minimum of one year experience [*(52 weeks)*], during the previous 36 month period, in  
2 monitoring well construction, alteration, or abandonment. This experience shall include the  
3 operation of well drilling machinery for monitoring well construction, alteration, conversion, or  
4 abandonment on a minimum of fifteen monitoring wells or a demonstration of equivalent  
5 experience in the operation of well drilling machinery. The following are acceptable as evidence  
6 of experience:

7 (A) Monitoring well reports or rough well logs with applicant's name entered for each of the 15  
8 wells. The name, address and telephone number of the person responsible for the construction of  
9 each monitoring well shall be included on each report or log;

10 (B) Income tax returns showing source of drilling income for a period of time, or worker's  
11 compensation account information or the equivalent may be established to satisfy the one year of  
12 active construction requirement;

13 (C) Any other evidence the Director may deem suitable;

14 (D) A license held in another state shall not substitute for required evidence of experience.

15 (d) Pay a license fee.

16 (2) Trainee. If an applicant passes the written **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor's **License**  
17 examination, but cannot meet the experience requirement the Commission may issue a trainee  
18 card. To qualify for a **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor **T**[*t*]rainee **C**[*c*]ard, a person must:

19 (a) Be at least 18 years old;

20 (b) Pass a written examination; and

21 (c) Be supervised by a person who holds a **valid** Monitoring Well Constructor's License.

22 (3) [*A*] **T**[*t*]rainee **C**[*c*]ard. **A Trainee Card** is valid for three (3) years from the date the  
23 **examination** was passed.

24 (4) **Supervision**. Supervision as it relates to any person who holds a Monitoring Well Constructor  
25 Trainee Card:

26 (a) A **T**[*t*]rainee may operate a cable tool monitoring well drilling machine without a licensed  
27 **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor physically present at the well site only if:

28 (A) The licensed constructor can reach the well site within two hours if so requested by an  
29 authorized representative of the Department; and

30 (B) The licensed constructor has signed the rough drilling log within eight working hours prior to  
31 the representative's visit.

32 (b) A licensed **Monitoring Well C**[*c*]onstructor must physically be on the site at all times when a  
33 cable tool drilling machine is:

34 (A) Drilling within a flowing artesian well;

35 (B) Setting or advancing casing;

36 (C) Setting liner;

37 (D) Perforating casing;

38 (E) Setting well screens;

1 (F) Placing packers;

2 (G) Drilling into, through, or below ground water suspected or known to be contaminated; and

3 (H) Placing casing seals.

4 (c) A **Monitoring Well Constructor** trainee may operate a non-cable tool monitoring well  
5 drilling machine without a licensed **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor physically present at  
6 the well site only during removal of the drill stem from the monitoring well.

7 (d) Activities under subsection (3)(c) of this rule shall proceed only if:

8 (A) The licensed **Monitoring Well C**[*c*]onstructor can reach the site within one hour if so  
9 requested by an authorized representative of the Department; and

10 (B) The licensed **Monitoring Well C**[*c*]onstructor has signed the rough drilling log within eight  
11 working hours prior to the representative's visit.

12 (e) An authorized representative of the Department in whose jurisdiction the monitoring well is  
13 being constructed has the authority to:

14 (A) Grant an extension to the time limits stated above when a request, showing good cause, is  
15 received from the bonded constructor in advance for each particular well; and

16 (B) Place additional restrictions on the trainee, including requiring the constructor to be on the  
17 site at all times while the drilling machine is operating, when the Department representative  
18 determines that either the drilling environment or the knowledge and/or experience of the trainee  
19 warrant closer supervision.

20 (f) For a **Monitoring Well Constructor** trainee to operate a monitoring well drilling machine  
21 without a licensed **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor present, the trainee's card must be  
22 endorsed with the name of the bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor responsible for the  
23 construction of the monitoring well.

24 (5) Other supervision requirements for persons not licensed or permitted to construct monitoring  
25 wells, or who do not hold a **M**[*m*]onitoring **W**[*w*]ell **Constructor** trainee card:

26 (a) Persons who are in the act of constructing, altering, converting or abandoning monitoring  
27 wells must be supervised by a licensed Monitoring Well Constructor who is physically present at  
28 the well site at all times during construction, alteration, conversion, or abandonment activity.

29 (b) The supervising Monitoring Well Constructor is responsible for all applicable statutes and  
30 rules in construction, alteration, conversion, or abandonment of the monitoring well.

31 (6) Persons who satisfy all requirements of ORS 537.747(3) shall be issued a Monitoring Well  
32 Constructor's License. The responsibilities for **issuing and** securing [*and issuing*] a Monitoring  
33 Well Constructor's License or trainee card are listed in subsections (a) and (b) of this section.

34 (a) The **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor's **L**[*l*]icense applicant is responsible for:

35 (A) Completing an application or renewal form for a new or renewed license or trainee card;

36 (B) Submitting the application or renewal form to the Water Resources Department along with  
37 the required fees;

38 (C) Carrying the license or trainee card whenever constructing, altering, converting, or  
39 abandoning any monitoring well; and

Language to be deleted is in italic and bracketed: [*example*]  
New language is in bold: **example**

1 (D) Providing the Water Resources Department, within 30 days, notification of any change of  
2 mailing address.

3 (E) Providing the Water Resources Department documentation satisfying the continuing  
4 education requirements set forth in OAR 690-240-0200 through 690-240-0280.

5 (b) The Water Resources Department is responsible for:

6 (A) Designing and providing Monitoring Well Constructor license(s) and trainee cards;

7 (B) Designing and providing application forms and renewal forms for licenses and application  
8 forms for trainee cards;

9 (C) Processing applications and renewals for licenses and applications for trainee cards; and

10 (D) Returning incomplete application and renewal forms to applicants for completion.

11 (E) Sending new and renewed licenses to applicants who have completed the application or  
12 renewal form and submitted the required fee. This does not preclude refusal to renew as outlined  
13 in OAR 690-240-0070(4).

14 (7) Bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor. For a person to possess a bonded Monitoring  
15 Well Constructor's License, the person shall provide to the Department a properly executed  
16 [*monitoring*] **Water W**[*w*]ell **C**[*c*]onstructor's **B**[*b*]ond or **I**[*i*]rrevocable **L**[*l*]etter of **C**[*c*]redit.  
17 The Water Resources Department shall indicate on the constructor's license a bonded  
18 classification.

19 (8) Representatives of the Water Resources Department may ask anyone constructing, altering, or  
20 abandoning a monitoring well to present their license or trainee card as proof of eligibility to  
21 construct, alter, convert, or abandon monitoring wells in the State of Oregon. Licensed  
22 individuals shall display their license or trainee card and photo identification when they are  
23 requested to do so by Water Resources Department personnel or other agency personnel to whom  
24 monitoring well regulation has been delegated.

25 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

26 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

27 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
28 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03

29  
30 **690-240-0070**

31 **Terms of Monitoring Well Constructor License and License Fees**

32 (1) The Department issues all **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor licenses. License fees are  
33 established by ORS 537.747. A penalty applies to late renewals.

34 (2) Fees for new licenses and renewal licenses are the same. The fee for a two year license is  
35 \$150. All licenses expire on June 30 of the second year.

36 (3) A \$100 penalty applies when a licensee renews a license [*after*] **within 12 months of the**  
37 expiration date. There is no charge for a Trainee Card.

38 (4) Monitoring **W**[*w*]ell **C**[*c*]onstructors who have not made arrangements with the Water  
39 Resources Department to pay civil penalties which are assessed against them shall not be issued a  
40 license renewal or a new license until after arrangements for payment have been agreed to by the

1 Department. Monitoring **W**[w]ell **C**[c]onstructors who have made arrangements for payment of  
2 civil penalties and have failed to meet the terms of the agreement, except in certain cases of  
3 bankruptcy, may not have their license renewed or a new license issued until all outstanding civil  
4 penalties owed to the Department have been paid.

5 Stat. Auth.: ORS 537 & ORS 742

6 Stats. Implemented: ORS 537 & ORS 742

7 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 7-2001, f. & cert. ef. 11-15-01

8  
9 **690-240-0220**

10 **Documentation**

11 (1) Each licensee is responsible for maintaining their continuing education records. Except as  
12 provided in OAR 690-240-0270(2), each licensee shall provide the Department with evidence of  
13 compliance with the continuing education requirement on a form approved by the Continuing  
14 Education Committee prior to or at the time of license renewal.

15 (2) Licensees who do not provide documentation of completion of the continuing education  
16 requirement or receive a waiver shall not have their license(s), or appropriate endorsement(s),  
17 renewed until this requirement is satisfied.

18 (3) Licensees who provide documentation of completion of the continuing education requirement  
19 within the 12 months after their license [*or endorsement*] expires may either pay the \$100 late  
20 penalty fee or requalify for a new **M**[m]onitoring **W**[w]ell **C**[c]onstructor's **L**[l]icense or  
21 endorsement in accordance with ORS 537.747(3). If a licensee fails to provide documentation of  
22 completion of the continuing education requirement within 12 months after expiration of their  
23 license or endorsement the person must comply with the requirements of ORS 537.747(3) for a  
24 new **M**[m]onitoring **W**[w]ell **C**[c]onstructor's **L**[l]icense or endorsement.

25 (4) CECs acquired during a renewal period in excess of the minimum CECs required may not be  
26 applied to future licensing periods.

27 (5) When an individual obtains a new **M**[m]onitoring **W**[w]ell **C**[c]onstructor's **L**[l]icense that  
28 expires within 14 months or less, the continuing education requirement shall be prorated such that  
29 only seven (7) CECs are required at the first renewal. Of the seven (7) required CECs:

30 (a) A maximum of two (2) CECs may be in Hazardous Materials training;

31 (b) A maximum of two (2) CECs may be in safety/first aid/CPR; and

32 (c) A minimum of one (1) CEC shall pertain to ground water and well construction statutes under  
33 ORS 537.505 to 537.795 and 537.992, and administrative rules under OAR 690-200 through 690-  
34 240.

35 Stat. Auth.: ORS 537 & ORS 742

36 Stats. Implemented: ORS 537 & ORS 742

37 Hist.: WRD 1-2003, f. & cert. ef. 3-14-03

38  
39 **690-240-0280**

40 **Waivers**

1 (1) The Director may waive the continuing education requirements for a licensed **M**[*m*]onitoring  
2 **W**[*w*]ell **C**[*c*]onstructor upon written request demonstrating inability to attend continuing  
3 education courses because of health, military duty or other circumstances beyond the control of  
4 the constructor.

5 (2) Licensees who are denied a waiver may appeal to the Commission by filing a written  
6 exception with the Department within 60 days of service of the Director's order.

7 Stat. Auth.: ORS 537 & ORS 742

8 Stats. Implemented: ORS 537 & ORS 742

9 Hist.: WRD 1-2003, f. & cert. ef. 3-14-03

10  
11 **690-240-0320**

12 **Contracting for Services**

13 Only Oregon licensed and bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructors may advertise services  
14 or enter into a contract, either written or oral, to construct, alter, convert, or abandon a  
15 monitoring well. Any written bid for a project which includes the construction, alteration,  
16 conversion, or abandonment of a monitoring well must provide:

17 (1) A bid or estimate for the work associated with monitoring well construction signed by a  
18 **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor, who is licensed and bonded in the State of Oregon.

19 (2) A statement by the licensed and bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor that the work  
20 will be completed in accordance with Oregon Ground Water Law (ORS chapter 537) and the  
21 Rules for the Construction, Maintenance, Alteration, Conversion, and Abandonment of  
22 Monitoring Wells, Geotechnical Holes, and Other Holes in Oregon (OAR chapter 690, division  
23 240).

24 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

25 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

26 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
27 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
28 0075

29  
30 **690-240-0330**

31 **Monitoring Well Constructor and Landowner Well Bonds or Letters of Credit**

32 (1) The Water Resources Department shall accept bonds only from corporations licensed by the  
33 Oregon Department of Insurance and Finance to issue fidelity and surety insurance. The Water  
34 Resources Department shall accept irrevocable letters of credit only from a bank as described in  
35 ORS 706.008.

36 (2) If the issuing corporation cancels a bond, the corporation shall provide notice of cancellation  
37 to the Water Resources Department by registered or certified mail. If the issuing bank cancels a  
38 letter of credit, the bank shall provide notice of cancellation to the Water Resources Department  
39 by registered or certified mail. The cancellation shall not take effect earlier than the 30th day after  
40 the date of mailing in accordance with ORS 742.366(2).

1 (3) When issuing a final enforcement order that may place a bond or irrevocable letter of credit in  
2 jeopardy, the Director may mail a copy of the order to the address of record of the surety  
3 company issuing the bond, or the bank issuing the irrevocable letter of credit.

4 (4) All *[monitoring]* wells shall be constructed under a bond or irrevocable letter of credit. The  
5 bond or letter of credit shall cover construction, alteration, conversion, or abandonment for each  
6 well under that bond or letter of credit for a period of three years after the date the well report is  
7 filed with the commission, whether or not the bond or letter of credit has been subsequently  
8 canceled.

9 *[(5) Water supply wells and monitoring wells are covered under separate bonds.]*

10 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

11 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

12 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
13 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
14 0080

15  
16 **690-240-0340**

17 **Landowner Well Construction Permit, Fee and Bond**

18 (1) The Water Resources Commission requires a permit, permit fee, and bond or irrevocable letter  
19 of credit, for each monitoring well constructed, altered, converted, or abandoned by a landowner,  
20 unless the landowner is a licensed and bonded **M***[m]*onitoring **W***[w]*ell **C***[c]*onstructor. **The**  
21 **landowner permit and bond shall be obtained prior to beginning work on a well.**

22 (2) To receive a Landowner Well permit, a person must submit the following to the Director:

23 (a) A completed application form provided by the Commission, containing, as a minimum:

24 (A) The property owner's name, address and telephone number;

25 (B) The surety company's name, address and telephone number;

26 (C) The proposed location of the well by township, range, section, tax-lot number if assigned, and  
27 street address;

28 (D) The proposed use of the monitor well; and

29 (E) The type of proposed work; and

30 (F) Well design plan on form approved by the Department.

31 (b) A properly executed **L***[l]*andowner's *[monitoring]* **Water** **W***[w]*ell **B***[b]*ond or **I***[i]*rrevocable  
32 **L***[l]*etter of **C***[c]*redit for \$5,000 to the State of Oregon; and

33 (c) A \$25 permit fee.

34 (3) Only the owner of record, a member of the immediate family of the owner of record, or a full  
35 time employee of the owner of record, (whose main duties are other than the construction of  
36 wells), may operate a well drilling machine under a landowner's permit.

37 (4) A landowner permit issued pursuant to these rules shall expire six months from the date of  
38 issuance.

1 (a) A monitor well report shall be submitted within 30 days of expiration of the landowner permit,  
2 or within 30 days of completion of the well, whichever occurs first.

3 (5) If the landowner permit expires, a landowner may reapply for a new landowner permit by  
4 complying with the requirements described in sections (1), (2) and (3) of this rule.

5 (6) The Department may deny a landowner permit if it is determined that the construction,  
6 alteration, abandonment, or conversion of the proposed well is a health threat, a health hazard, a  
7 source of contamination, or a source of waste of the ground water resource.

8 Stat. Auth.: ORS 183, 536, 537 & 540

9 Stats. Implemented:

10 Hist.: WRD 7-2001, f. & cert. ef. 11-15-01; WRD 2-2002, f. & cert. ef. 9-6-02; WRD 1-2003, f.  
11 & cert. ef. 3-14-03; Renumbered from 690-240-0082; WRD 4-2004, f. & cert. ef. 6-15-04

12  
13 **690-240-0355**

14 **Monitoring Well Drilling Machines**

15 (1) All monitoring well drilling machines being operated, other than under a landowner's permit,  
16 shall be plainly marked either with the bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor's license  
17 number, the name of the bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor, or the name of the well  
18 drilling business. The markings shall be permanently affixed on each side of the vehicle. Good  
19 quality paint or commercial decal numbers shall be used in placing the identification information  
20 on the drilling machine. In no case shall the constructor's license number, name, or business  
21 name, be inscribed with crayon, chalk, marking keel, pencil, or other temporary markings.

22 (2) In all cases, the license number, name, or business name, of the bonded **M**[*m*]onitoring  
23 **W**[*w*]ell **C**[*c*]onstructor shall be removed from the drilling machine immediately upon change of  
24 ownership or change of control of the drilling machine.

25 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

26 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

27 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
28 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
29 0085

30  
31 **690-240-0375**

32 **Monitoring Well Construction Notice Required (Start Card)**

33 (1) Each bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor licensed to operate in the State of  
34 Oregon and each landowner holding a landowner's permit shall provide notice as required in ORS  
35 537.762 before commencing the construction, alteration, or abandonment of any monitoring well  
36 or conversion of any other hole, geotechnical hole, or water supply well to a monitoring well. The  
37 start card shall contain the following information:

38 (a) Name and mailing address of the landowner;

39 (b) Street address of the well;

40 (c) The approximate location of the monitoring well; and

41 (d) The proposed depth, diameter, and purpose or use if the well is new, altered, or converted.

Language to be deleted is in italic and bracketed: [*example*]

New language is in bold: **example**

1 (2) All start cards for new monitoring wells, deepening a well, or conversion of other holes,  
2 geotechnical holes, or water supply wells shall be submitted with a \$125 start card fee. A start  
3 card fee is not required to abandon a monitoring well. OAR 690-240-0340 shall apply to  
4 landowners who construct, alter, convert, or abandon a monitoring well.

5 (3) Forms for making these reports and submitting fees shall be furnished by the Water Resources  
6 Department.

7 (4) Each start card shall be mailed, hand-delivered during regular business hours or transmitted by  
8 Department-approved electronic submittal to the Water Resources Department in Salem no later  
9 than the day construction, conversion, alteration, or abandonment is commenced.

10 (a) Start cards submitted electronically shall be submitted before commencing construction,  
11 alteration, conversion or abandonment of any monitoring well.

12 (5) In addition to the start card required under section (4) of this rule, the constructor shall  
13 provide a legible copy of the start card to the Oregon Water Resources Department (OWRD)  
14 region office within which the monitoring well is being constructed, altered, converted or  
15 abandoned before commencing the construction, alteration, conversion or abandonment of any  
16 monitoring well, using one of the following options:

17 (a) By regular mail no later than three (3) calendar days (72 hours) prior to commencement of  
18 work; or

19 (b) By hand delivery, during regular office hours, before commencing the construction, alteration,  
20 conversion or abandonment of any monitoring well; or

21 (c) By facsimile transmission (FAX) before commencing the construction, alteration, conversion  
22 or abandonment of any monitoring well. If this method is used, a legible copy of the start card  
23 shall also be mailed or delivered to the appropriate OWRD region office no later than the day  
24 work is commenced.

25 (d) Start cards submitted electronically under Section (4)(a) of this rule have satisfied the  
26 notification requirement to the OWRD region office.

27 (6) If a start card has been filed under section (4) and (5) of this rule and additional wells are  
28 required on the same or contiguous tax lot and for the same landowner, then start cards for the  
29 additional wells shall be filed no later than the day work begins.

30 (7) The Director or region office may provide an alternate means of notification. If an alternative  
31 means of notification is used, the start card shall be mailed or delivered to the region office within  
32 one week of beginning work on the monitoring well. A **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor  
33 whose license has been restricted by order shall provide notice as stipulated in the order.

34 (8) Once received by the Department, the start card shall be confidential for a period of one year  
35 after it is received or until the monitoring well report required by OAR 690-240-0395 is received,  
36 whichever is shorter.

37 (9) The start card may be used in an administrative enforcement action at any time, including the  
38 period of confidentiality. Once the start card is used for enforcement reasons, it is no longer  
39 confidential.

40 NOTE: Region office fax and telephone numbers are listed in Table 240-2. Water Resources  
41 Department Regional boundaries are shown in Figure 240-2.

Language to be deleted is in italic and bracketed: [*example*]  
New language is in bold: **example**

1 [ED. NOTE: Tables and Figures referenced are available from the agency.]

2 Stat. Auth.: ORS 536.090 & 537.505 - 537.795

3 Stats. Implemented: ORS 536.090 & 537.505 - 537.795

4 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 2-  
5 1995, f. 5-17-95, cert. ef. 7-1-95; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 2-2002, f. & cert.  
6 ef. 9-6-02; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-0090; WRD 4-2004,  
7 f. & cert. ef. 6-15-04

8  
9 **690-240-0395**

10 **Monitoring Well Report Required (Monitoring Well Log)**

11 (1) A monitoring well report shall be prepared for each monitoring well constructed, altered,  
12 converted, or abandoned including unsuccessful monitoring wells. The log shall be certified as  
13 correct by signature of the **M***[m]*onitoring **W***[w]*ell **C***[c]*onstructor constructing the monitoring  
14 well. The completed log shall also be certified by the bonded **M***[m]*onitoring **W***[w]*ell  
15 **C***[c]*onstructor responsible for construction of the monitoring well. A monitoring well report must  
16 be submitted by each bonded constructor (if drilling responsibility is shifted to a different bonded  
17 constructor), showing the work performed by each bonded constructor.

18 (2) The log shall be prepared in triplicate on forms furnished or previously approved in writing by  
19 the Water Resources Department. The original shall be furnished to the Director, the first copy  
20 shall be retained by the **M***[m]*onitoring **W***[w]*ell **C***[c]*onstructor, and the second copy shall be  
21 given to the customer who contracted for the construction of the monitoring well.

22 (3) The bonded **M***[m]*onitoring **W***[w]*ell **C***[c]*onstructor shall file the monitoring well log with the  
23 Director within 30 day after the completion of the construction, alteration, conversion, or  
24 abandonment of the monitoring well.

25 (4) The trainee or **M***[m]*onitoring **W***[w]*ell **C***[c]*onstructor operating the monitoring well drilling  
26 machine shall maintain a rough log of all geologic strata encountered and all materials used in the  
27 construction of the monitoring well. This log shall be available for inspection by the Watermaster  
28 or other authorized agent of the Water Resources Department or other delegated agency  
29 representative at any time before the monitoring well report is received by the Department. The  
30 rough drilling log shall be in handwritten or electronic form, or a voice recording.

31 (5) In the event a constructor leaves any drilling equipment or other tools in a monitoring well  
32 this fact shall be entered on the monitoring well report.

33 (6) A copy of any special authorizations or special standards issued by the Director shall be  
34 attached to the monitoring well report.

35 (7) The report of monitoring well construction required in section (1) of this rule shall be  
36 recorded on a form provided or previously approved in writing by the Department. The form shall  
37 include, as a minimum, the following:

38 (a) Name and Address of Landowner;

39 (b) Started/Completed date;

1 (c) Location of the well by county, Township, Range, Section, tax lot number, if assigned,] street  
2 address, or nearest address, and either the 1/4, 1/4 section or Latitude and Longitude as  
3 established by a global positioning system (GPS);

4 (d) Start card number;

5 (e) Well identification label number (well tag number);

6 (f) Use of well;

7 (g) Type of work;

8 (h) Type and amount of sealant used and measured weight of the grout slurry as required in OAR  
9 690-240-0475(2)(g);

10 (i) Temperature of water;

11 (j) Map showing location of monitoring well on site, must be attached and shall include an  
12 approximate scale and a north arrow;

13 (k) Such additional information as required by the Department.

14 Stat. Auth.: ORS 536.090 & 537.505 - 537.795

15 Stats. Implemented: ORS 536.090 & 537.505 - 537.795

16 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
17 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
18 0095; WRD 4-2004, f. & cert. ef. 6-15-04

19  
20 **690-240-0485**

21 **Monitoring Well Development**

22 (1) The monitoring well development shall not affect the integrity of the casing or seal.  
23 Monitoring well development shall not occur prior to 24 hours after annular seal placement if  
24 cement grout or a bentonite grout slurry is used, or 12 hours after annular seal placement if dry  
25 bentonite is used. The well may be developed prior to placement of the annular sealing material.

26 (2) The monitoring well development should:

27 (a) Remove any water or drilling fluid introduced into the well during drilling;

28 (b) Stabilize the filter pack and formation materials opposite the well screen;

29 (c) Minimize the amount of fine-grained sediment entering the well; and

30 (d) Maximize well efficiency.

31 (3) As long as the well is not altered, the monitoring well development may be performed by  
32 other than a licensed and bonded **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor.

33 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

34 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

35 Hist.: WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 1-  
36 2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-0131

37  
38 **690-240-0500**

39 **Completion of Monitoring Wells**

Language to be deleted is in italic and bracketed: [*example*]

New language is in bold: **example**

1 (1) A **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor or permitted landowner constructing their own well  
2 shall not remove the drilling machine from a monitoring well site, unless it is immediately  
3 replaced by another monitoring well drilling machine in operating condition, prior to completion  
4 or abandonment of the monitoring well in compliance with OAR 690-240-0005 through 690-240-  
5 0540.

6 (2) Installation of the protective metal posts does not require a **M**[*m*]onitoring **W**[*w*]ell  
7 **C**[*c*]onstructor's **L**[*l*]icense, providing the surface seal is not disturbed.

8 (3) Installation of the protective posts described in OAR 690-240-0420 shall be completed within  
9 one week of placement of the seal.

10 (4) If installation of the protective measures as described in OAR 690-240-0420 are not  
11 completed within 24 hours of seal placement, the monitoring well shall be marked using one of  
12 the following methods:

13 (a) Placement of three stakes around the well connected with fluorescent survey tape;

14 (b) Placement of construction barricades around the well; or

15 (c) Use of other protective measures as approved by the Water Resources Department.

16 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

17 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

18 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
19 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
20 0132

## 21 **690-240-0510**

### 22 **Abandonment of Monitoring Wells**

23 Proper abandonment of monitoring wells will prevent both vertical movement of water within the  
24 well bore and infiltration of surface water into the well:  
25

26 (1) In areas where ground water contamination has been identified, except as described in number  
27 (4) below, abandonment shall require the borehole to be completely redrilled to a minimum of the  
28 original diameter. All casing, screen, annular sealing material, drill cuttings, debris, and filter  
29 pack material shall be removed prior to sealing.

30 (2) In areas where ground water contamination has not been identified, if it can be verified that  
31 the monitoring well was constructed in accordance with these rules, it shall be abandoned by  
32 filling the well from the bottom up with an approved sealant as described in OAR 690-240-0475.  
33 The casing shall then be removed below grade, as compatible with local site conditions and land  
34 practices. The following are acceptable methods of original well construction verification:

35 (a) A well report in accordance with OAR 690-240-0395;

36 (b) Well construction information submitted to the Oregon Department of Environmental Quality;

37 (c) Information obtained through down-hole geophysical logging; or

38 (d) Other information as approved by the Water Resources Department.

1 (3) In areas where ground water contamination is not present, and if the monitoring well  
2 construction cannot be verified by means listed in section (2) of this rule, the well shall be  
3 abandoned according to section (1) of this rule.

4 (4) In contaminated areas where remediation has occurred, an approved special standard is  
5 required to abandon a well unless it is abandoned according to section (1) of this rule.

6 Abandonment procedures will be considered on a case by case basis. The Department will consult  
7 with the state or federal agency that supervised the remediation in determining the appropriate  
8 abandonment method. In cases where there was no agency oversight, the Department will  
9 consider any information supplied by the licensed and bonded **M**[*m*]onitoring **W**[*w*]ell  
10 **Constructor** [driller] in determining the appropriate abandonment procedure.

11 (5) Grout slurries shall be placed from the bottom up by a grout pipe to avoid segregation or  
12 dilution of the sealant. The discharge end of the grout pipe shall be submerged in the grout to  
13 avoid breaking the seal while filling the annular space. Grout slurries used to abandon monitoring  
14 wells shall conform to the requirements of OAR 690-240-0475.

15 (6) The abandonment procedure shall be recorded on a form provided by or previously approved  
16 in writing by the Department. The form shall include, as a minimum, all the requirements as listed  
17 in OAR 690-240-0395, plus:

18 (a) Method of abandonment;

19 (b) If assigned, the well identification number, original start card number, and owner's well  
20 number of the abandoned well.

21 (7) When abandoning artesian monitoring wells, in addition to sections (1)-(6) of this rule, the  
22 flow shall be confined or restricted by cement grout applied under pressure, or by the use of a  
23 suitable well packer, or a wooden plug placed at the bottom of the confining formation  
24 immediately above the artesian water bearing zone. An approved sealant shall be used to fill the  
25 well to land surface as specified in OAR 690-240-0475.

26 (8) Monitoring wells that were constructed under special standards will require the abandonment  
27 method to be approved by the Department.

28 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

29 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

30 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
31 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
32 0135

33  
34 **690-240-0560**

### 35 **Investigation of Alleged Violations**

36 (1) The Water Resources Director, upon the Director's own initiative, or upon complaint alleging  
37 violation of statutes, standards or rules governing licensing of **M**[*m*]onitoring **W**[*w*]ell  
38 **C**[*c*]onstructors and/or, construction, alteration, conversion, maintenance, or abandonment of  
39 monitoring wells, geotechnical holes or other holes may cause an investigation to determine  
40 whether a violation has occurred. If the investigation indicates that a violation has occurred, the  
41 Director shall notify the persons believed responsible for the violation including but not limited  
42 to:

Language to be deleted is in italic and bracketed: [*example*]  
New language is in bold: **example**

- 1 (a) Any **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor involved;
- 2 (b) The landowner, if the violation involves construction, alteration, conversion, maintenance,  
3 operation or abandonment of a well, geotechnical hole, or other hole;
- 4 (c) The agency that has been delegated authority over a particular class of wells, geotechnical  
5 holes, or other holes and/or
- 6 (d) Any registered geologist or civil engineer in construction, alteration, or abandonment of a  
7 geotechnical hole.

8 (2) Enforcement and civil penalty assessment for "other than well constructors" is described in  
9 OAR 690-260.

10 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.7952

11 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

12 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 2-  
13 1995, f. 5-17-95, cert. ef. 7-1-95; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert.  
14 ef. 3-14-03; Renumbered from 690-240-0150

15  
16 **690-240-0580**

17 **Enforcement Actions**

18 (1) If, after notice and opportunity for hearing under ORS 183.310 to 183.550 the Director  
19 determines that one or more violations have occurred, the Director may impose one or more of the  
20 following:

- 21 (a) Provide a specified time for remedy;
- 22 (b) Assess a civil penalty in accordance with the schedule of civil penalties in OAR 690-240-  
23 0640;
- 24 (c) Suspend, revoke, or refuse to renew the license(s) when one or more persons responsible for  
25 the violation hold a **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor's **L**[*l*]icense;
- 26 (d) Require that a person whose license has been refused renewal pass the **M**[*m*]onitoring  
27 **W**[*w*]ell **C**[*c*]onstructor's **License** examination before a new license is issued or the current  
28 license is renewed;
- 29 (e) Impose any reasonable conditions on the **M**[*m*]onitoring **W**[*w*]ell **C**[*c*]onstructor's **L**[*l*]icense  
30 to ensure correction of the violation and future compliance with the law. These conditions may  
31 include but are not limited to:
- 32 (A) Fulfilling any outstanding obligations which are the result of administrative action before the  
33 constructor can offer any services or construct, alter, convert, or abandon any monitoring well;
- 34 (B) Requiring additional advance notice to be given to the Department of construction, alteration  
35 or abandonment of any monitoring well;
- 36 (C) Requiring a seal placement notice be given to the Department up to 72 hours in advance of  
37 placing the seal; or
- 38 (D) Any other conditions the Director deems appropriate.

1 (f) Order the landowner to repair or meet other conditions on use of the well, or order  
2 discontinuance of the use and order proper abandonment pursuant to ORS 537.775;

3 (g) Make demand on the **Water** [monitoring] **W**[w]ell **C**[c]onstructor's bond or the  
4 **L**[l]andowner's **Water Well B**[b]ond. This may occur only if the Director has given the notice  
5 required in OAR 690-240-0560 to the persons responsible for the violation within three years  
6 after the date the monitoring well report is filed with the Department. If no monitoring well report  
7 has been filed, the three year limitation shall not apply until such time as a well report is filed; or  
8

9 (h) Take any other action authorized by law.

10 (2) An order may specify a schedule of escalating or cumulative sanctions to be assessed on  
11 specified dates until the violation has been satisfactorily corrected.

12 (3) Any **M**[m]onitoring **W**[w]ell **C**[c]onstructor whose license is suspended or revoked shall **not**  
13 **contract for well construction services or operate well drilling machines in the State of**  
14 **Oregon** [*be considered not licensed*] during the [*period of*] suspension or revocation **period**. [*The*  
15 *appropriate provisions of OAR 690-240 shall apply.*]

16 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

17 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

18 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
19 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
20 0155

## 21 **690-240-0610**

### 22 **Change in Enforcement Status**

23 (1) In the interest of achieving compliance, the Director at any time may reevaluate the status of  
24 the violation(s) and take appropriate action, including reduction of the enforcement level or  
25 remission of all or part of any civil penalties assessed.  
26

27 (2) The Director may terminate proceedings against a **M**[m]onitoring **W**[w]ell **C**[c]onstructor if  
28 the constructor provides acceptable evidence that:

29 (a) The landowner does not permit the constructor to be present at any inspection made by the  
30 Director; or

31 (b) That the constructor is capable of complying with recommendations made by the Director, but  
32 the landowner does not permit the constructor to comply. In such cases, the landowner is  
33 responsible for bringing the well into compliance pursuant to ORS 537.535, and if the landowner  
34 was not a party to the original enforcement proceeding the Director may initiate a proceeding to  
35 ensure that the landowner does so.

36 Stat. Auth.: ORS 537 & ORS 742

37 Stats. Implemented: ORS 537 & ORS 742

38 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 7-2001, f. & cert. ef. 11-15-01; WRD 1-2003, f.  
39 & cert. ef. 3-14-03; Renumbered from 690-240-0170

## 40 **690-240-0640**

1 **Schedule of Civil Penalties**

2 (1) The amount of civil penalty shall be determined consistent with the following schedule:

3 (a) Not less than \$25 nor more than \$250 for each occurrence defined in these rules as a minor  
4 violation;

5 (b) Not less than \$50 nor more than \$1,000 for each occurrence defined in these rules as a major  
6 violation;

7 (c) First occurrence, in a calendar year, of a missing or late start card fee shall be \$150;

8 (d) Second occurrence, in a calendar year, of a missing or late start card fee shall be \$250; and

9 (e) Third, and each subsequent, occurrence, in a calendar year, of a missing or late start card fee  
10 shall be \$250 and may include suspension of the M[m]onitoring W[w]ell C[c]onstructor's  
11 L[l]icense, and any other action authorized by law.

12 (2) For purposes of assessing a civil penalty, the start card fee referred to in subsections (1)(c),  
13 (d), and (e) of this rule shall not be considered late if it is received in the Salem office of the  
14 Water Resources Department within five days of the receipt of the start card, provided the start  
15 card was submitted in a timely manner as defined in OAR 690-240-0375.

16 (3) Table 240-3 lists minor violations related to monitoring well construction and geotechnical  
17 holes. All other violations are declared to be major.

18 [ED. NOTE: Tables referenced are available from the agency.]

19 Stat. Auth.: ORS 536.090 & ORS 537.505 - ORS 537.795

20 Stats. Implemented: ORS 536.090 & ORS 537.505 - ORS 537.795

21 Hist.: WRD 14-1990, f. & cert. ef. 8-9-90; WRD 8-1993, f. 12-14-93, cert. ef. 1-1-94; WRD 7-  
22 2001, f. & cert. ef. 11-15-01; WRD 1-2003, f. & cert. ef. 3-14-03; Renumbered from 690-240-  
23 0180