

Approved:



MEMO

To: Kristopher Byrd, Well Construction Manager
From: Tommy Laird, Well Construction Program Coordinator
Subject: Review of Water Right Application LL-1982
Date: February 5, 2025

The attached application was forwarded to the Well Construction Section by the Groundwater Section. Josh Hackett reviewed the application. Please see Josh's Groundwater Review and the Well Reports.

Applicant's Well #1 (GILL 38): Based on a review of the Well Report, Well #1 does not appear to comply with current minimum well construction standards (See OAR 690 Division 210). The problem is that the Water Supply Well Report does not indicate the borehole diameter around the 20-inch casing. In order to meet minimum construction standards, the well must be resealed around the 20-inch casing with an approved grout.

My recommendation is that the Department **not issue** a permit for Well #1 unless it is brought into compliance with current minimum well construction standards or information is provided showing that it is constructed to meet current minimum well construction standards.

The repair of Well #1 may not satisfy hydraulic connection issues.

Applicant's Well #2 (GILL 45): Based on a review of the Well Report, Well #2 seems to protect the groundwater resource. This review is partially based on the presumption that what is reported on the log as a 16-inch steel liner, is actually a 16-inch steel inner casing.

The construction of Well #2 may not satisfy hydraulic connection issues.

WATER WELL REPORT

STATE OF OREGON

RECEIVED

SEP 17 1981

WATER RESOURCES DEPT

State Well No.

State Permit No.

(1) OWNER:

Name THE PLATEAU FARMS

Address

City

State

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☒ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐
 Rotary Mud ☐ Dug ☐ Irrigation ☒ Test Well ☐ Other ☐
☐ Bored ☐ Thermal ☐ Withdrawal ☐ Reinjection ☐

(4) PROPOSED USE (check):

CASING INSTALLED:

Steel ☒ Plastic ☐
 Threaded ☐ Welded ☒

20" Diam. from +1 ft. to 19 ft. Gauge 250
 16" Diam. from +1 ft. to 346 ft. Gauge 375

LINER INSTALLED:

14" Diam. from +1 ft. to 528 ft. Gauge 312

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations

in. by

in.

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? FARMORE

gal./min. with ft. drawdown after hrs.

Air test 420 gal./min. with drill stem at 1080 ft. 10 hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water 61 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☒

Well seal—Material used Cement

Well sealed from land surface to 19 and 346' ft.

Diameter of well bore to bottom of seal 19 1/2 in.

Diameter of well bore below seal 15 3/8 in.

Number of sacks of cement used in well seal 356 sacks

How was cement grout placed? Positive pressure up with grout

line and pump

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.Did any strata contain unusable water? ☐ Yes ☒ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No

Size of gravel: ft.

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Gillam

Driller's well number 80-7

NW 1/4 NW 1/4 Section 1 T. 1N R. 21E W.M.

Tax Lot #

Lot

Blk

Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found 499 ft.

Static level 380 ft. below land surface. Date 16/8/81

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 12"

Depth drilled 1086 ft. Depth of completed well 1066 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Clay W/ Gravel	0	11	
Clay brn	11	25	
Clay brn W/sand	25	41	
Clay tan W/sand	41	57	
Clay tan W/fine gravel	57	66	
Clay tan W/sand	66	73	
Clay white W/gravel	73	79	
Clay pink W/sand	79	88	
Clay brn W/cobbles	88	93	
Clay brn W/fine sand/siltgravel	93	106	
Basalt brn broken	106	126	
Clay brn W/fine gravel	126	147	
Clay brn W/sand	147	160	
Sandstone brn coarse	160	180	
Sandstone brn med	180	246	
Sandstone tan med.	246	272	
Sandstone pink med.	272	298	
Sandstone tan W/gravel	298	320	
Sandstone pink	320	326	
Basalt grey hard	326	376	
Basalt blk hard fract.	376	384	

Work started 6 May 19 81 Completed 24 Aug 1981

Date well drilling machine moved off of well 29 Aug 1981

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

(Signed) [Signature] Date 15 Sept., 1981
 (Drilling Machine Operator)

Drilling Machine Operator's License No. 1293

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name MARINELLI & AUSTIN DRILLING

(Person, firm or corporation)

(Type or print)

Address P.O. Box 302, The Dalles, OR. 97058

(Signed) [Signature] (Water Well Contractor)

Contractor's License No. 672 Date 15 Sept., 19 81

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,

SALEM, OREGON 97310

within 30 days from the date of well completion.

SP-12858-890

WATER WELL REPORT

STATE OF OREGON

RECEIVED

SEP 17 1981

WATER RESOURCES DEPT

SALEM, OREGON

State Well No.

State Permit No.

(1) OWNER:

Name THE PLATEAU FARMS Pg. 2 Cont.

Address

City State

(2) TYPE OF WORK (check): See pg. 1 Cont

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

(4) PROPOSED USE (check):

Rotary Air ☐ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐
 Rotary Mud ☐ Dug ☐ Irrigation ☐ Test Well ☐ Other ☐
 C ☐ Bored ☐ Thermal: ☐ Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:

Steel ☐ Plastic ☐
Threaded ☐ Welded ☐

" Diam. from ft. to ft. Gauge

" Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

Size of perforations in. by in.

..... perforations from ft. to ft.

..... perforations from ft. to ft.

..... perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

" gal./min. with ft. drawdown after hrs.

" " " "

Air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☐

Well seal—Material used

Well sealed from land surface to ft.

Diameter of well bore to bottom of seal in.

Diameter of well bore below seal in.

Number of sacks of cement used in well seal sacks

How was cement grout placed?

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.Did any strata contain unusable water? ☐ Yes ☐ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County GILLAM Driller's well number 80-7

NW ¼ NW ¼ Section 1 T. 1N R. 21 E. W.M.

Tax Lot # Lot Blk Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

See pg. 1

Depth at which water was first found ft.

Static level ft. below land surface. Date

Artesian pressure lbs. per square inch. Date

(12) WELL LOG: See Pg. 1

Diameter of well below casing

Depth drilled ft. Depth of completed well ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Clay W/sand brn soft	384	399	
Basalt blk. hard	399	410	
Basalt blk. hard fract.	410	415	
Sandstone tan	415	419	
Basalt grey (clay & gravel)	419	430	
Basalt blk. fract hard	430	434	
Basalt blk. hard	434	487	
Basalt blk. hard fract.	487	499	
Gravel cemented WB	499	516	380
Basalt hard blk	516	520	
Cinder red (case d out water)	520	523	
Basalt blk. W/red	523	535	
Basalt grey hard	535	541	dry
Basalt grey vey hard	541	561	
Basalt black med fract.	561	564	
Basalt blk. med. hard	564	585	
Basalt blk. hard	585	638	
Basalt blk. very hard	638	727	
Basalt blk. hard sm. fract.	727	735	
Basalt blk. hard	735	830	
Basalt blk. med. hard	830	838	

Work started Cont. pg. 13 Completed 19

Date well drilling machine moved off of well 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date, 19.....
 (Drilling Machine Operator)

Drilling Machine Operator's License No.

Water Well Contractor's Certification: See pg. 3

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name
 (Person, firm or corporation) (Type or print)

Address

[Signed]
 (Water Well Contractor)

Contractor's License No. Date, 19.....

WATER WELL REPORT

STATE OF OREGON

PAGR 3 Cont.

WATER RESOURCES DEPT

SALEM, OREGON

RECEIVED

SEP 27 1981

State Well No.

State Permit No.

(1) OWNER:

Name THE PLATEAU FARMS

Address

City

State

(2) TYPE OF WORK (check): See pg. 1

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☐ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐
 Rotary Mud ☐ Dug ☐ Irrigation ☐ Test Well ☐ Other ☐
 C ☐ Bored ☐ Thermal: ☐ Withdrawal ☐ Reinjection ☐

(4) PROPOSED USE (check):

CASING INSTALLED: Steel ☐ Plastic ☐
 Threaded ☐ Welded ☐

" Diam. from ft. to ft. Gauge
 " Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

Size of perforations in. by in.
 perforations from ft. to ft.
 perforations from ft. to ft.
 perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

gal./min. with ft. drawdown after hrs.
 " " " "

Air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☐

Well seal—Material used

Well sealed from land surface to ft.

Diameter of well bore to bottom of seal in.

Diameter of well bore below seal in.

Number of sacks of cement used in well seal sacks

How was cement grout placed?

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.Did any strata contain unusable water? ☐ Yes ☐ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel: ft.

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County GILLAM

Driller's well number 80-7

NW ¼ NW ¼ Section 1 T. 1N R. 21 E. W.M.

Tax Lot # Lot Blk Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found See pg. 1 ft.

Static level ft. below land surface. Date

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled ft. Depth of completed well ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Basalt blk. Very hard	838	855	
Basalt blk hard fract.	855	898	
Basalt blk. very hard	898	966	
Basalt blk. fract. WB	966	981	370
Basalt blk. hard	981	1009	
Basalt blk. fract.	1009	1026	
Basalt blk. hard	1026	1056	
Basalt blk. med fract. WB	1056	1066	380
Clay green soft	1066	1072	
Basalt fract W/Clay green	1072	1076	
Basalt blk. hard	1076	1086	

Liner set to 528 ft. and first water cut off. Drilled 12 in. hole to 1000' and reduced hole diameter to 10" for balance of hole

Work started 19 Completed 19

Date well drilling machine moved off of well 19

Drilling Machine Operator's Certification: See pg 1

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date 19

(Drilling Machine Operator)

Drilling Machine Operator's License No.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name MARINELLI & AUSTIN DRILLING

(Person, firm or corporation)

(Type or print)

Address P.O. Box 302, The Dalles, OR. 97058

[Signed] Date 19

(Water Well Contractor)

Contractor's License No. 672 Date 15 Sept. 81, 19

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
 SALEM, OREGON 97310
 within 30 days from the date of well completion.

SP*12658-690

WATER WELL REPORT

STATE OF OREGON

RECEIVED

SEP 17 1981

State Well No.

State Permit No.

GILL

WATER RESOURCES DEPT

SALEM, OREGON

(1) OWNER:

Name The Plateau FarmsAddress 4047 SW Greehills WayCity Portland, Oregon 97221 State

(2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☒ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐
 Rotary Mud ☐ Dug ☐ Irrigation ☒ Test Well ☐ Other ☐
 Cased ☐ Bored ☐ Thermal: Withdrawal ☐ Reinjection ☐

(4) PROPOSED USE (check):

(5) CASING INSTALLED:

Steel ☒ Plastic ☐
 Threaded ☐ Welded ☒
 20" Diam. from +1 ft. to 26 ft. Gauge 250
 " Diam. from ft. to ft. Gauge

LINER INSTALLED:

16" Diam. from +1 ft. to 299 ft. Gauge 312

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Type of perforator used

Size of perforations in. by in.
 perforations from ft. to ft.
 perforations from ft. to ft.
 perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? FARMORE

gal./min. with ft. drawdown after hrs.

Air test 380 gal./min. with drill stem at 1060 ft. 6 hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

perature of water 82 Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☒Well seal—Material used Cement

Well sealed from land surface to 26 (16" to 299') ft.

Diameter of well bore to bottom of seal 24" (19 3/8") in.

Diameter of well bore below seal 15 3/8 in.

Number of sacks of cement used in well seal 240 sacks

How was cement grout placed? Positive pressure upwith grout line and pumpWas pump installed NO Type HP Depth ft.Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.Did any strata contain unusable water? ☐ Yes ☒ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel: ft.

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County GilliamDriller's well number 80-6SW 1/4 SW 1/4 Section 12 T. 1N R. 21E W.M.

Tax Lot # Lot Blk Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

Depth at which water was first found 660 ft.Static level 420 ft. below land surface. Date 20 Aug 81

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 15-12-10Depth drilled 1093 ft. Depth of completed well 1087 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Gravel cemented	90	17	
Sandstone	17	35	
Clay with gravel	35	53	
Basalt some fract. grey	53	69	
Clay trace sand	69	95	
Sandstone tan	95	106	
Clay brown	106	109	
Sandstone tan	109	118	
Clay tan W/cobbles	118	122	
Basalt grey	122	136	
Basalt fract trace gravel	136	152	2
Basalt fract Show sand & ash	152	195	Page
Sand & gravel cemented (clay)	195	207	
Gravel W/Clay	207	257	Cont.
Basalt hard trace of clay	257	291	
Basalt hard grey sm. fract	291	297	
Basalt grey very hard	297	346	
Clay grey	346	357	
Conglomerate cemented W clay	357	361	
Basalt grey v.Hard	361	401	
Basalt grey fract W/brn & red	401	420	

Work started 1 April 19 81 Completed 20 Aug 19 81Date well drilling machine moved off of well 27 Aug 19 81

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] [Signature] Date 14 Sept. 1981
 (Drilling Machine Operator)

Drilling Machine Operator's License No. 1293

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name MARINELLI & AUSTIN DRILLING
 (Person, firm or corporation) (Type or print)

Address P.O. Box 302, The Dalles, OR 97058

[Signed] [Signature]
 (Water Well Contractor)

Contractor's License No. 672 Date 14 Sept. 19 81

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
 SALEM, OREGON 97310
 within 30 days from the date of well completion.

SP*12658-680

WATER WELL REPORT

STATE OF OREGON

RECEIVED

SEP 17 1981

WATER RESOURCES DEPT

SALEM, OREGON

State Well No.

State Permit No.

(1) OWNER:

Name THE PLATEAU FARMS Pg. 2 Cont.

Address

City State

(2) TYPE OF WORK (check):

see pg.1

New Well ☐ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

(4) PROPOSED USE (check):

Rotary Air ☐ Driven ☐ Domestic ☐ Industrial ☐ Municipal ☐
 Rotary Mud ☐ Dug ☐ Irrigation ☐ Test Well ☐ Other ☐
☐ Bored ☐ Thermal: ☐ Withdrawal ☐ Reinjection ☐

5) CASING INSTALLED:

Steel ☐ Plastic ☐
Threaded ☐ Welded ☐

" Diam. from ft. to ft. Gauge

" Diam. from ft. to ft. Gauge

LINER INSTALLED:

" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? ☐ Yes ☐ No

Type of perforator used

Size of perforations in. by in.
 perforations from ft. to ft.
 perforations from ft. to ft.
 perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☐ Yes ☐ No

Manufacturer's Name

Type Model No.

Diam. Slot Size Set from ft. to ft.

Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☐ No If yes, by whom?

gal./min. with ft. drawdown after hrs.

Air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow g.p.m.

erature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☐

Well seal—Material used

Well sealed from land surface to ft.

Diameter of well bore to bottom of seal in.

Diameter of well bore below seal in.

Number of sacks of cement used in well seal sacks

How was cement grout placed?

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☐ Yes ☐ No Plugs Size: location ft.Did any strata contain unusable water? ☐ Yes ☐ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☐ No Size of gravel: ft.

Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Gilliam Driller's well number 80-6

SW ¼ SW ¼ Section 12 T. 1N R. 21E W.M.

Tax Lot # Lot Blk Subdivision

Address at well location:

(11) WATER LEVEL: Completed well.

see pg.1

Depth at which water was first found ft.

Static level ft. below land surface. Date

Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing

Depth drilled ft. Depth of completed well ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Pg. 2 Cont. MATERIAL	From	To	SWL
Cinder red	420	427	
Basalt Brown	427	431	
Basalt blk. hard fract	431	468	
Cinder red	468	472	
Basalt blk. fract	472	540	
Basalt blk. few Sm. fract	540	660	
Basalt blk. soft fract WB	660	667	540
Basalt blk. hard some sm. fract	667	727	
Basalt hard blk. fract trace	727	747	
Basalt grey hard some fract	747	792	
Basalt blk. frac. trace sand	792	809	520
Basalt blk. fract med	809	822	
Basalt blk. hard	822	858	
Basalt broken trace gravel	858	877	
Basalt fract. trace clay	877	904	
Basalt blacksoft granular	904	905	480
Basalt blk. hard sm. fract.	905	955	
Basalt blk. granular med. WB	955	966	420
Basalt blk. V. hard	966	986	
Basalt blk. fract. trace clay	986	999	

Cont. Pg. 3

Work started 19 Completed 19
 Date well drilling machine moved off of well 19

Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date, 19.....
 (Drilling Machine Operator)

Drilling Machine Operator's License No.

Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name (Person, firm or corporation) (Type or print)

Address

[Signed] (Water Well Contractor)

Contractor's License No. Date, 19.....

NOTICE TO WATER WELL CONTRACTOR

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
 SALEM, OREGON 97310
 within 30 days from the date of well completion.

SP*12658-690

