

**RECEIVED**

JAN 1 9 2012

WATER RESOURCES DEPT  
SALEM, OREGON

## Well Logs

T 11343

NOTICE TO WATER WELL CONTRACTOR

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

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from date of well completion.

**RECEIVED**  
AUG 13 1969  
STATE ENGINEER  
SALEM, OREGON

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

Do not write above this line

G4981

Well #1  
H

DESC  
3853

State Well No. 15/13-906

State Permit No.

(1) OWNER:

Name CITY OF REDMOND ORE.  
Address CITY HALL REDMOND ORE

(2) TYPE OF WORK (check):

New Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary  Driven   
Cable  Jetted   
Dug  Bored

(4) PROPOSED USE (check):

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

CASING INSTALLED:

Threaded  Welded   
16.00" Diam. from 0 ft. to 39 ft. Gage 250  
12.8" Diam. from 0 ft. to 300 ft. Gage 250

PERFORATIONS:

Perforated?  Yes  No.  
Type of perforator used FACTORY  
Size of perforations 2 in. by 2 in.  
3200 perforations from 200 ft. to 300 ft.  
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 JAN 1 2014  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

(8) WATER LEVEL: Completed well.

Static level 168 ft. below land surface Date 7-15-69  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

(9) WELL TESTS:

Drawdown is amount water level is lowered below static level  
Was a pump test made?  Yes  No If yes, by whom? GED-BAKER  
Flow: 500 gal./min. with NO ft. drawdown after 5 hrs.  
1300 " " 40 " " 72 "  
2400 " " 73 " " 2 "  
Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water 54 Was a chemical analysis made?  Yes  No

(10) CONSTRUCTION:

Well seal—Material used CEMENT-GROUT  
Depth of seal 27 ft.  
Diameter of well bore to bottom of seal 18 in.  
Were any loose strata cemented off?  Yes  No Depth \_\_\_\_\_  
Was a drive shoe used?  Yes  No  
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: 20 mesh  
Gravel placed from 300 ft. to 159 ft.

(11) LOCATION OF WELL:

County DESC Driller's well number \_\_\_\_\_  
NE 1/4 NW 1/4 Section 9 T. 15S R. 13E W.M.  
Bearing and distance from section or subdivision corner \_\_\_\_\_

(12) WELL LOG:

Diameter of well below casing 29 1/2  
Depth drilled 330 ft. Depth of completed well 300 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 as drilling proceeds. Note drilling rates.

MATERIAL	From	To	SWL
OVER BUCKET	0	5	
HARD LAVA	5	17	
BOULDER CONG.	17	20	
SOFT LAVA	20	38	
HARD RED LAVA	38	50	
BROKEN RED LAVA	50	56	
HARD GREY LAVA	56	78	
RED CONG.	78	89	
MED HARD RED LAVA	89	96	
HARD BLUE LAVA	96	108	
SOFT BROWN LAVA	108	118	
SOFT CONG.	118	139	
SOFT GREY LAVA	139	140	
GREYS	132	140	
CASING BOULDER CONG.	140	157	
SAND STONE	157	175	
SOFT LAVA	175	189	
WATER BEARING SAND	189	199	175
HARD BLUE GRAY	199	220	
RED CLAYSTONE	220	235	
WATER BEARING PUMICE	235	265	
GRITTY SAND	265	280	168
CLAY	280	320	

Work started 4-11 1969 Completed 7-15 1969  
Date well drilling machine moved off of well 7-15 1969

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] Henry Jackson Date 8-1 1969  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 370

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 JACKSON DRILLING  
(Person, firm or corporation) (Type or print)  
Address REDMOND ORE.  
[Signed] Henry Jackson  
(Water Well Contractor)  
Contractor's License No. 442 Date 8-1 1969

NOTICE TO WATER WELL CONTRACTOR

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

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date of well completion.

WATER WELL REPORT

STATE OF OREGON (Please type or print)

(Do not write above this line)

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FEB 18 1975

STATE ENGINEER SALEM, OREGON

Well #2

State Well No. 155/13E-16cb  
State Permit No.

DESC 3879

RECEIVED

(1) OWNER:

Name City of Redmond  
Address Redmond, Oregon

(2) TYPE OF WORK (check):

New Well  Deepening  Reconditioning  Abandonment   
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary  Cable  Dug   
Driven  Jetted  Bored

(4) PROPOSED USE (check):

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(5) CASING INSTALLED:

Threaded  Welded   
16" Diam. from 2 ft. to 280 ft. Gage .250  
14" Diam. from 255 ft. to 433 ft. Gage .250

(6) PERFORATIONS:

Perforated?  Yes  No  
Type of perforator used Factory slot  
Size of perforations 6 in. by 1/8 in.  
2,000 perforations from 255 ft. to 423 ft.

(7) SCREENS:

Well screen installed?  Yes  No  
Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
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? H. & H. Drilling, Inc.  
Flow: 117 1/4 gal./min. with 35 ft. drawdown after 29 hrs.  
Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m.  
Temperature of water 52 Depth artesian flow encountered \_\_\_\_\_ ft.

(9) CONSTRUCTION:

Well seal—Material used Portland Cement  
Well sealed from land surface to 280 ft.  
Diameter of well bore to bottom of seal 18" to 18 1/2"  
Diameter of well bore below seal 16 in.  
Number of sacks of cement used in well seal 3 1/2 yards sacks  
Number of sacks of bentonite used in well seal \_\_\_\_\_ sacks  
Brand name of bentonite \_\_\_\_\_  
Number of pounds of bentonite per 100 gallons of water \_\_\_\_\_ lbs./100 gals.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of water? potable 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 Deschutes Driller's well number \_\_\_\_\_  
NW 1/4 SW 1/4 Section 16 T. 15 S. R. 13 East W.M.  
Bearing and distance from section or subdivision corner \_\_\_\_\_

(11) WATER LEVEL: Completed well.

Depth at which water was first found 278 ft.  
Static level 265 ft. below land surface. Date 2-11-75  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

(12) WELL LOG:

Diameter of well below casing 16 to bottom  
Depth drilled 452 ft. Depth of completed well 452 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
Top Soil	0	4	
Mild Brown Lava	4	15	
Brown Conglomerate	15	85	
Pumice	85	95	
Tan Conglom.	95	157	
Loose Black Cinders	157	164	
Hard Black Lava	164	205	
Red Cinders	205	225	
Black Sand	225	236	
Brown Sandstone	236	278	
Water bearing Brown Sandstone	278	400	265
Hard Clay stone	400	427	
Tan " with some sand gravel	427	433	
Hard Clay stone	433	449	
Black Basalt	449	452	

Work started 2-15 1974 Completed 2-11 1975  
Date well drilling machine moved off of well 2-11 1975

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] James S. Bell Date 2-11, 1975  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 558

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 H. & H. DRILLING, INC.  
(Person, firm or corporation) (Type or print)

Address P.O. Box 51 Redmond, Oregon 97756

[Signed] James S. Bell  
(Water Well Contractor)

Contractor's License No. 488 Date 2-11, 1975

T 11343

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JUL 12 1985

DES 407

Sec. 155/13E-220  
Per Wm 10  
22 CW

155/13E-220

STATE OF OREGON  
WATER WELL REPORT  
(as required by ORS 637.765)

WATER RESOURCES DEPT

SALEM, OREGON

(for official use only)

(1) OWNER:

Name City of Redmond  
Address City Hall  
City Redmond State Oreg.  
97756

(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  Cable  Bored   
Rotary Mud  Dug   
Other: Piezometric  Grounding  Test

(4) PROPOSED USE (check):

Domestic  Industrial  Municipal   
Thermal  Irrigation  Withdrawal  Reinjection   
Piezometric  Grounding  Test

(5) CASING INSTALLED:

Steel  Threaded  Plastic  Welded   
18" Diam. from +3 ft. to -718 1/2 ft. Gauge .375

(6) LINER INSTALLED:

Steel  Threaded  Plastic  Welded   
12" Diam. from 707 1/2 ft. to 765 ft. Gauge .250

(6) PERFORATIONS:

Perforated?  Yes  No  
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 Johnson  
Type P.S. (see pg. 3 for full screen info)  
Diam. 18 Slot Size .050 Set from 533.5 ft. to 553.5 ft.  
Diam. 12 Slot Size .050 Set from 735 ft. to 755 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? Buckner Pump  
d: 1300 gal./min. with 40 ft. drawdown after 72 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 54\* Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes  No   
Well seal—Material used Portland Cement  
Well sealed from land surface to 50 ft.  
Diameter of well bore to bottom of seal 24 in.  
Diameter of well bore below seal 24 in.  
Amount of sealing material 85 sacks  pounds   
How was gravel placed? Pumped

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: Monterey #8  
Gravel placed from 520 ft. to 765 ft.

3/4" gravel from 50' to 520'

(10) LOCATION OF WELL by legal description:

County Deschutes SE 1/4 NW 1/4 of Section 20 of  
Township 15S Range 13E WM.  
(Township is North or South) (Range is East or West)  
Tax Lot Lot Block Subdivision  
MAILING ADDRESS OF WELL (or nearest address) unknown

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 362 ft.  
Static level 362 ft. below land surface. Date 5-24-85  
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 765 ft.  
Depth drilled 765 ft. Depth of completed well 765 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
Top Soil, Sandy	0	2	
Broken Lava Conglomerate	2	8	
Lava Conglomerate	8	27	
Broken Lava, Cindery	27	30	
Red-Black Lava, Solid	30	55	
Pumice Conglomerate	55	60	
White Pumice	60	92	
Cindery Black Rock	92	97	
Red-Black Cindery Rock	97	105	
Cinders & Clinkers	105	113	
Red Cinders	113	122	
Cinders & Lava Rock	122	126	
Black Basalt	126	137	
Red-Black Basalt, Broken	137	143	
Hard, Black Basalt	143	247	
Red Cinders, Soft	247	251	
Black Basalt	251	254	
Red Cinders	254	345	
Brown Sandstone, Mild	345	365	
Brown Sandstone, Coarser	365	374	
Brown Sandstone w/Pea Gravel	374	385	
Date work started 11-27-84 / completed 5-25-85			
Date well drilling machine moved off of well 5-25 19 85			

(unbonded) Water Well Constructor Certification (if applicable):

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

[Signed] *Robert Buckner* Date 6-6, 19 85

(bonded) Water Well Constructor Certification:

Bond 10596951 Issued by: AMWEST  
(number) (Surety Company Name)  
On behalf of Buckner Pump Service  
(type or print name of Water Well Constructor)

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

(Signed) *Robert Buckner*  
(Water Well Constructor)

(Dated) June 6, 1985

NOTICE TO WATER WELL CONSTRUCTOR  
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\*46866-890

T 11343

RECEIVED  
JAN 1 1985  
WATER RESOURCES DEPT  
SALEM, OREGON

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

**RECEIVED**

JUL 12 1985

PLEASE TYPE or PRINT IN INK

Pg. 2 of 3 *158/13E-220K*

**WATER RESOURCES DEPT**

(for official use only)

**(1) OWNER:**

**SALEM, OREGON**

Name City of Redmond  
 Address City Hall  
 City Redmond State Oreg. 97756

**(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   
 Rotary Mud  Dug   
 Cable  Bored

**(4) PROPOSED USE (check):**

Domestic  Industrial  Municipal   
 Thermal  Withdrawal  ReInjection   
 Other:  Piezometric  Grounding  Test

**(5) CASING INSTALLED:**

Steel  Plastic   
 Threaded  Welded   
 1.8" Diam. from +3 ft. to -71.8 ft. Gauge 3.75  
 " Diam. from ft. to ft. Gauge

**LINER INSTALLED:**

Steel  Plastic   
 Threaded  Welded   
 1.2" Diam. from 707 ft. to 765 ft. Gauge 2.50

**(6) PERFORATIONS:**

Perforated?  Yes  No  
 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 Johnson  
 Type P.S. (see pg. 3 for full screen info)  
 Diam. 1.8 Slot Size 0.50 Set from 533.5 ft. to 553.9 ft.  
 Diam. 1.2 Slot Size .5 Set from 735 ft. to 755 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? Buckner Pump  
 id: 1300 gal./min. with 40 ft. drawdown after 72 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 54\* Depth artesian flow encountered ft.

**(9) CONSTRUCTION:**

Special standards: Yes  No   
 Well seal—Material used Portland Cement  
 Well sealed from land surface to 50 ft.  
 Diameter of well bore to bottom of seal 24 in.  
 Diameter of well bore below seal 24 in.  
 Amount of sealing material 85 sacks  pounds   
 How was cement grout placed? Pumped

Was 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: Monteray #8  
 Gravel placed from 520 ft. to 765 ft.

1/2 gravel from 50' to 920'

NOTICE TO WATER WELL CONSTRUCTOR  
 The original and first copy of this report are to be filed with the

**(10) LOCATION OF WELL by legal description:**

County Deschutes SE 1/4 NW 1/4 of Section 20 of  
 Township 15S Range 13E WM.  
 (Township is North or South) (Range is East or West)  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 MAILING ADDRESS OF WELL (or nearest address) unknown

**(11) WATER LEVEL of COMPLETED WELL:**

Depth at which water was first found 362 ft.  
 Static level 362 ft. below land surface. Date 5-24-85  
 Artesian pressure lbs. per square inch. Date

**(12) WELL LOG:**

Diameter of well below casing \_\_\_\_\_  
 Depth drilled 765 ft. Depth of completed well 765 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
<u>Dk. Brwn. Sandstone &amp; Blk. Sand</u>	<u>385</u>	<u>396</u>	
<u>Dk. Brwn. Sandstone-blk. Sand</u>			
<u>more firm</u>	<u>396</u>	<u>450</u>	
<u>Brwn. Sandstone-finer Sand</u>	<u>450</u>	<u>455</u>	
<u>some clay bonding</u>			
<u>Dk. Brown Sandstone, some mult-</u>	<u>455</u>	<u>528</u>	
<u>colored pea gravels, possible</u>			
<u>water-465-485'</u>			
<u>Grey-Brwn. Tufted Ash Layer</u>	<u>528</u>	<u>540</u>	
<u>Firm</u>			
<u>Sandstone Conglomerate, Slow</u>			
<u>Drilling Gravels-Dk. Brwn</u>	<u>540</u>	<u>565</u>	
<u>Med. Brwn. Sandstone</u>	<u>565</u>	<u>590</u>	
<u>Fine grained w/some clay bondg</u>			
<u>Dk. Brwn. Sandstone, Coarser</u>			
<u>Sands</u>	<u>590</u>	<u>620</u>	
<u>Coarse, DK. Brwn. Sandstone</u>	<u>620</u>	<u>645</u>	
<u>w/1/2" minus pea gravels</u>			
<u>Coarse DK. Brwn. Sandstone W/</u>			
<u>more gravel-harder</u>	<u>645</u>	<u>650</u>	
<u>Finer Grained Sandstone</u>	<u>650</u>	<u>697</u>	

Date work started 11-27-84 /completed 5-25-85  
 Date well drilling machine moved off of well 5-25 19 85

**(unbonded) Water Well Constructor Certification (if applicable):**

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

[Signed] Neil Miller Date 6-6, 19 85

**(bonded) Water Well Constructor Certification:**

Bond 10596951 Issued by: AMWEST  
 (number) (Surety Company Name)  
 On behalf of Buckner Pump Service  
 (type or print name of Water Well Constructor)

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

(Signed) \_\_\_\_\_ (Water Well Constructor)  
 (Dated) June 6, 1985

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

SP\*46866-890

T 11343

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155/13E-225d

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.785)

JUL 12 1985

PLEASE TYPE or PRINT IN INK WATER RESOURCES DEPT

(for official use only)

(1) OWNER:

Name City of Redmond Address City Hall City Redmond State Oreg. 97756

(2) TYPE OF WORK (check):

New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ] If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air [ ] Driven [ ] Domestic [ ] Industrial [ ] Municipal [X] Rotary Mud [ ] Dug [ ] Irrigation [ ] Thermal Withdrawal [ ] ReInjection [ ] Cable [X] Bored [ ] Other: Piezometric [ ] Grounding [ ] Test [ ]

(4) PROPOSED USE (check):

Domestic [ ] Industrial [ ] Municipal [X] Thermal Withdrawal [ ] ReInjection [ ] Piezometric [ ] Grounding [ ] Test [ ]

(5) CASING INSTALLED:

Steel Threaded [X] Plastic Welded [ ] 18" Diam. from +3 ft. to -718 1/2 ft. Gauge 37.5

LINER INSTALLED:

Steel Threaded [X] Plastic Welded [ ] 12" Diam. from 707 1/2 ft. to 765 ft. Gauge 250

(6) PERFORATIONS:

Perforated? [ ] Yes [X] No in. Size of perforations in. by perforations from ft. to ft.

(7) SCREENS:

Well screen installed? [X] Yes [ ] No Manufacturer's Name Johnston Type P.S. Model No. Diam. 18 Slot Size .050 Set from 533.5 ft. to 553.5 ft. Diam. 12 Slot Size .050 Set from 735 ft. to 755 ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level Was a pump test made? [X] Yes [ ] No If yes, by whom? 1300 gal./min. with 40 ft. drawdown after 72 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 54\* Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes [ ] No [X] Well seal—Material used Portland cement Well sealed from land surface to 50 ft. Diameter of well bore to bottom of seal 24 in. Diameter of well bore below seal 24 in. Amount of sealing material 85 sacks [X] pounds [ ] How was cement grout placed? Pumped

Was pump installed? no Type HP Depth ft. Was a drive shoe used? [ ] Yes [X] No Plugs Size: location ft. Did any strata contain unusable water? [ ] Yes [X] No Type of Water? depth of strata

Method of sealing strata off Was well gravel packed? [X] Yes [ ] No Size of gravel: Monterey #8 Gravel placed from 520 ft. to 765 ft.

(10) LOCATION OF WELL by legal description:

County Deschutes 1/4 of Section 20 of Township 15S Range 13E WM. (Township is North or South) (Range is East or West) Tax Lot, Lot, Block, Subdivision unknown MAILING ADDRESS OF WELL (or nearest address) unknown

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 362 ft. Static level 362 ft. below land surface. Date 5-24-85 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing ----- Depth drilled 765 ft. Depth of completed well 765 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.

Table with columns: MATERIAL, From, To, SWL. Rows include Sand & Some Gravels-unstable (water between 695-715), Sandstone-Brwn W/some tuff ash and whites, Brown Sandstone W/ more Cinders, Sands and Gravels, Dk. Grey Basalt.

and 593.5' to 633.5' and 688.5 to 708.5'

RECEIVED

JAN 1 8 2017

WATER RESOURCES DEPT SALEM, OREGON

Date work started 11-27-84 /completed 5-25-85 Date well drilling machine moved off of well 5-25-85 19

(unbonded) Water Well Constructor Certification (if applicable):

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 6-6, 19 85

(bonded) Water Well Constructor Certification:

Bond 10596951 Issued by: AMWEST (number) (Surety Company Name) On behalf of Buckner Pump Service (type or print name of Water Well Constructor)

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

(Signed) [Signature] (Water Well Constructor) (Dated) June 6, 1985

3/4" gravel from 50' to 520' NOTICE TO WATER WELL CONSTRUCTOR 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\*46868-690

T 11343



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

MAY 1998

WELL ID # **L23805**

Well #5

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

desc  
51647

Page 3

(START CARD) # **101989**

**(1) OWNER:** Well Number: **#5**  
 Name **City of Redmond**  
 Address **P.O. Box 726**  
 City **Redmond** State **OR** Zip **97756**

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

**(3) DRILL METHOD:**  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

**(4) PROPOSED USE:**  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other

**(5) BORE HOLE CONSTRUCTION:**  
 Special Construction approval  Yes  No Depth of Completed Well **802** ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount	
Diameter	From	To	Material	From	To	sacks or pounds	
26"	0	802	Cement	0	100	297 Sacks	
26"	0	802	Cement	370	400	66 sacks	

How was seal placed: Method  A  B  C  D  E  
 Other  
 Backfill placed from **100** ft. to **375** ft. Material **Bentonite**  
 Gravel placed from **400** ft. to **802** ft. Size of gravel **#6 SilicaRes**

**(6) CASING/LINER:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 16"	+2	507	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16"	547	567	.375	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16"	797	802	.375	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Liner: \_\_\_\_\_  
 Final location of shoe(s) \_\_\_\_\_

**(7) PERFORATIONS/SCREENS:**

Perforations Method \_\_\_\_\_  
 Screens Type **Stainless** Material **316L**

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
507	547	.080		16"	Pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>
567	797	.080		16"	Pipe	<input type="checkbox"/>	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
2300	2.5'	360	24 hr.

Temperature of Water **57** Depth Artesian Flow found \_\_\_\_\_  
 Was a water analysis done?  Yes By whom **Coffee Labs**  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other  
 Depth of strata: **208**

**(9) LOCATION OF WELL by legal description:**  
 County **Deschutes** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **15S** N or S. Range **13E** E or W. of WM. \_\_\_\_\_  
 Section **20AA** NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  \_\_\_\_\_  
 Tax Lot **2900** Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) **19th & Quartz Ave.**

**(10) STATIC WATER LEVEL:**  
**259** ft. below land surface. Date **3/23/98**  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

**(11) WATER BEARING ZONES:**  
 Depth at which water was first found **208**

From	To	Estimated Flow Rate	SWL
208	209	30+	208
275	405	1000	208
536	802	9000	259

**(12) WELL LOG:** Ground elevation \_\_\_\_\_

Material	From	To	SWL
Gray Basalt	0	39	
Red & Black Cinders	39	40	
Brown Ash & Cinders	40	45	
Brown Basalt	45	48	
Gray Basalt	48	54	
Brown Ash	54	55	
Gray Basalt	55	81.5	
Gray Tuff	81.5	86	
Hard Gray Basalt	86	101.5	
Gray Volcanic Conglomerate	101.5	124	
Brown Ash Conglomerate	124	125	
Fracture Lost Cuttings (Grouted)	125	131	
Brown Conglomerate	131	136	
Brown & Gray Lava with Ash	136	157	
Gray Basalt & Ash	157	159	
Red Ash (Soft)	159	161	
Brown & Gray Basalt & Ash	161	167	
Hard Gray & Brown Basalt	167	172	
Soft Brown Ash	172	174	
Gray Basalt Medium Hard	174	177	
Brown & Gray Basalt with Brown Ash	177	184	
Brown & Gray Basalt with Gray Ash	184	190	
Redish Brown Ash with Broken Basalt	190	204	
Brown Lava with Ash	204	208	

Continued on next page  
 Date started **8/29/97** Completed **3/23/98**

**(unbonded) Water Well Constructor Certification:**  
 I certify that the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to my best knowledge and belief.  
**JUL 1 1998**  
 Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
 \_\_\_\_\_  
 SALEM, OREGON

**(bonded) Water Well Constructor Certification:**  
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.  
 Signed **Robert Buckner** WWC Number **1385**  
 Date **4-27-98**  
 Western Water Development Corporation

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER

RECEIVED  
 JAN 18 2012  
 WATER RESOURCES DEPT

T 11343

STATE OF OREGON  
**WATER SUPPLY WELL REPORT**  
 (as required by ORS 537.765)  
 Instructions for completing this report are on the last page of this form

MAY 1 1993

*disc*  
*51647*

WELL ID # \_\_\_\_\_  
 (START CARD) # **101989**  
 Page 2 of 3

**(1) OWNER:** Well Number: \_\_\_\_\_  
 Name **City of Redmond**  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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

**(3) DRILL METHOD:**  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

**(4) PROPOSED USE:**  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other

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

HOLE				SEAL			
Diameter	From	To	Material	From	To	Amount	
						sacks or pounds	

How was seal placed: Method  A  B  C  D  E  
 Other  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

**(6) CASING/LINER:**

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

Final location of shoe(s) \_\_\_\_\_

**(7) PERFORATIONS/SCREENS:**

Perforations		Method	Screens		Type	Material
From	To	Slot size	Number	Diameter	Tele/pipe size	Casing
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

**(8) WELL TESTS: Minimum testing time is 1 hour**  
 Pump  Bailer  Air  Flowing Artesian  
 Yield gal/min \_\_\_\_\_ Drawdown \_\_\_\_\_ Drill stem at \_\_\_\_\_ Time \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Temperature of Water \_\_\_\_\_ Depth Artesian Flow found \_\_\_\_\_  
 Was a water analysis done?  Yes  No By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  Yes  No  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

**(9) LOCATION OF WELL by legal description:**  
 County \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **15S** N or S. Range **13E** E or W. of WM.  
 Section **20AA** % \_\_\_\_\_ % \_\_\_\_\_  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) \_\_\_\_\_

**(10) STATIC WATER LEVEL:**  
 \_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

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

From	To	Estimated Flow Rate	SWL

**(12) WELL LOG:** Ground elevation \_\_\_\_\_

Material	From	To	SWL
Red Cinders WB (sealed off)	208	209	208
Brown Lava with Ash	209	226	208
Hard Gray Lava with Ash	226	235	208
Brown Conglomerate	235	245	208
Gray Conglomerate	245	275	208
Brown Conglomerate WB	275	305	208
Brown Lava with Gray Ash WB	305	325	208
Brown & Gray Conglomerate WB	325	342	208
Brown Lava & Ash WB	342	366	208
Brown Conglomerate with Ash Wb	366	389	208
Brown & Gray Conglomerate	389	405	208
Brown Lava with Ash	405	425	208
Gray Conglomerate with Brown Basalt	425	439	208
Hard Gray Lava with Brown Ash	439	459	208
Medium Hard Gray Lava some Ash	459	480	208
Hard Gray Lava with Ash	480	508	208
Hard Gray Basalt	508	536	208
Broken Lava, Sand, Gravel WB	536	565	259
Silty Sand & Lava Chunks WB	565	608	259
Brown, Gray Broken Lava Hard WB	608	681	259
Brown Sand & Gravel WB	681	691	259
Brown Vesicular Lava WB	691	706	259
Medium Gray Basalt WB	706	710	259
Brown Vesicular Basalt	710	714	259

Continued on next page

Date started **8-21-97** Completed **3-23-98**

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

Signed \_\_\_\_\_ Date \_\_\_\_\_ WWC Number \_\_\_\_\_

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

Signed \_\_\_\_\_ Date \_\_\_\_\_ WWC Number **1385**

Western Water Development Corporation

T 11343



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

MAY 8 1993

check  
 file 47

WELL ID # \_\_\_\_\_  
 (START CARD) # **101989**

Page 3 of 3

**(1) OWNER:** Well Number: \_\_\_\_\_  
 Name **City of Redmond**  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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

**(3) DRILL METHOD:**  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other \_\_\_\_\_

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

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

HOLE Diameter	From	To	Material	SEAL		Amount sacks or pounds
				From	To	

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
 Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

**(6) CASING/LINER:**

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

Final location of shoe(s) \_\_\_\_\_

**(7) PERFORATIONS/SCREENS:**

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

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

Yield gal/min	Drawdown	Drill stem at	Time

Temperature of Water \_\_\_\_\_ Depth Artesian Flow found \_\_\_\_\_  
 Was a water analysis done?  Yes  No By whom \_\_\_\_\_  
 Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

**(9) LOCATION OF WELL by legal description:**  
 County \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **15S** N or S. Range **13E** E or W. of WM.  
 Section **20AA** 1/4 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) \_\_\_\_\_

**(10) STATIC WATER LEVEL:**  
 \_\_\_\_\_ ft. below land surface. Date \_\_\_\_\_  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

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

From	To	Estimated Flow Rate	SWL

**(12) WELL LOG:** Ground elevation \_\_\_\_\_

Material	From	To	SWL
Gray Broken Lava Hard WB	714	738	259
Brown Vesicular Lava Pinholes WB	738	765	259
Brown & Gray Lava WB	765	783	259
Soft Brown Conglomerate WB	783	802	259

**RECEIVED**  
 JAN 1 2 2012  
 WATER RESOURCES DEPT. SALEM OREGON  
**RECEIVED**  
 JUL - 1 1998  
 WATER RESOURCES DEPT. SALEM OREGON

Date started **8-21-97** Completed **3-23-98**

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

**(bonded) Water Well Constructor Certification:**  
 I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.  
 Signed \_\_\_\_\_ WWC Number **1385**  
 Date \_\_\_\_\_  
**Western Water Development Corporation**

T 11343

W-11 #6

STATE OF OREGON  
WATER SUPPLY WELL REPORT

DESC 55853

WELL ID # 64895

(as required by ORS 537.765)  
Instructions for completing this report are on the last page of this form

DESC  
55853

(START CARD) # 150744

(1) OWNER: Well Number: #6

Name City of Redmond  
Address 875 S.E. Sisters, Ave.  
City Redmond State OR Zip 97756

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

(3) DRILL METHOD:  
 Rotary Air  Rotary Mud  Cable  Auger  
 Other

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

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well 855 ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
26in	0	867	Cement Grout	374	399	88 sacks
			Cement	0	98	12 Cu. Yds.

How was seal placed: Method  A  B  C  D  E  
 Other  
Backfill placed from 99 ft. to 399 ft. Material Bentonite 31cyd  
Gravel placed from 399 ft. to 855 ft. Size of gravel 6x12 RMC

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 16in	+2	550	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16in	850	855	.375	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

Perforations Method Factory  
 Screens Type Slotted Material SS316L

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
550	850	.070		16in	pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Pump  Bailor  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
2700	6	400	24 hr.

Temperature of Water 54 Depth Artesian Flow found \_\_\_\_\_  
Was a water analysis done?  Yes By whom \_\_\_\_\_  
Did any strata contain water not suitable for intended use?  Too little  
 Salty  Muddy  Odor  Colored  Other \_\_\_\_\_  
Depth of strata: \_\_\_\_\_

(9) LOCATION OF WELL by legal description:  
County Deschutes Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
Township 15S N or S. Range 13E E or W. of WM.  
Section 21(D) NW 1/4 SE 1/4  
Tax lot 400 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) 2551 S.W. 6th St., Redmond, OR

(10) STATIC WATER LEVEL:  
336 ft. below land surface. Date 12/22/03  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

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

From	To	Estimated Flow Rate	SWL
342	697	1500	336
697	811	1000	336
811	867	4000+	336

(12) WELL LOG:  
Ground elevation \_\_\_\_\_

Material	From	To	SWL
See attached lithology prepared by Mr. Dale Bugenig. Hole sloughed back prior to casing installation in bottom. 857-867.			
<b>RECEIVED</b>			
JAN 12 2004			
<b>RECEIVED</b>			
WATER RESOURCES DEPT SALEM, OREGON			
JAN 28 2004			
WESTERN WATER DEVELOPMENT P.O. Box 1670 Redmond, OR 97756			

Date started 4/2/03 Completed 12/31/03

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

Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
Date \_\_\_\_\_

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

Signed Robert Buckner WWC Number 1385  
Date 1/27/04

T 11343

DESC  
55853

DRILLERS'  
LOG OF BOREHOLE

BOREHOLE REDMOND WELL #6

PAGE 1 OF 6

LOC. OR COORDS. <u>35th Sec.</u>	DRILLER <u>WESTERN WATER</u>	START DATE <u>4/02/03</u>	FINISH DATE <u>10/31/03</u>
<u>21, T.15S., R.13E. (Williams Lake)</u>	<u>DEVELOPMENT</u>	TIME <u>09:30</u>	<u>10:00</u>
GROUND ELEV. _____	RIG <u>BAICHS-BILE 36L</u>	GEOPHYS. LOG <u>YES</u> <u>NO</u>	
TOTAL DEPTH _____	BIT(S) <u>2 1/2" Spur</u>	HOW LEFT <u>See Cont. log</u>	
BOREHOLE DIAM. <u>2 1/2"</u>	FLUID <u>Not Applicable</u>		

LOCATION 121° 10' 28" W 44° 15' 13" N  
LOGGED BY GALE ABERNATHY & BOB BUCKNER

PROJECT CITY OF REDMOND, OR  
WELL #6

DEPTH	PEN. RATE	CIRC. RET. FEET	AIR LIFT Q (GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
0-1		6 1/2	4 1/2			Green sand
1-2						Broken brown & grey lava
2-14				Lava Flow		Grey vesicular lava
14-24						Hard grey lava
24-28.5				Rubble Zone		Brown lava w/ red cinders
28-32						Hard grey lava
32-33						Dark brown & grey lava rock, broken or casing
33-35						Dark brown & grey lava rock, broken or casing
35-37						Brown & grey lava, broken, casing
37-38						Hard grey lava
38-40						Hard grey lava
40-43						Hard grey rock
43-45						Hard grey rock
45-47						Hard grey rock
47-50						Grey lava rock
50-55						Hard grey lava
55-59				Lava Flow		Hard grey lava
59-61						Med grey lava
61-66						Medium grey lava
66-71						Medium grey lava
71-77						Medium grey lava
77-80						Med. grey lava
80-86						Med. hard grey lava
86-91				Inter Flow Zone		Med. hard grey lava
91-92						Red & Brown conglomerate
92-95						Harder grey & brown lava
95-101						Hard dark grey lava
101-106						Black, grey & brown lava
106-108				Cinders Sandstone?		Red Cinders conglomerate
108-113						Red Cinders conglomerate
113-115						Brown & Grey lava
115-119						Brown & Grey lava
119-122				Lava Flow		Hard grey lava
122-127						Grey lava
127-131						Med. grey lava
131-134						Hard grey lava
134-136						Hard grey lava
136-142						Med grey lava
142-146						Med grey lava
146-147						Med. grey lava
147-150				Sandstone		Red & brown sandstone

Added  
Cement to  
Stabilize  
Borehole

RECEIVED

JAN 28 2004

T 11348

DESC  
55853

DRILLERS'  
LOG OF BOREHOLE

BOREHOLE REDMOND WELL 4

PAGE 2 OF 6

LOC. OR COORDS. SE 1/4 Sec. 21  
T. 15S, R. 13E. (Willamette Meadows)  
GROUND ELEV. \_\_\_\_\_  
TOTAL DEPTH 872 FT  
BOREHOLE DIAM. 20"

DRILLER WESTERN WATER  
DEVELOPMENT  
RIG ENCINUS-ERIS 36L  
BIT(S) 2 1/2" STAR  
FLUID Not Applicable

START FINISH  
DATE 4/02/03 10/30/03  
TIME 08:30 16:00  
GEOPHYS. LOG YES NO  
HOW LEFT See Construction Log

LOCATION 121° 10.428' W 44° 15.173' N  
LOGGED BY SALE ABERNATHY & BOB ENGLISH  
PROJECT CITY OF REDMOND, OR  
WELL # 4

DEPTH	PEN. RATE	CIRC. RET. LOSS	AIR LIFT Q (GPM)	MATERIAL	SYMBOL	DESCRIPTION AND COMMENTS
160	9 3/20	7 5/22			150-151 Red & brown sandstone	RECEIVED JAN 28 2004
					155-162 Medium brown sandstone	
170	6 5/24			Sandstone	160-172 Broken green sandstone 172-176 Brown & grey - Broken	Water loss 174'
180	8 5/28				170-184 Brown & black sandstone	
190	5 5/29				187-191 Brown & black sandstone	
	3 5/30				189-192 Grey & black sandstone	
	4 4/2				192-196 Grey & brown lava	
200	2 5/3				196-198 1/2 Broken brown & grey lava	RECEIVED
	3 4/5			Basalt Lava Flow	198-202 Hard grey basalt, broken	JAN 1 2 2012 WATER RESOURCES DEPT SALEM, OREGON
210	5 4/6				202-206 Hard grey basalt, broken	
	2 4/7				211-215 Grey basalt	
	3 4/9				219-226 Grey basalt	
220	4 4/10				210-220 Hard grey basalt	
	4 4/11				220-224 Hard grey basalt	
	4 4/12				224-228 Hard grey basalt. Loss base @ 224.5'	
230	2 4/13			fractured zone	Broken 224'-226. Harder 226-228'	
	5 4/10				228-230 Broken grey lava Run 2nd Pressure Test	
	3 4/17				230-235 Broken black & brown lava	
240	7 4/18			Basalt Lava Flow	235-238 Hard dark grey-black lava - Caving?	
	5 4/19				238-242 Black & Brown lava - Sloughing + 226'	
250	6 4/20				242-247 Black & brown lava, softer & broken	
	4 4/23				247-253 Black & brown lava	
260	5 4/24				253-257 Hard grey basalt	
	8 4/26				257-260 Hard grey basalt	
	5 4/26				260-262 Broken grey lava	
270	8 4/26			Volcanic Conglomerate	262-264 Broken grey	
	5 4/26				264-270 Brown volcanic conglomerate	
280	14 4/27				270-278 Brown volcanic conglomerate	
	3 4/28				278-292 Brown volcanic conglomerate	
290	7 4/28				292-295 Brown volcanic conglomerate Rig down for repairs thru 9/10	
300	7 4/6				293-300 Dark grey volcanic conglomerate	

# DRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond Well 6

PAGE 3 OF 6

LOC. OR COORDS. SE 1/4 Sec 21  
T.15N, R.13E, (Williamette Mts)  
 GROUND ELEV. \_\_\_\_\_  
 TOTAL DEPTH 872 FT  
 BOREHOLE DIAM. 2 1/2"

DRILLER WESTERN WATER DEVELOPMENT  
 RIG BUCHHEIM ERIE 366  
 BIT(S) 2 1/2" STAR  
 FLUID M/A

START FINISH  
 DATE 4/02/05 10/30/03  
 TIME 08:30 16:00  
 GEOPHYS. LOG YES NO  
 HOW LEFT See Contr. Log

LOCATION 121° 10' 42" W 44° 51' 17" N  
 LOGGED BY E. SEERAWAY & EBR BUCKNER

PROJECT CITY OF REDMOND, OR  
 WELL # 6

DEPTH	PEN. RATE	CIRC. RET. LOSS	AIR LIFT Q (GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
		7 7/8		Volcanic Conglomerate		307-307
310		5 7/7				307-312 Dark grey volcanic conglomerate
		6 7/10				312-316 Dark grey volcanic conglomerate
320		7 7/11		Sandstone		316-318 Brown hard sandstone
		7 7/11				318-322 Brown sandstone
		7 7/14				322-327 Brown sandstone
330		7 7/14				327-332 Brown sandstone
		6 7/15	SWI 335-340'			332-336 Dark grey sandstone
340		9 7/16		Sandstone w/ gravel		336-338 Brown sandstone
		11 7/17				338-347 Brown sandstone w/ gravel
350		11 7/17				347-358 Brown sandstone w/ gravel + silt Water @ 355' SWL = 331-340'
360		12 7/18				358-370 Brown sandstone w/ gravel
370		10 7/21		Sandstone		370-380 Grey sandstone
380		11 7/25				Note: problems with casing, lost 9' 7/26, filled 380 to 371'
		10 7/21				380-381 gravelly sandstone
390		10 7/25				381-391 Light grey sandstone
		8 7/28				391-397 grey sandstone
400		13 7/29				397-405 Brown & grey sandstone
410		10 7/30				405-418 Brown sandstone
420		10 7/30				418-428 Brown & grey sandstone
430		10 7/31				428-438 Brown & grey sandstone
440		8 8/1				438-446 Brown & grey sandstone
450		6 8/4				446-451 Red-brown sandstone - Planimeter alignment test performed 2/4/01

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# DRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond Well 6

PAGE 4 OF 6

LOC. OR COORDS. <u>SE 1/4 Sec 21, T.15S, R.13E. (Williamette Co.)</u>	DRILLER <u>WESTERN WATER DEVELOPMENT</u>	START DATE <u>4/01/03</u>	FINISH DATE <u>10/30/03</u>
GROUND ELEV. _____	RIG <u>Baymax ERB 36L</u>	TIME <u>08:30</u>	<u>16:00</u>
TOTAL DEPTH <u>872 FT</u>	BIT(S) <u>2 1/2" SPAL</u>	GEOPHYS. LOG <u>YES</u> <u>NO</u>	
BOREHOLE DIAM. <u>2 1/2"</u>	FLUID <u>N/A</u>	HOW LEFT <u>See Corro Log</u>	

LOCATION LOGGED BY GALE ABERNETHY & BOB BRUCKNER

PROJECT CITY OF REDMOND  
WELL # 6

DEPTH	PEN. RATE	DIR. REC. LOSS	AIR LIFT (GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
460	11	8/5		sandstone	467-475	Red brown sandstone
470	14	8/6			475-482	Brown-tan sandstone
480	11	8/7			482-490	Brown-Tan sandstone
490	8	8/8			490-497	Grey sandstone
500	13	8/11			497-497	Grey sandstone
510	18	8/12			497-497	Grey sandstone - possibly broken. Lead 1 inch
520	10	8/13			495-500	Brown & grey sandstone
530	12	8/14		sandstone w/ gravel	500-508	Grey sandstone, siltier
540	12	8/15			508-520	Grey sandstone w/ black sand streaks
550	13	8/18			520-530	Brown & grey sandstone
560	10	8/17			530-542	Brown sandstone w/ pea gravel
570	13	8/20			542-557	Dark grey sandstone w/ gravel
580	15	8/20			557-567	Dark grey sandstone w/ gravel
590	15	8/20			567-577	Dark grey sandstone w/ gravel possibly sloughing
600					577-590	Dark grey sandstone w/ gravel
					590-597	Dark grey sandstone w/ gravel
					590-597	Dark grey sandstone w/ gravel
					590-597	Tan-brown sandstone w/ gravel

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# PRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond well 6

PAGE 5 OF 6

LOC. OR COORDS. S674 Sec  
21 T.15S R.13E (Williamette)  
 GROUND ELEV. \_\_\_\_\_  
 TOTAL DEPTH 872 FT  
 BOREHOLE DIAM. 26"

DRILLER WESTERN  
WATER DEVELOPMENT  
 RIG Bucyrus-Erie 366  
 BIT(S) 26" STAR  
 FLUID N/A

START FINISH  
 DATE 4/03/03 10/30/03  
 TIME 08:30 16:00  
 GEOPHYS. LOG YES NO  
 HOW LEFT See Constr. Log

LOCATION 121° 10' 42.3" W 44° 15' 07.5" N  
 LOGGED BY SALE ABZ-NADW & BOB GARDNER

PROJECT CITY OF REDMOND  
 WELL W6

DEPTH	PEN. RATE	DRILL		AIR LIFT Q (GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
		FEET	HOURS				
610	15	8/14			sandstone w/ gravel		598-605 Tan-brown sandstone w/ gravels
620	12	8/22					605-618 Brown sandstone w/ gravel
630	14	8/25					618-632 Brown sandstone w/ gravel
640	10	8/24					632-642 Dark brown sandstone w/ cinders & gravels
660	9	8/23					650-670 Dark brown sandstone w/ gravels
680	16	8/28					670-686 Dark brown sandstone w/ gravels
690	14 1/2	8/29					686-697 Dark brown sandstone w/ gravels & cinders
700	5 1/2	9/2					697-699 Hard gray lava
710	3 1/2	9/13					699-702 Med gray basalt
720	4	9/6			Basalt lava flow		702-706 Hard gray basalt
730	3 1/2	9/10					706-708.5 Hard gray basalt
740	4	9/15					708.5-712.5
750	8	9/16					712-715 Hard gray basalt
760	4	9/12					715-716.5 Hard gray basalt
770	12	9/17					716-724.5 Hard lt gray basalt
780							724.5-729 Hard gray basalt
790							729-732 Hard gray basalt
800							732-735.5 Hard gray basalt
810							735.5-741 Brown sandstone w/ small gravel
820							741-746 Brown sandstone w/ gravel
830							746-753 gray sandstone w/ gravel

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# DRILLERS' LOG OF BOREHOLE

BOREHOLE Redmond Well 6

PAGE 6 OF 6

LOC. OR COORDS. <u>SE 1/4 Sec 21</u> <u>T. 15S., R. 13E (Williamette)</u>	DRILLER <u>WESTER</u>	START DATE <u>4/22/03</u>	FINISH DATE <u>10/30/03</u>
GROUND ELEV. _____	<u>WATER DEVELOPMENT</u>	TIME <u>08:30</u>	<u>18:00</u>
TOTAL DEPTH <u>872 ft</u>	RIG <u>BUYRUS-BOLE 36L</u>	GEOPHYS. LOG <u>X</u> YES <u>NO</u>	
BOREHOLE DIAM. <u>26"</u>	BIT(S) <u>26" ST22</u>	HOW LEFT <u>SEE CONSTR.</u>	
	FLUID <u>NONE</u>	Log	

LOCATION 121°10.428'W 44°15.173'N  
LOGGED BY GALC ABERNATHY & BOB BUCKNER

PROJECT CITY OF REDMOND  
WELL #6

DEPTH	PEN. RATE	AIR LIFT Q(GPM)	MATERIAL	SYM-BOL	DESCRIPTION AND COMMENTS
	12 9/17		Sandstone	800-802	746-753 grey sandstone w/ gravel
	9 9/18		Basalt	753-757	Hard grey vesicular lava
760	3 9/19			757-760	Hard grey basalt
	3 9/22			760-763	Hard grey basalt
	4 11/23			763-765	Hard grey basalt
770	7 7/24		Flow boundary?	765-767	Dark grey lava (outcrop)
	6 7/25			767-774	Dark grey lava
780	4 9/26			774-780	Grey vesicular lava
	4 9/26			780-784	Grey Vesicular Basalt, Harder
790	4 9/30			784-788	
	2 10/19		Flow boundary?	788-792	Hard grey basalt
	3 10/19			792-794	Hard grey basalt
	3 10/19			794-797	Hard grey basalt
800	7 10/26			797-803	Grey vesicular lava Broken
	2			803-806	Hard grey basalt
810	5 10/8			806-807	Hard grey basalt
	5 10/9			807-811	Dark grey vesicular lava Note: Driller remarked the water in the bailer was clean.
	1 10/10		Flow boundary	811-814	Dark grey Vesicular Lava
820	5 10/8			814-817	Grey vesicular lava
	3 10/14		NO CUTTINGS	817-822	Grey vesicular lava? NO SAMPLE AFTER 28 FT LIVE WATER - OBS
	5 10/14			822-825	Grey vesicular lava? NO SAMPLE COLLECTED IN BAILER
820	5 10/14			825-830	Fractured lava? NO SAMPLE
	5 10/16			830-835	Fractured lava? NO SAMPLE
840	7 10/20			835-842	Fractured lava? NO SAMPLE
	3 10/24			842-845	Fractured lava? Harder
	2 10/22			845-848	Cuttings returned 843' Dark grey basalt
850	2 10/23			848-850	Hard grey basalt. Gouge (from above)
	4 10/24		NO CUTTINGS	850-853	Hard grey lava
	12 10/27			853-854	Broken grey lava? No cuttings
860	5 10/23		Cinders, sand & gravel	854-860	Broken lava? No cuttings
	1 10/23			860-866	Dark red-brown cinders with sand & small gravel and hole
870	1 10/23			866-868	Brown red cinders & gravels. Note: 4' of fine sand
	1 10/23			868-871	one space of fine sand
				871-872	Brown & grey vesicular lava.
880					[Terminate drilling on 10/28 due to formation instability. Bail the hole on 10/30 E-Logged 11/2/03 - stopped at 862'

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**DESC 57788**

**CITY OF REDMOND  
WELL #7 DRILLERS FROMATION LOG**

<b>Description</b>		<b>From</b>	<b>To</b>	
3/4" Crushed Rock		0	1	
Broken Gray Lava		1	15	
Gray Basalt		15	31	
Red Cinders		31	34	
Broken Black/Red Rock		34	53	
Brown Rock		53	61	
Black Lava		61	77	
Brown Sandstone		77	84	
Brown Conglomerate		84	88	
Black Lava		88	107	
Brown Sandstone		107	121	
Redish & Black Lava		121	130	
Brown Sandstone		130	133	
Black Lava		133	144	
Gray Lava		144	158	
Reddish Brown Rock		158	159	
Brown Rock		159	172	
Brown Sandstone		172	176	
Red and Black Lava		176	181	
Redish & Brown Sandstone		181	191	
Black Lava		191	206	
Brown Sandstone		206	209	
Coarse Black Sand		209	221	
Black Lava		221	243	
Brown Sandstone		243	249	
Black Lava & with Brown Ash		249	273	
Hard Black Basalt		273	283	
Red Sandstone		283	306	
Brown Sandstone		306	325	
Light Brown Sandstone		325	335	
Dark Brown Sandstone	WB	335	391	330
Black Sandstone	WB	391	423	328
Fine Black Sand	WB	423	458	328
Brown Sandstone	WB	458	526	328
Broken Blue & Gray Basalt	WB	526	529	328
Blue & Gray Basalt	WB	529	537	328
Gray Basalt	WB	537	553	328
No Cuttings Semi Soft	WB	553	565	328
No Cuttings Harder	WB	565	580	328
Red & Black Basalt	WB	580	600	328
No Cuttings Broken & Hard	WB	600	610	328
Black Basalt	WB	610	613	328
Black Sandstone	WB	613	625	328
Brown Sandstone	WB	625	632	328
Reddish Brown Sandstone	WB	632	641	328
Multi Colored Coarse Sand	WB	641	658	328

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**DESC 57788**

Dark Brown Sandstone	WB	658	690	328
Brown Sandstone	WB	690	706	328
Blue & Gray Basalt	WB	706	711	328
Gray Basalt	WB	711	731	328
No Cuttings Soft	WB	731	734	328
No Cuttings Harder	WB	734	741	328
No Cuttings Soft	WB	741	745	328
No Cuttings Harder	WB	745	750	328
Broken Vesicular Basalt	WB	750	754	327
Black Sandstone	WB	754	770	327
Black & Brown Sandstone	WB	770	785	327
Vesicular Black Basalt	WB	785	790	327
Vesicular Red & Black Basalt	WB	790	800	327
Hard & Broken No Cuttings	WB	800	810	327
Brown Sandstone with Multi				327
Colored Sand Lenses	WB	810	818	327
Vesicular Red & Black Basalt	WB	818	826	327
Black Sandstone	WB	826	831	327
Black & Gray Basalt	WB	831	838	327
Red & Black Basalt	WB	838	843	327
Vesicular Black Basalt	WB	843	847	327
Hard Black & Gray Basalt	WB	847	850	327
Very Hard Gray Basalt		850	960	327

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SALEM, OREGON

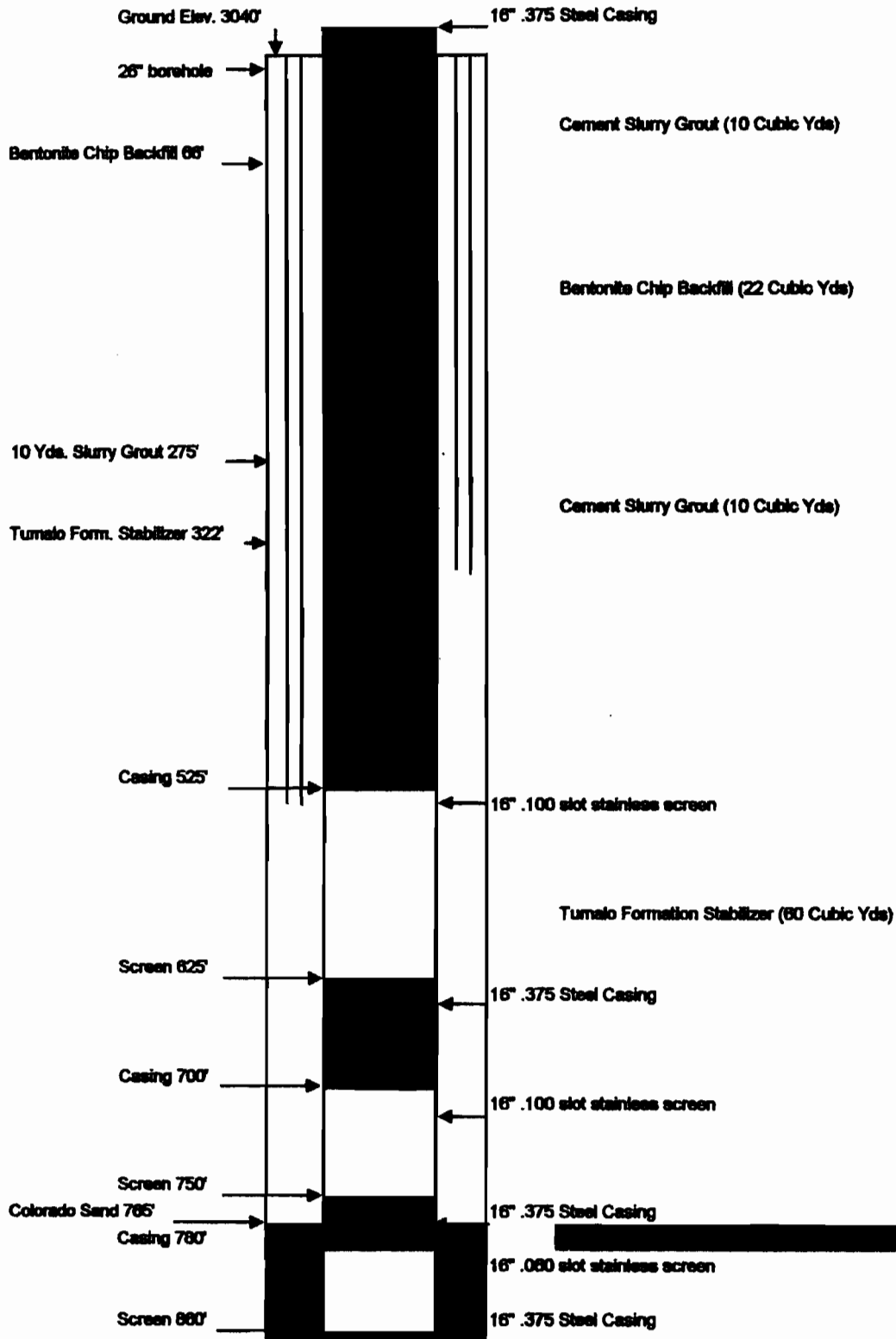
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**CITY OF REDMOND WELL #7 AS BUILT**



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