

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

**DESC 1738**  
**DESC 1738**

MAY 28 1993

WATER RESOURCES DEPT.  
 SALEM, OREGON

Page 1 of 1

(START CARD) # 36701

188/12E/70b  
 pg. 1

(1) OWNER: Well Number \_\_\_\_\_  
 Name City of Bend  
 Address P.O. Box 431  
 City Bend State OR Zip 97709

(2) TYPE OF WORK:  
 New Well  Deepen  Recondition  Abandon

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

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

(5) BORE HOLE CONSTRUCTION:  
 Special Construction approval  Yes  No Depth of Completed Well 800 ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
17	0	548	Cement	0	175	163 sacks
12	548	800	Bentonite	175	528	371 sacks
			Cement	528	548	75 sacks

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

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

(6) CASING/LINER:

Casing/Liner	Diameter	From	To	Gauge	Material			
					Steel	Plastic	Welded	Threaded
Casing:	12	+1 1/2	548	.250	<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) 548

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

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
---	---	---	---	---	---	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<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
500-1000		800	1 hr.

Temperature of Water 52 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 18 S N or S. Range 12 E E or W. WM. \_\_\_\_\_  
 Section 7 NW 1/4 SE 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) 61473 Blakely Rd  
Bend, OR 97701

(10) STATIC WATER LEVEL:  
402.5 ft. below land surface. Date 4/30/93  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found 404

From	To	Estimated Flow Rate	SWL
548	646	500	402 1/2
646	800	500	402 1/2

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

Material	From	To	SWL
Sandy soil	0	4	
Basalt gray pourous	4	9	
Basalt gray hard	9	24	
Pourous lava gray	24	38	
Lava cinders red	38	46	
Pumice yellow & white	46	86	
Lava gray medium hard	86	95	
Lava gray fractured	95	150	
Lava gray harder fractured	150	159	
Lava brown pourous & fractured	159	205	
Lava gray pourous harder	205	212	
Lava red & gray softer	212	229	
Lava gray hard	229	309	
Lava fractured gray	309	312	
Lava hard gray	312	318	
Lava red cinders	318	345	
Lava brown	345	355	
Lava lavender	355	362	
Lava gray hard	362	391	
Lava lavender	391	404	
CONTINUED			

Date started 2/25/92 Completed 4/29/92

(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 well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed Ryan B. Hatfield WWC Number 1358  
 Date 5/21/93

(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 well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 723  
 Date 5/21/93

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

DESE 1738  
 DESE  
 1738

18S/12E/7dB  
 pg 2

**(1) OWNER:** Well Number \_\_\_\_\_  
 Name City of Bend  
 Address P.O. Box 431  
 City Bend State OR Zip 97709

**(2) TYPE OF WORK:**  
 New Well     Deepen     Recondition     Abandon

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

**(4) PROPOSED USE:**  
 Domestic     Community     Industrial     Irrigation  
 Thermal     Injection     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 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"/>
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					<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"/>
					<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	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
			1 hr.

Temperature of Water \_\_\_\_\_    Depth Artesian Flow Found \_\_\_\_\_

Was a water analysis done?  Yes    By whom \_\_\_\_\_

Did any strata contain water not suitable for intended use?  Too little

Salty     Muddy     Odor     Colored     Other \_\_\_\_\_

Depth of strata: \_\_\_\_\_

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

County Deschutes Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Township 18 S    N or S    Range 12 E    E or W    WM.

Section 7    NW     $\frac{1}{4}$     SE     $\frac{1}{4}$

Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_

Street Address of Well (or nearest address) 61473 Blakely Rd  
Bend, OR 97701

**(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
Broken rounded lava soft	404	410	
Cinders red soft	410	510	
Lava gray hard	510	548	
Lava gray and brown pourous	548	646	
Lava cinders red	646	800	

**RECEIVED**

**MAY 28 1993**

WATER RESOURCES DEPT.  
 SALEM, OREGON

Date started \_\_\_\_\_    Completed \_\_\_\_\_

**(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 well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed [Signature]    WWC Number 1358    Date 5/21/93

**(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 well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature]    WWC Number 723    Date 5/21/93

STATE OF OREGON  
WATER RESOURCES DEPARTMENT

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REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT  
INCLUDED IN THE RULES AND REGULATIONS PRESCRIBING GENERAL STANDARDS  
FOR THE CONSTRUCTION AND MAINTENANCE OF WELLS IN OREGON

Before approval can be considered the following questions must be answered.

Requests shall be submitted to the Watermaster Division, 3850 Portland Road,  
NE, Salem, OR 97310.

Date: 4/9/92

Well Constructor: STACO Well Services  
Chuck Stadel 723

(1) Location of Well: Q N<sup>1/2</sup> NW 1/4 SE 1/4 of Section 7,  
Township 18S, Range 12E, Deschutes County.

Address at well site or nearest known address: End of Powers  
Rd Bend OR

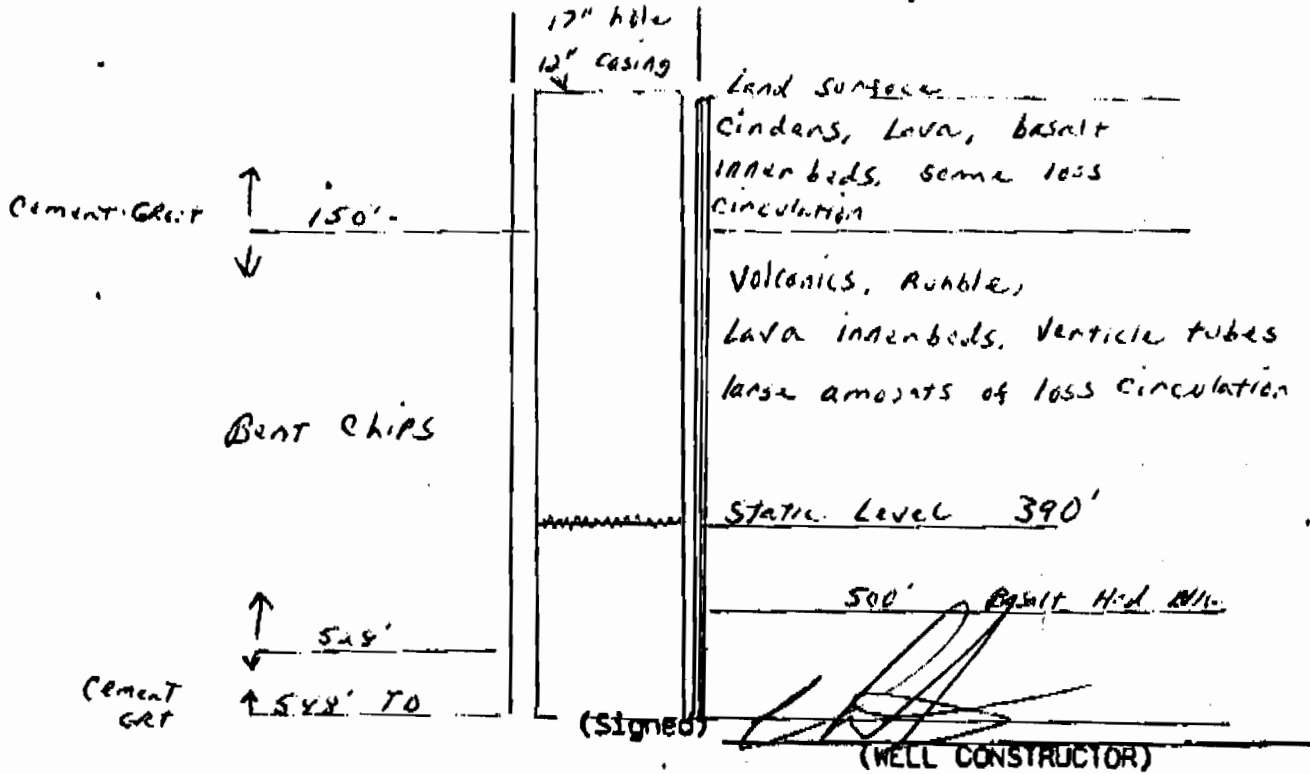
(2) Name and address of Landowner: City of Bend  
P.O. Box 431  
Bend OR

(3) The distance to the nearest well and septic drainfield: 200' +

(4) The unusual conditions existing at the well site: N/A

(5) The proposed construction methods that the well constructor or landowner  
constructing the well believes will be adequate for his particular well:  
17" bore hole to 548' 12" casing to 548', cement  
grout from 548' up to 528', bent chips from  
528' up to 150', cement grout from 150'  
to land surface. Request use of bent chips  
to eliminate grout loss in loss zones

(6) A diagram showing the pertinent features of the proposed well design and construction (attach additional sheet if necessary):



For Water Resources Department Use Only

Date:

Approved by:

Denied by:

Remarks:

NOTE:

- (1) If approval, all other phases of construction must be in compliance with State Well Construction Standards.
- (2) If it should be determined at some future date that the well, due to its construction, is offering an avenue for pollution of the ground water body, it will be necessary for you to return to the site to correct any well deficiencies.

TELECOPIER COVER LETTER

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: Greg Beames

DATE: 4/10/92

FIRM: WRD

FROM: Chuck Stadel

CITY: Salem

FAX NUMBER: 378 8130

TOTAL NUMBER OF PAGES INCLUDING COVER LETTER: 3

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL!!

ORIGINAL DOCUMENTS BEING SENT BY MAIL? YES  NO

REMARKS:

Please find enclosed request for special well construction standards for 12" well for the City of Bend.

Please call if you have any questions

Thanks

Chuck