

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

Desc  
 9219

14S/9E/966  
 65263

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

Page 1 of 2

(START CARD) #

(1) OWNER: Well Number 4  
 Name Black Butte Ranch  
 Address PO Box 8000  
 City Black Butte Ranch State OR Zip 97759

(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 420 ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
20	0	420	cement	0	100	45 bags
			pea gravel	100	304	7 yards
			cement	304	345	35
	345	350	Bentonite			

How was seal placed: Method  A  B  C  D  E  
 Other \_\_\_\_\_  
 Backfill placed from 100 ft. to 350 ft. Material cement/pea gravel  
 Gravel placed from 420 ft. to 350 ft. Size of gravel 8-12

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 16	+1	367	.365	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<del>16</del>	<del>367</del>	<del>420</del>	<del>.365</del>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 12"	363	367	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12"	417	420	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

(7) PERFORATIONS/SCREENS:

Perforations Method \_\_\_\_\_  
 Screens Type Houston Material SS/304

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
367	417	60		12		<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Pump  Bailor  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
50	0		1 hr.

Temperature of water 51° 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 14S N or S Range 9E E or W. WM.  
 Section 9 NW 1/4 NW 1/4  
 Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
 Street Address of Well (or nearest address) Hawks Beard

(10) STATIC WATER LEVEL:  
304 ft. below land surface. Date 1-16-95  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found 359

From	To	Estimated Flow Rate	SWL
359	420	1,000 GPM	304

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 JAN 30 1995  
 WATER RESOURCES DEPT  
 SALEM, OREGON

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

Material	From	To	SWL
pumice sand & broken rock	0	8	
broken lava	8	9	
pumice sand & broken rock	9	13	
lava grey hard with broken seams	13	35	
lava gray & red with broken seams	35	46	
lava gravel medium well rounded	46	82	
lava gray hard	82	105	
andosite gray very hard	105	136	
lava reddish gray weathered slightly vasicular med. hard with broken seams	136	178	
lava reddish gray w/ andosite	178	188	
lava reddish gray weathered	188	200	
lava red broken with cinders loose	200	238	
andosite basalt gray hard	238	285	

Date started 10-22-94 Completed 1-16-95

(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 the best of my knowledge and belief.  
 Signed [Signature] WWC Number 1523  
 Date 1/23/95

(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 [Signature] WWC Number 1358  
 Date 1/23/95

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

Desc  
 9719

145/9E/9bb

Page 2 of 2

(START CARD) #

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(1) OWNER: Well Number 4  
 Name Black Butte Ranch  
 Address PO Box 8000  
 City Black Butte Ranch State OR Zip 97759

(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			Sacks or pounds
Diameter	From	To	Material	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	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:

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

Yield gal/min	Drawdown	Drill stem at	Time
			1 hr.

Pump  Bailer  Air  Flowing Artesian

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 \_\_\_\_\_ Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township \_\_\_\_\_ N or S Range \_\_\_\_\_ E or W. WM. \_\_\_\_\_  
 Section \_\_\_\_\_ 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

RECEIVED  
 JAN 30 1995  
 WATER RESOURCES DEPT.  
 SALEM, OREGON

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

Material	From	To	SWL
andosite basalt grey with some red hard	285	290	
andosite basalt gray with more red hard	290	302	
lava red vasicular with some cinders fractured	302	322	
andosite basalt gray with trace of red hard	322	359	
lava red cinders loose	359	380	
basalt gray med	380	396	
lava gravel red vasicular	396	420	

Date started 10-22-94 Completed 1-16-95

(unbonded) Water Well Constructor Certification:  
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 Signed \_\_\_\_\_ WWC Number 1523  
 Date 1/23/95

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 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 Raymond B. [Signature] WWC Number 1358  
 Date 1/23/95