Type of water?

Method of sealing strata off

Gravel placed from ...

Was well gravel packed? | Yes No

depth of strata

ft. to

Size of gravel:

... ft.

NOTICE TO WATER WELL COMPACED ET A RESECTIB	966 1800 S	· a	
of this report are to be	Larore ()	Dierior II.	4.4
state engineer, salem, organa are ENGINEERse type within 30 days from the tall ARE. OREGONOL write at of well completion. SALEM. OREGONOL write at	or print)	14 5/9E-16	
(1) OWNER:	(10) LOCATION OF WELL:	<u> </u>	_
Name Brucks Fresource	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Address 447. E GREENUUCU BEND ORF.			_
9770/			М,
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivisi	on corner	_
Now Well Deepening Reconditioning Abandon			
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed w		٦,
(3) TYPE OF WELL: (4) PROPOSED USE (check):	` · ·	60	
Rotary D Driven D Domestic D Industrial D Municipal	Static level 3.4.5 ft, below land	# 1 a 1	4
Cable		re inch. Date	73
CASING INSTALLED: Threaded Welded			_
"Diam from 12 ft to 28 7 ft Gage 13/2	(12) WELL LOG: Diameter of well l	below casing	
"Diam from ft to the ft. Gage	Depth drilled 287 ft. Depth of compl	leted well 287 1	<u>ft.</u>
"Diam, from ft. to ft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each stratus with at least one entry for each change of forma	m and aquifer penetrated	ed,
) PERFORATIONS: Perforated? X Yes D No.	position of Statle Water Level and indicate prin		
Type of perforator used Toff C.A.	MATERIAL	From To SWL	
Size of perforations 3/16 in. by 6 in.	70/Suit BLACK	C 2	_
240 perforations from 215 ft, to 282 ft.	CLAY + CHANEL. BROWN	2/2	_
perforations from ft. to ft.	LAVA GREY NED	12 2 2	_
perforations from ft. to ft.	CLAY BROWN & LEVA BROKEN	99 47	_
(7) SCREENS: Well screen installed? Yes X No	CLANCY DICALE RROW PROPERTY	77 772	
Manufacturer's Name	BASALT GREV HARD	130 150	
Type Model No.	CINDERS RED BASALT BRAKEN	159 198	_
Diam Slot size Set from ft. to ft.	BASALT GREY HARD	198 219	
Diam Slot size Set from ft. to ft.	CLAY BROWN BASALT BROKEN	2/9 2/9	_
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	BASAIT GREY TAKD	249 260	_
A .	CINDERSTONE REDYNUITI"	260 292	—
Was a pump test made? Yes No II yes, by whom? CORNELL	BASALT BLACK HARD	282 287	_
14: 620 gal./min. with 1,5" ft. drawdown after hrs.	BASAL MAG	202	_
" 630 " 15" " # "			_
800 175 70			
Bailer test gal./min. with ft. drawdown after hrs.			_
esian flow g.p.m.	111000000000000000000000000000000000000	. 2/22	
aperature of water#2 Depth artesian flow encountered ft.	Work started ///25 1972 Complete		-
(9) CONSTRUCTION:	Date well drilling machine moved off of well	$\frac{2}{2}$	I
Well seal-Material used CCMFNT GROUT	Drilling Machine Operator's Certification:	dinasi sumannisia	_
was sealed from land surface to	This well was constructed under my Materials used and information reported best knowledge and belief.	above are true to m	ny
in. in. sacks of cement used in well seal	[Signed] Crilling Machine Operator)	Date 3/28, 197	3
	Drilling Machine Operator's License No.	348	
of sacks of bentonite used in well seal sacks	Mining indenine Operator a Dicense 110.		_
Manuer of bentonite	Water Well Contractor's Certification: This well was drilled under my jurisdi	iction and this report	is
- 1bs./100 gals.	true to the best of my knowledge and bel	lef.	
ros a drive shoe used? Yes No Plugs	Name CYR. & RILLING C	(Tune or print)	•••

(USE ADDITIONAL SHEETS IF NECESSARY)

Address 1.2.7



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



JUN 1 7 1991

WATER RESOURCES DEPT. 23611

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				•

(1) OWNER: Well Number.	(9) LOCATION OF WELL by legal description:	
Name Black Butte Ranch Association	County Deschute Situde Longitude Township 14 Wir S, Range 9 E&W	
Address P.O. Box 8000 City Black Butte Ranch State Or. Zip 97759	Township 14 Wur S, Range 9 EAR	, WM <u>.</u>
	Section 16 SE 4 NE 4	
(2) TYPE OF WORK:	Tax Lot 4800 Lot Block Subdivision Street Address of Well (or nearest address) Hawksbeard R	d.
New Well 120 Deepen. L.I. Recondition L.I. Abandon	Black Butte Ranch	
(3) DRILL METHOD El Rotary Air	(10) STATIC WATER LEVEL:	
Other	265 A. below land surface. Date 4-26	-91
(4) PROPOSED USE:	Artesian pressure lb. per square inch. Date	
Domactic & Community Industrial Irrigation	(11) WATER BEARING ZONES:	
☐ Therntal ☐ Injection ☐ Other		
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found 315	1 4
Special Construction approval Ves No Depth of Completed Well 370 ft.	From To Estimated Flow Rate	SWL
(5) BORE HOLE CONSTRUCTION; Special Construction approval Yes No Depth of Completed Well 370 ft. Yes No Depth of Completed Well 370 ft. Explosives used Type Amount	315 327 300 GPM	265
HOLE GEAL	327 353 500 GPM	265
HOLE SEAL Amount Diameter From To Material From To sucks or pounds		+
16" 0 +287 Undistrubed	(12) WELL LOG: Ground elevation	
15" 232 353 12" 353 370		
12" 333 379	Material From To	SWI
How was seal placed: Method .	28½ yds 22 sk cement	\vdash
Other	slurry pumped 287 - 232	\vdash
Backfill placed from ft. to. ft. Material	Hard Black Basalt 287 315	
Gravel placed from -50 ft. to 353 ft. Size of gravel \(\frac{1}{2} \times \frac{3}{8} \)	Red Cinder Conglomerate 315 327	26
(6) CASING/LINER:	Black Sand/Gravel/Boulder 327 353	
Diameter From To Gauge Steel Plastic Welded Threaded	Fractured Gray Lava: 353 370	
Casing:		
	9.1 yds gravel used	
		+-
Liner: 12" +1½ -354 -25 🕱 🗆 😨		1-
Final location of shoe(s) . 4354	Well drilled by C&R Drilling Co.	
(7) PERFORATIONS/SCREENS:	# 540 2-28-73	
KI Perforations Method Machine	,	
Screens Type Material		<u> </u>
		+
From To size Number Diameter size Casing Liner		
* 3 D D	·	╁
		+
	Date started 4-18-91	.,
	(unbonded) Water Well Constructor Certification:	
(8) WELL TESTS: Minimum testing time is 1 hour Flowing	I certify that the work I performed on the construction, alte	
□ Pump □ Bailer □ Air □ Artesian	abandonment of this well is in compliance with Oregon well con standards. Materials used and information reported above are true t	
Yield gal/min Drawdown Drill stem at Time	knowledge and belief	•
1 hr.	WWC Number _	
25 0 370 16 hr.	Signed Date	
	(bonded) Water Well Constructor Certification:	
Temperature of water 490 Depth Artesian Flow Found	I accept responsibility for the construction, alteration, or abar work performed on this well during the construction dates reported	
Was a water analysis done?	work performed during this time is in compliance with Ore	egon w
Did any strata contain water not suitable for intended use? To little	construction standards. This report is true to the best of my know belief.	
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other ☐ Depth of strate: ☐	Signed WWC Number 6	
Depth of strata:		· · · · · · · · · · · · · · · · · · ·

STATE OF OREGON WATER WELL REPORT (as required by ORS 537.765) (START CARD) Instructions for completing this report are on the last page of this form. (9) LOCATION OF WELL by legal description: (1) OWNER: Well Number Name Black Butte Ranch County Latitude Longitude Address PO Box 8000 Township N or S Range E or W. WM. City Black Butte Ranch State OR Zip 97759 Section 1/4 1/4 (2) TYPE OF WORK ... Block Tax Lot Subdivision_ New Well Deepening Alteration (repair/recondition) Abandonment Street Address of Well (or nearest address) (3) DRILL METHOD: (10) STATIC WATER LEVEL: Rotary Air Rotary Mud Cable Auger Other ft, below land surface. Date (4) PROPOSED USE: Artesian pressure lb. per square inch. Domestic (11) WATER BEARING ZONES: Community Industrial Irrigation Livestock Other Thermal Injection (5) BORE HOLE CONSTRUCTION: Depth at which water was first found Special Construction approval Yes No Depth of Completed Well SWL Explosives used Yes No Type From HOLE SEAL Diameter From Material From Sacks or pounds (12) WELL LOG: How was seal placed: Method \Box c □D.... □B Ground Elevation ☐ Other. Material andosite basalt grey with Backfill placed from ft. Material D 10 From 285 <u>70</u> 290 Gravel placed from ft, to ft. Size of gravel some red hard (6) CASING/LINER: andosite basalt gray with 290 302 Diameter To Gauge Steel Plastic Welded Threaded more red hard Casing: 302 322 lava red vasicular with some cinders fractured П andosite basalt gray with 322 359 trace of red hard \Box . Liner: lava red cinders loose 359 380 Final location of shoe(s) (7) PERFORATIONS/SCREENS: 380 396 basalt gray med Perforations Method 420 lava gravel red Screens Material Pele/pipe Slot Diameter Casing Liner MAR 2 1 201 П WATER RESQUECES DEPT SALEM. OREGON 10-22-94 (8) WELL TESTS: Minimum testing time is 1 hour Completed (unbonded) Water Well Constructor Certification: Flowing **∏**Pump I certify that the work I performed on the construction, alteration, or abandonment Bailer Artesian Air of this well is in contiliance with oregon water supply well construction standards. Materials used and information protected above are true to the best of my knowledge Drill stem at Time Yield gal/min Drawdown and belief. 1 hr. - WWC Number 1523 Signed # (bonded) Water Well Constructor Certification: Depth Artesian Flow Found 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 bytue to the best of my knowledge and belief. Was a water analysis done? Yes By whom 7 55 Did any strata contain water not suitable for Intended use? Too little Salty Muddy Odor Odor Other WWC Number 1358 Depth of strata:

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY

THIRD COPY-CUSTOMER

CONSTRUCTOR

STATE OF OREGON WATER WELL REPORT (START CARD) # (as required by ORS 537.765) tage lofa Instructions for completing this report are on the last page of this form. (9) LOCATION OF WELL by legal description: Well Number (1) OWNER: Name Black Butte Ranch County Deschutes Latitude Longitude PO Box 8000 Township 14S N or S Range Zip 97759 City Black Butte Ranch State OR Section Subdivision Block Tax Lot (2) TYPE OF WORK Street Address of Well (or nearest address) Hawks Beard New Well Deepening Alteration (repair/recondition) Abandonment (3) DRILL METHOD: (10) STATIC WATER LEVEL: Rotary Air Rotary Mud Cable 304 Date <u>1-16-95</u> ft. below land surface. Other (4) PROPOSED USE: Artesian pressure lb. per square inch. (11) WATER BEARING ZONES: Community Industrial Injection Livestock Domestic Irrigation Other Depth at which water was first found 359 (5) BORE HOLE CONSTRUCTION: Special Construction approval Yes No Depth of Completed Well 420 ft. SWL Estimated Flow Rate Explosives used Yes No Type Amount From To 359 420 1.000 GPM 304 HOLE SEAL Sacks or pounds Diameter From To 20 100 45 bags 304 pea grave1100 7 vards 304 345 cement 345 350 Bentonite (12) WELLLOG: Method A K C How was seal placed: □Þ Ground Elevation Other Backfill placed from 100 ft. to350 ft. Material Dead Tave Material Gravel placed from 420 ft. to 350 ft. Size of gravel 8-17 p.mice sand & broken rock (6) CASING/LINER: broken lava 8 9 9 pumice sand & broken rock 13 Dlameter Welded Threaded Gauge Steel 35 365 13 367 X lava grev hard with broken 16 +1 Casing: XXIXXX × Ъ 35 46 lava gray & red with broken seams \mathbf{x} 46 82 lava gravel medium well 250 😠 Liner: 363 367 12" 250 🗷 rounded 417 420 lava gray hard 82 105 Final location of shoe(s) (7) PERFORATIONS/SCREENS: 136 andosite gray very hard 105 136 178 Perforations Method lava reddish gray weathered X Screens Material SS/304 slightly vasicular med. Type Houston Tele/pipe hard with broken seams Casing Line Diameter lava reddish gray w/ andosite 178 1.88 417 X 367 lava reddish grav weathered 200 188 238 lava red broken with cinders _ 🗆 100se□° andosite basalt gray hard 285 (8) WELL TESTS: Minimum testing time is 1 hour 10-22 - 9 4 Completed Date started -16-95 (unbonded) Water Well Constructor Certification: Flowing I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Organ water supply well construction standards. Materials used and information reported above are true to the best of my knowledge Air x Bailer ☐ Pump Artesian Yield gal/min Drill stem at Time Drawdown 50 and belief. WWC Number Signed 4 Temperature of water 51 (bonded) Water Well Constructor Certification: Depth Artesian Flow Found I accept responsibility for the construction, alteration, or abandonment work Was a water analysis done? Yes By whom performed on this well during the construction dates reported above. All work Did any strata contain water not suitable for intended use? Too little performed during this time is in compliance with Oregon water supply well Salty Muddy Qdor Colored Other construction standards. This report is true to the best of my knowledge and belief. WWC Number 1358 Depth of strata:

ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SECOND COPY

THIRD COPY-CUSTOMER