

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

**RECEIVED**  
**STATE ENGINEER**

1800  
1895  
1800  
1800  
1800

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

JUN 20 1973  
STATE OF OREGON  
STATE ENGINEER  
SALEM, OREGON

State Well No. 14519E-16  
State Permit No. G-8501

**(1) OWNER:**

Name EPHOOKS RESOURCES  
Address 447 E. GREENWOOD RENO, ORT.  
97701

**(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   
 Bored

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

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

**(5) CASING INSTALLED:**

16" Diam. from 12 ft. to 287 ft. Gage 1 3/2  
" Diam. from ..... ft. to ..... ft. Gage .....  
" Diam. from ..... ft. to ..... ft. Gage .....

**(6) PERFORATIONS:**

Perforated?  Yes  No.  
Type of perforator used TORCH  
Size of perforations 3/16 in. by 6 in.  
540 perforations from 245 ft. to 286 ft.  
perforations from ..... ft. to ..... ft.  
perforations from ..... ft. to ..... ft.

**(7) SCREENS:**

Well screen installed?  Yes  No  
Manufacturer's Name ..... 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? CORNELL  
1: 630 gal./min. with 15 ft. drawdown after 1 hrs.  
" 630 " 15 " 4 "  
" 805 " 12 " 48 "  
Ballor test gal./min. with ft. drawdown after hrs.  
Artesian flow g.p.m.  
Temperature of water 42° Depth artesian flow encountered ..... ft.

**(9) CONSTRUCTION:**

Well seal—Material used CEMENT GROUT  
Well sealed from land surface to 150 ft.  
Diameter of well bore to bottom of seal 24 in.  
Diameter of well bore below seal 18 in.  
Number of sacks of cement used in well seal 530 sacks  
Number of sacks of bentonite used in well seal ..... sacks  
Name of bentonite .....  
Number of pounds of bentonite per 100 gallons ..... 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? ..... 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 .....  
SE 1/4 NE 1/4 Section 16 T. 14S R. 9E W.M.  
Bearing and distance from section or subdivision corner .....

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found 260 ft.  
Static level 245 ft. below land surface. Date 2/28/73  
Artesian pressure lbs. per square inch. Date .....

**(12) WELL LOG:**

Diameter of well below casing .....  
Depth drilled 287 ft. Depth of completed well 287 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	BWL
TOP SOIL BLACK	0	2	
CLAY & GRAVEL BROWN	2	12	
LAVA GREY MILD	12	22	
CLAY BROWN & LAVA BROWN	22	99	
BASALT GREY (HARD)	99	112	
CLAY & BASALT BROWN BROWN	112	138	
BASALT GREY HARD	138	159	
CINDERS RED BASALT BROWN	159	178	
BASALT GREY HARD	178	219	
CLAY BROWN BASALT BROWN	219	249	
BASALT GREY HARD	249	260	
CINDERSTONE RED & MULTI-			
COLORADO GRAVEL	260	282	
BASALT BLACK HARD	282	287	

Work started 11/25 1972 Completed 2/22 1973  
Date well drilling machine moved off of well 2/23 1973

**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] Don Lamb Date 2/28, 1973  
(Drilling Machine Operator)  
Drilling Machine Operator's License No. 348

**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 C.P.R. DRILLING CO (Type or print)  
(Person, firm or corporation)  
Address 1275 Madison Hwy PRINEVILLE  
97754  
[Signed] Don Lamb (Water Well Contractor)  
Contractor's License No. 540 Date 2/28, 1973

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STATE ENGINEER  
SALEM, OREGON

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#11

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

*DESC 914*

JUN 17 1991  
WATER RESOURCES DEPT.  
SALEM, OREGON (START CARD) # 23611

*145/9 E 16*

(1) OWNER: Well Number: \_\_\_\_\_  
Name Black Butte Ranch Association  
Address P.O. Box 8000  
City Black Butte Ranch State Or. Zip 97759

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

Diameter	HOLE		SEAL		Amount sacks or pounds
	From	To	Material	From To	
16"	0	287	Undisturbed		
15"	232	353			
12"	353	370			

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

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_  
Gravel placed from -50 ft. to 353 ft. Size of gravel 1/2 x 3/8

(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:	12"	+1 1/2	-354	25	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) 354

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

From	To	Slot size	Number	Diameter	Telo/pipe size	Casing	Liner
324	354	1/8	1392			<input checked="" type="checkbox"/>	<input type="checkbox"/>
		* 3				<input type="checkbox"/>	<input type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
25	0	370	16 hr.

Temperature of water 49° 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 14 N. S. Range 9 E. W. M.  
Section 16 SE 1/4 NE 1/4  
Tax Lot 4800 Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_  
Street Address of Well (or nearest address) Hawksbeard Rd.  
Black Butte Ranch

(10) STATIC WATER LEVEL:  
265 ft. below land surface. Date 4-26-91  
Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:

Depth at which water was first found 315

From	To	Estimated Flow Rate	SWL
315	327	300 GPM	265
327	353	500 GPM	265

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

Material	From	To	SWL
28 1/2 yds 22 sk cement slurry pumped	287	232	
Hard Black Basalt	287	315	
Red Cinder Conglomerate	315	327	265
Black Sand/Gravel/Boulder	327	353	
Fractured Gray Lava	353	370	
9.1 yds gravel used			

Well drilled by C&R Drilling Co.  
# 540 2-28-73

Date started 4-18-91 Completed 6-7-91

(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.

WWC Number \_\_\_\_\_  
Signed \_\_\_\_\_ 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 well construction standards. This report is true to the best of my knowledge and belief.

WWC Number 685  
Signed [Signature] Date 6-14-91

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