

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)

RECEIVED

MAR 30 1977

WATER RESOURCES DEPT.

State Well No. 25/214E-3db State Permit No. G-8610 WELL #2

(1) OWNER:

Name Department of Fish & Wildlife Address 1634 S. W. Alder St. Portland, Oregon 97208

(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 [] Driven [] Cable [X] Jetted [] Dug [] Bored []

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal [] Irrigation [] Test Well [] Other [X]

CASING INSTALLED:

For fish hatchery Threaded [] Welded []

20" Diam. from +2 ft. to 67'11" ft. Gage 375 16" Diam. from +4 ft. to 350 ft. Gage 375

PERFORATIONS:

Perforated? [X] Yes [] No.

Type of perforator used Cutting torch & mills knife Size of perforations torch in. by 7/16 x 6 in. m knife 5/8 x 3 in. perforations from 56 ft. to 340 ft. knife 28 perforations from 319 ft. to 326 ft.

(7) SCREENS:

Well screen installed? [] Yes [X] No

Manufacturer's Name Type Model No. Diam. Slot size Set from ft. to Diam. Slot size Set from ft. to

(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? driller Yield: gal./min. with ft. drawdown after hrs. See sheet attached Bailer test gal./min. with ft. drawdown after hrs. Artesian flow g.p.m. Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal-Material used admix, cement, intrusion aid Well sealed from land surface to see sheet attached ft. Diameter of well bore to bottom of seal 18 (see in sheet) Diameter of well bore below seal see sheet Number of sacks of cement used in well seal 340 Number of sacks of bentonite used in well seal Brand name of bentonite Number of pounds of bentonite per 100 gallons of water Was a drive shoe used? [X] Yes [] 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? [] Yes [X] No Size of gravel: Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Wallowa Driller's well number 7707 NW 1/4 SE 1/4 Section 3 T. 2S R. 44E W.M. Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 2 ft. Static level ft. below land surface. Date Artesian pressure 22 lbs. per square inch. Date 3-17-77

(12) WELL LOG:

Diameter of well below casing 15" Depth drilled 705 ft. Depth of completed well 705 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. Content: See sheet attached

Work started 6-21 1976 Completed 3-18 19 77 Date well drilling machine moved off of well 3-19 1977

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] Mike Schneider (Drilling Machine Operator) Date 3-28, 1977 Drilling Machine Operator's License No. 212

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 Schneider Equipment, Inc. (Person, firm or corporation) (Type or print) Address Star Rt., Box 97, St. Paul, Ore. 97137 [Signed] Mike Schneider (Water Well Contractor) Contractor's License No. 387 Date 3-28-1977

Department of Fish & Wildlife

Well Data: Att'n: Mr. Bartholomew

0 to 61½' our static ran 2' to 3'
We used lots of cement and some bentonite, as the boulders and rock 2" - 8" would not let us make hole without cement. We had a heavy cement slurry in the hole when we drove the 20" casing into the basalt.

From 70' to 100' we had dry hole and from 100' to 352' we had 70' static.

At 352' our static started rising, and at 375' it ran over with 13 p.s.i. when capped. We then ran the 16" casing 354' + 6½" drive shoe, filled well to -2' of casing with sand and perforated 16" casing.

We then pressure grouted at 350' to seal 16" to our 18" bore hole (18" diameter bit). We had to do it 3 times and used 340 sacks of cement to hold it. We got a vacuum reading on gauge between 20" and 16" and no reading since.

We then drilled the balance of hole using at full 15" diameter bit.

The top seal was O.K.'d by Mr. Bartholomew as it was done.

The well ended up with 22 p.s.i. static on 3-17-77 when we installed the 20 H. P. submersible pump with 4" horizontal gate valve to the south for testing etc., gauges, etc.

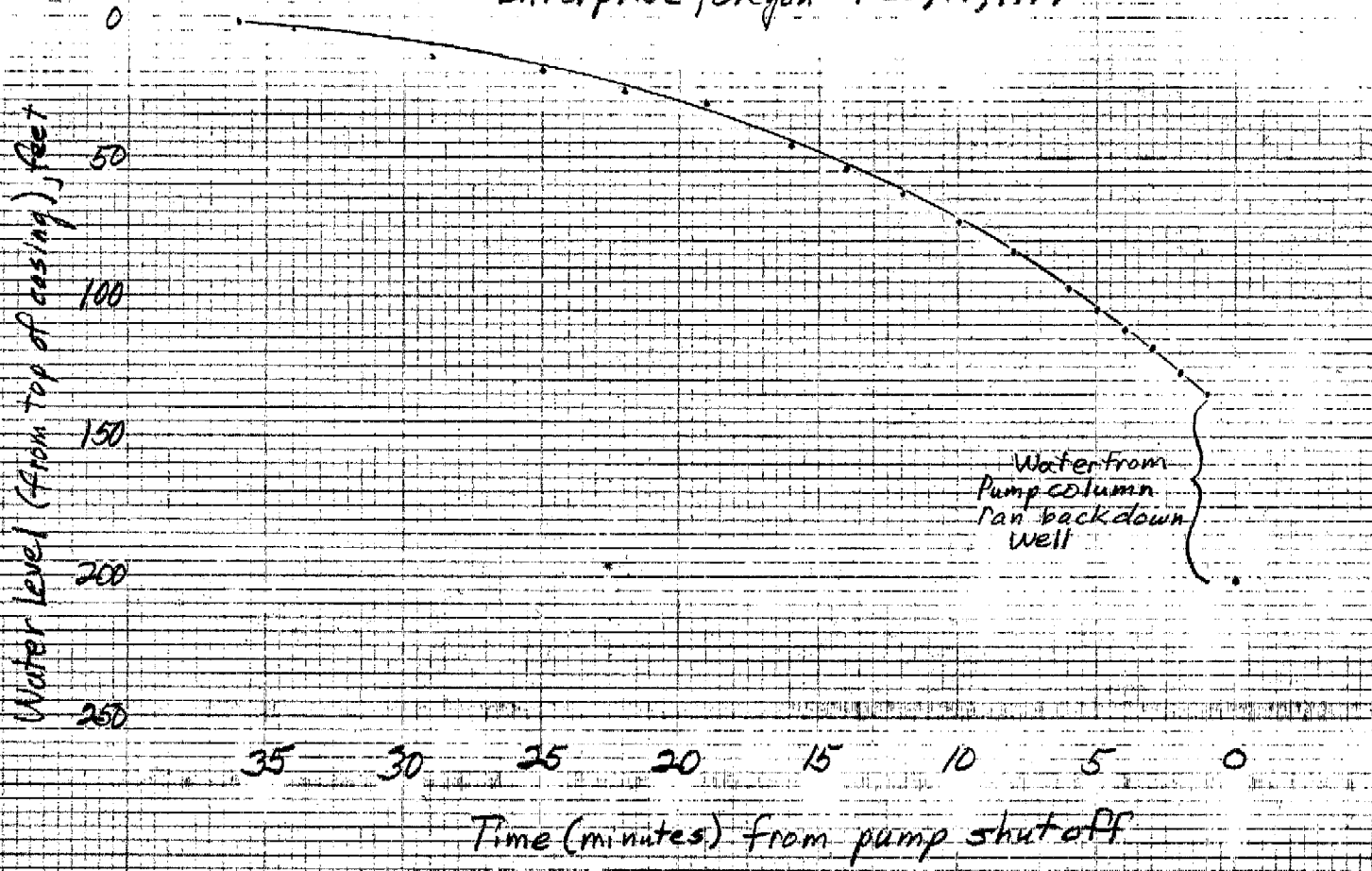
#7707

Department of Fish & Wildlife

Material	From	To
Rocks & top soil	0	5
Rocks to 10" diameter	5	12
Boulders, big and flint like rock	12	47
Rock, water bearing	47	49
Rock, hard & boulders	49	53
Clay, red soft	53	61 $\frac{1}{2}$
Rock, solid	61 $\frac{1}{2}$	66
Rock, solid hard	66	69
Rock, medium (3" sand streak at 69' and at 70')	69	83
Rock, black solid medium	83	98
Clay, red & shale	98	106
Clay, red hard	106	110
Boulders	110	111
Rock, red hard & conglomerate	111	130
Rock, brown hard solid	130	142
Rock, black solid	142	161
Rock	161	176
Rock, hard	176	188
Clay rock, red & conglomerate	188	194
Rock, red	194	197
Conglomerate	197	201
Rock, red & conglomerate	201	211
Rock, black - traces of red	211	212
Rock, black	212	223
Rock, black hard	223	225
Rock, very hard	225	227
Rock, hard (small streak of soapstone at 235)	227	236 $\frac{1}{2}$
Rock, medium	236 $\frac{1}{2}$	244
Rock, hard	244	247
Rock, very hard	247	251
Rock, hard	251	284
Rock, black solid - some seams	284	295 $\frac{1}{2}$
Rock, mostly black solid	295 $\frac{1}{2}$	310
Rock, black (soft spot 312' - 3" 313 $\frac{1}{2}$ - 3")	310	322
Basalt, black	322	332
Rock, some	332	345
Rock, hard - softer sand - rock	345	352
Conglomerate	352	357
Conglomerate, black	357	359
Conglomerate, red	359	397
Rock, brown hard	397	405
Basalt, reddish brown	405	425
Basalt, red w/ seams	425	431
Basalt, black hard w/ seams full of clay	431	434
Basalt w/ seams to 3" full of clay	434	456
Basalt - crevices w/ clay	456	469
Rock, red & conglomerate	469	475

Basalt, brown broken	475	484
Basalt, hard	484	494
Lava rock, hard	494	499
Basalt, hard	499	503
Basalt, reddish softer	503	505
Basalt w/ clay crevices	505	507
Basalt, gray w/ gray clay & rock mix conglomerate	507	512
Soapstone, light brown (volcanic clay)	512	512 $\frac{1}{2}$
Basalt, gray w/ some conglomerate layers	512 $\frac{1}{2}$	515
Basalt, gray	515	523
Basalt, grey w/ some gray clay & small rock conglomerate layers	523	546
Basalt, brown w/ some layers brown silty clay	546	549
Basalt, brown hard	549	551
Clay, red sticky	551	554
Clay & rock mix, red	554	556
Clay conglomerate, red	556	567
Clay conglomerate, red sticky	567	572
Basalt, gray medium	572	576
Basalt, black w/ red rock & clay filling	576	585
Basalt, w/ some red streaks in seams	585	595
Basalt	595	604
Basalt, very hard	604	612
Basalt	612	616
Rock, red	616	618
Basalt	618	625
Basalt, very hard	625	632
Basalt, some seams	632	640
Basalt, black w/ crevices	640	651
Conglomerate, red	651	669
Basalt, black crevices rust in crevices	669	684
Basalt, black hard w/ few crevices	684	705

Recovery test
Dept. of Fish & Wildlife, Wallowa Hatchery
Enterprise, Oregon Feb, 14, 1977



Well Test
Dept. of Fish & Wildlife, Wallowa Hatchery
Enterprise, Oregon Feb 14, 1977

