

FIGURE 2  
**GEOLOGIC  
CROSS-SECTION A-AA**  
CITY OF YELM SW WELL 1A DEVELOPMENT PROJECT  
**Golder Associates**

File Original and First Copy with  
Department of Ecology  
Second Copy — Owner's Copy  
Third Copy — Driller's Copy

# WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 098134

UNIQUE WELL I.D. # ACH 1234

Water Right Permit No. ACH 583

(1) OWNER: Name Robert Lincoln Address 11304 Price Ln. SE Rainier WA.

(2) LOCATION OF WELL: County Thurston SE 14 SE 14 Sec 27 T. 17 N. R. 1E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) Same As Above 11338 Price Ln SE

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐  
☒ Irrigation ☐ Test Well ☐ Other ☐  
☒ Debris ☐ Reconditioned ☐ Rotary

(4) TYPE OF WORK: Owner's number of well (if more than one) 2  
Abandoned ☐ New ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Bored ☐ Drilled ☒ Jetted ☐ Cable ☐ Rotary ☒

(5) DIMENSIONS: Diameter of well 6" inches.  
Drilled 236' feet. Depth of completed well 236' ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +2 ft. to 236' ft.  
Welded ☒ Liner installed ☐ Threaded ☐ Diam. from     ft. to     ft.

Perforations: Yes ☐ No ☒

Type of perforator used    

SIZE of perforations     in. by     in.

    perforations from     ft. to     ft.

    perforations from     ft. to     ft.

    perforations from     ft. to     ft.

Screens: Yes ☐ No ☒

Manufacturer's Name    

Type     Model No.    

Diam.     Slot size     from     ft. to     ft.

Diam.     Slot size     from     ft. to     ft.

Gravel packed: Yes ☐ No ☒ Size of gravel    

Gravel placed from     ft. to     ft.

Surface seal: Yes ☒ No ☐ To what depth? 26' ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☐

Type of water?     Depth of strata    

Method of sealing strata off    

(7) PUMP: Manufacturer's Name      
Type:     H.P.    

(8) WATER LEVELS: Land surface elevation above mean sea level     ft.  
Static level 204 ft. below top of well Date 11/14/98  
Artesian pressure     lbs. per square inch Date      
Artesian water is controlled by     (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes ☐ No ☐ If yes, by whom?      
Yield:     gal./min. with     ft. drawdown after     hrs.

" " " "

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time Water Level Time Water Level Time Water Level

Date of test    

Bailer test     gal./min. with     ft. drawdown after     hrs.

Artest     gal./min. with stem set at 230 ft. for 2 hrs.

Artesian flow     g.p.m. Date    

Temperature of water     Was a chemical analysis made? Yes ☐ No ☐

## (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
HARD PAN	0	20
BOULDERS / GRAVEL	20	100
SAND GRAVEL	100	110
GRAVEL / BOULDERS	110	208
GRAVEL WATER	208	236
GRAVEL WATER	236	246

RECEIVED

MAY 14 1999

DEPARTMENT OF ECOLOGY  
WELL DRILLING UNIT

Work Started 11/11 19. Completed 11/16 19 98

## WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME Dean Brothers Drilling Inc.  
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

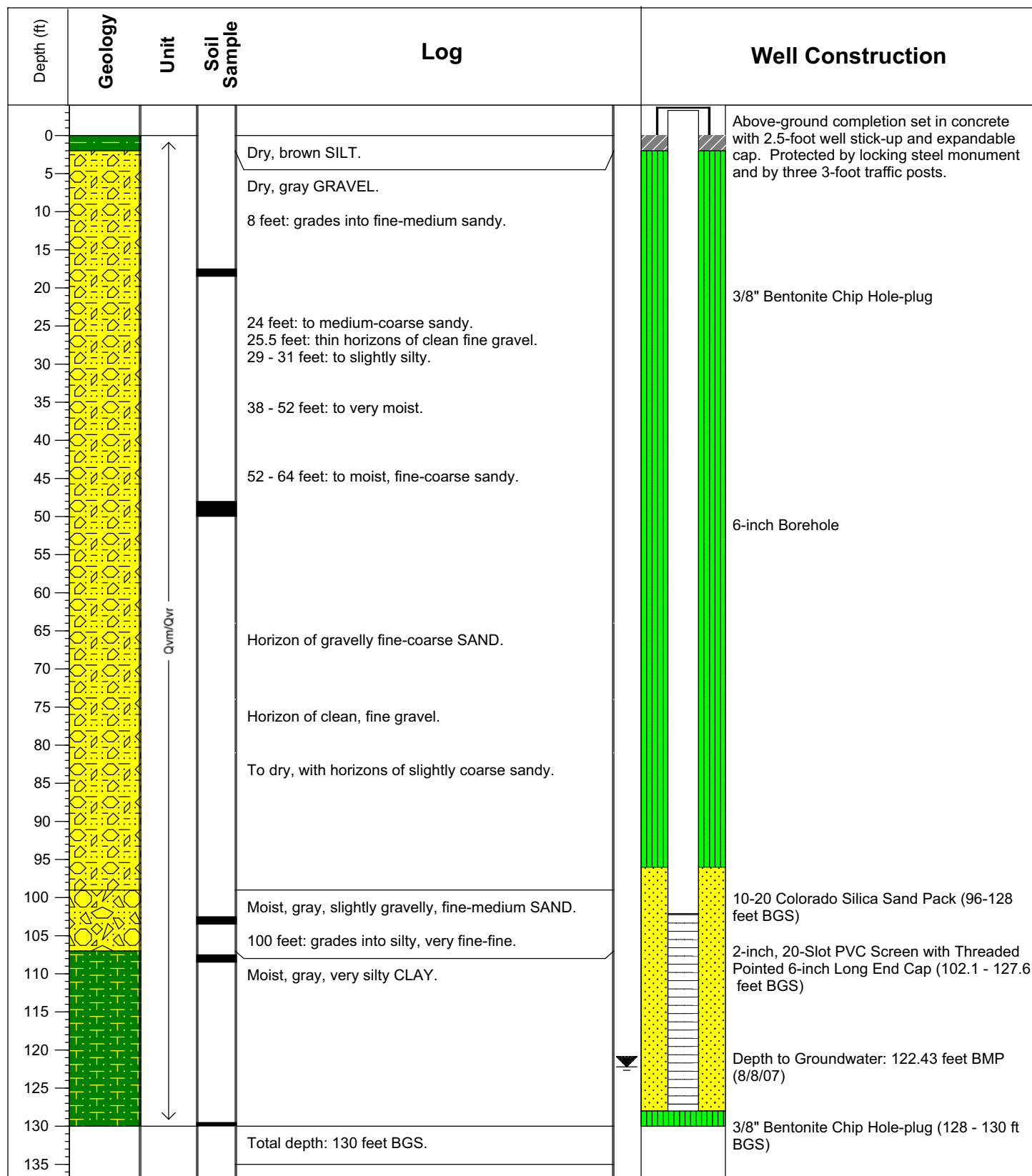
Address 7804 Diagonal Rd. SE.

(Signed) David MacCartney License No. 2378  
(WELL DRILLER)

Contractor's Registration No. DEANBROTDRILLW Date 11/16/98 19 98

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.



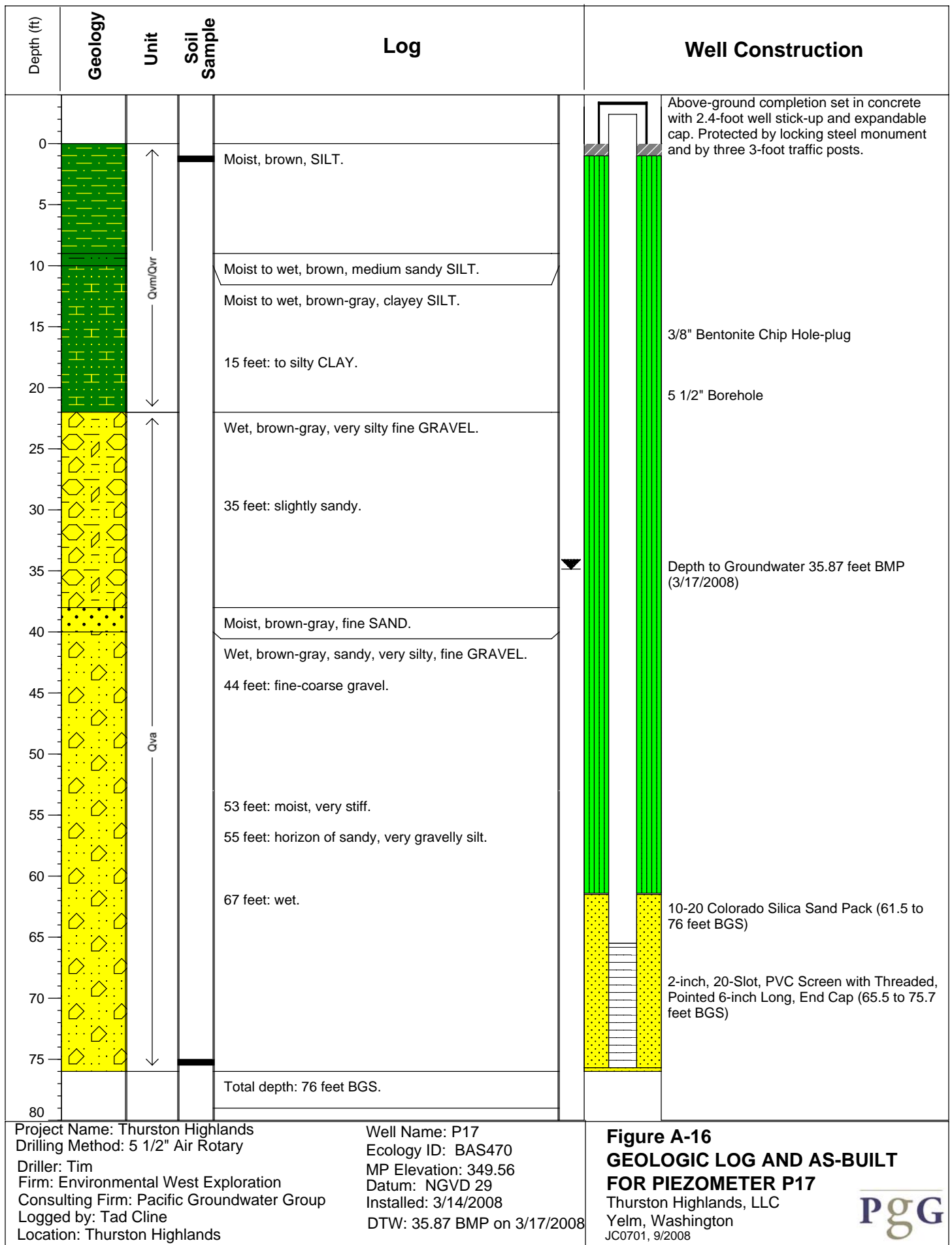
Project Name: Thurston Highlands  
 Drilling Method: 5 1/2" Air Rotary  
 Driller: Ron  
 Firm: Environmental West Exploration  
 Consulting Firm: Pacific Groundwater Group  
 Logged by: Tad Cline  
 Location: Thurston Highlands

Well Name: P10  
 Ecology ID: APC078  
 MP Elevation: 483.71  
 Datum: NGVD 29  
 Installed: 8/7 - 8/2007  
 DTW: 122.43 BMP on 8/8/2007

**Figure A-10**  
**GEOLOGIC LOG AND AS-BUILT**  
**FOR PIEZOMETER P10**

Shea, Carr, Jewell  
 Yelm, Washington  
 JC0701, 8/2007





The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.

# RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. R59967

Construction/Decommission ("x" in circle) 303327  
☒ Construction  
☐ Decommission Original Construction Notice  
of Intent Number \_\_\_\_\_

Type of Well ("x" in circle)  
☒ Resource Protection  
☐ Geotech Soil Boring

Property Owner Thurston Highlands Assoc. LLC  
Unique Ecology Well ID Tag No BA3470  
Consulting Firm Pacific Groundwater Group  
Driller or Trainee Name Timothy S. Smith  
Driller or Trainee Signature [Signature]  
Driller or Trainee License No. 2837

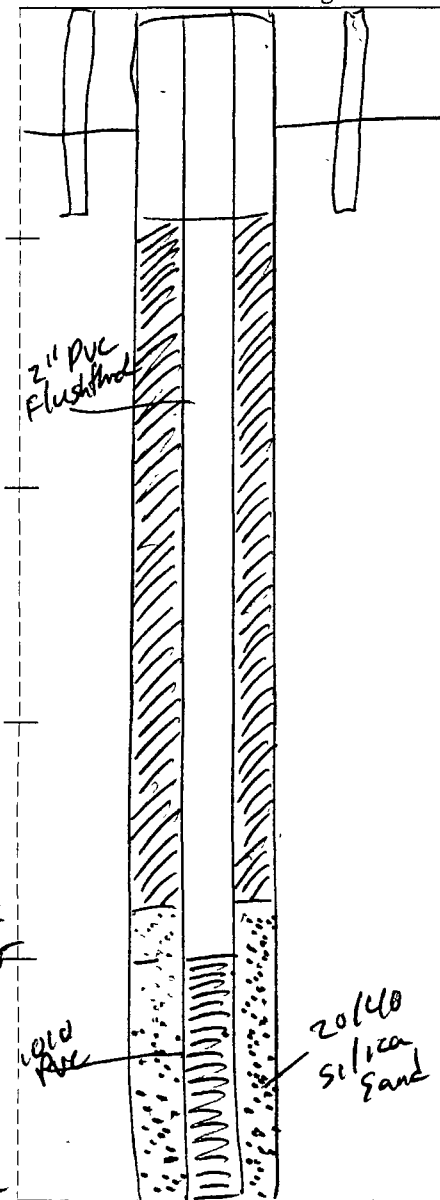
Site Address SW Longmire St  
City Yelm County Thurston  
Location NE 1/4- 1/4 NW 1/4 Sec 26 Twn 17N R 1 ☒ circle or one WWM  
Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_  
still REQUIRED) Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_  
Tax Parcel No 21726200000  
Cased or Uncased Diameter \_\_\_\_\_ Static Level 60'  
Work/Decommission Start Date 3/14/08  
Work/Decommission Completed Date 3/14/08

If trainee, licensed driller's  
Signature and License no. \_\_\_\_\_

## Construction/Design

## Well Data

## Formation Description



Drilled method: 6" tubex  
Air Rotary  
casing: 2" sch 40 PVC  
+ 25' - 65'  
screen 2" sch 40 PVC  
65' - 75' 100%  
seal: 20/40 silica sand  
62' - 75'  
seal: Bentonite chips  
3' - 62'

	0
Silt	9
sandy silt	10
clayey silt silty clay	22
silty gravel	38
seal	40
silty gravel	53
very silty tight gravel	

RECEIVED  
MAY 15 2008

Washington State  
Department of Ecology

Please print, sign and return to the Department of Ecology



# Water Well Report

Original - Ecology, 1<sup>st</sup> copy - owner, 2<sup>nd</sup> copy - driller

## Construction/Decommission

☒ Construction☐ Decommission ORIGINAL INSTALLATION Notice of Intent Number

1786003

PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal  
☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other

TYPE OF WORK: Owner's number of well (if more than one)  
☒ New well ☐ Reconditioned Method: ☐ Dug ☐ Bored ☐ Driven  
☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted

DIMENSIONS: Diameter of well 6 inches, drilled 117 ft.  
 Depth of completed well 117 ft.

### CONSTRUCTION DETAILS

Casing ☒ Welded 6" Diam. from 0 ft. to 117 ft.  
 Installed: ☐ Liner installed " Diam. from " ft. to " ft.  
☐ Threaded " Diam. from " ft. to " ft.

Perforations: ☐ Yes ☒ No

Type of perforator used  
 SIZE of perfs " in. by " in. and no. of perfs from " ft. to " ft.

Screens: ☐ Yes ☒ No ☐ K-Pac Location  
 Manufacturer's Name

Type Model No.  
 Diam. Slot size from " ft. to " ft.  
 Diam. Slot size from " ft. to " ft.

Gravel/Filter packed: ☐ Yes ☒ No ☐ Size of gravel/sand  
 Materials placed from " ft. to " ft.

Surface Seal: ☒ Yes ☐ No To what depth? 18 ft.  
 Material used in seal Bentonite chips

Did any strata contain unusable water? ☐ Yes ☐ No  
 Type of water? Depth of strata

Method of sealing strata off

PUMP: Manufacturer's Name  
 Type: H.P.

WATER LEVELS: Land-surface elevation above mean sea level ft.

Static level 22 ft. below top of well Date 7-12-05

Artesian pressure lbs. per square inch Date

Artesian water is controlled by (cap, valve, etc.)

WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: gal./min. with ft. drawdown after hrs.

Yield: gal./min. with ft. drawdown after hrs.

Yield: gal./min. with ft. drawdown after hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test

Bailer test gal./min. with ft. drawdown after hrs.

Airtest 13-15 gal./min. with stem set at 100 ft. for 2.5 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? ☐ Yes ☐ No

Current

Notice of Intent No. W189951

Unique Ecology Well ID Tag No. AKM-893

Water Right Permit No. EXEMPT

Property Owner Name Pat THOMAS

Well Street Address 14628 GEORGE RD SE

City YALM County Thurston

Location NW 1/4-1/4 NW 1/4 Sec 25 Twp 17N R 1E

Lat/Long (s, t, r) Lat Deg Lat Min/Sec

still REQUIRED ) Long Deg Long Min/Sec

Tax Parcel No. 21725220302

### CONSTRUCTION OR DECOMMISSION PROCEDURE

Formation: Describe by color, character, size of material and structure, and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information indicate all water encountered. (USE ADDITIONAL SHEETS IF NECESSARY.)

MATERIAL	FROM	TO
brn sand	0	10
dry brn sand	10	30
grey coarse sand -		
gravel - Active	30	62
fine silt + lg gravel	62	84
grey silt	84	96
dense brn sand +		
gravels w/ boulders	96	117

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AUG 25 2005

 Washington State  
 Department of Ecology

Start Date 7-11-05

Completed Date 7-12-05

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller/Engineer/Trainee Name (Print) John Arfman

Driller/Engineer/Trainee Signature

Driller or trainee License No. 2673

IF TRAINEE.

Driller's Licensed No.

Driller's Signature

Drilling Company Hart Drilling/Boat Longyear


Address PO Box 1890

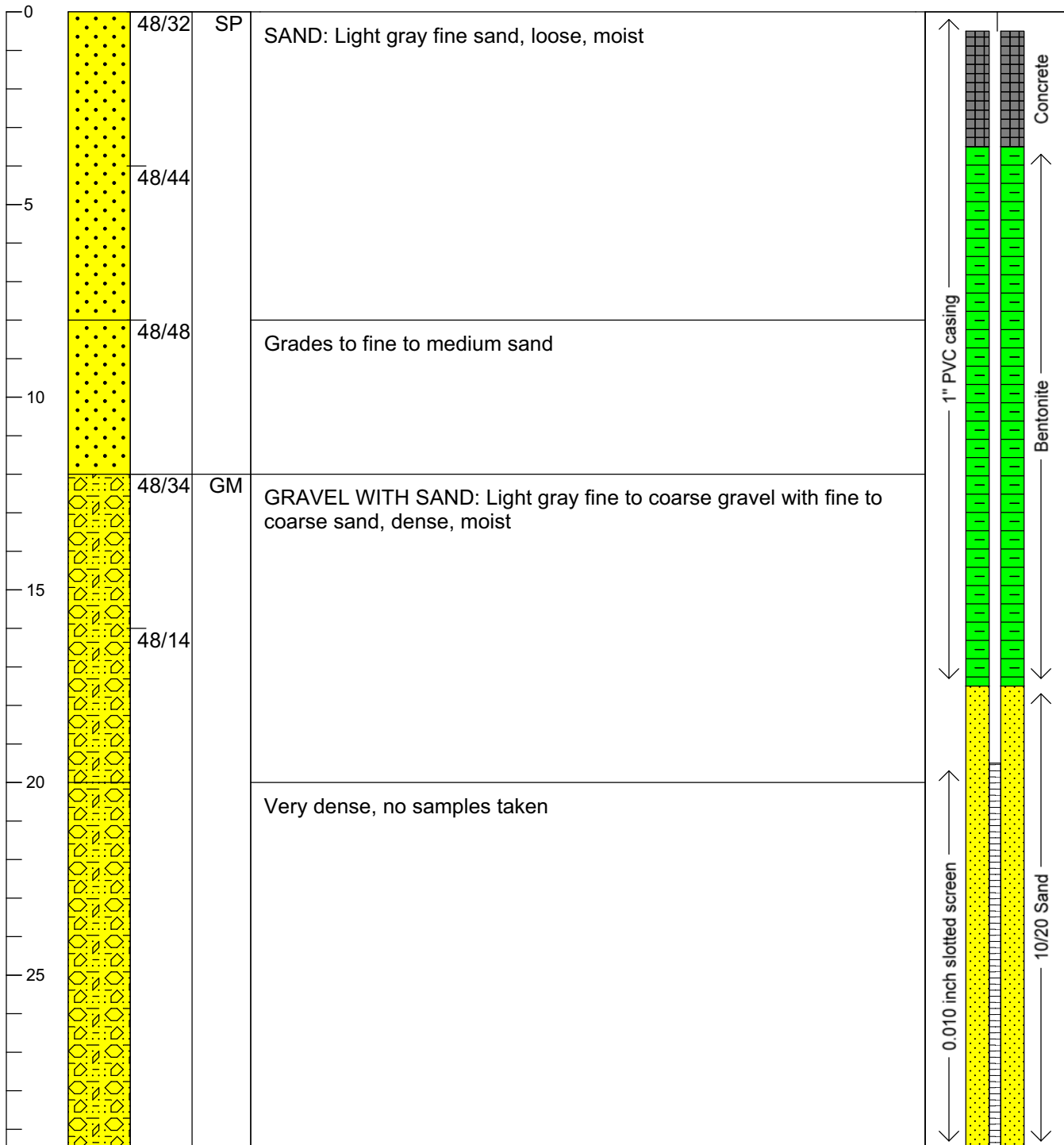
City, State, Zip MILTON WA 98354

Contractor's

Registration No. BOAT LC055P2 Date 7-28-05

Ecology is an Equal Opportunity Employer. ECY 050-1-20 (Rev 2/03)

Project Name : <b>Tahoma Terra</b>		Well No. : <b>MW-3</b>			
Location : Yelm		DOE Well No. : APF 880			
Drilling Contractor : ESN NW		<b>WELL INFORMATION</b>			
Drilling Equipment : Power Probe 9500		Total Depth : 29.5 Feet			
Driller : Don Harnden		Casing : 17.5' x 1"			
Logged By : Kevin Vandehey		Screen Length : 10'x1"			
Date : 6/8/07		Filter Pack : 10/20 sand			
Depth to water : N/A		Seal : No. 8 Bentonite			
Depth/Feet	Lithology	Inches Driven /Recovery	USCS	SOIL DESCRIPTION	Well Construction





# RECORD OF BOREHOLE THOMPSON CREEK MW

SHEET 1 of 1








PROJECT: Yelm Groundwater Study  
PROJECT NUMBER: 043-1328  
LOCATION: Thompson Creek

DRILLING DATE: 11-9-05  
DRILLING METHOD: Hollow Stem Auger  
DRILL RIG: Canterra CT 450 #123

DATUM:  
AZIMUTH: N/A  
COORDINATES: not surveyed

ELEVATION: Not Surveyed  
INCLINATION: -90

PORTLAND GEOLOGICAL LOG THOMPSON CREEK.GPJ GLDR\_WA.GDT 5/9/06

DEPTH (ft)	SOIL PROFILE		SAMPLES		FIELD OBSERVATIONS	WELL CONSTRUCTION
	DESCRIPTION	Geological Unit	GRAPHIC LOG	TYPE	NUMBER	COMMENTS
0	0.0 - 2.0 <b>SANDY SILT w/ GRAVEL</b> dark grayish brown (moist 10YR 2/2); poorly graded, subrounded gravels 1-2" dia.; fine sands; very soft	ML				
	2.0 - 6.0 <b>WELL-GRADED GRAVEL w/ SILT and SAND</b> dark brown (moist 10YR 3/3); subrounded/subangular gravels 1-2" dia.	GW-GM				
5	6.0 - 7.5 <b>POORLY GRADED SAND w/ GRAVEL</b> brown (moist 10YR 4/3); trace gravels subrounded/subangular to 1" dia.; soft; moist	SP				
	7.5 - 10.0 <b>WELL-GRADED GRAVEL w/ SILT and SAND</b> brown (moist 10YR 4/3); gravels to 3/4" dia.; moist	GW-GM				
10	10.0 - 15.0 Same as above; dark grayish brown (moist 10YR 4/2); trace gravels to 1" dia.; fine sands	GW-GM				
	15.0 - 16.0 <b>POORLY GRADED SAND</b> greenish gray (wet 10GY 5/1); trace silt; soft	SP				
15	16.0 - 17.0 <b>SILT</b> greenish gray (moist 5GY 5/1); soft	ML				
	Boring completed at 17.0 ft.					
20						

Water encountered at 12' bgs.

3/8" bentonite chips

1" S/40 solid PVC pipe

1" S/40, 0.010 slotted prefabricated screened well

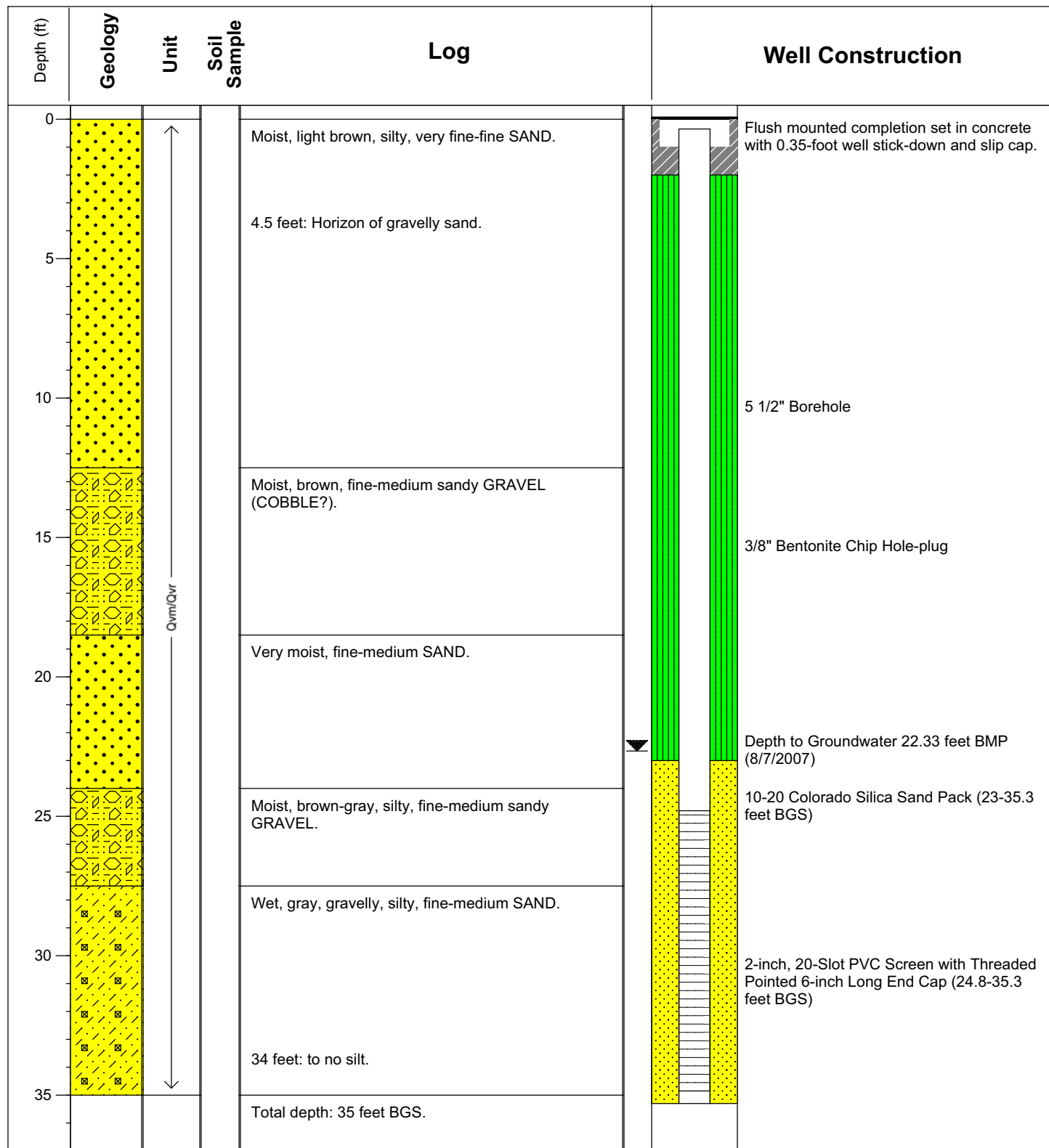
Colorado sand filter (10 x 20 mesh size)

BOH

DRILLING CONTRACTOR: Holt Drilling, Inc.  
DRILLER: Ken Phillips

LOGGED: Ken Janssen  
CHECKED: Mark Wirganowicz  
DATE: 5/8/2006





Project Name: Thurston Highlands  
 Drilling Method: 5 1/2" Air Rotary  
 Driller: Ron  
 Firm: Environmental West Exploration  
 Consulting Firm: Pacific Groundwater Group  
 Logged by: Tad Cline  
 Location: Thurston Highlands

Well Name: P12  
 Ecology ID: APC076  
 MP Elevation: 337.42  
 Datum: NGVD 29  
 Installed: 8/6/2007  
 DTW: 22.33 BMP on 8/7/2007

**Figure A-12**  
**GEOLOGIC LOG AND AS-BUILT**  
**FOR PIEZOMETER P12**

Shea, Carr, Jewell  
 Yelm, Washington  
 JC0701, 8/2007



## RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. R 71618

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission (select one)

☒ Construction☐ Decommission ORIGINAL INSTALLATION Notice

273203

of Intent Number

Consulting Firm Pacific Groundwater Group

Unique Ecology Well ID

Tag No. APC076 P-12

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (Print)

Driller/Engineer /Trainee Signature

Driller or Trainee License No.

If trainee, licensed driller's

Signature and License No.

Type of Well (select one)

☒ Resource Protection☐ Geotech Soil BoringProperty Owner Thurston Highlands LLCSite Address West Yelm undevelopedCity Yelm County ThurstonLocation NE 1/4-1/4 SW 1/4 Sec 24 Twn 17 R 1Select One ☒ EWM☐ WWM

Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_

still REQUIRED)

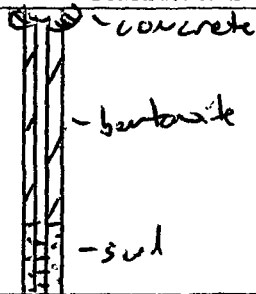
Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_

Tax Parcel No. 78640000010Cased or Uncased Diameter 6" Static Level 24'Work/Decommission Start Date 8/6/07Work/Decommission Completed Date 8/6/07

Construction/Design

Well Data

Formation Description



Drill Method: Air Rotary  
 Casing: 2" sch 40 PUL 5 to 25'  
 Screen: 2" sch 40 PUL .020 25' to 35'  
 Sand: 10/20 22 to 35'  
 Seals: Bentonite chips 2 to 22'

silty sands  
 w/ gravels

SCALE: 1"= 35'PAGE 1 OF 1

RECEIVED  
 OCT 14 2007  
 Washington State  
 Department of Ecology

WATER WELL REPORT  
STATE OF WASHINGTONStart Card No. 012495  
Water Right Permit No.

(1) OWNER: Name WILLWEIT SIDNEY & KATHY Address 14812 BERRY VALLEY RD YELM, WA 98597-  
(2) LOCATION OF WELL: County THURSTON - SE 1/4 NW 1/4 Sec 24 T 17 N., R 1E WM  
(2a) STREET ADDRESS OF WELL (or nearest address) SAME

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG

(4) TYPE OF WORK:

Owner's Number of well  
(If more than one)  
Method: AIR ROTARY

NEW WELL

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS:

Diameter of well 06 inches

Drilled 90 ft. Depth of completed well 90 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 06 " Dia. from 0 ft. to 90 ft.  
WELDED " Dia. from ft. to ft.  
" Dia. from ft. to ft.

MATERIAL

TOPSOIL  
TOPSOIL GRAVEL COBBLES  
GRAVEL COBBLES SEEPAGE  
CLAY GRAVEL COBBLES  
LOOSE GRAVEL CLAY AND WATER  
SAND GRAVEL WATER

FROM	TO
0	2
2	5
5	19
19	77
77	82
82	90

Perforations: NO

Type of perforator used  
SIZE of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

Screens: NO

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

Gravel packed: NO

Gravel placed from ft. to ft. Size of gravel

Surface seal: YES

Material used in seal BENTONITE CLAY To what depth? 10 ft.

Did any strata contain unusable water? NO

Type of water? Depth of strata ft.

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type H.P.

(8) WATER LEVELS:

Land-surface elevation  
Static level 22 ft. above mean sea level ... ft.  
ft. below top of well Date 04/17/89  
Artesian Pressure lbs. per square inch Date / /  
Artesian water controlled by

Work started 04/17/89

Completed 04/17/89

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?  
Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test / /

Bailer test gal/min. ft. drawdown after hrs.

Air test 20 gal/min. w/ stem set at 85 ft. for 1 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME RICHARDSON WELL DRILLING

(Person, firm, or corporation) (Type or print)

ADDRESS PO BOX 4427 TACOMA WA 98

[SIGNED] *Richardson* License No. 1424Contractor's  
Registration No. RICHAN#32108

Date 05/11/89



File Original and First Copy with  
Department of Ecology  
Second Copy — Owner's Copy  
Third Copy — Driller's Copy

# WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. W123417

UNIQUE WELL I.D. # ACY777

Water Right Permit No.

(1) OWNER: Name HOFFMAN, JESSE Address 9910 DURANT ST, S.E. YELM, WA 98597

(2) LOCATION OF WELL: County THRUSTON SE 1/4 NW 24 T. 17 N. R. 1E W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 9910 DURANT ST. SE YELM, WA 98597

(3) PROPOSED USE: ☒ Domestic ☐ Industrial ☐ Municipal ☐  
☐ Irrigation ☐ Test Well ☐ Other ☐  
☐ DeWater

(4) TYPE OF WORK: Owner's number of well (if more than one) \_\_\_\_\_  
Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 137 feet. Depth of completed well 137 ft.

(6) CONSTRUCTION DETAILS: Casing installed: 6 Diam. from +1.5 ft. to 137 ft.  
Welded ☒ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Liner installed ☐ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Threaded ☐ Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒  
Type of perforator used \_\_\_\_\_  
SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☒  
Manufacturer's Name \_\_\_\_\_  
Type \_\_\_\_\_ Model No. \_\_\_\_\_  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Gravel packed: Yes ☐ No ☒ Size of gravel \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.  
Material used in seal BENTONITE CHIPS  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ H.P. \_\_\_\_\_

(8) WATER LEVELS: Land-surface elevation above mean sea level \_\_\_\_\_ ft.  
Static level 31 ft. below top of well Date 12/30/99  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

" " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_

Bailer test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Airstest 15 gal./min. with stem set at 135 ft. for 1 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☒

## (10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.

MATERIAL	FROM	TO
BROWN BOULDERS COBBLES GRAVEL SAND SILT	0	30
DARK BROWN COBBLES LOOSE GRAVEL SAND SILT WET	30	33
BROWN BOULDERS COBBLES GRAVEL SAND SILT SOME WATER	33	40
GRAY SILTY SAND WET	40	50
GRAY CLAY	50	65
GRAY COBBLES GRAVEL SAND CLAY	65	70
BROWN COBBLES GRAVEL SAND SILT WET SOME WATER	70	74
BROWN COBBLES GRAVEL SAND SILT WET	74	90
BROWN COBBLES GRAVEL SAND SILT SOME WATER 3-5 GPM	90	103
REDDISH BROWN COBBLES GRAVEL SAND SILT SOME WATER 3-5 GPM	103	112
BROWN COBBLES GRAVEL SAND SILT SOME WATER 5-7 GPM	112	120
BROWN COARSE GRAVEL SAND SILT WATER	120	137

Work Started 12/29/99 Completed 12/30/99 19\_\_

## WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME TACOMA PUMP & DRILLING (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 30316 MTN. HWY. GRAHAM, WA 98338

(Signed) [Signature] License No. 2432  
(WELL DRILLER)

Contractor's Registration No. TACOMPD203PF Date 1/24/00 19\_\_

(USE ADDITIONAL SHEETS IF NECESSARY)

Ecology is an Equal Opportunity and Affirmative Action employer. For special accommodation needs, contact the Water Resources Program at (206) 407-6600. The TDD number is (206) 407-6006.

(1) OWNER: Name Ted Foreid

Address Rt. 3 Box 3861 Yelm, Wa. 98597

**(2) LOCATION OF WELL:** County Thurston

SW ¼ NE ¼ Sec. 24 T. 17 N., R. 1E W.M.

**Bearing and distance from section or subdivision corner**

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one)..... 1

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input checked="" type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) **DIMENSIONS:** Diameter of well ..... 6 ..... inches.  
 Drilled ..... 64 ..... ft. Depth of completed well ..... 61 ..... ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 6 " Diam. from 0 ft. to 61 ft.  
 Threaded ☐ " Diam. from " ft. to " ft.  
 Welded ☒ " Diam. from " ft. to " ft.

**Perforations:** Yes ☐ No ☒

Type of perforator used \_\_\_\_\_

SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**Screens:** Yes ☐ No ☒

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

**Gravel packed:** Yes ☐ No ☒ **Size of gravel:** .....  
**Gravel placed from** ..... **ft. to** ..... **ft.**

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.  
Material used in seal Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name.....None.....  
Type: ..... H.P.

**(8) WATER LEVELS:** Land-surface elevation .....ft.  
 Static level 48 .....ft. above mean sea level.  
 ft. below top of well Date 11-28-73  
 Artesian pressure .....lbs. per square inch Date.....  
 Artesian water is controlled by..... (Cap. valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield: gal./min. with ft. drawdown after hrs.

12	24	36	48
12	24	36	48

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test \_\_\_\_\_  
 Bailer test 15 gal./min. with 5 ft. drawdown after 1 hrs.  
 Artesian flow \_\_\_\_\_ g.p.m. Date 11-28-73  
 Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:**

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil & sand	0	2
Gravel & boulders	2	20
Seepage	20	21
Clay gravel & boulders	21	45
Yellow clay	45	51
Gray clay	51	53
Clay gravel & sand	53	59
Water & gravel	59	61

SECRET

001

SOUTHWEST REGIONAL OFFICE

Work started 11-28, 19 73 Completed 11-28, 19 73

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Co.  
(Person, firm, or corporation) (Type or print)

Address 219 So. 115th Tacoma, Wa. 98404

[Signed] Walter J. Carlson  
(Well Driller)

License No. 223-02-6500 Date 12-13, 1973

# WATER WELL REPORT

STATE OF WASHINGTON

Application No. ....

Permit No. ....

(1) OWNER: Name William C. Gibby Address Rt. # 1 Box 1940-9, Yelm, Wa. 98597  
(2) LOCATION OF WELL: County Thurston NE 1/4 NE 1/4 Sec 24 T 17 N. R. 1E W.M.  
Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 83 ft. Depth of completed well 83 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 83 ft.  
Threaded ☐ " Diam. from ..... ft. to ..... ft.  
Welded ☒ " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒

Type of perforator used .....  
SIZE of perforations ..... in. by ..... in.  
..... perforations from ..... ft. to ..... ft.  
..... perforations from ..... ft. to ..... ft.  
..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒

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

Gravel packed: Yes ☐ No ☒ Size of gravel: .....  
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.  
Material used in seal Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? ..... Depth of strata .....  
Method of sealing strata off .....

(7) PUMP: Manufacturer's Name .....  
Type: ..... HP

(8) WATER LEVELS: Land-surface elevation above mean sea level ..... ft.  
Static level 42 ft. below top of well Date 1/13/76  
Artesian pressure ..... lbs. per square inch Date .....  
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....  
Yield: gal./min. with ..... ft. drawdown after ..... hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....  
Bailer test 15 gal./min. with 25 ft. drawdown after 1 hrs.  
Artesian flow ..... g.p.m. Date 1/13/76  
Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

## (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil & gravel	0	1
Gravel, boulders & clay	1	12
Hardpan & boulders	12	40
Gravel, little water	40	43
Clay, gravel & Boulders	43	79
Clay & gravel, water	79	83

RECEIVED

MAR 2 1976

DEPARTMENT OF ECOLOGY  
WATER RESOURCES DIVISION

Work started 1/12/76, 19 76 Completed 1/13/76, 19 76

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Company  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 44408, Tacoma, Wa. 98444

[Signature] Richardson  
(Well Driller)

License No. 223-02-6500 Date February 25, 1976

# WATER WELL REPORT

STATE OF WASHINGTON

Application No. ....

Permit No. ....

(1) OWNER: Name Douglas L. Cameron Address Rt. # 3 Box 3249, Yelm, Wa. 98597

(2) LOCATION OF WELL: County Thurston NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec. 24 T. 17 N. R. 1E W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) .....  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 84 ft. Depth of completed well 80 ft.

## (6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from 0 ft. to 80 ft.  
Threaded ☐ " Diam. from ..... ft. to ..... ft.  
Welded ☒ " Diam. from ..... ft. to ..... ft.

Perforations: Yes ☐ No ☒

Type of perforator used .....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Screens: Yes ☐ No ☒

Manufacturer's Name .....

Type ..... Model No. ....

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes ☐ No ☒ Size of gravel: .....

Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes ☐ No ☒

Type of water? ..... Depth of strata .....

Method of sealing strata off .....

(7) PUMP: Manufacturer's Name Jacuzzi Bros., Inc.  
Type: Submersible, 5S4B HP 1/2

(8) WATER LEVELS: Land-surface elevation above mean sea level ..... ft.

Static level 35 ft. below top of well Date 7/8/74

Artesian pressure ..... lbs. per square inch Date .....

Artesian water is controlled by .....  
(Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield: gal./min. with ..... ft. drawdown after ..... hrs.

" " " " "

" " " " "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

## (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top soil	0	5
Sand & gravel	5	20
Hardpan	20	40
Gray clay, gravel & some water	40	60
<del>Gray clay &amp; gravel</del>	<del>60</del>	<del>78</del>
Gray clay & gravel	60	78
Gravel, water	78	80
Boulder	80	84

RECEIVED

AUG 21 1974

DEPARTMENT OF ECOLOGY  
SOUTHWEST REGIONAL OFFICE

Work started 7/8/, 1974 Completed 7/8/, 1974

## WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Company  
(Person, firm, or corporation) (Type or print)

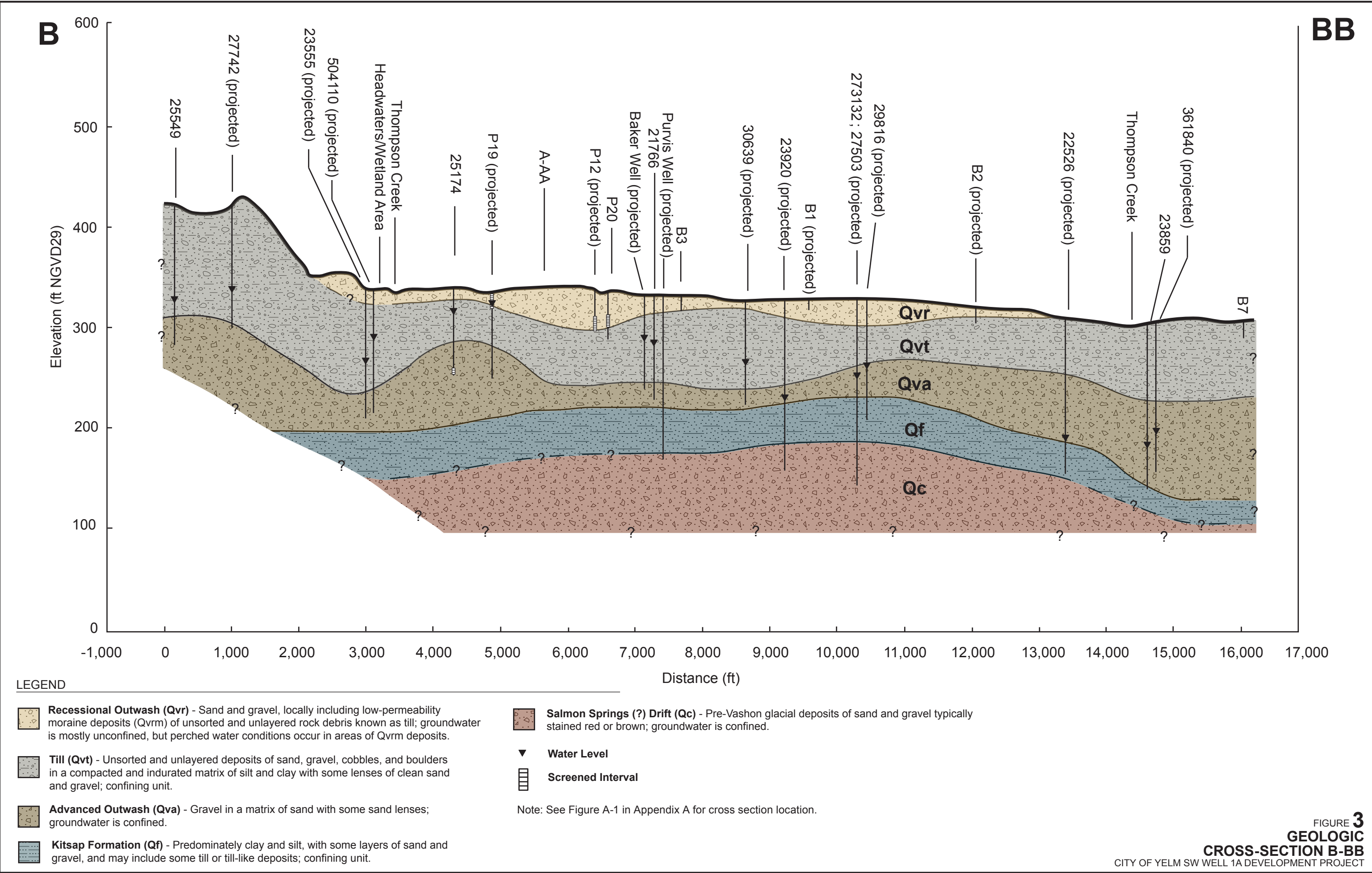
Address P.O. Box 44408, Tacoma, Wa. 98444

[Signed] W. H. Richardson  
(Well Driller)

License No. 223-02-6500 Date August 20, 1974

(USE ADDITIONAL SHEETS IF NECESSARY)





WATER WELL REPORT  
STATE OF WASHINGTONStart Card No. 012479  
Water Right Permit No.

(1) OWNER: Name FORRESTER, JAMES Address PO BOX 524 YELM, WA 98597-

(2) LOCATION OF WELL: County THURSTON - NW 1/4 SE 1/4 Sec 25 T 17 N., R 1E WM  
(2a) STREET ADDRESS OF WELL (or nearest address) 15140 FOX HILL RD

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well  
(If more than one)  
NEW WELL Method: AIR ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 136.7 ft. Depth of completed well 136.7 ft.(6) CONSTRUCTION DETAILS:  
Casing installed: 6 Dia. from 0 ft. to 136.7 ft.  
WELDED Dia. from ft. to ft.  
Dia. from ft. to ft.

MATERIAL	FROM	TO
TOPSOIL COBBLES	0	04
HARDPAN COBBLES BOULDERS	04	16
CLAY GRAVEL COBBLES	16	32
GRAVEL SILTY	32	40
CLAY GRAVEL	40	44
GRAVEL CLAY BAND	44	60
GRAVEL CLAY SEEPAGE	60	98
HARDPAN GRAVEL	98	101
LOOSE GRAVEL CLAY	101	111
LOOSE SAND GRAVEL	111	128
LOOSE SAND GRAVEL	128	136.7

Perforations: NO

Type of perforator used

SIZE of perforations

	in.	by	in.
perforations from	ft.	to	ft.
perforations from	ft.	to	ft.
perforations from	ft.	to	ft.

Screens: NO

Manufacturer's Name

Type

Model No.

Diam.

slot size

from

ft. to

ft.

Diam.

slot size

from

ft. to

ft.

Gravel packed: NO

Size of gravel

Gravel placed from

ft. to

ft.

Surface seal: YES

To what depth? 10 ft.

Material used in seal DENTONITE CLAY

Did any strata contain unusable water? NO

Type of water?

Depth of strata ft.

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type

H.P.

(8) WATER LEVELS:

Land-surface elevation

above mean sea level ... ft.

Static level 92 ft. below top of well Date 11/08/88

Artesian Pressure lbs. per square inch Date / /

Artesian water controlled by

Work started 11/04/88

Completed 11/08/88

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Has a pump test made? NO If yes, by whom?

Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

Date of test / /

Bailer test gal./min. ft. drawdown after hrs.

Air test 20 gal./min. w/ stem set at 132 ft. for 1 hrs.

Artesian flow g.p.s. Date

Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME RICHARDSON WELL DRILLING

(Person, firm, or corporation) (Type or print)

ADDRESS P O BOX 44427

(SIGNED) *Richardson* License No. 1424

Contractor's

Registration No. RICHANW32109

Date 12/01/88

(1) OWNER: Name Mr Bud Barton P.O. Box 1091 Yelm Wash 98580  
(2) LOCATION OF WELL: County Thurston Div I TRACT 23 - 1/4 1/4 Sec 25 T. 17 N. R. 1 E W.M.

Bearing and distance from section or subdivision corner      Site 8249. Hobby Acres

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well  
(if more than one).....

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>	
Deepened	<input type="checkbox"/>		Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	<i>AIR</i>	Rotary	<input checked="" type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) **DIMENSIONS:** Diameter of well 6 inches.  
 Drilled 114 ft. Depth of completed well 114 ft.

(6) CONSTRUCTION DETAILS: *Pipes 1 ft Above Grade*

**Casing installed:** 6 " Diam. from 0 ft. to 114 ft.  
 Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**Perforations:** Yes ☐ No ☒ *open bottom*

Type of perforator used \_\_\_\_\_

SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**Screens:** Yes ☐ No ☒

**Manufacturer's Name** \_\_\_\_\_

**Type** \_\_\_\_\_ **Model No.** \_\_\_\_\_

**Diam.** \_\_\_\_\_ **Slot size** \_\_\_\_\_ **from** \_\_\_\_\_ **ft. to** \_\_\_\_\_ **ft.**

**Diam.** \_\_\_\_\_ **Slot size** \_\_\_\_\_ **from** \_\_\_\_\_ **ft. to** \_\_\_\_\_ **ft.**

Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth: 14 ft  
Material used in seal: Bentonite + Portland Cement  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name \_\_\_\_\_  
Type: \_\_\_\_\_ HP

(8) **WATER LEVELS:** Land-surface elevation 1120 ft.  
above mean sea level.  
Static level 80 ft. below top of well Date 3-24-82  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap. valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs

10	20	30	40
.....	.....	.....	.....
.....	.....	.....	.....

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....

Date of test 3-24-82  
 Sailer test 14 gal/min. with 25 ft. drawdown after 1 hr.  
 Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
 Temperature of water 49 Was a chemical analysis made? Yes ☐ No ☐

**(10) WELL LOG:**

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Brown Sand + GRAVEL	0	41
GRAY Till + Large Rocks	41	56
Brown Clay + Damp GRAVEL	56	83
GRAY Clay Binder GRAVEL	83	114
W/B-		

RECEIVED

JUN 10 1982

DEPARTMENT OF ECOLOGY  
SOUTHWEST REGIONAL OFFICE

Work started 3-23, 1982 Completed 3-24, 1982

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME STOICAN DRILLING CO INC  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 161 Sequim Wash-98382

[Signed] Valer Stocani (President) 0473  
(Well Driller)

Tom Halseberg  
License No. 0246- Date 4-29, 1982

RTI Box 176 Eatonville wa 98325  
NECESSARY) Ph- 847-6994

# WATER WELL REPORT

## STATE OF WASHINGTON

Application No. \_\_\_\_\_

Permit No. \_\_\_\_\_

(1) OWNER: Name Delia M. Chambers Address 1612 Sonata Lane, Lake San Marcos, Cal.

(2) LOCATION OF WELL: County Thurston N<sup>2</sup>NE 1/4 NW 1/4 Sec 25 T.17 N. R.1E W.M.  
bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) 1  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches.  
Drilled 123 ft. Depth of completed well 120 ft.

### (6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 120 ft.  
Threaded ☐ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Welded ☒ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Perforations: Yes ☐ No ☒

Type of perforator used \_\_\_\_\_  
SIZE of perforations \_\_\_\_\_ in. by \_\_\_\_\_ in.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Screens: Yes ☐ No ☒

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

Gravel packed: Yes ☐ No ☒ Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.  
Material used in seal Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name Jacuzzi  
Type 184C HP 1

(8) WATER LEVELS: Land-surface elevation \_\_\_\_\_ ft.  
Static level 68 ft. below top of well Date 9-15-77  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_  
Artesian water is controlled by \_\_\_\_\_ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level  
Was a pump test made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_  
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test 9-15-77  
Ballor test 20 gal./min. with 44 ft. drawdown after 1 hrs.  
Artesian flow \_\_\_\_\_ g.p.m. Date \_\_\_\_\_  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes ☐ No ☒

### (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	2
Gravel & Bolders	2	5
Hardpan	5	36
Seepage & Sandy Clay	36	52
Clay	52	61
A little Water	61	63
Hardpan & Bolders	63	102
Yellow Clay & Gravel	102	112
Clay, Gravel & Bolders	112	118
Water & Gravel	118	123

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OCT 21 1977

DEPARTMENT OF ECOLOGY  
SOUTHWEST REGIONAL OFFICE

Work started 9-15- 19 77 Completed 0-15 19 77

### WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Co.  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 44408 Tacoma, Wa. 98444

[Signed] Keith A. Richardson  
(Well Driller)

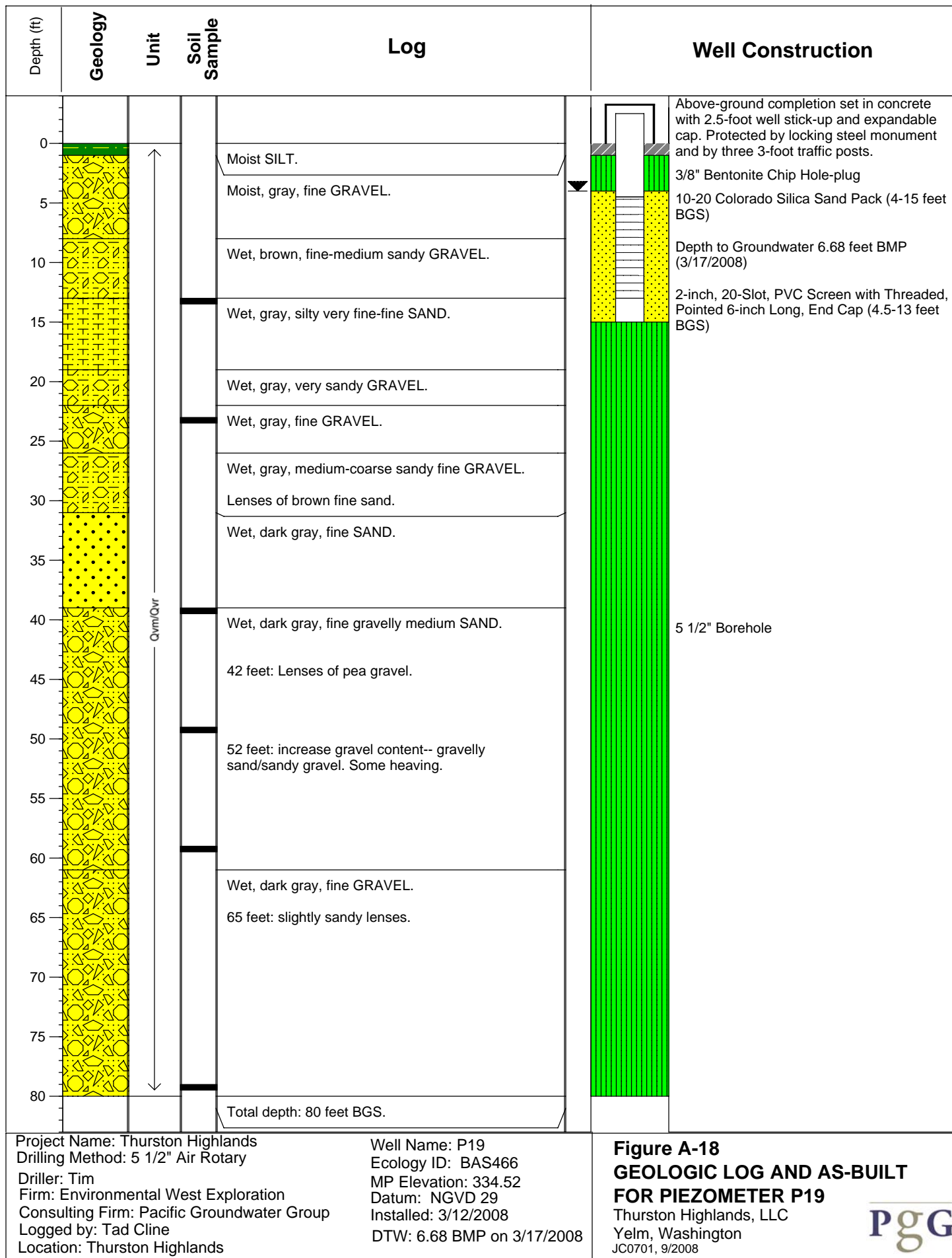
License No. 223-02-6500 Date 9-29 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)





ECY 050-1-20



**RESOURCE PROTECTION WELL REPORT**Notice of Intent No. R59969

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in circle)

☒ Construction☐ Decommission Original Construction Notice  
of Intent Number \_\_\_\_\_303324

Type of Well ("x" in circle)

☒ Resource Protection☐ Geotech Soil BoringProperty Owner Thurston Highlands Assoc. LLCUnique Ecology Well ID Tag No. Bas 467Consulting Firm Pacific Groundwater GroupDriller or Trainee Name Timothy S. SmithDriller or Trainee Signature [Signature]Driller or Trainee License No. 2837

If trainee, licensed driller's

Signature and License no. \_\_\_\_\_

Site Address SW Longmire St.City Yelm County ThurstonLocation SW 1/4- 1/4 NE 1/4 SW 1/4 Sec 24 Twn 12N R 1 ☒ circle or one WWM

Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_

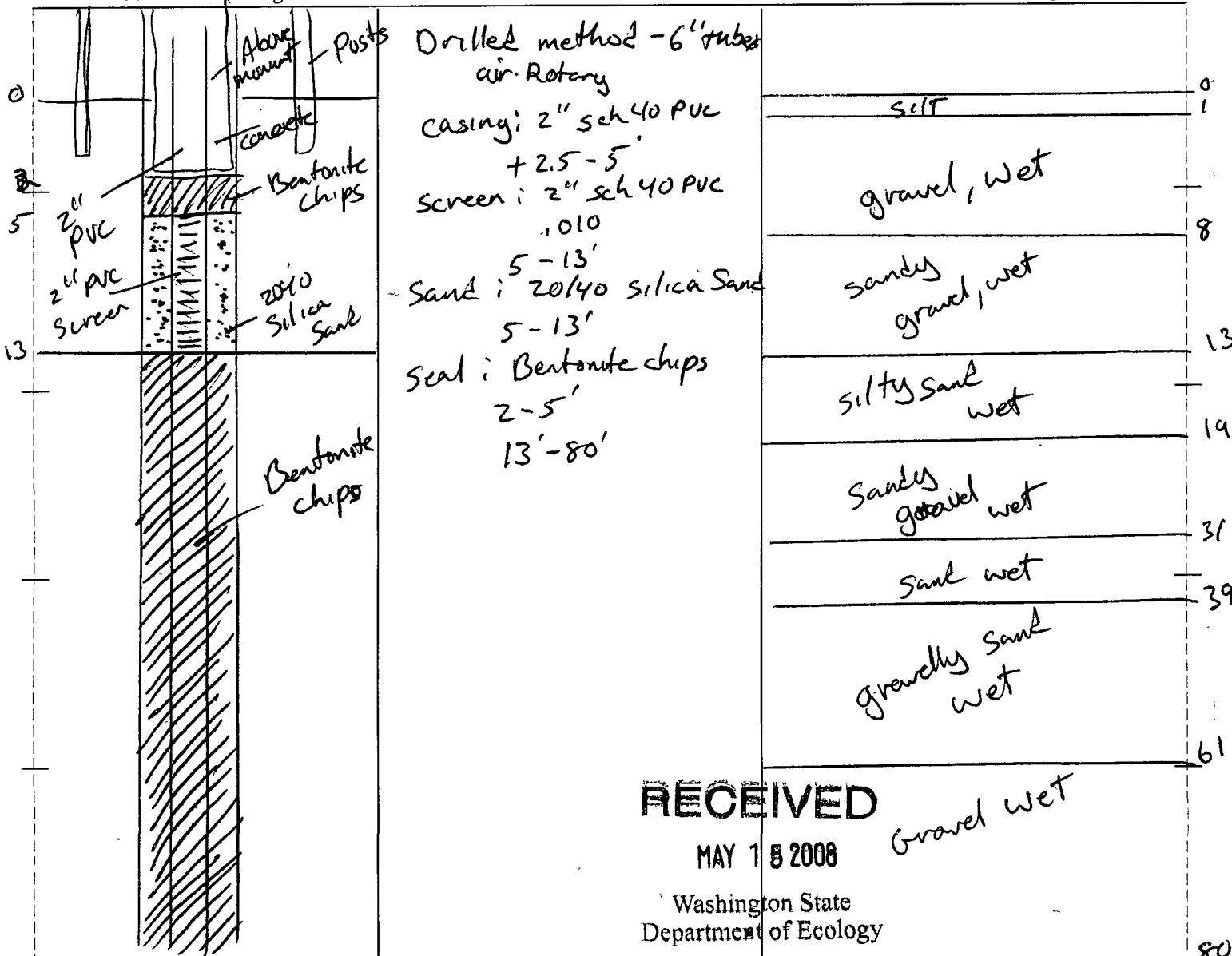
still REQUIRED) Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_

Tax Parcel No. 78640000014Cased or Uncased Diameter 2" Static Level 8'Work/Decommission Start Date 3/12/08Work/Decommission Completed Date 3/12/08

## Construction/Design

## Well Data

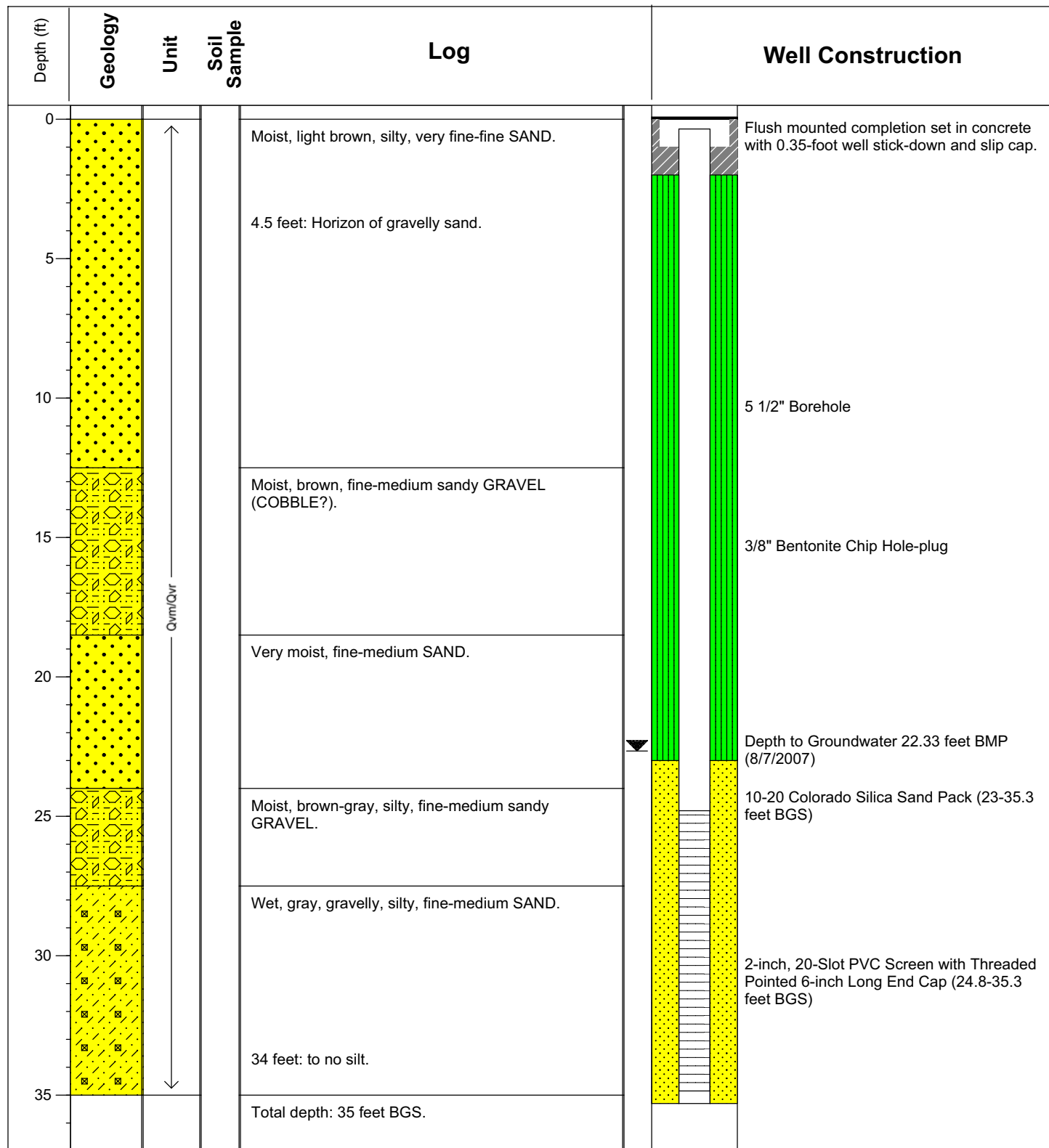
## Formation Description

**RECEIVED**

MAY 15 2008

Washington State  
Department of Ecology





Project Name: Thurston Highlands  
 Drilling Method: 5 1/2" Air Rotary  
 Driller: Ron  
 Firm: Environmental West Exploration  
 Consulting Firm: Pacific Groundwater Group  
 Logged by: Tad Cline  
 Location: Thurston Highlands

Well Name: P12  
 Ecology ID: APC076  
 MP Elevation: 337.42  
 Datum: NGVD 29  
 Installed: 8/6/2007  
 DTW: 22.33 BMP on 8/7/2007

**Figure A-12**  
**GEOLOGIC LOG AND AS-BUILT**  
**FOR PIEZOMETER P12**

Shea, Carr, Jewell  
 Yelm, Washington  
 JC0701, 8/2007



## RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. R 71618

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission (select one)

☒ Construction☐ Decommission ORIGINAL INSTALLATION Notice

273203

of Intent Number

Consulting Firm Pacific Groundwater Group

Unique Ecology Well ID

Tag No. APC076 P-12

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

☒ Driller ☐ Engineer ☐ Trainee Name (Print)

Driller/Engineer /Trainee Signature

Driller or Trainee License No.

If trainee, licensed driller's

Signature and License No.

Type of Well (select one)

☒ Resource Protection☐ Geotech Soil BoringProperty Owner Thurston Highlands LLCSite Address West Yelm undevelopedCity Yelm County ThurstonLocation NE 1/4-1/4 SW 1/4 Sec 24 Twn 17 R 1Select One ☒ EWM☐ WWM

Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_

still REQUIRED)

Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_

Tax Parcel No. 78640000010Cased or Uncased Diameter 6" Static Level 24'Work/Decommission Start Date 8/6/07Work/Decommission Completed Date 8/6/07

Construction/Design

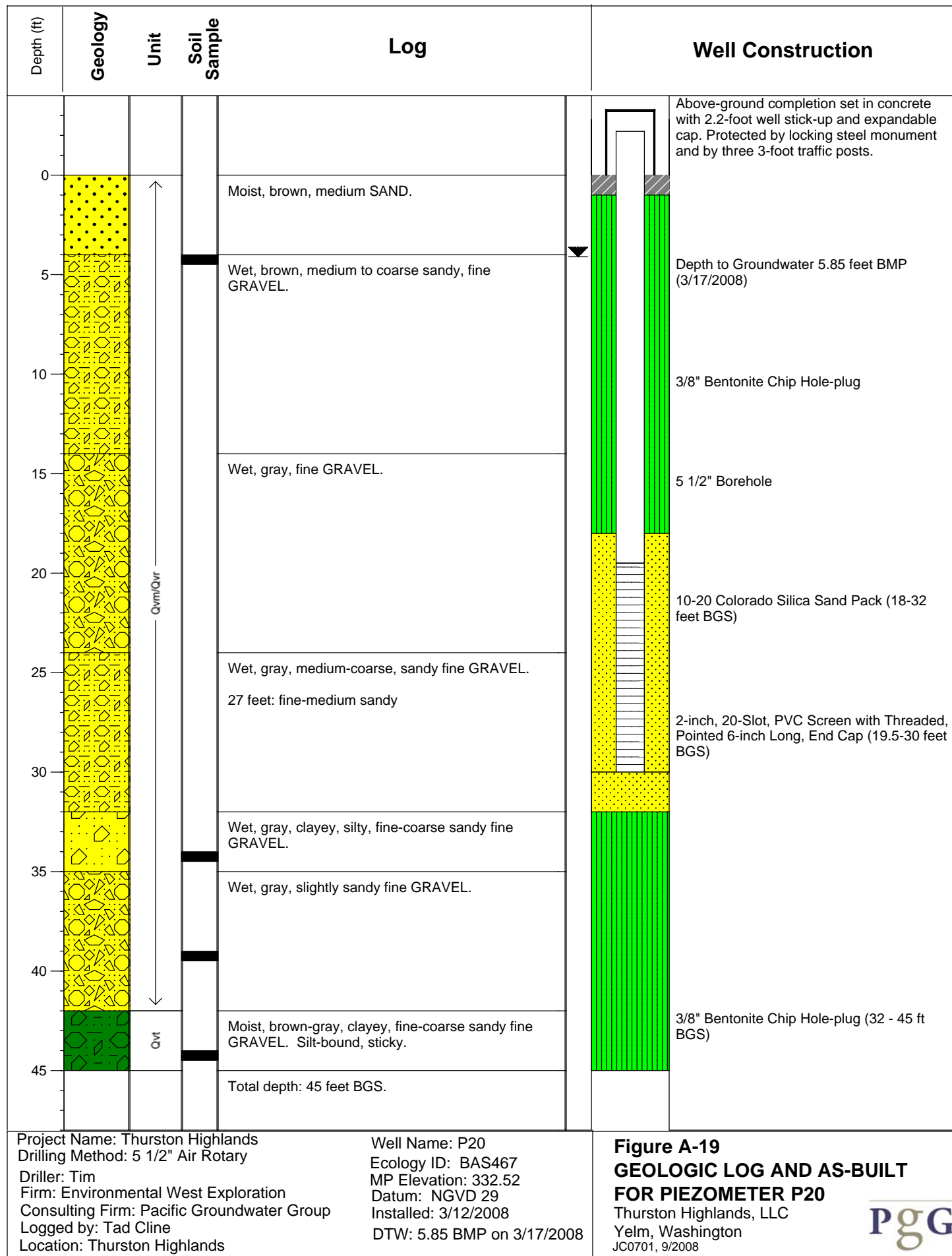
Well Data

Formation Description

<p>concrete bentonite sand</p>	<p>Drill Method: Air Rotary Casing: 2" sch 40 PUL 5 to 25' Screen: 2" sch 40 PUL .020 25' to 35' Sand: 10/20 22 to 35' Seals: Bentonite chaps 2 to 22'</p>	<p>silty sands w/ gravels</p>
<p>35'</p>	<p>35'</p>	<p>35'</p>

RECEIVED  
OCT 04 2007  
Washington State  
Department of Ecology

SCALE: 1"= 35'PAGE 1 OF 1



# RESOURCE PROTECTION WELL REPORT

(SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Notice of Intent No. R59920

Construction/Decommission ("x" in circle)

☒ Construction☐ Decommission Original Construction Notice of Intent Number \_\_\_\_\_303323

Type of Well ("x" in circle)

☒ Resource Protection☐ Geotech Soil BoringProperty Owner Thurston Highlands Assoc. LLCUnique Ecology Well ID Tag No Bas466Consulting Firm Pacific Groundwater GroupDriller or Trainee Name Timothy S. SmithDriller or Trainee Signature [Signature]Driller or Trainee License No 2837If trainee, licensed driller's  
Signature and License no \_\_\_\_\_Site Address SW longmire st.City Yelm County: ThurstonLocation SW 1/4- 1/4 NW 1/4 Sec 24 Twn 17N R 1 EWM circle or one WWM

Lat/Long (s, t, r) Lat Deg \_\_\_\_\_ Lat Min/Sec \_\_\_\_\_

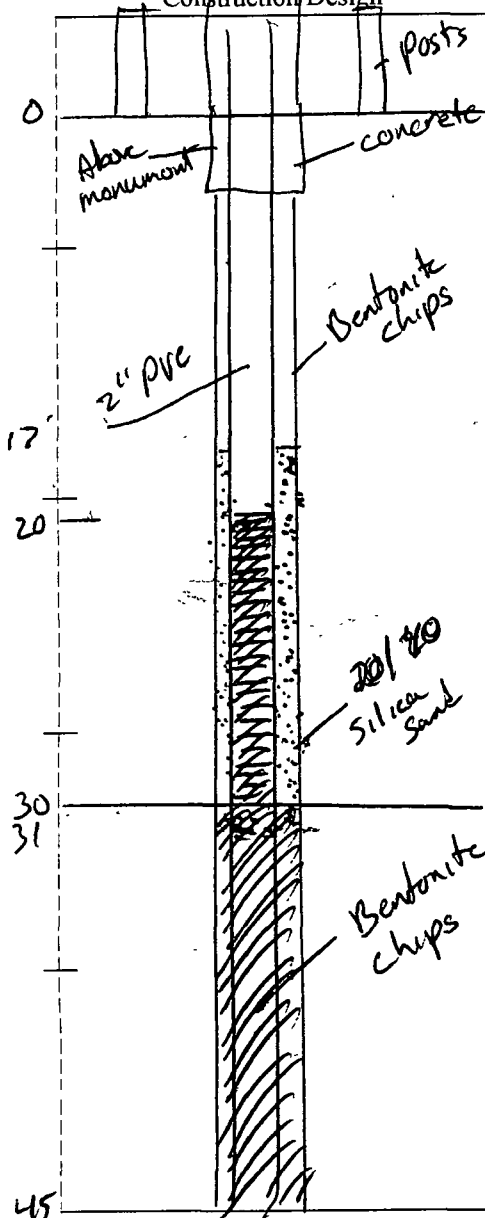
still REQUIRED) Long Deg \_\_\_\_\_ Long Min/Sec \_\_\_\_\_

Tax Parcel No 21724230400Cased or Uncased Diameter 2" Static Level 24'Work/Decommission Start Date 3-12-08Work/Decommission Completed Date 3-12-08

## Construction/Design

## Well Data

## Formation Description



Drilled method - 6" rubber  
Air Rotary  
Casing: 2" sch. 40 PVC  
+ 2.5 - 20'  
Screen: 2" sch 40 PVC  
.010  
Sand: 20/40 silica Sand  
17' - 30'  
Seal: Bentonite chips  
2' - 17'  
31' - 45'

Sand 4'  
Sandy gravel wet 14'  
gravel wet 24'  
Sandy gravel wet 32'  
clayey, silty, sandy gravel, wet 35'  
gravel wet 42'  
clayey sandy gravel 45'

RECEIVED

MAY 15 2008

Washington State  
Department of Ecology

WATER WELL REPORT  
STATE OF WASHINGTONStart Card No. NONE  
Water Right Permit No.

(1) OWNER: Name AM. SAVINGS BK. C/O MOORE Address PO BOX 2037 TACOMA, WA 98401-2037  
 (2) LOCATION OF WELL: County THURSTON  
 (2a) STREET ADDRESS OF WELL (or nearest address) 15050 LONGHIRE ST - NW 1/4 NW 1/4 Sec 24 T 17 N., R 1E W

(3) PROPOSED USE: DOMESTIC

(4) TYPE OF WORK:

NEW WELL

Owner's Number of well  
(If more than one)  
Method: AIR ROTARY

(5) DIMENSIONS: Diameter of well 6 inches  
 Drilled 96.7 ft. Depth of completed well 96.7 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6  
 WELDED  
 Dia. from 0 ft. to 96.7 ft.  
 Dia. from ft. to ft.  
 Dia. from ft. to ft.

Perforations: NO

Type of perforator used

SIZE OF PERFORATIONS

perforations from	ft. to	in. by	ft. to	in.
perforations from	ft. to	ft. to	ft. to	ft. to
perforations from	ft. to	ft. to	ft. to	ft. to

Screens: NO

Manufacturer's Name

Type

Diam.

Diam.

slot size

slot size

Model No.

from

from

ft. to

ft. to

ft. to

ft. to

Surface seal: YES

Gravel placed from

Size of gravel

ft. to

ft. to

Surface seal: YES

Material used in seal BENTONITE CLAY

Did any strata contain unusable water? NO

Type of water?

Method of sealing strata off

To what depth? 18 ft.

Depth of strata

ft.

(7) PUMP: Manufacturer's Name

Type

N.P. 112

(8) WATER LEVELS:

Land-surface elevation

above mean sea level ... ft.

Static level 46 ft. below top of well Date 09/08/88

Artesian Pressure lbs. per square inch Date / /

Artesian water controlled by

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?

Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test / /

Bailer test gal./min. ft. drawdown after hrs.

Air test 10 gal./min. w/ stem set at 91 ft. for 1 hrs.

Artesian flow g.p.m. Date

Temperature of water

Was a chemical analysis made? NO

(10) WELL LOG

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

MATERIAL

TOPSOIL COBBLES  
 COBBLES BOULDERS AND GRAVEL  
 CLAY BOULDERS AND GRAVEL  
 CLAY GRAVEL COBBLES  
 BOULDERS  
 SAND SILTY GRAVEL  
 CLAY AND GRAVEL  
 CLAY  
 CLAY GRAVEL SEEPAGE  
 CLAY AND GRAVEL  
 SAND AND GRAVEL  
 CLAY AND GRAVEL  
 SAND GRAVEL WATER

FROM	TO
0	4
4	12
12	20
20	29
29	30
30	32
32	38
38	45
45	60
60	72
72	75
75	89
89	96.7

RECEIVED  
 OCT 11 1988  
 Department of Ecology  
 Southwest Regional Office

Work started 09/07/88

Completed 09/08/88

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME RICHARDSON WELL DRILLING

(Person, firm, or corporation) (Type or print)

ADDRESS P O BOX 44427

[SIGNED] *Richardson* License No. 1424

Contractor's

Registration No. RICHAN#32108

Date 10/07/88





PROJECT: **Yelm GW Study**

Date: April 1, 2008

Boring ID: B-3Location: Berry Valley Rd & Thompson Creek

Time: 12:01 p.m.

Drillers: Don & Chris Ross of ESN NorthwestWeather Conditions: Cold, SunnyHydrogeologist: N. Romero Dept: Water & Waste Mgmt, TCPage: 1/1

Boring Log	Lithologic Description	% Recovery	Details
0'	Land Surface Elev. 326 ft above msl		
2'	Black, Organic, Clayey Silt, w/ some gravel	80%	Moist
4'	Black, Organic, Clayey Silt, w/ wood debris		Dry
8'	Red Clayey Gravel and Sand (old till?) Weathering Rinds on Cobbles, Friable Lavendar Andesites	100%	Wet 6 - 8'
12'	Gravel, small and angular, wet, clayey Clayey Gravel, compact, hard	80%	Wet
16'			
20'			
24'			
28'			

(1) OWNER: Name Wilson Homes Inc. Address 14127-93 AVE. S.E.  
(2) LOCATION OF WELL: County Yelm Thurston - NW $\frac{1}{4}$  NW $\frac{1}{4}$  Sec 24 T.17 N. R.1E. W.M.  
Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) TYPE OF WORK: Owner's number of well (if more than one) \_\_\_\_\_

New well	<input checked="" type="checkbox"/>	Method: Dug	<input type="checkbox"/>	Bored	<input type="checkbox"/>
Deepened	<input type="checkbox"/>	Cable	<input type="checkbox"/>	Driven	<input type="checkbox"/>
Reconditioned	<input type="checkbox"/>	Rotary	<input checked="" type="checkbox"/>	Jetted	<input type="checkbox"/>

(5) **DIMENSIONS:** Diameter of well 6 inches.  
 Drilled 100 ft. Depth of completed well 100 ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** 6 " Diam. from 0 ft. to 100 ft.  
 Threaded ☐ " Diam. from ..... ft. to ..... ft.  
 Welded ☒ " Diam. from ..... ft. to ..... ft.

**Perforations:** Yes ☐ No ☒

Type of perforator used	SIZE of perforations	in.	by	in.
perforations from	ft.	to	ft.	
perforations from	ft.	to	ft.	
perforations from	ft.	to	ft.	

Screens: Yes ☐ No ☒

Manufacturer's Name .....

Type..... Model No.....

Diam..... Slot size..... from..... ft. to..... ft.

Diam..... Slot size..... from..... ft. to..... ft.

**Gravel packed:** Yes ☐ No ☒ **Size of gravel:** \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Surface seal: Yes ☒ No ☐ To what depth? 18 ft.  
Material used in seal BENTONITE  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? \_\_\_\_\_ Depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_

(7) PUMP: Manufacturer's Name BERKELEY  
Type: SUB HP 3/4

(8) **WATER LEVELS:** Land-surface elevation above mean sea level.....ft.  
 Static level 60.....ft. below top of well Date 4-15-79  
 Artesian pressure.....lbs. per square inch Date.....  
 Artesian water is controlled by.....  
 (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? \_\_\_\_\_

Yield:	gal./min. with	ft. drawdown after	hrs
1.0	1.0	1.0	1.0
2.0	2.0	2.0	2.0
3.0	3.0	3.0	3.0

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level
10:00	10.0	10:00	10.0	10:00	10.0
10:05	10.1	10:05	10.1	10:05	10.1
10:10	10.2	10:10	10.2	10:10	10.2
10:15	10.3	10:15	10.3	10:15	10.3
10:20	10.4	10:20	10.4	10:20	10.4
10:25	10.5	10:25	10.5	10:25	10.5
10:30	10.6	10:30	10.6	10:30	10.6
10:35	10.7	10:35	10.7	10:35	10.7
10:40	10.8	10:40	10.8	10:40	10.8
10:45	10.9	10:45	10.9	10:45	10.9
10:50	11.0	10:50	11.0	10:50	11.0
10:55	11.1	10:55	11.1	10:55	11.1
11:00	11.2	11:00	11.2	11:00	11.2
11:05	11.3	11:05	11.3	11:05	11.3
11:10	11.4	11:10	11.4	11:10	11.4
11:15	11.5	11:15	11.5	11:15	11.5
11:20	11.6	11:20	11.6	11:20	11.6
11:25	11.7	11:25	11.7	11:25	11.7
11:30	11.8	11:30	11.8	11:30	11.8
11:35	11.9	11:35	11.9	11:35	11.9
11:40	12.0	11:40	12.0	11:40	12.0
11:45	12.1	11:45	12.1	11:45	12.1
11:50	12.2	11:50	12.2	11:50	12.2
11:55	12.3	11:55	12.3	11:55	12.3
12:00	12.4	12:00	12.4	12:00	12.4
12:05	12.5	12:05	12.5	12:05	12.5
12:10	12.6	12:10	12.6	12:10	12.6
12:15	12.7	12:15	12.7	12:15	12.7
12:20	12.8	12:20	12.8	12:20	12.8
12:25	12.9	12:25	12.9	12:25	12.9
12:30	13.0	12:30	13.0	12:30	13.0
12:35	13.1	12:35	13.1	12:35	13.1
12:40	13.2	12:40	13.2	12:40	13.2
12:45	13.3	12:45	13.3	12:45	13.3
12:50	13.4	12:50	13.4	12:50	13.4
12:55	13.5	12:55	13.5	12:55	13.5
13:00	13.6	13:00	13.6	13:00	13.6
13:05	13.7	13:05	13.7	13:05	13.7
13:10	13.8	13:10	13.8	13:10	13.8
13:15	13.9	13:15	13.9	13:15	13.9
13:20	14.0	13:20	14.0	13:20	14.0
13:25	14.1	13:25	14.1	13:25	14.1
13:30	14.2	13:30	14.2	13:30	14.2
13:35	14.3	13:35	14.3	13:35	14.3
13:40	14.4	13:40	14.4	13:40	14.4
13:45	14.5	13:45	14.5	13:45	14.5
13:50	14.6	13:50	14.6	13:50	14.6
13:55	14.7	13:55	14.7	13:55	14.7
14:00	14.8	14:00	14.8	14:00	14.8
14:05	14.9	14:05	14.9	14:05	14.9
14:10	15.0	14:10	15.0	14:10	15.0
14:15	15.1	14:15	15.1	14:15	15.1
14:20	15.2	14:20	15.2	14:20	15.2
14:25	15.3	14:25	15.3	14:25	15.3
14:30	15.4	14:30	15.4	14:30	15.4
14:35	15.5	14:35	15.5	14:35	15.5
14:40	15.6	14:40	15.6	14:40	15.6
14:45	15.7	14:45	1		

Date of test .....  
 Bailor test 10 gal/min. with 35 ft. drawdown after 1 hrs  
 Artesian flow ..... g.p.m. Date .....  
 Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:**

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
TOPSOIL	0	3
HARDPAN - ROCKS	3	90
SAND - GRAVEL - WATER	90	100

RECEIVED

MAR 27 1980

DEPARTMENT OF ECOLOGY  
SOUTHEAST REGIONAL OFFICE

Work started 11-15, 19 79 Completed 11-15-, 19 79

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME TACOMA Pump & Drilling Inc.  
(Person, firm, or corporation) (Type or print)

Address 30316 MT. HAW GRAHAM

[Signed] Eric Hanson by (Signature)  
(Well Driller)

License No. 0710 Date 1/4 1980



PROJECT: **Yelm GW Study**

Date: April 1, 2008

Boring ID: B-1Location: 93rd & Thompson Creek (Next to Stream Gage)

Time: 8:35 a.m.

Drillers: Don & Chris Ross of ESN NorthwestWeather Conditions: Cold, SunnyHydrogeologist:       N. Romero       Dept: Water & Waste Mgmt, TCPage: 1/1

Boring Log	Lithologic Description	% Recovery	Details
0'	Land Surface Elev. 324 ft above msl		
2'	Black, Organic, Clayey Silt, w/ some gravel	30%	Moist
4'	Brown, Sandy Gravel, Dry w/ FeO Clay binder		Dry
8'	Brown, Sandy Gravel, Dry w/ FeO Clay binder Weathering Rinds on Cobbles, Friable	80%	Dry
12'	Wet, Clayey Gravel and Sand, Compact, w/ FeO clay (old till?)	80%	Wet @ 8 - 9'
16'			
20'			
24'			
28'			

## Application No. ....

Permit No. \_\_\_\_\_

(2) LOCATION OF WELL: County Thurston — SE  $\frac{1}{4}$  SE  $\frac{1}{4}$  Sec 14 T. 17 N. R. 1E W.M.

Bearing and distance from section or subdivision corner *None*

**(10) WELL LOG:**

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Topsoil and gravel	0	12
Gravel and boulders	12	24
Compact sand and gravel	24	69
Loose sand and gravel	69	100

**Casing installed:** 6" Diam. from 0 ft. to 100 ft.  
 Threaded ☐ " Diam. from ft. to ft.  
 Welded ☒ " Diam. from ft. to ft.

Type of perforator used.....

SIZE of perforations ..... in. by ..... in.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

..... perforations from ..... ft. to ..... ft.

Manufacturer's Name.....

Type..... Model No.....

Diam. .... Slot size ..... from ..... ft. to ..... ft.

Diam. .... Slot size ..... from ..... ft. to ..... ft.

**Gravel packed:** Yes ☐ No ☒ **Size of gravel:** .....  
**Gravel placed from** ..... **ft. to** ..... **ft.**

Surface seal: Yes ☒ No ☐ To what depth? ..... 18 ft.  
Material used in seal ..... Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water? ..... Depth of strata .....  
Method of sealing strata off .....

(7) **PUMP:** Manufacturer's Name.....  
Type:..... **HP**.....

**(8) WATER LEVELS:** Land-surface elevation above mean sea level.....ft.  
 Static level.....65.....ft. below top of well Date. 8-22-86  
 Artesian pressure.....lbs. per square inch Date.....  
 Artesian water is controlled by.....(Cap, valve, etc.)

**(9) WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....

Yield:	gal./min. with	ft. drawdown after	hrs.
"	"	"	"
"	"	"	"

[illegible]

Date of test .....  
 Bailor test. 25 gal./min. with 15 ft. drawdown after 1 hrs.  
 Artesian flow ..... g.p.m. Date 8-22-86  
 Temperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

REC'D  
87 FEB 13 AM 5:58  
NEW ORLEANS OFFICE

Work started 8-21, 19 86 Completed 8-22, 19 86

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Co.  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 44427 Tacoma, Wa. 98444

[Signed] 5/10/11  
(Well Driller)

License No. 0419 Date 12-11 19 8

(USE ADDITIONAL SHEETS IF NECESSARY)



# Well Tagging Form

Well 3

Unique Well Tag No: AGP 177

## RECORD VERIFICATION (check ☒ one)



Well Report available (please attach this form to the well report and submit it to the Ecology Regional Office near you).

If a well report is not available, please complete a "Water Well Report for an Existing Well" form. This form is available at Ecology's headquarters office. **Do not use this form for wells that do not have a Water Well Report.**

## WELL OWNERSHIP, IF DIFFERENT FROM WELL REPORT

First Name: Messiah Ranch Last Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

## LOCATION OF WELL, IF DIFFERENT FROM WELL REPORT

Well Address: \_\_\_\_\_

City: Yelm County: Thurston

T. 17 N. R. 1 E W.M. Sec. 13 SW 1/4 of the SW

## FOR AGENCY USE ONLY

Latitude \_\_\_\_\_

Longitude \_\_\_\_\_

Elevation at land surface \_\_\_\_\_ feet/meters (circle one)

☐

GPS

☐

Topographic Map

☐

Survey

☐

Computer generated

☐

Digital Altimeter

☐

Topographic Map

☐

Other \_\_\_\_\_

### Additional information, if available:

☐

Location marked on topographic map (please attach)

☐

Location marked on air photo (please attach)

# RECEIVED

NOV 06 2006

DEPARTMENT OF ECOLOGY



## FOR AGENCY USE ONLY

### WELL CHARACTERISTICS

Physical description of well (size of casing, type of well, housing, etc.)

---

---

---

Location of Well identification Tag:

---

---

Was supplemental tag need for ease of identifying well? ☐ Yes ☐ No

If yes, where was tag placed? \_\_\_\_\_

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Scale 1:24,000 (1" = 2,000')

Indicate the location of the well within the Section by drawing a dot at that point

SECTION \_\_\_\_\_

COMMENTS:

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## FOR ECOLOGY WATER RESOURCES PROGRAM ONLY

Water Right # 5846 Date Issued \_\_\_\_\_

Circle One: Application Permit Certification Claim Exempt

WATER WELL REPORT  
STATE OF WASHINGTONStart Card No. 28341  
Water Right Permit No.(1) OWNER: Name **MESSIAH ARABIAN STUD FARM** Address **14507 YELM HWY YELM, WA 98597-**(2) LOCATION OF WELL: County **THURSTON**

- SE 1/4 SE 1/4 Sec 14 T 17 N., R 1E WM.

(2a) STREET ADDRESS OF WELL (or nearest address) **14507 YELM HWY**(3) PROPOSED USE: **DOMESTIC**

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well  
(If more than one)  
**DEEPEENED** Method: **AIR ROTARY**

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well **6** inches  
Drilled **80** ft. Depth of completed well **180** ft.

MATERIAL	FROM	TO
CEMENTED SAND AND GRAVEL	100	130
SAND AND GRAVEL CLAY	130	140
SAND AND GRAVEL AND SEEPAGE	140	170
SAND GRAVEL AND WATER	170	177
COMPACTED SAND GRAVEL SEEPAGE	177	180

(6) CONSTRUCTION DETAILS:  
Casing installed: **6** " Dia. from **100** ft. to **180** ft.  
**WELDED** " Dia. from ft. to ft.  
" Dia. from ft. to ft.Perforations: **NO**Type of perforator used  
SIZE of perforations in. by in.  
perforations from ft. to ft.  
perforations from ft. to ft.  
perforations from ft. to ft.Screens: **NO**Manufacturer's Name  
Type Model No.  
Dia. slot size from ft. to ft.  
Dia. slot size from ft. to ft.Gravel packed: **NO** Size of gravel  
Gravel placed from ft. to ft.Surface seal: **YES** To what depth? **20** ft.  
Material used in seal **BENTONITE CLAY**  
Did any strata contain unusable water? **NO**  
Type of water? Depth of strata ft.  
Method of sealing strata off(7) PUMP: Manufacturer's Name  
Type H.P.(8) WATER LEVELS: Land-surface elevation  
Static level **71.5** ft. above mean sea level ... ft.  
Artesian Pressure lbs. per square inch Date **09/14/89**  
Artesian water controlled byWork started **09/14/89**Completed **09/14/89**

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? **YES** If yes, by whom? **PUMPHAN**  
Yield: **30** gal./min with **11** ft. drawdown after **4** hrs.

Recovery data

Time	Water Level	Time	Water Level	Time	Water Level
------	-------------	------	-------------	------	-------------

Date of test **09/21/89**

Bailer test gal/min. ft. drawdown after hrs.

Air test **35** gal/min. w/ stem set at **175** ft. for **1** hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? **NO**

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME **RICHARDSON WELL DRILLING**

(Person, firm, or corporation) (Type or print)

ADDRESS **P O BOX 44427**[SIGNED] Boyd East License No. **1424**

Contractor's

Registration No. **RICHAN#3210B**Date **09/28/89**

**The Department of Ecology does NOT Warranty the Data and/or the Information on this Well Report.**

(1) OWNER: Name The Messiah Arabian Stud Farm Address 14507 Yelm Hwy. SE Yelm, Wa. 98597

(2) LOCATION OF WELL: County Thurston - SE ¼ SE ¼ Sec. 14 T17 N., R. 1E W.M.

**Bearing and distance from section or subdivision corner**

**(3) PROPOSED USE:** Domestic ☐ Industrial ☐ Municipal ☐  
Irrigation ☒ Test Well ☐ Other ☐

**(4) TYPE OF WORK:** Owner's number of well 1  
(if more than one).....

New well <input checked="" type="checkbox"/>	Method: Dug <input type="checkbox"/>	Bored <input type="checkbox"/>
Deepened <input type="checkbox"/>	Cable <input type="checkbox"/>	Driven <input type="checkbox"/>
Reconditioned <input type="checkbox"/>	Rotary <input checked="" type="checkbox"/>	Jetted <input type="checkbox"/>

(5) **DIMENSIONS:** Diameter of well ..... 6 ..... inches.  
Drilled 115 ..... ft. Depth of completed well ..... 115 ..... ft.

**(6) CONSTRUCTION DETAILS:**

**Casing installed:** ..... 6 " Diam. from ..... 0 ..... ft. to ..... 115 ft.  
 Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.  
 Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

**Perforations:** Yes ☐ No ☒

Type of perforator used.....			
SIZE of perforations .....	in.	by .....	in.
perforations from .....	ft.	to .....	ft.
perforations from .....	ft.	to .....	ft.
perforations from .....	ft.	to .....	ft.

**Screens:** Yes ☐ No ☒

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

**Gravel packed:** Yes ☐ No ☒ **Size of gravel:** .....  
**Gravel placed from** ..... **ft. to** ..... **ft.**

**Surface seal:** Yes ☒ No ☐ To what depth? 18 ft  
**Material used in seal:** Bentonite  
 Did any strata contain unusable water? Yes ☐ No ☒  
**Type of water?** \_\_\_\_\_ **Depth of strata** \_\_\_\_\_  
**Method of sealing strata** off \_\_\_\_\_

(7) PUMP: Manufacturer's Name Jacuzzi Bros.  
Type: Jacuzzi Bros. 5s4xp11HP 5

**(8) WATER LEVELS:** Land-surface elevation above mean sea level.....ft.  
 Static level 65.....ft. below top of well Date 10-18-83  
 Artesian pressure.....lbs. per square inch Date.....  
 Artesian water is controlled by.....(Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, by whom? .....			
Yield:	gal./min. with	ft. drawdown after	hr
..	..	..	..
..	..	..	..

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

[illegible]

Date of test \_\_\_\_\_  
 Bailor test 40 gal/min. with 14 ft. drawdown after 1 hrs.

Artesian flow..... g.p.m. Date 10-18-83  
Temperature of water..... Was a chemical analysis made? Yes ☐ No ☒

**(10) WELL LOG:**

**Formation:** Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

## MATERIAL

**FROM**

TO

Surface seal	0	18
Coarse hardpan & boulders-layers of grey sand & gravel	18	74
Brown coarse sand & gravel-boulders	74	115

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~~NOV 17 1983~~

DEPARTMENT OF ECOLOGY  
SOUTHWEST REGIONAL OFFICE

Work started 10-18 19 83 Completed 10-18 19 83

**WELL DRILLER'S STATEMENT:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson Well Drilling Co.  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 44427 Tacoma, Wa. 98444

[Signed] \_\_\_\_\_ (Well Driller)

License No. 0419 Date 10-26, 19 83

(USE ADDITIONAL SHEETS IF NECESSARY)



# Well Tagging Form

Unique Well Tag No: AGP 182

## RECORD VERIFICATION (check ☒ one)



Well Report available (please attach this form to the well report and submit it to the Ecology Regional Office near you).

If a well report is not available, please complete a "Water Well Report for an Existing Well" form. This form is available at Ecology's headquarters office. **Do not use this form for wells that do not have a Water Well Report.**

## WELL OWNERSHIP, IF DIFFERENT FROM WELL REPORT

First Name: Messiah Ranch Last Name: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

## LOCATION OF WELL, IF DIFFERENT FROM WELL REPORT

Well Address: \_\_\_\_\_

City: Yelm County: Thurston

T. 17 N. R. 1 E W.M. Sec. 14 SE ¼ of the SE

## FOR AGENCY USE ONLY

Latitude \_\_\_\_\_

Longitude \_\_\_\_\_

Elevation at land surface \_\_\_\_\_ feet/meters (circle one)

- ☐ GPS
- ☐ Topographic Map
- ☐ Survey
- ☐ Computer generated

- ☐ Digital Altimeter
- ☐ Topographic Map
- ☐ Other \_\_\_\_\_

### Additional information, if available:

- ☐ Location marked on topographic map (please attach)
- ☐ Location marked on air photo (please attach)

# RECEIVED

NOV 06 2006

DEPARTMENT OF ECOLOGY

## FOR AGENCY USE ONLY

### WELL CHARACTERISTICS

Physical description of well (size of casing, type of well, housing, etc.)

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Location of Well identification Tag:

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Was supplemental tag need for ease of identifying well ☐ Yes ☐ No

If yes, where was tag placed? \_\_\_\_\_

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Scale 1:24,000 (1" = 2,000')

Indicate the location of the well within the Section by drawing a dot at that point

SECTION \_\_\_\_\_

COMMENTS:

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## FOR ECOLOGY WATER RESOURCES PROGRAM ONLY

Water Right # 58108 Date Issued \_\_\_\_\_

Circle One: Application

Permit

Certification

Claim

Exempt

PROJECT: **Yelm GW Study**

Date: April 1, 2008

Boring ID: B-2Location: 89th & Thompson Creek

Time: 10:14 a.m.

Drillers: Don & Chris Ross of ESN NorthwestWeather Conditions: Cold, SunnyHydrogeologist: N. Romero Dept: Water & Waste Mgmt, TCPage: 1/1

Boring Log	Lithologic Description	% Recovery	Details
0'	Land Surface Elev. 322 ft above msl		
2'	Black, Organic, Clayey Gravel	30%	Moist
4'	Brown, Sandy Cobbles, Gravel, Dry		Dry
8'	Dry, Brown, Clayey Gravel & Sand Weathering Rinds on Cobbles, Friable	90%	Dry
12'	Dry, Brown, Clayey Gravel and Sand Compact	90%	Dry
16'	Dry, Brown, Clayey Gravel and Sand Compact - 2" wet gravel seam @ 13' Wet, Brown, Coarse Sand 14 - 16'	90%	Dry Wet
20'			
24'			
28'			

Thompson Creek

Screen  
11 - 16'

(1) OWNER: Name CAPP Address 34222-102ND AVE. S ROY WA 98580  
(2) LOCATION OF WELL: County THURSTON  
(2a) STREET ADDRESS OF WELL (or nearest address) 14035 SE 86TH LANE YELM WA

Page 1 of  
SW 1/4 NE 1/4 Sec 14 T 17 N R 1 E

(3) PROPOSED USE: DOMESTIC					(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION		
(4) Type of work: NEW WELL							
Method: ROTARY					Material		
					From To		
(5) DIMENSIONS: Diameter of well 6 inches.					BROWN CLAY COBBLES		
Drilled 150 feet. Depth of completed well 150 ft.					GRAVEL BROWN CLAY		
					SAND GRAVEL SILT		
(6) CONSTRUCTION DETAILS:					LARGER GRAVEL SAND SILT		
Casing instld: 6 " Diam. from 0 ft. to 144.6 ft.					LARGE GRAVEL SOME COBBLES		
Welded X " Diam. from ft. to ft.					GRAVEL SAND COBBLES		
Liner " Diam. from ft. to ft.					GRAVEL, RUST COLORED CLAY		
Threaded "					GRAVEL, BOULDERS, CLAY WATER		
					GRAVEL, SAND, COBBLES WATER		
Perforations: Yes _ No X					TIGHTER GRAVEL, SAND, SILT		
Type of perforator used							
Size of perforations in. by in.							
perforations from ft. to in.							
perforations from ft. to in.							
perforations from ft. to in.							
Screens: Yes _ No X							
Manufacturer's Name							
Type Model No							
Diam Slot size from ft. to ft.							
Diam Slot size from ft. to ft.							
Gravel packed: Yes _ No X Size of gravel							
Gravel placed from ft. to ft.							
Surface seal: Yes X No _ To what depth? 20 ft.							
Material used in seal BENTONITE							
Did any strata contain unusable water? Yes _ No X							
Type of water? Depth of strata							
Method of sealing strata off							
(7) PUMP: Manufacturer's Name JACUZZ							
Type SUBMERSIBLE H.P. 0.75							
(8) WATER LEVELS: Surface elev above mean sea level ft.							
Static level 115 ft. below top of well Date 02/26/97							
Artesian pressure lbs. per sq. in. Date							
Artesian pressure is controlled by							
(9) WELL TESTS: Pump test made? _ By whom?					Work Started 12/24/97 Completed 12/26/97		
Yield 0 gal./min. with ft. drawdown after hrs							
Yield 0 gal./min. with ft. drawdown after hrs					WELL CONSTRUCTOR CERTIFICATION:		
Yield 0 gal./min. with ft. drawdown after hrs					I constructed and/or accept responsibility for construction		
Recovery data:					this well, and its compliance with all Washington well const		
Time Wtr. Lvl. Time Wtr. Lvl. Time Wtr. Lvl.					ruction standards. Materials used and the information report		
Date of test					above are true to my best knowledge and belief.		
Bailer test 0 gal/min with ft. drawdown after hr					Name RICHARDSON WELL DRILLING		
Airtest 15 gal/min with stem set at 139 ft. for 2 hrs					Address P.O. Box 44427 Tacoma WA 98444		
Artesian flow 0 gal/min Date					(Signed) <i>Rich E. Ewing</i> Lic. No 1547		
Temperature of water Was chemical analysis made? NO					(Well Driller)		
					Contractor's Registration No. RICHAW*3210B Date 01/07/		
					Based on form ECL 050-1-20 (2/93)**f-1329- by Speed Systems Co		



# WATER WELL REPORT

## STATE OF WASHINGTON

Application No. ....

Permit No. ....

(1) **OWNER:** Name Donald C. Anderson Address Rt.3 Box 3540 Yelm, Wa. 98597

(2) **LOCATION OF WELL:** County Thurston — NW 1/4 NE 1/4 Sec. 14 T. 17 N. R. 1E W.M.

Bearing and distance from section or subdivision corner

(3) **PROPOSED USE:** Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

(4) **TYPE OF WORK:** Owner's number of well (if more than one) 1  
New well ☒ Method: Dug ☐ Bored ☐  
Deepened ☐ Cable ☐ Driven ☐  
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) **DIMENSIONS:** Diameter of well 6 inches.  
Drilled 160 ft. Depth of completed well 160 ft.

### (6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from 0 ft. to 160 ft.  
Threaded ☐ " Diam. from     ft. to     ft.  
Welded ☒ " Diam. from     ft. to     ft.

Perforations: Yes ☐ No ☒

Type of perforator used      
SIZE of perforations     in. by     in.  
perforations from     ft. to     ft.  
perforations from     ft. to     ft.  
perforations from     ft. to     ft.

Screens: Yes ☐ No ☒

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

Gravel packed: Yes ☐ No ☒ Size of gravel:      
Gravel placed from     ft. to     ft.

Surface seal: Yes ☒ No ☐ To what depth? 20 ft.  
Material used in seal Bentonite  
Did any strata contain unusable water? Yes ☐ No ☒  
Type of water?     Depth of strata      
Method of sealing strata off    

(7) **PUMP:** Manufacturer's Name Jacuzzi  
Type: 1584C HP 1 1/2

(8) **WATER LEVELS:** Land-surface elevation above mean sea level     ft.  
Static level 118 ft. below top of well Date 1-17-77  
Artesian pressure     lbs. per square inch Date      
Artesian water is controlled by     (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level

Was a pump test made? Yes ☐ No ☒ If yes, by whom?      
Yield:     gal./min. with     ft. drawdown after     hrs.

"     "     "     "  
"     "     "     "

Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)

Time	Water Level	Time	Water Level	Time	Water Level

Date of test      
Bailer test 30 gal./min. with 31 ft. drawdown after 1 hrs.

Artesian flow     g.p.m. Date    

Temperature of water     Was a chemical analysis made? Yes ☐ No ☒

### (10) WELL LOG:

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Surface Seal	0	20
Silty Brown Clay	0	7
Hard Pan	7	60
Sand & Gravel compacted	60	80
Gravel Silty some Clay	80	102
Sand Stone	102	105
Compacted Silty Gravel	105	140
Gravel, & Clay Water (30gpm)	140	160

# RECEIVED

JUL 14 1977

DEPARTMENT OF ECOLOGY  
SOUTHWEST REGIONAL OFFICE

Work started 1-17, 1977 Completed 1-17, 1977

### WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME Richardson's Well Drilling  
(Person, firm, or corporation) (Type or print)

Address P.O. Box 44408 Tacoma, Wa. 98444

[Signature] Richardson  
(Well Driller)

License No. 223-02-6500 Date 5-18, 1977

File: Orig. &amp; First Copy - Dept of Ecology

WATER WELL REPORT

Start Card No. W172614

Second Copy - Owner, Third Copy - Driller

State of Washington

Unique Well ID AHL631

Water Right Permit No.

132184

(1) OWNER: Name DONALD ANDERSON JR

Address P/O BOX 1712 YELM WA 98597

Page 1 of

(2) LOCATION OF WELL: County THURSTON

NW 1/4 NE 1/4 Sec 14 T 17 N R 1 EW

(2a) STREET ADDRESS OF WELL (or nearest address) 14229 YELM HWY YELM WA 98597

(3) PROPOSED USE: DOMESTIC

(10) WELL LOG or DECOMMISSIONING PROCEDURE DESCRIPTION

(4) Type of work: NEW WELL

Method: ROTARY

Material

From

To

(5) DIMENSIONS: Diameter of well 6 inches.

BROWN CLAY

0

12

Drilled 144 feet. Depth of completed well 141 ft.

SILTY BROWN SAND, GRAVEL, COBBLES

12

45

BOULDER

45

47

(6) CONSTRUCTION DETAILS:

SILTY BROWN SAND, GRAVEL, COBBLES

47

84

Casing instld: 6 " Diam. from 0 ft. to 141 ft.

BOULDER

84

86

Welded X " Diam from ft. to ft.

BROWN SAND, GRAVEL

86

87

Liner " Diam. from ft. to ft.

BOULDER

87

90

Threaded

BROWN SAND, GRAVEL

90

91

BOULDER

91

93

Perforations: Yes \_ No X

BROWN SAND, GRAVEL

93

95

Type of perforator used

BOULDER

95

98

Size of perforations in. by in.

BROWN SAND, GRAVEL, COBBLES, BOULDERS

98

120

perforations from ft. to in.

BROWN SAND, GRAVEL, WATER

120

144

perforations from ft. to in.

perforations from ft. to in.

Screens: Yes \_ No X

Manufacturer's Name

Type

Model No

Diam Slot size from ft. to ft.

Diam Slot size from ft. to ft.

Gravel packed: Yes \_ No X Size of gravel

Gravel placed from ft. to ft.

Surface seal: Yes X No \_ To what depth? 18 ft.

Material used in seal BENTONITE

Did any strata contain unusable water? Yes \_ No X

Type of water? Depth of strata

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type

H.P. 0

(8) WATER LEVELS. Surface elev above mean sea level ft.

Static level 104.7 ft. below top of well Date 03/16/03

Artesian pressure lbs. per sq. in. Date

Artesian pressure is controlled by

(9) WELL TESTS: Pump test made? \_ By whom?

Yield 0 gal./min. with ft. drawdown after hrs

Yield 0 gal./min. with ft. drawdown after hrs

Yield 0 gal./min. with ft. drawdown after hrs

Recovery data:

Time Wtr. Lvl. Time Wtr. Lvl. Time Wtr. Lvl.

Date of test

Bailer test 0 gal/min with ft. drawdown after hr

Airtest 15 gal/min with stem set at 135 ft. for 1 hrs

Artesian flow 0 gal/min Date

Temperature of water Was chemical analysis made? NO

Work Started 03/13/03

Completed 03/16/03

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Name RICHARDSON WELL DRILLING

Address P.O. Box 44427 Tacoma WA 98444

(Signed)

(Well Driller)

Lic. No 2246

Contractor's Registration No. RICHAW\*3210B

Date 03/18/0

Based on form ECL 050-1-20 (2/93)\*\*f-1329- by Speed Systems Cor

RECEIVED

MAY 01 2003

Washington State  
Department of Ecology

PROJECT: **Yelm GW Study**

Date: April 4, 2008

Boring ID: B-7Location: State Route 510 & Thompson Creek (At School; Close to Stream Gage)

Time: 8:35 a.m.

Drillers: Don & Chris Ross of ESN NorthwestWeather Conditions: Cold, RainyHydrogeologist: \_\_\_\_\_ N. Romero \_\_\_\_\_

Dept: Water &amp; Waste Mgmt, TC

Page: 1/1






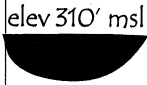



## Boring Log

Thompson Creek  
Gaging Station

## Lithologic Description

## % Recovery

## Details

0'		Land Surface Elev. 320 ft above msl		
2'		Black, Organic, Clayey Silt, w/ some gravel	60%	Moist
4'		Brown, Sandy Gravel, Dry w/ some clay		Dry
8'		Brown, Sandy Gravel, Dry	80%	Dry
		6" Dry, Loose Coarse Sand @ 7'		
12'		Clayey Gravel and Sand, compact		
		@10' Clayey Silt Layers, Brown, Laminated	100%	Dry
		3' of Dry, Loose Medium Sand		
		Clayey Plug @ bottom of core rod		
16'		Clayey Silt, "Fat", Saturated, Brown (Glacio-lucustrine)	60%	Wet
		Screen 13 - 18'		
20'		Wet Medium Sand, Brown		
		Wet Medium Sand, Brown	100%	Wet
		Clayey Silt, "Fat", Saturated, Brown		
		Glacio-lucustrine		
24'				
28'				