

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

PO Box 47775 · Olympia, Washington 98504-7775 · (360) 407-6300 711 for Washington Relay Service · Persons with a speech disability can call 877-833-6341

January 16, 2018

Electronic Copy

Ms. Tracey Larson Gig Harbor Transmission 5066 SE Hovgaard Rd Olalla, WA 98359

Re: Opinion on Proposed Cleanup of the following Site:

• Site Name: Gig Harbor Transmission

• Site Address: 14610 Purdy Dr. NW, Gig Harbor, Pierce County, WA 98332

Facility/Site No.: 11876
Cleanup Site No.: 1952
VCD Project No.: SW15

• VCP Project No.: SW1590

Dear Ms. Larson:

The Washington State Department of Ecology (Ecology) received your request for an opinion on your proposed independent cleanup of the Gig Harbor Transmission facility (Site). This letter provides our opinion. We are providing this opinion under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

Issue Presented and Opinion

Ecology has determined that further remedial action is necessary to clean up contamination at the Site.

This opinion is based on an analysis of whether the remedial action meets the substantive requirements of MTCA, Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC (collectively "substantive requirements of MTCA"). The analysis is provided below.

Description of the Site

This opinion applies only to the Site described below. The Site is described in Ecology's No Further Action Likely opinion issued in a letter dated September 27, 2017.

Basis for the Opinion

This opinion is based on the information contained in the following documents:

- 1. ECI, Re: Groundwater Monitoring Gig Harbor Transmission, dated October 24, 2017.
- 2. Ecology, Re: *Opinion on Proposed Cleanup of the following Site*, dated September 27, 2017.
- 3. Email correspondence between Mr. Stephen Spencer, EcoCon Inc. (ECI), and Mr. Tim Mullin, Ecology, dated August 21, 2017.
- 4. ECI, Gig Harbor Transmission Terrestrial Ecological Evaluation, received August 7, 2017.
- 5. ECI, Cleanup Action Report (CAR), dated April 26, 2017.
- 6. ECI, Phase I Environmental Site Assessment (ESA), dated January 27, 2017.
- 7. Environmental Management Services, LLC (EMS), *Phase II Subsurface Investigation*, dated February 19, 2010.
- 8. Alkai Environmental Consultants, *Phase I ESA*, dated January 22, 2010.
- 9. Ecology, Initial Investigation Field Report, dated July 8, 2009.
- 10. Ecology, ERTS report #609920, dated December 8, 2008.

The above documents are kept in the Central Files of the Southwest Regional Office of Ecology (SWRO) for review by appointment only. You can make an appointment by calling with SWRO resource contact at (360) 407-6365.

This opinion is void if any of the information contained in those documents is materially false or misleading.

Analysis of the Cleanup

Ecology has concluded that **further remedial action** is necessary to clean up contamination at the Site. That conclusion is based on the following analysis:

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The Site is described in Ecology's No Further Action Likely opinion letter dated September 27, 2017.

In response to Ecology's opinion letter, on October 5, 2017, ECI oversaw advancement of four soil borings by direct push methodology, ranging in depth from 13 of 22 feet below ground surface (bgs). All four borings were reportedly installed in the vicinity of B2; however, a figure with boring locations was not provided to Ecology for review. Refusal was met in each boring. Soils were described from each boring as dry. ECI did not report water from any boring, and did not install the well requested in Ecology's opinion letter dated September 27, 2017. ECI proposed that the water sampled from boring B2 in February 2010 was potentially the result of surface water infiltration and was not actually a perched water bearing zone able to be monitored.

Ecology has the following comments regarding the October 2017 investigation:

- 1) It appears the determination on whether or not water was present from beneath the Site was made exclusively based on observation of soils logged from each borehole.
- 2) No PID readings were reported for any of the borings installed, only olfactory indicators, where no odor was reported in any soils logged.
- 3) No images of the borehole cores were provided.
- 4) The length of time each borehole was left open was not reported.
- 5) No discussion of attempted water level measurements in any of the direct push borings was provided.
- 6) No temporary well was set in any boring nor was any attempt made to pump water from any of the borings.
- 7) In February 2010, sufficient groundwater was present to collect samples from B1, B2, and B6.
 - a. Boring B1 was completed in the southwest corner of the Property, whereas B2 and B6 were completed near each other around the northeastern portion of the main shop building.
 - b. Wet soils were also reported in the boring logs for borings B4 and B5.
 - c. Insufficient groundwater was present to produce a sample at B3.
 - i. Ecology notes that boring B3 was advanced to 11 feet bgs and was noted to be dry upon completion, whereas wet soils were reported in nearby borings B4 and B5 at 11.5 feet bgs and 10.5 feet bgs, respectively. Boring B3 may not have been advanced deep enough before encountering refusal to produce sufficient water for sampling. Additionally, per the boring log, it appears that boring B3 was open for approximately 12 minutes (1153 to 1205) and water likely did not have sufficient time to infiltrate the borehole.

- 8) Ecology does not concur with the request for No Further Action at this Site. The October 2017 investigation does not meet the requirements under WAC 173-340-360(2)(a)(iv), 173-340-410 or 173-340-720 to confirm that the cleanup action has attained cleanup standards.
 - a. An evaluation of groundwater is necessary in order to determine if the second release which occurred between February 2010 and January 2017 has contaminated groundwater beneath the Site.
 - b. In 2010, a Phase I ESA completed by ALKAI Consultants, LLC (Alkai) reported several water wells within ¼ mile of the Site and dozens of wells within 1 mile of the Site¹.
 - c. Based on available data, Ecology has determined that it appears that there is groundwater present beneath the Site and the highest potential beneficial use for that groundwater is drinking water.
 - i. Based on the 2010 boring log for B2, any potential perched water bearing zone appears to be present from approximately 11-14 feet bgs.
 - ii. Well logs contained within Ecology's well log database confirm that shallow groundwater within approximately 1 mile of the Site is used for domestic supply (drinking water). Selected driller's well logs are included as **Enclosure A**.
 - iii. In the opinion letter dated September 27, 2017, Ecology included the well log of a domestic supply well located approximately 700 feet west of the Site. Based on the fact that this domestic supply well is between the Site and Burley Lagoon, the domestic supply well is likely downgradient of the Site.
- 9) Ecology reiterates the recommendations to install one monitoring well and to complete performance monitoring as described on pages 7 and 8 in the No Further Action Likely opinion letter dated September 27, 2017.
 - a. A different drilling method (e.g., hollow stem auger) may need to be employed to install a properly constructed monitoring well.
- 10) If undertaken, any investigation with the goal of evaluating non-potability of Site groundwater using the yield demonstration must be completed per WAC 173-340-720(2)(b)(i).
- 11) Ecology requests a figure showing the locations of the ECI's October 5, 2017, borings.
- 12) All investigation derived waste (IDW) should be containerized, profiled, and disposed of at an approved facility.

Limitations of the Opinion

1. Opinion does not settle liability with the state.

¹ See pages A-11 through A-14 in Alkai Environmental Consultants' Phase I ESA, dated January 22, 2010.

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Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with Ecology under RCW 70.105D.040(4).

2. Opinion does not constitute a determination of substantial equivalence.

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

3. State is immune from liability.

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. See RCW 70.105D.030(1)(i).

Contact Information

Thank you for choosing to clean up the Site under the Voluntary Cleanup Program (VCP). After you have addressed our concerns, you may request another review of your cleanup. Please do not hesitate to request additional services as your cleanup progresses. We look forward to working with you.

For more information about the VCP and the cleanup process, please visit our web site: www.ecy.wa.gov/programs/tcp/vcp/vcpmain.htm. If you have any questions about this opinion, please contact me by phone at 360-407-6265 or e-mail at Tim.Mullin@ecy.wa.gov.

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Sincerely,

Tim Mullin, LHG

SWRO Toxics Cleanup Program

TCM: kb

Enclosure:

A – Domestic Supply Well Logs

B – Email Correspondence

By Certified Mail: [91 7199 9991 7037 7471 8972]

y C Mull

cc:

Stephen Spencer, ECI Nick Acklam, Ecology

Stephanie Bussell, Ecology

Ecology Site File

Enclosure A Domestic Supply Well Logs

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

WATER WELL REPORT

Start Card No. 2020 92

STATE OF WASHINGTON

ild Gopy—Driller's Copy		•	Water Right Permit N			
OWNER: Nome Al Eaton		Addross £	BOX 153	Burley	Wa 9	83221
O LOCATION OF WELL: GOUNT PIERCE			NE & SW	N Sec_/3_ T.2	2Nn. R	FF W.M.
E) LOCATION OF WELL: County FIEV(18) STREET ADDDRESS OF WELL (or nearest address) 15/ 35	<u> </u>	15/5/				
) PROPOSED USE: Domestic Industrial Municip		(10) WELL LO	G or ABANDON	MENT PROCEDU	RE DESC	RIPTION
Irrigallon Test Well Other		Formation; Describ	no by color, characte	r, size of material an		
TYPE OF WORK; Owner's number of well (if more than one)	- 	with at least one ent	ry for each change of it	formation.	FROM	10
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Deepened 🗍 Cable 🛍 Drive	en 🗀 📙		<u>e [[pw]</u>		4/	11
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	nches.	Sand Grane	7		21	28
Drilled 1/8feet. Depth of completed well	<u>(t</u> -	Hard Pa	и		28	44
S) CONSTRUCTION DETAILS:	ļ-	gravel			44	52
Casing Installed: 6 Dlam. from 4/ It. to 1/3	f1.		gray)		52	56
Welded Diam. from II. to		granel	<i></i>		56	64
Threaded		3.11-6	ery) Ceme	ut grawel	64	72
Perforations: Yes No 🔀	<u> </u>	Silt Ca	vay)		72	92_
Type of perforator used	_		with goray	s.1+	92	1//3
SIZE of perforationsin, by	In.	gravel			113_	118
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Material used in seal Hole Plag 83602	-				 	ļ
Did any strata contain unusable water? Yes No	⊢				-	—
Type of water? Depth of strate	 				 	
Method of sealing strate off						
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9) WELL TESTS: Drawdown is amount water level is lowered below slot	tic level	Work started		9. Completed	-/	
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Recovery data (time taken as zero when pump turned off) (water level measu	ured	knowledge a	and belief.		r	
irom well top to water level)	c Level	we ble	s Glesca	er Dwill	1 u G	
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Artesian flowg.p.m. Date	$\overline{\Box}$,	/	
Temperature of water Was a chemical analysis made? Yes No	ا د	(USI	e additional s	HEETS IF NECE	SSAHY)	

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WATER WELL RÉPORT

Original & 1st copy - Ecology, 2st copy - owner, 3st copy - driller	CURRENT	በብን	* 10-mag
peratisent te	Notice of Intent No. WEO5560	901	2 9 2007
Construction/Decommission ("x" in circle) 277254	Unique Ecology Well ID Tag No. BAT426	Washi	nae. a
Decommission ORIGINAL INSTALLATION	Water Right Permit No.	Departme	ngton State at of Ecolo
Notice of Intent Number			or 120010
PROPOSED USE: ☑ Domestic ☐ Industrial ☐ Municipal ☐ DeWater ☐ Irrigation ☐ Test Well ☐ Other	Property Owner Name ANGELA GOOSENS	·	 ,
TYPE OF WORK: Owner's number of well (if more than one)	Well Street Address15115 PURDY DR NW		
New well	City PURDY County PIERCE		
☐ Deepened ☐ Cable ☒ Rotary ☐ Jetted	Location <u>NE1/4-1/4 SW1/4 Sec 13 Twn 22 R 1E</u>		
DIMENSIONS: Diameter of well 6 moles, drilled 99 ft Depth of completed well 97 ft.	(s, t, r Still REQUIRED)	Or WWM {	
CONSTRUCTION DETAILS			
Casing Welded 6" Diam. from 0 ft. to 92 ft.	Lat/Long Lat Deg Lat Min/Sec		
Installed: ☐ Liner installed " Diam. from ft. to ft. ☐ Threaded " Diam From ft. to ft.	Long Deg Long Min/Se		
Perforations: ☐ Yes ☒ No	Tax Parcel No. (Required)0122133074		
Type of perforator used	CONSTRUCTION OR DECOMMISSION PRO		d and
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Manufacturer's Name JNSN	of information. (USE ADDITIONAL SHEETS IF NECESSAR)	· · · · · · · · · · · · · · · · · · ·	FO
	MATERIAL PIPE STICK UP		1 ·
Type <u>SS</u> Model No. <u>TELES</u> Diam, <u>5"Stot size 20 from 92 ft. to 97 ft.</u>	BROWN SAND GRAVEL CLAY	1 1	17
Diam. Slot size from ft. to ft.	GRAY SAND GRAVEL CLAY WET		39
Gravel/Filter packed: ☐ Yes ☒ No Size of gravel/sand Materials placed fromft toft.	GRAY SAND GRAVEL CLAY BROWN SAND GRAVEL CLAY		13 52
Surface Seal: Yes □ No To what depth? 30ft.	BROWN SAND GRAVEL WATER		99
Material used in seal BENTONITE			· ·
Did any strata contain unusable water?			
Type of water? Depth of strata			
Method of sealing strata off		+	
PUMP: Manufacturer's Name			
Type: HP			
WATER LEVELS: Land-surface elevation above mean sea level			
Artesian pressure lbs per square inch Date		1	
Artesian water is controlled by			
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. withft_drawdown afterhrs.		+	
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	FOR MATE AND ALL.	 	
top to water level)	RECEIVE		
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Date of test	Washington St		
Bailer test 20 gal /min. with 3ft. drawdown after 1 hrs	Department of Eco		
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Artesian flowg.p.m. Date			
Temperature of water Was a chemical analysis inade?	Start Date 10/9/2007 Completed Date	10/11/2007	
WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept respon construction standards. Materials used and the information reported above are true		all Washington	well
☑ Driller ☐ Engineer ☐ Traince Name (Print) NICOLAS SAMPLE	Drilling Company NICHOLSON DRILLING INC		
Driller/Engineer/Traince Signature No. C. Sample	Address PO BOX 123		
Driller or trainee License No. 2770	City, State, Zip PORT ORCHARD	, WA, 9	8366
IF TRAINEE: Driller's License No:	Contractor's		
Driller's Signature:	Registration No. <u>NICHODI1370M</u> Date	10/17/2007	

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

WATER WELL REPORT

Start Card No	_WO63303
INIQUE WELL IN	

STATE OF WASHINGTON

er Blaht Permit No.

	Copy — Driller's Copy	Water Bight Permit No.	
	OWNER: Name Brad & Robin Smith Add		
(2)	LOCATION OF WELL: County Pierce	- <u>SE 14 SW</u> 1/4 Sec. 13 T. 22	<u>2Nғ.я 1Е</u> мм.
	STREET ADDRESS OF WELL (or nearest address)14821 Pilrdy_		
(3)	PROPOSED USE: X Domestic Industrial Municipal	(10) WELL LOG or ABANDONMENT PROCEDURE DES	
	DeWater Tost Well D Other	Formation: Doscribe by color, cheracter, size of miderial and structure, and she and the kind and nature of the material in each stratum penetrated, with at the change of information.	ow trickness of equiters least one entry for each
(4)	TYPE OF WORK: Owner's number of well (If more than one)	MATERIAL	FROM TO
	Abandoned New well X Method; Dug Boted Despend Cable X Driven Reconditioned Rolary Jetted	Brown Top	0 2
(F)	DIMENSIONS: Diameter of well 6 Inches.	Brown gravel	2 12
1-7	Drilled 89 feet. Depth of complated well 89 ft.		12 76
(6)	CONSTRUCTION DETAILS:	Brown till	12 70
(5)	Casing Installed: 6: Diam. from 0 ft. to 84 ft. Webled 2 Diam. from n. to ft.	Brown sand w/b	76 89
	Threaded	Brown till	89
	Perforations: Yes No 🗓		
	Type of perforator used		
	Size of perforationsin. byinift. toift.		
	perforations fromft. toft.	Α	
	Screens: Yes 😾 No 🗌	160	
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	TypeStainless steel		
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	Gravel pecked: Yes No X Size of gravel	1 72 01	m
	Gravel placed fromft. toft.	0/0 == =	C
_	Surface seal: Yes 🗵 No 🗌 To what depth? 7.8 ft.	☆	(1)
	Material used in seel Bentonite	¥., •	
	Did any strata contain unusable water? Yos \(\square\) No \(\square\)		
	Type of water? Depth of strate		<u> </u>
	Method of scaling strate off		
(7)	PUMP: Manufacturer's Namo Goulds Typo: Submersible H.P.		
(8)	WATER EVELS: Land-surface elevation	Work Started 7/1 19. Completed 7./	<u>/5 19 95</u>
• •	Static level 36 ft. below top of well Date 7/5/95	WELL CONSTRUCTOR CERTIFICATION:	
	Artesian pressure ibs. per square inch Date	Legendarized and/or accept recognitivity for construction	of this well, and its
<u></u>	Ariesian water is controlled by	compliance with all Washington well construction standards. The information reported above are true to my best knowledge	, Matoriais used and
(8)	Was a pump test made? Yes No X If yes, by whom?	NAME <u>Olsen Drilling</u> (PERSON, HALLON CONTORATION) (TYPE CAT	PREM
	11 27 11 11	Address PO Box 1554 Port Orchai	rd 98366
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_	Recovery data (time taken as zero whon pump turned of) (water lovel measured from we'll top to water lovel)	(Signed) (Signed) License) NO1 /2 LD
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	Date of test	TOOL ADDITIONAL OILL TO IT TECLOOP	
	Balter test 92 gal./min. withft. drawdown after hrs. Airtestgal./min. with stem set at(t. for hrs.	Ecology is an Equal Opportunity and Affirmative Action e	amployer. For spe- s Program at (206)

407-6600. The TDD number is (206) 407-6006.

g.p.m. Date

Was a chemical analysis made? Yes 🗵

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

WAT

TER WELL REPORT	Application No
FATE OF WASHINGTON	Permit No

mird Copy — Driller's Copy STATE OF W		11 1 6000 00000000000000000000000000000
(1) OWNER: Name Bud Brewer	14528 Sherman Dr. NW Gig	Harbor, WA
(2) LOCATION OF WELL: County Pierce	611 611 77 99	N. R. IE W.M.
Bearing and distance from section or subdivision corner		
(3) PROPOSED USE: Domestic D Industrial Municipal	(10) WELL LOG:	
freigation Test Well Other	Formation: Describe by color, character, size of material a show thickness of agulfers and the kind and nature of the stratum penetrated, with at least one entry for each chan	nd structure, and material in each age of formation.
(4) TYPE OF WORK: Owner's number of well (if more than one)		ROM TO
New well	Brown Hard Pan () <u>lis</u>
Deepened	Brown sand with clay binder 1	5 26
		26 28
(5) DIMENSIONS: Diameter of well 817311 4t.	Hard packed rock salt, sand	
Drilled 29 (t. Depth of completed well 38.5" ft.	small_gravel, seepage 2	28 33
(e) CONCEDUCTION DEPARTS.	Brown sand, small gravel.	
(6) CONSTRUCTION DETAILS:		35
Casing installed: 6 "Diam. from 0 ft. to 381311	Heaving rock salt, sand, and	
Threaded [] Dlam. from ft. to ft.		35 39
Welded X Diam. from ft. to ft.	Hard packed sand, water-	
Perforations: Yes D No K	bearing	9 -
Type of perforator used		
SIZE of perforations in, by in.		į
perforations from ft. to it.		
perforations from		
pertorations front accommend to to the second		
Screens: Yes My No [] -		
Screens: Yes IN No D Johnson Manufacturer's Name Johnson Type Stainless Steel Model No. 38131		
Type Stainless Steel Model No. 39171		
DiamD Slot size		
Dlam. Slot size from It, to It, to	-	
Gravel packed: Yes 1 No X Size of gravel:		
Gravel placed fromtt. tott.		
Surface seal: Yes No To what depth? 30ft.		
Material used in seal Bentonite & Concrete	DEOFILE	<u></u>
Did any strata contain unusable water? Yes [] No [X]		4.6
Type of water? Depth of strata	The state of the s	
Method of Seams strate officers	11070 - 4000	
(7) PUMP: Manufacturer's Name	MAY 22 198D	
Туре: НР		0.07
(8) WATER LEVELS: Land-surface elevation show mean sea level.	DEPARTMENT OF ECOL	
	- ::::::::::::::::::::::::::::::::::::	}``
Static level Flowingtt. below top of well Date		
Artesian pressure		
Artesian water is controlled by(Cap, yalve, etc.)		
(0) TWEET THESTS. Drawdown is amount water level is	Warral E 90 Norma	<u> </u>
lowered below static level	Work started March 5, 19 80 Completed March	h 10 _{, 19} , 80
Was a pump test made? Yes No I If yes, by whom?	WELL DRILLER'S STATEMENT:	
Yield: gal./min. with ft. drawdown after hrs.		d this nament is
D D 1	This well was drilled under my jurisdiction an true to the best of my knowledge and belief.	d this report is
Recovery data (time teken as zero when pump turned off) (water level		
measured from well top to water level)	NAME HARBOR PUMP & DRILLING C	O. INC.
Time Water Level Time Water Level Time Water Level		pe or print)
	33700 Bumban Da Mil Ota	t Uombom 1
	Address 11302 Burnham Dr. My Gig	,dar.qor.• /
	Elmas Calmanil -	ነ ፓን ማደደግ፣
Date of test	(Signed) (Mell Signer)	By: P. Mil
		,
Artesian flow	License No. 223-01-8455 Date March	18 _{, 19} 80
Temperature of water	0078 ·	10mm
	VV 10	

Appli. No. 9822

Permit No. 8668

STATE OF WASHINGTON DEPARTMENT OF CONSERVATION DIVISION OF WATER RESOURCES

WELL LOG	· ·	
Record by Driller		
Source Drillers Record		
Location: State of WASHINGTON		,
County Pierce		3
Area Goy't lot 2		
XX sec. 13. T.22. N., R. 1	·	
Drilling CoRichardson Well Drilling Co	Diagram o	f Section
	Vash	***************************************
Method of Drillinglew well & cablate	4/26)	, 1968
Owner Buck & Haywood, Inc.		***************************************
Address P.O. Box 307, Gig Harbor,	Wash	
Land surface, datumt above below	era ye ye iki ili manendi. 1 Yerifaran manan baran ma	······································
SWL: 8 Date April 26, 1968	Dims.:.8!	X 109
	- 1,	1
CORRE- LATION MATERIAL	From (feet)	To (feet)
(Transcribe driller's terminology literally but raraphrase of material water bearing, so state and record static level if rebelow land-surface datum unless otherwise indicated. Correlate if feasible, Following log of materials, list all easings, perforation	is necessary, in sported. Give with stration one, servens, et	perentheses. lepths in feet phic column, c.)
Group domestic		72
The state of the s	· · · · · · · · · · · · · · · · · · ·	
Top soil	n -	
Hardpan	5	17
Gravel & sand, coarse	17	20
Hardpan		20
the state of the s	1 2 O	26
	20	26 31
Sand - Water bearing	26	31
Sand - Water bearing Sand & clay	26 31	31 38
Sand - Water bearing Sand & clay Sand, hard packed	26 31 38	31 38 · 42
Sand - Water bearing Sand & clay Sand, hard packed Clay & sand, blue	26 31 38 42	31 38 · 42 · 46
Sand - Water bearing Sand & clay Sand, hard packed Clay & sand, blue Clay, blue	26 31 38 42 46	31 38 · 42 · 46 80
Sand - Water bearing Sand & clay Sand, hard packed Clay & sand, blue	26 31 38 42	31 38 · 42 · 46

rain ab

Sand & clay, fine

Sand & gravel, coarse-water

Sirection

103

Appli. No. 9822

Permit No. 8668

STATE OF WASHINGTON DEPARTMENT OF CONSERVATION DIVISION OF WATER RESOURCES

WELL LOG				٠.	٠.	-, ·.	
Record by Driller	·						·
Source Drillers Re-	cord			·;			ļ
Location: State of WASHIN	GTON			0		4 .	
County Pierce	ri Lima	1.4.2	··· · · ·	-,- - ~	/	5	
Area	- :			: ·_		تجريد	
XXXX Gov't lot	<u> </u>					- Sec	
XX sec. 13. T	22.N.,	Ř 1.	· 基.小.	بار بار مارا	47 S. 47 * \$	1	• • • • •
Drilling CoRichardson !				mpa Mpa	igram o NV	e Sect	ion,
Address 219 So. 115	th St	Tac	oma`	Wa	sh.		
Method of Drillingiew.						17 15 1	668
Owner Buck & Haywood			Ψ,		* *	2	- ' '
Address P.O. Box 3	•• •		har.	์ ฟล	έĥ 🔭		
Land surface, datum	, t	ibove			4		······································
SWL: 8 Date Ap		elow <u>'</u> '''	1968	Dir	ns.: 8!	Х.	109 '
CORRE- LATION 77 MA	TERIAL		1		fom feet)	(1	To eet)
(Transcribe driller's terminolog	y literally	but rarap	hrase a	s nece	ssary, j	1	47

(Transcribe driller's terminology literally but paraphrase as necessary, in parentheses. If material water bearing, so state and record static level if reported. Give depths in feet below land-surface datum unless otherwise indicated. Correlate with stratificablic column, if feasible. Pollowing log of materials, list all casings, perforations, serious, etc.)

Group domestic	T	7.4
The second secon	7 213 10 41.	1900-00
Top soll	Ò.	5
Hardpan +	5	17
Gravel & sand, coarse	17	20
Hardpan	20	26
- Sand - Water bearing	26	31
Sand & clay	31	38
Sand, hard packed	38	· 42
Clay & sand, blue	42	46
Clay, blue	46	.80
Sand-water, fine	80	- 85
Sand, fine & coarse gravel	85	87
Sand, fine	87	103
Sand & clay, fine	103	105
Sand & gravel, coarse-water	105	109

Turn ür

Sheet sheets

WELL TOO	1 *** *	. 6:
WELL LOG.—Continued No	·············//	
CORRE- LATION		
LATION MATERIAL	From (feet)	To
		To (feet)
Depth forward	ı	
Casing 8" from 0-105"		
文文 章 [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2		
Screen installed from	<u> </u>	
105! to 109	<u> </u>	2
	<u> </u>	
Yield; Bailer test 100 gpm with		20 (10 20 (10 20 (10)
cost 100 gpm with	42' DD	2.50 21%
Slow final recovery	· ·	
Date: April 26, 1968		2.3
** 		2.5
Pump; Jet 2 H.P., Universal		1 6
2 Universal		
		7.57
11.00		
THE RESERVE OF THE PARTY OF THE		
Mr. Alleria		
2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		and the same
	1 7 7	
No. of the Control of	3.0	
Control Section 1987		
Mark The Control of t		
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19 00 00		
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The second secon	-	-
No. 7449—OS—12-65.		
No. 7449—OS—12-65.	<u></u>	
		1463 1463

	WATER NE STATE OF	LL REPORT WASHINGTON	" 11-k n:.	rd No. jht Permit No	048232	
(I) OWNER: Name CARTWRIGHT TOM	Address 1122	O LOSTH AVE KPK - 016	HARBOR, WA 98	2222222222	=======	
(2) LOCATION OF WELL: County PIERCE (2a) STREET ADDRESS OF WELL (or nearest addres		<u> </u>	entererentarion		**************************************	*********
(3) PROPOSED USE: DOMESTIC		! (10) WELL LOG	:========	;		2222222
(4) TYPE OF WORK: Owner's Number of w			by color, char	acter, size	of mater	ial
NEW WELL (If more than one) MEN WELL Method: AIR ROTARY	[2222224444444444444444444444444444444	Formation: Describe and structure, and and nature of the many and and mature of the many areas.	snow thickness laterial in each	or aquiters I stratum pen	ano the i etrated,	vith
(5) DIMEMSIONS: Diameter of Drilled 119.3 ft. Depth of completed	vel(b inches vel(119 ft.	MATERIAL	TOT BUTH CHANGE	***********	FRON	TO
(6) CONSTRUCTION DETAILS: Casing installed: 6 * Dia. from 0	ft. to 114 ft. ft. to ft.	S BROWN CLAY SAND A SOUN CLAY & SAND A CEMENTED SAND AND E BROWN CLAY GRAVEL &	RAVEL		0 1 8 30 50 70	01 8 30 50 70
Perforations: NO Type of perforator used SIZE of perforations in. b perforations from ft. to perforations from ft. to perforations from ft. to	y in. t. t. t.	SILTY SAND WATER			/0	119.3
Screens: YES Manufacturer's Name Type Diam, 6 slot size 30 from 114.3 Diam. slot size from	USTON ft. to 119,3 ft. ft. to ft.					
Gravel packed: NO Size of Gravel placed from it. to	gravel t.	1 } f [
Material used in seal BEHTONITE CLAY Did any strata contain unusable vater?)	f strata ft.					
(7) PUMP: Manufacturer's Mame Type	H.P.] 				
(B) WATER LEVELS: Land-surface elevable de la labore de l	vation evel ft. ell Date 09/29/92	1		,	1	
**************************************		Work started 09/23/		Completed 09/		
(9) WELL TESTS: Drawdown is amount water level static level. Was a pump test made? MO If yes, by whom? Yield: gal./min with ft. drawdown	is lowered below	WELL CONSTRUCTOR CE Constructed an struction of thi	RTIFICATION: d/or accept res s vell, and its construction st ion reported ab	ponsibility f compliance w andards Mat	or con- ith all erials u	sed - ·
Recovery data Time Water Level Time Water Level T	Time Hater Level	HAME RICHARDSON WELL Person, firm,	L DRILLIMG or corporation) (Type or p	rint)	
Date of test / /		ADDRESS PO BOX 4442	7 TAC NA 98444			
Baller test gal/min. ft. drawdown Air test 60 gal/min. w/ stem set at 110 Artesian flow g.p.m.	n after hrs. ft. for 1 hrs. Date	Contractor's	Last 1	License Ho, I	424	
	analysis made? NO	l Registration No. RT(HAR 324 6B	Date 11/0		

Depa	Original and First Copy with ntment of Ecology nd Copy — Owner's Copy d Copy — Driller's Copy
	OWNER: Name
(2)	LOCATION OF WE
Bear	ing and distance from section
(3)	PROPOSED USE: 1
(4)	TYPE OF WORK: New wall Despend Recondition
(5)	DIMENSIONS:
(6)	CONSTRUCTION DI Casing installed: Threaded [] Wolded S Perforations: Yes [] Type of perforator use SIZE of perforations

WATER WELL REPORT

STATE OF WASHINGTON

W.R.C.	1931	سسي	***************************************	
Z+ T	0	11	<i>/</i> *	7

-€ 3

(1) OWNER: Name nar ofte B. Widen	exteress 14810 State Rd 16	GiaHach
(2) LOCATION OF WELL: County Pierce	13 30	N D I Fill
Bearing and distance from section or subdivision corner Leg-		W., A.J.
(3) PROPOSED USE: Domestic M Industrial [] Municipal [(10) WELL LOG:	
Irrigation Test Well Other		d structure and
(4) TYPE OF WORK. Owner's number of well	Formation: Describe by color, character, size of material an show thickness of aquifors and the kind and nature of the stratum penetrated, with at least one entry for each chan	material in each ge of formation.
(If more than one)		ROM TO
New Well Method: Dug Bored Deception Cable Driven Method: Dug Driven Dug Driven Method: Dug Driven Driven		
Reconditioned Rotary Jetted		
(5) DIMENSIONS: Diameter of well inches.		
Drilledft. Depth of completed well		
· · · · · · · · · · · · · · · · · · ·		
(6) CONSTRUCTION DETAILS:		
Casing installed: tt,		
Threaded '		
Perforations: Yes [] No [S		
Type of perforator usedin, byin,		
perforations from		
perforations from ft. to ft.		
perforations from		
Scroens: Yos 🗖 No 🗷		
Manufacturer's Name		
Diam, Slot size from		
Diam. Slot size from ft. to ft.		
Gravel packed: Yes No K Size of gravel:		
Gravel placed from		
Surface seal: Yes Note: To what depth?		
Did any strata contain unusable water? Yes 🗍 No 🕱		
Type of water? Depth of strata		
Method of sealing strate off		
(7) PUMP: Manufacturer's Name (1)		
Type;		
(8) WATER LEVELS: Land-surface elevation / O		
Static level		-
Artesian pressurelbs, per square inch, Date		
Artesian water is controlled by VAVE. (Cap, valve, etc.)		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level		
Was a pump test made? Yes No K If yes, by whom?	Work started Completed	19
Yield: 5 gal/min, with NO ft. drawdown after NO hrs.	WELL DRILLER'S STATEMENT:	
n n	This well was drilled under my jurisdiction and	this ronart is
0 0	true to the best of my knowledge and belief.	mo report is
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	NAME(Person, firm, or corporation) (Type	or nelati
	Address	***********
Date of test	PÁL N	
Baller test gal./min. with tt, drawdown after hrs, Artesian flow g.p.m. Date	[Signed](Well Driller)	
Artesian flow Date		
Temperature of water. J	License No Date	19

White

WATER WELL REPORT

Application	No.	***************************************

ranta copy — Diffier's Copy STATE OF 1	VASHINGTON Permit No		
(1) OWNER: Name Dale Kooley	Address		
(2) LOCATION OF WELL: County Pierce	NË " NE " sao 24 m2	2 v n 1	E was
Bearing and distance from section or subdivision corner	<u> </u>	mNg Bar	
(3) PROPOSED USE; Domestic M Industrial [] Municipal []	(10) WELL LOG:		
Irrigation Test Well Other	Formation: Describe by color, character, size of materic show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each c	il and struc the materia	ture, and it in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	rrom	ormation. TO .
New well M Mothod: Dug Bored	19' Augered surface seal hol	<u> </u>	10 .
Deepened 🖸 Cable 🕉 Driven 🖸	Brown sandy soil	0	
Reconditioned [] Rotary [] Jetted [Gray hardpCan, rocks	5	
(5) DIMENSIONS; Diameter of well 10 inches.	Brown hardpan	54	80
Drilled 316 ft. Depth of completed well 316 ft.	Mostly brown sand	80	114
/e) CONTRIBUTIONS THE BATT C.	Some gravel mixed in here &	-00	- in the
(6) CONSTRUCTION DETAILS:	some Seepage	114	130
Casing installed: 10 " Diam. from 0 ft. to 302 ft.	Mostly brown sand cleaner		
Threaded" Dlam, from ft, to ft.	some water	130	140
Welded 5 "Dlam, from tt. to	Gray clay	140	147
Perforations: Yes 🗆 No 🔂	Silt	147	154
Type of perforator used	Solid gray clay silt layers		
SIZE of perforations in, by in,	mixed in	154	214
perforations from ft, to ft.	Hard gravel, hardpan	214	237
perforations from	Layers of brown clay & peat	237	250
<u></u>	Blue clay	250	263
Screens: Yes & No O Johnson	Lamenated layers of clay &		
Manufacturer's Name DOMNSDN Type Stainless Steel Model No.	sand	263	275
Diam. 10" Slot size100 from301, ft. to .310 ft.	Hard packed coarse sand &		
Diem. 10" Slot size100 from .301. ft. to 310. ft. Diem. 10" Slot size80 from .310. ft. to 316. ft.	gravel - water bearing	275	<u> 296</u>
Characteristics	Gray hardpan	296	<u> 299</u>
Gravel packed: Yes No M Size of gravel:	Loose coarse sand & gravel		
Gravel placed from ft. to ft.	water bearing	299	317
Surface seal: Yes No 1 To what depth? 18 ft. Material used in Seal Mfg. Clay 250#			•
	B-10-1-10-10-10-10-10-10-10-10-10-10-10-1		
Did any strata contain unusable water? Yes [] No []			
Type of water? Depth of strata Niethod of sealing strate off			
	5=0.		
(7) PUMP: Manufacturer's Name	DEC 1.5 1978		
Туре; НР	P. 45 4	 	
(8) WATER LEVELS: Land-surface elevation	1437 OTT 1911 CT COLLETY	 	
Static level 181 above mean sea level 11-18-76	\$307!!!! <u>/237 1227 1770</u>		
Artesian pressure			
Artesian water is controlled by(Cap, valve, etc.)		 	<u>-</u>
			-
(9) WELL TESTS: Drawdown is amount water level is lowered below static level Mailed	Work started Oct. 21, 1976. Completed No.	v. 18	₁₀ 76
Was a pump test made? Yes 🕱 No 🖂 H yes, by whom?		nasinnaila a	ng 10alama
Yield: 220 gal/min, with 20 ft. drawdown efter 12 hrs.	WELL DRILLER'S STATEMENT:		
<u>" 220 " 2816" " 3 "</u>	This well was drilled under my jurisdiction	and this r	eport is
<u>" 220 " 28¹8" " 5 "</u>	true to the best of my knowledge and belief,		
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	Francis Hambon Pump & Duilling	Co 3	īne.
Time Water Level Time Water Level Time Water Level	NAME Harbor Pump & Drilling (Person, firm, or corporation)	Type or pri	
	7825 L6th Area GigNHs		-
	Address /OZ) 405H AVE. , GIRAHA	1 0 01 ,	114211
11_16.76	Time Flores av 11	- A -	. 1. 1
Date of test	[Signed] Jim, Elmes 4 02	: ولات	bls
Artesian flow) -7:4		
	License No. 223 O1 8455 Date Nov.	. 22	10 76

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

WATER WELL RI SHIN

H: JULIE OLUL				
	Permit No			
Address 3212 No 24th Tacoma, WA	. 98406) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
NW _14 NW _14 Sec. 24 _ T.	22 _{N., R.}	1E w.m.		
10) WELL LOG:				
ormation: Describe by color, character, size of mater how thickness of aquifers and the kind and nature of tratum penetrated, with at least one entry for each	lal and stru the mater change of	cture, and lat in each formation.		
NATERIAL '	FROM	то		
Sandy Top Soil	0	5		
Sand & Gravel with large	<u> </u>	<u> </u>		
rocks	5	±k.8		
Sandy brown clay	<u> 8</u>	14		
Wet sand & gravel	14	22.		
Gray hardpan	22	25		
- Gray clay hard pan :	25	30		
Blue-elay	30	76		
Clay chunks & gray sand	76	80		
Gray waterbearing sand./	<u> </u>	<u>. </u>		
water flowing	80	85		
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DETAIL OF ECULOGY		$ \nu$		
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and the second s		<u> </u>		
The second secon		 		
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p. the second of	1	4.		
	 			
	7 (4	<u> </u>		
York started 7/1, 19.7.3. Completed		<u> 19(.2</u>		
VELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction rue to the best of my knowledge and belief. Harbor Pump & Drilling Co (Porson, firm, or corporation)				
Address 7825 46th Ave. NW Gig Har	***************			
Signed] Elmer Colplasies by B	. P. Wi	les		

Third Copy — Driller's Copy	STATE OF W	ASHINGTON		Permit N	ło, ,,,,
(1) OWNER: Name Don Peterson	M-0-747-4-1-04054-9-07-04055-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Address 3212	No 24th	Tacoma,	WA. 98406
(2) LOCATION OF WELL: County					T. 22 N., R.
Bearing and distance from section or subdivision corner				•	
(3) PROPOSED USE: Domestic XI Industrial [3]	Municipal II	(10) WELL LO	OG:		1.
Irrigation Test Well	Other 🗆	Formation: Describe show thickness of a stratum penetrated,		cter, size of markind and nature	terial and stre
(4) TYPE OF WORK: Owner's number of well (if more than one)	and the second s	· 194 - W-17 - 4 1 .	NATERIAL		FROM
New well 🙀 Method: Dug-	🗋 Bored 🗀	Sandy T	on Soil		0
	Ø ∵Oriven □ □ Jetted □		Gravel wit	h large	
			cks	-	5
(5) DIMENSIONS: Diameter of well = 5			rown_clay		<u> </u>
Drilled 85 tt. Depth of completed, well 7	Dr. Hribenskiege		d & gravel		14
(6) CONSTRUCTION DETAILS: /	AND THE STATE OF T	Gray ha			22
Casing installed: "Diam. from	to 324 ft.	Gray cl		n ·	25
Threaded	to %73.4".tt.		Ay		30 76
Welded "Dlam. from the transfer the	to		unks & gra terbearing		10
Perforations: Yes [] No. II			r flowing	, sanday	80
Type of perforator used			7. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	स्त्राक्रम्य सम्बद्धाः स	
SIZE of perforations in by	าน่านั้นการการทำนำ รูปรีก			*I#	
perforations from		6 11111	<u> </u>	*	
perforations from ft. to		<u> </u>			
Screens: Yes 🖂 No 🍇	American St. 1811	* -1 = *.	1	. 100 - 3	
Manufacturer's Name]	- 121-5		= = . .	
Type Model No_					
Dlam. Slot size from ft.	io				
Gravel packed: Yes No & Size of gravel:	***				
Gravel placed from it. to	a er e e e			A VIET	—
Surface seal: Yes id No 7 To what depth? Material used in seal II Coment 8 sack	<u> 32 </u>		سي جنز و	N 89 11 1	9
Material used in sealant contain unusable water? - Ye		. 	AUG 1	F 1075	
Type of water?			. 365 1 To 2	<i>J.I.J.</i>	
Method of sealing strate oil			02 7.37 JENT	OC. SOULDON	
(7) PUMP: Manufacturer's Name Berkeley.	. ž. 14.				
rype: Submersible let	12				<u> </u>
(2) WATER LEVELS. Land-surface elevation	~15 m		**************************************	*** *** ; ;	
(8) WATER LEVELS: Land-surface elevation above mean sea level	marine de la constanta de la c		and a		
Artesian pressure lbs. per square inch Date.	17/8/17		#1.11	•• •	
Artesian water is controlled by " Gatesian (Cap, valu	e, etc.)			- 4	
					
(9) WELL TESTS: Drawdown is amount water lowered below static level.		Work started	7/1, 19.7	4. Completed.	<u>7/8</u>
Was a pump test made? Yes [] No [] If yes, by whom?		WELL DRILL	ER'S STATI	EMENT:	
D D D	1 · 11	P4	drilled under		on and this
11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. The second of	true to the best			
Recovery data (time taken as zero when pump turned off				Tutil I dina	Co Tro
measured from well top to water level). Time Water Level Time Water Level Time	.: M. Water Level	NAME Harb	or rump &	DITTTIE	(Ture on t
3 2 3		· ·	orson, firm, or 46th Ave.		Type or p) arbor_ W
		Address: (02)	HOOII WAGE	0-E 11	
7-0-71	8	cn.	100	by ریز کی	B. P. W
Date of test 7 75 H. drawdown alt.	er to her	[Signed] <i>Canal</i> 01.76	n vegra	(Well Driller)	
Artesian flow 50 g.p.m. Date 7	1.7.5		•	17	/16
Temperature of water Was a chemical analysis made		License No. 223	VI 0477	Date!	/ ! \

22	IE IBMI. le assites	
STATE OF WASHINGTON DEPARTMENT OF CONSERVATION	PEDULE No. 1961	Tu n ut

ogs should be	# # # # # # # # # # # # # # # # # # #	
SCREENS AQUITERS b low 1 r full r cord Co plet logs should be b c f gm ntarv logs may be entered her)	O O nume tout h	
SCREENS AQUITERS h low 1 r full r cord b t i gm marv legs n		
	MISCELLANEOUS	
LOGS CASINGS lednes adu pa	d 1 % to	
LOGS (As a cessary weert to days) to odd on separ to fom fo	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
WELL SCREDOLL CONTINULD LOGS CASINGS (As a cessary ween le drus ral u pa	Spall Spall	

AZ IE ISW The number		
STATE OF WASHINGTON DEFARTMENT OF CONSERVATION AND DEVELOPMENT No. 22 / L - /3 M Becord by Well: Afr.': 8/5/64 Source Location State of WASHINGTON County DLC : Area Map Map Map Details Details	Owner Eastwest Athis Ghilb W (Fir No) Address Rt 3 - Frv : (f. Chilb W) (Fir No) Address Rt 3 - Frv : (f. Chilb W) (Fir No) Topography Leach Mark Mark Midnes, Land surface datum Mark Mine Data Boxel Jetted Dave Dug (Drilled) Driven Boxel Jetted Mine Mine Mine Mine Mine Mine Mine Mine	al min Meas Rept I's minping gal min

DEPARTITION,	(
DEPARTMENT OF CONSERVATION AND DEVELOPMENTAPP	Ņ. ,
AERI TOG	· #7288
Date October 19 - 10 6/	
Record by Owner	
Source	
The state of the s	
Location: State of WASHINGTON	
- County Pierce	/ 3
Area	维生活
Maprious Sur Se 18	
Boyt Loty W sec 13 122 IN P I F E	3.77.00
Drilling Co. Diegram	of Section
Address	distriction
4	hannagarra lajaraman
Method of Drilling Driven	
Owner Earnest A. Christensen	
Address Route 3, Box ALA Cir Van	
Land surface, datumin 32 if above	hington -
De10W	
CORRE	
MATERIAL THICKNESS	Depre
If material past diller's terminology silvatorial district	(leet)
below land-sutface datum unless otherwise lattic level if tenorted on in if feasible. Follows and in unless otherwise level if tenorted on	parentheses.
(Transcribe dellier's terminology-literally but paraphrase as necessary, in below land-surface datum unless otherwise indicated. Correlate with stratigra if feasible. Following log of materials, list all casings, perforations, screen, etc. Bomestic well	phic column.
Domestic well	
(No record)	16
Note: 24! well de 12	
well dralled first to 801	then.
few weeks later both at	
few weeks later, both about 19/1	
October 14: 1964: 24" well flowed about	
3-4 gpm; 60 well had considerably more	·
flow, but controlled by valve Each w	
	ell…·图
Artesian pressure 15 lbs psi	三 月
Libs psi	
and the state of t	
and the second s	
THE STATE OF THE S	
IND.	——————————————————————————————————————
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	DEPARTMENT OF CONS	ERVATT	ON	(.
4	WELL LOG AND DEVELOPM	ENTApp	li. #	7288
	Date October 19 No.	 		
	Record by Owner			
	Source			
	The state of the s			
<i>I</i>	ocation: State of WASHINGTON		:: []	
	County Pierce		/3	
	Area		7 5	
المناهدة		⊕ ~i=	-	
· .To	vt. Low 4 - 4 sec. 13-p2 N, R I E E			
D.	rilling Co. N. R. I. E. E. W.	Diegra	m'of Sèct	on
	Address	سخير، در سد او موه	no Taka Gerra	
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Ωı	Method of Drilling Driven Date	ويسدون والمتاوية	***************************************	······
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	Address noute 3, Box LLA Cia Way	Or Ma		*******
. Lai	ud surface, datumre		sningt	on :
	"below"		*****	·,·
LAT	DATERIAL MATERIAL	1		<u> </u>
	(Daniel of the state of the sta	THICKNES	DEPT	Н
If m	(Transcribe driller's terminology-literally but parephrase as a sterial water-bearing/yo atate and record static level it rape with the following tog of materials, list all casings, perforations DOMESTIC Well	naviore and	denne de la	بر بنجسبت
il lea	sible. Following log of materials, list indicated. Correlate w	rted. Give	nebtya iu nebtya iu	eses. feet
	Domestic well	* *creens, e	aphic colu c:)	ma, 🛶
	(No record)		1-	
	Note: 200	16 16 2	-	
	Note: 24" well drilled first to	5 80 L	to the same	_ Š
· // * * * * * * * * * * * * * * * * * *	6" well drilled inside 24" well few weeks later both	+0"16	onen.	—: <u> </u>
	few meeks later, both about 194	7 5222	<u>∪', -a</u>	
	October 14, 1964: 24" well flow		150	
	3-4 gpm; 60 well had considerab	su abo	ut	<u>-</u> :劉
	flow, but controlled by valve	TA mon)	_\$3
	obtains from different aquifer	±ach k	te l.1 😳	<i>-</i>
	USSING COLUMN		1	
	Artesian pressure 15 lbs psi.		~ 54.2 	
	- Jus psi	<u> </u>	-1	
	2000	<u> </u>		-13 13
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n up				- 4
	Chart			.}

DEPARTMENT WASHINGTO
DEPARTMENT OF CONSERVATION AND DEVELOPMENT APPLI. #7288
The Marie Tod. W. #7288
Date October 19 No. No.
Record by Owner
Source
Location: State of WASHINGTON
County Pierce
Area
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Mapi See See See See See See See See See Se
Driving W. Sec. 13 R2 N. R. I. E. F. Diogram of Sadi-
Companyation We state We state to the state of the state
Address
Method of Drilling Driven
Owner Barnest Anthropatal Batemann Date.
Address Route 3, Box 4/4 Ciant
Land surface, datumic that above transfer to the land surface, datumic that above the land surface to the
Delow
CORAEL
THEOREMAN
(Transcribe drillor's terminology-inerally but paraphrase as necessary, in parentheses, leading log of material water-bearing, so state and record static level if reported. Give depths in feet feasible. Following log of materials, list all easings, perforation with stratigraphic column.
flow land surface datum unless otherwise indicated the level it reported Give the parentheses.
material water-beauing, so state and record static level if reported. Give the parantheses, feasible. Following log of materials, list all easings, perforations, screens, etc.) Domestic (word)
(No record)
Wote: 24", well drilled first to 80', then
few meeks later hoth at well to 180', a few meeks later hoth at
Tewayester a west to 1901
few weeks later, both about 1941. October 14, 1964: 24, well flowed about 3-4 Rpm: 61 well had consider
3-4 gpm: 61 wall well lidwed about
Trow but controls work more
flow but controlled by valve Each well Casing 8 to 1
- Casing a table
Artesian program
Artesian pressure 15 lbs psi
APERTY
up.

	((;:	The Table Co. Services
	·····	1	F. No. 1449—OS—6-61—2N.
		 	
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	DEPTH (feet)	(166¢) Диіскикза	CORRE- LATION MATERIAL
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<u>्र</u> ्भ '''		\	WELL LOG.—Continued

	DEPARTMENT OF AND DEVE	, COASEDA!	· · · · · · · · · · · · · · · · · · ·
WELL LOG	AND DEVE	LOPMENTA	PPLI. #728
Date October 19	n de la companya de La companya de la co	No.	
Record by Owner	19.64		7
Source.	######################################		
The state of the s			1
Location: State of WA	SHINGTON		
County Filerce.			13
Area	the transfer of the second sec	0 =	
Map Dist	5413		
Lovi Lot- L 4 sec	13-122-N P 1	E E	The last
Co		W. T. W.	gram of Section
Address.	The same of the control of the same		Same street of the same of the same of
Method of Drilling	Driven		
Owner warnest A	Thriat an	Date	19.42
Address Route 3	Box III Co	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.	Trapes de la Tra
Land surface, datumiz	The second second	narbor,	l'ashington
	below		4
CORREL	MATERIAL		
A Comment of the Comm	The state of the s	THICK.	NESS DEPTH
(Transcribe drillor's termin If material water-bearing, so at below land-surface datum unless if feasible. Following:	ology-literally but parap	brase as money	Carlos Carlos
below land-surface datum unleas if feasible. Following log of mate	privile 3	770 31	ive depths in feet
Domestic wel	1	forations, screen	ete.)
(No record)	28 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	ida a rom ji	
Note: 2/.11	7.7		
64 WP77 d-17	ll drilled fj.	rst to 80	hi than
few models in the	led inside 24	well to	1901
Octobos 1	ter, both about	t 19/ h	-100 1-8
October 14.1	964: 24" well	flowed	
P. P. P. P. W. W.	rell had considered by	derah 1 tr	DOUE
flow, but con	trolled by va	lve Fant	i well
	J. T. T. O D. A. L. T. T. T.	ferror :	1 We I
Casing 8 to	15 (
Artesian press	sure 15 lbs ps	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2			
	W		十二月
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WATER WELL REPORT STATE OF WASHINGTON

Application	No.	E14************************************
Permit No		

(1) OWNER: Name Edward Hoffman	Address4906NoLexingtonTagoma Wm	9860	7
(2) LOCATION OF WELL: County Pierce	_ SE v SE v so 13 m 2	2	7
Bearing and distance from section or subdivision corner	Tuck	Man May Han	M.M.
(3) PROPOSED USE: Domestic * Industrial Municipal	(10) WELL LOG:		
Irrigation [Test Well [Other [
	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of i stratum penetrated, with at least one entry for each ci	ne materi	cture, and al in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	FROM	TO
Now well (!) Method: Dug [] Bored [] Deepened [] Cable M Driven []	Brown silty sand	0	18
Deepened ☐ Cable & Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐	-Blue clay	18	<u></u>
	Coarse brown water bearing sand		7.
(5) DIMENSIONS: Diameter of well 6 inches. Drilled 96 tt. Depth of completed well 96 tt.	and gravel	93	96
Drilled 96 tt. Depth of completed well 96 tt.			
(6) CONSTRUCTION DETAILS:			
Casing installed: 6 "Diam. from O ft. to 96 ft.			
Threaded [] Diam, from	<u> </u>		
Welded [] Diam. from ft. to	``		
Perforations: Yes [] No Ki			
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 fc			
Manufacturer's Name			
Typo Model No.			
Diam, Slot size from ft, to ft			
Gravel packed: Yes [] No E Size of gravel:		-	
Gravel placed from ft. to ft.	7.		
Surface seal: Yes to No D To what depth?18	MFO.		
Material used in scal Bentonite	CF1.		
Did any strata contain unusable water? Yes 🗌 No 🖸	0. 150		
Type of water? Depth of strata.			
Method of sealing strate off	SOUTHWEST REGIONAL OFFICE		
(7) PUMP: Manufacturer's Name.	OUTHWENT OF 8		
Туре:	- CST OF FOR		
(8) WATER LEVELS: Land-surface eloyation	- GIONAL OGY		
(8) WATER LEVELS: Land-surface elevation above mean sea level	OFFICE .		
Artesian pressure			
Artesian water is controlled by	·		 -
(Cap, vaive, etc.)	 		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	9 23 80 8	17	ma.
Was a pump test made? Yes [] No [] If yes, by whom?	Work started 8-11 19 78 Completed 8	-16	., 19 / 8
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT;		
V V 17 11 27	This well was drilled under my jurisdiction as	ad this r	eport is
19 15 17 29	true to the best of my knowledge and belief.		
Recovery data (time taken as zoro when pump turned off) (water level measured from well top to water level)			
Timo Water Level Time Water Level Time Water Level	NAME arbor Pump & Drilling Co. Inc		
		ype or pri	•
<u> </u>	Address 11302 Burnham Dr NW., Gig Han	rbor, V	m
the same of the sa			
Date of test	[Signed] Chara Colphager by: S. Ko	ostele	ky
Artesian flow	[Signed] Limes Colglegue by: S. K. 0078 (Well Driller)		
Temperature of water	License No. 223 01 8455 Date 8-3		
	•		

STATE

WELL REPORT	Start Card No. 0587/
OF WASHINGTON 2	. Wa

(1)	OWNER: Name (+++9 Tuerson	Address . O. Bar 974 Ola	(la 4	<i>]</i> =
(2)	LOCATION OF WELL; COUNTY PIETCE	5 15 4 S W4 sec 1 3 T	2.2 5.	1 F
٠,	STREET ADDDRESS OF WELL (or nearest address).			
(3)	PROPOSED USE: Omestic Industrial Municipal	(10) WELL LOG or ABANDONMENT PROCEDUR		
<u></u>	DoWater Test Well Other C	Formation: Describe by color, character, size of material an lhickness of aquifors and the kind and nature of the material in ea with at least one entry for each change of information.	erufounts b mularie dos	, and show. penelrated,
(**)	TYPE OF WORK: Owner's number of well (If more than one) Abandoned New well Method: Dug Bored	MATERIAL	FROM	TO
	Deepened 🔲 Cable 🖅 Driven 🗋	Krown Tup	۵	2
(5)	Reconditioned ☐ Rotary ☐ Jetted ☐ DIMENSIONS: Diameter of well	18 town Sand	ລ	<u>A</u>
	Drilled 90 feet. Depth of completed well 70 ft.			-0.:0
(6)	CONSTRUCTION DETAILS:	Brown Till	8	25
	Casing installed: 6 Diam. Iron O ff. to 85 ff.	Gray Till	22	3.7
	Welded	13 7:11	37	((2)
	Perforalions: Yes No.	Sand + gravel	5/	60
	Type of perforator used	Bara to and oct		
	SIZE of perforations in. by in.	Brown Till	60	67
	perforations from th. to the th. to th. th. to th. th. to the th. th. to th. th. to th.	13	72	C CC
	perforations fromft, toft.	IStown Sand & Frauel	67	63
	Screens: Yes No	13 Hawy Till	68	フラ
	Manufacturoria Name SMIT4	<u> </u>		
	Type > [Q/A CS3 Model No. Dism 5 Stot size 8 from 8 5 ft, to 9 0 ft.	181-000 grave 1 Ksand	77	90
	Diam Siol size from the local size from the	· · · · · · · · · · · · · · · · · · ·		
	Gravel packed: Yos No Sto of gravel.			
	Graval placed from tt. to tt.			
	Surface seal: Yes A No Townat depth? 20 (t.			11
	Material vaed in seal			
	Did any strata contain unusable water? Yes No			
	Type of water?Depth of strate		-	~
(7)			Ĭ	
(,)	PUMP: Manufacturer's Namo	,		
(8)	WATER LEVELS: Land-surface elevation H.P.			
(6)	Static lavel 2 It. below top of well Date 11.			****
	Artesian pressure [bs. persquare lach Date			
	Artesian water is controlled by (Cap, varie, etc.))		,1	
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started Oct S, 19. Completed No.	<u>u. /</u>	
	Was a pump tost made? Yes No Whom?	WELL CONSTRUCTOR CERTIFICATION:		
*********	Yield: gal./min, with tt. drawdown after hrs.	i constructed and/or accept responsibility for constr	uction of	this viell,
	t) tr h	and its compliance with all Washington well consi Materials used and the information reported above a	iruciion a ire true to	tandards. My best
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	knowledge and belief.		
	Time WaterLevel Time WaterLevel Time WaterLevel	NAME OSCA OSCINIVO	(TYPE OR	ppam
		Address 1598 SE Orgon ST	r 12 1	Orland
	Date of test	Address 1 7 10 3 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> 19 F I</u>	O LETTERY
	17 750 0	(Signed) CLANY John License No	. 12	16
		Contractor's (WELL DRIVER)		
	Airtesi gel./min. with stem set at H. for hrs. Artesian flow g.p.m. Date	No. OSEN PIOILO Dale Dec. 6	<u> </u>	. 19 <u>9</u> 0
	Temperature of water Was a chemical analysis made? Yes No 4	MICE ADDITIONAL OUTERS IT MESSES	V 12/17	
	ı	(USE ADDITIONAL SHEETS IF NECESS	MMT)	

WATER WELL REPORT STATE OF WASHINGTON

~ \P	Application No. 62-26772 Permit No. 62-20772
Corr	Permit No. 62:20772

loes NOI Warranty the Data and/or the Information on this Well Report.	
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Address Purdy		
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NE NW N Sec 24 T2	N., R.:	
(AV) AMBRIT A O.C.	<u> </u>	
Formation: Describe by color, character, size of materia show thickness of aquifers and the-kind-and nature of	il and stru the materi	cture, and at in each
		TO
Vondage	1	2' 19
		20
Soft sandy hardnan		29
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Hardpan	31	41
Coase sand & gravel	41	45
Making water hardpan	45	47
	47	49
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	56	62
	72	
		<u>64</u> 67
		<u>-07</u> 93
Clav		105
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11 May 76		
13 MC L.		
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Googles traver		
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00t 20 TE		
Work started. UCC. 20, 19 2/ Completed. NO	V• 4.	<u>_, 192./</u>
WELL DRILLER'S STATEMENT:		i
This well was drilled under my jurisdiction a	nd this r	eport is
true to the best of my knowledge and belief.		0,0000
Real Day Day 9 7	^	
	UO. Ype or pr	int)
Address 7825 46th. Ave. NW, Gig		•
4		······································
1 4 ~ 0.		
[Signed] Larry M. Swinn	124	By: b
[Signed]. Larry M. Swing	vey	By: b
_	Topsoil Hardpan Hard packed sand & gravel Soft sandy hardpan Water bearing sand & gravel Hardpan Coase sand & gravel Making water hardpan Water EME bearing sand & g. Hardpan Fine sand & gravel Hardpan Conglomorated sand & gravel & water Clean sand, gravel & water Conglomorated Clay Work started Oct. 28 19. 57 completed No WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction at true to the best of my knowledge and belief. NAME Harbor Pump & Drilling, (Person, firm, or corporation)	Formation: Describe by color, character, size of material and strushow thickness of aquifers and the kind-and nature of the materistratum penetrator, with at least one entry for each change of the materistratum penetrator, with at least one entry for each change of the materistratum penetrator, with at least one entry for each change of the materistratum penetrator, with at least one entry for each change of the materistratum penetrator, with at least one entry for each change of the material and strushold the penetrator of the

22.	. I LE - LBA-L Me control				1
STATE OF WASHINGTON DEPARTMENT OF CONSERVATION	WELL SCHEDULE Date = 10 1981 Record by D.M.	Location Strite of WASIINGTON County, P. C.	r: Hen y. K	Caung Diam. 6 to it Type	Adequacy permanence. Use Dom Stock PS RR Ind Irr Obs. Quality, Sample No

SCRTENS AQUIFERS b low for fill record. Complete logs stould be but fragmentery to 8 may be enter d here.	(FCET)	a	- 22	- 1	J. 1	64	20 69 69	73.5							fan e top che d'ngs he e)					-
AQUIFERS Il record Completents to a may be a	(FEET)	0		1 -	 -					 		_			3		i i I ! I !	 		
LOGS CASINGS SCRIENS AQUIER (As necessary mse the dings and uspee but fragmentery to steep did on sepirite for u to thit purpose but fragmentery to s		brs	6 r - 4p	blary-hp	, 566	hal layeres - "Khp. 5.7.455	6/ cl		7				The state of the s	, , , , , , , , , , , , , , , , , , , ,	MISCELLANEOUS (On face of suh dade till track to 1 netty topis mplitud					

WELL LOG DEPARTMENT OF WASHINGTO	_
WELL LOG DEPARTMENT OF WASHINGTON Date April 23 Record by Drill 19 65 No: Per #7463	•
WELL LOG DEPARTMENT OF WASHINGTO	· ·
AND DOC CONSTITUTE OF CONSTITU	<u> </u>
Date April 23 Record by April 23	3
Record	3
Record by Driller 19 65 No. Permit No. 6974 Location: State of m.	1
ENGINE IN A COMMENSAGE STORY OF THE STORY OF	
Location: State of WASHINGTON. County Pierce Area 2075	
Socation, Single Second	
	·- · .
Pierce INGTON	
Area 20751	
County Pierce Area 2075; W. & 370; N. from Si SW 1/8 SW 4/8 sec. 13	· · · · · · · · · · · · · · · · · · ·
SW 4SW sec 13 122 N, R 1 E O	
1/2 SW Sec. 12	100
Drilling Co. Harbon Pump & Drill Co. Address Rt. 4. Box 4117 Method of	<u></u>
Co. Harbon P. T. Z. N. T.	3
Address Pt	38 ·
Man Box 17 Diagram	
Method of Days	2 .:
wher Mrs Cala	
Address Rt 4 Box 4117 Gig Harbor Lashington Owner Mrs Homer H Laffaw Land surface, datum Corresponded to the surface of the	
address, Rt. 3 P. La Fe. Date	
Land surface, datum. 18 Harbor W	T 3 777
datum 19	` _ @. ·
Cores Wash	~
	- ~:=:=
and the state of t	#
Transcribe driller's terminology literally but paraphrase as necessary, in parentheses, life tending log of materials, list all easings, perforations, screens, etc.) Domestic Well 6/1 X83/- Memory This is ending is ending to the paraphrase as necessary, in parentheses, life to the parentheses, life to	
below levial water	Francis (A.C.
If feasible Bridge data 8. So at the	
blowing log or arte and reconstruction of the state of th	••
Down material its indicate the fewal as a position of the control	-
Correlation Correlation of Day C	
Log not 6" perforations stratio cepths in a	
memory availabil X 83/- sercens, etc. column (cris)	.1.3
To the Training of the Trainin	
Subsoit e	
Subsoil & Brave	,54 p 7
Subsoil & gravel Solid blue clay Artesian pressure 5	
Artesian pressure 5 psi, July 25, 19sh	
Pum pression to 741	* . **
Pump: 1 HP p 15 psi	
Berke 1 July 1	
Pump: ½ HP Berkeley Jet 83	

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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

Appl	ication	Νo,	***************************************	*****	
-					

(1) OWNER: Name "TOMET TEAGET		
(2) LOCATION OF WELL: County Pierce	_ NE 14 NE 14 Sec. 24 T 22 N	r. 13 w.m.
Bearing and distance from section or subdivision corner		
(3) PROPOSED USE: Domestic D Industrial D Municipal D	(10) WELL LOG:	
Irrigation [] Test Well [] Other []		d structure, and
(4) TYPE OF WORK: Owner's number of well	Formation: Describe by color, character, size of material and show thickness of aquifers and the kind and nature of the n stratum penetrated, with at least one entry for each chang	naterial in each
(it more than one)		ROM TO
New well 🖺 Method: Dug 🗌 Bored 🗍 Deepened 🗍 Cable 🗍 Driven 🗇	Topsoil	0 2
Reconditioned Rotary Detted	Brn. sand & grav. compact	2 8
(5) DIMENSIONS: Diameter of well inches	Gray sand, med., compact	8 13
Drilled		1337
Difficulties Deput in completed well		
(6) CONSTRUCTION DETAILS:		08 116
Casing installed: 6 "Dlam. from ±1 ft. to 179 ft.		16 135
Threaded Dlam. from		<u>35 156</u>
Welded M Diam. from ft. to ft.		<u> 163 </u>
Perforations: Yes D No M		53 1.168
Type of perforator used	Brn. sand & grav., med., W/B 16	58 179
SIZE of perforations in, by in.		
perforations from		
perforations from		
perforations from		
Screens: Yes D No 🛱		
Manufacturer's Namo		
Type		
Diam. Slot size from ft, to ft, to ft.		
Gravel packed: Yes [] NoX] Size of gravel:		
Gravel placed from		
Surface seal: Yes N Na D To what depth? 20. ft.	- F - 7 T	
Material used in seal bentonite		
Did any strata contain unusable water? Yes [] No [3]		
Type of water?		
(7) PUMP: Manufacturer's Name Jacuzzi Type: Submersible HP 15		
Type: Submersible HP 12		
(8) WATER LEVELS: Land-surface elevation 310		
Static level 136 tt. below top of well Date 0/19/87		
Artesian pressure		
Artesian Water is controlled by		
(Cap, valve, etc.)		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 6/18/ 1987. Completed 5/19	27
Was a prinip test made? Yes [X No If yes, by whom? driller	T	19.87
Yield: 15 gal./min. with 22; ft. drawdown after 1 hrs.	WELL DRILLER'S STATEMENT:	
<u> </u>	This well was drilled under my jurisdiction and t	this report is
	true to the best of my knowledge and belief.	
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	NAME Holland Pump Co. Inc.	
Time Water Level Time Water Level Time Water Level	45 . 6	or print)
	P.O. Box 581, Wanna, WA 9	
	Address	
Date of test5/19/87	Villian Hall	
Bailer testgal./min. withft. drawdown afterhrs.	[Signed] (Well Dellar	
Artesion flowg.p.m. Date	0449	05
Temperature of water	License No. 0442 Date 6/19	, <u>1987</u>
	j	

#95 White

WATER WELL REPORT STATE OF WASHINGTON

Application	No.	41111-191-1-4
Permit No.		

(1) OWNER: Name Joe Vadala	_Address 4713 61st Ave. W., Tacor	na, Wa	ash.9846
(2) LOCATION OF WELL: County Pierce	_ NE 1/2 SE 1/2 Sep 13 m 2	22 , 1	E
Bearing and distance from section or subdivision corner	SW SW	aman Nagara	
(3) PROPOSED USE: Domestic & Industrial [1] Municipal [1]	(10) WELL LOG:		
Irrigation [] Test Well [] Other []	Formation: Describe by color, character, size of materic show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each c	l and stru the materi	cture, and al in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL .	FROM	TO
New well of Method Dug 🗍 Bored 🗍	1	0	3
Deepened Cable N. Driven Cable Reconditioned Cable Rotary Cable E	Brown handran with havidana	2	38
	Brown hardpan with boulders Brown hardpan	38	79.
(5) DIMENSIONS: Diameter of well 6 inches. Depth of completed well 109	Dry brown medium sand	89	98
Drilled 109 it. Depth of completed well: 109	Medium-coarse sand & gravel	97	70
A STATE OF THE PARTY OF THE PAR	with hard streaks wet	Od	104
(6) CONSTRUCTION DETAILS:		98	
Casing installed: 6 Dlam. from 9 11 ft. to 110 ft. Threaded Dlam. from 1 cm. 4t.	Brown hardpan	104_	_109
Threaded Dlam. from the to make the	Coarse sand & gravel water	700	
Welded of Dlam from tom the to make 16	b-bearing	1.09	
Parforntiana	The state of the s		
Perforations: Yes No. 12	The state of the s		
Type of perforator used	The state of the s		
perforations from	The state of the s		
perforations from			
perforations from	The state of the s		
	·····································		
Screens: Yes 🗆 No 🕮	The same of the sa		
Manufacturer's Name			•
Type Model No	57, 70 A A A A A A A A A A A A A A A A A A	·	
Diam. Slot size			
Diam	4. 10 Description 13		
Gravel packed: Yes No M Size of gravel:	· · · · · · · · · · · · · · · · · · ·	-	
Gravel placed from ft., to ft., to	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		·
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Surface seal: Yes X. No D. To what depth? 18 1t. Material used in seal MIS. Clay 110	The state of the s		
Majorial used in seal MIE. CLAY Lat Off	- and		•——•
Did any strata contain unusable water? Yes [] · No DE	7-1	[
Type of water			
olernod of sounds strate out.			
(7) PUMP: Manufacturer's Name	Elizabeth Alexander (Alexander)		
(7) PUMP: Manufacturor's Name	The Control of the Co		
, i a a a a a a a a a a a a a a a a a a	The state of the s		
(8) WATER LEVELS: Land-surface elevation 4.	the all the second seco		
Static level 88 tt, below top-of well Date 52 25 0			•
Arteslan pressure lbs, per square inch. Date	The second of th		
Artesian water is controlled by (Cop. valve, ctc.)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		 .
(9) WELL TESTS: Drawdown is amount water level is.	Work started August 2 19 76 Completed Aug	ust 5	76
Was a pump test made? Yes [] No [] It yes, by witom?	The National Control of the Control	400	.s, 1976
Yield: gal./min. with tt. drawdown after hrs.	WELL DRILLER'S STATEMENT:		
H H H H H H H H H H H H H H H H H H H	This well was drilled under my jurisdiction a	and this s	anart in
15 31 - 15 - 15 - 15 - 15 - 15 - 15 - 15	true to the best of my knowledge and belief.	ina ma	eport is
Recovery data (time taken as zero when pump turned off) (water level	ling in the second of the seco		
measured from wou top to water level)	NAME Harbor Pump & Drilling C	o., I	nc.
Time Water Level Time Water Level Time Water Level		ype or pr	int)
		haz '	Maah
	Address 7825 46th Ave., Gig Har	not,	wasii.
8-5-76	(1) -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-)	. 1. 3
Date of tast 8-5-76	[Signed] LCCOL ~ OCO	ьy	: DIS
Haller test 12 gal/min. with. / tt. drawdown after 12 hrs.	0476 (Well Driller)	_	
Artesian flow	License No. 223 01 8455 Date Augus	t 6.	,, 76
Anniberrance of materialism mas a categoriest sularities alleges, xes [] No []	Date		., 19

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

WATER WELL REPORT

Start Card No. 0.84610

STATE OF WASHINGTON

		Bale adult come sec							
(1)	OWNER: Name Julia Lenden	Address 6804-149TH ST CT NW GIG HARBOR, WA 983							
(2)	LOCATION OF WELL: County Fierce	- SW x SW x sec 13 + 22 H, R 1 EWM. ERMAN DR NW GIG HARBOR, WA 98332							
(28)	STREET ADDDRESS OF WELL (or nearest address) 14/10 SH								
(3)	PROPOSED USE: Domestic industrial Municipal Dewater Test Well Other	(10) WELL LOG OF ABANDONMENT PROCEDURE DESCRIPTION Formation: Describe by color, character, size of material and structure, and show thickness of squildrs and the kind and nature of the material is each stratum panetrated.							
(4)	TYPE OF WORK: Owner's number of well (if more than one)	with at least one entry for each change of information. MATERIAL FROM TO							
	Abandoned New well Method: Dug Bored	Top Soil 0 3							
	Deepened □ Cable ⊠ Driven □ Reconditioned □ Rotery □ Jetted □	Brown Hand FAn 3 26							
(5)	DIMENSIONS: Diameter of well 6 inches.	Gravel Hold Pop sand 1120 26 33							
	Drilled. 33 test. Depth of completed well 33 ft.								
(6)	CONSTRUCTION DETAILS:								
	Casing Installed: 6 Diam, from 0 It. to 28 It.	- *** *** *** *** *** *** *** *** *** *							
	Welded □ " Diem. fromft. toft. Liker installed □ " Diam. fromft. toft. Threaded □ " Diam. fromft. toft.								
	Threaded Diam. from ft. to tt.								
	Portorallons: Yea No. 13								
	Type of perforator ased								
	SIZE of perforationsin. byin.	100 100 100 100 100 100 100 100 100 100							
	perforations fromtt. tott.								
	perforations from ft. to ft.								
	pertorations fromft. loft.								
	Scroons: Yes No Jahanan								
	34-3-1973								
	Type								
	Diam Skot stre from 11. to 11.								
	Gravel packed: Yes Nac Size of gravel								
	Gravel placed from 11: to 17.								
,	Surface next Yeslig No Townst deplay 10	A CARLON CONTRACTOR OF THE CON							
	Did any alread contain unseable water? Yes No.	,							
	Type of wellor? Depth of strate:	TO THE REAL PROPERTY OF THE PARTY OF THE PAR							
2.7	Method of soalling strata off	THE REPORT OF THE PARTY OF THE							
(7) ;	PUMP: Manufactures a Nesse								
	Type:								
(8)	WATER LEVELS: Land-nurince of syntion show mean sea level								
	Static level ft below top of well Date								
	Artostan prossure Bbs, per square inch Dato								
٠	Artosian water la controlled by (Cap. valve, etc.))	2 25 02							
(9)	WELL TESTS: Drawdown is amount water level to lowered below statio level	Work started 4 2 7 7 18 Coopyloted 3 18 18 18 18 18 18 18 18 18 18 18 18 18							
•	Was a pump lest made? Yes Ho Hyes, by whom?	WELL CONSTRUCTOR CERTIFICATION:							
	Yiold:gal,/min, withft. drawdown afterbrs.	l constructed and/or accept responsibility for construction of this well, and its compliance with all Washington wall construction standards.							
	11 B B G	Moterials used and the information reported above are true to my best knowledge and belief.							
	Recovery data (time taken as zero when pump terned oif) (water level measured from well top to water level) Time Water Level Time Water Level Time Water Level	NAME Tyee Pump & dnilling OFFISCH PRIM OF CORPORATION (TYPE OF PRIMT)							
		V. 2004							
_		Address 9711 151 Ave KPN							
	Date of test.	Delux Har Liller out 7							
	Baker test 30 gal/mm, with 15 ft. drawdown after 1 hrs.	(Signed) (WELL DRILLER)							
	the state of the s	Contractor's Registration							
	Artesian flow 10 g.p.m. Date	No. Tyeepd 10182 Dato 3 - 15 - 1972							
	Temperature of water Was a chemical analysis made? Yes No	(USE ADDITIONAL SHEETS IF NECESSARY)							
	I disharated at mater trace a menual grad analysis and a	I (ODE ADDITIONAL GLEETS IL MEGEGGANTI)							

WATER WELL REPORT	CURRENT Notice of Intent No W135450
i'c b i'o's y Original & 1st copy Ecology, 2nd copy - owner 3rd copy - driller	Unique Ecology Well ID Tag No AHB408
Construction/Decommission (x in circle) XX Construction	Water Right Permit No
O Decommission ORIGINAL CONSTRUCTION Notice	-
1/8096 of Intent Number	Property Owner Name JULIA LINDNER CARNS
PROPOSED USE Apomestic Industrial Municipal DeWater Irrigation Test Well Other	Well Street Address 14708 SHERMAN DRIVE NW
TYPE OF WORK Owner's number of well (if more than one)	City GIG HARBOR County PIERCE
Winew Well Reconditioned Method Dug Bored Driven	Location SW 1/4- 1/4 SW 1/4 Sec 13 Twn 22 R 1E EWM or or
☐ Deepened ☐ Cable ☐ Krotary ☐ Jetted	Lat/Long Lat Deg Lat Mun/Sec WWM
DIMENSIONS Diameter of well 6 inches drilled 38 ft	(s,t,r still REQUIRED) Long Deg Long Min/Sec
Depth of completed well38 ft	T Deced No. 0192133111
CONSTRUCTION DETAILS Casing Welded 6 Diam from +1 ft to 38 f	CONSTRUCTION OR DECOMMISSION PROCEDURE
Installed Liner installed Diam fromft tof	Pormation Describe by color character size of material and structure and inc
Threaded 'Diam from ft to f	entry for each change of information. Indicate all water encountered
Perforations Yes X No	(USE ADDITIONAL SHEETS IF NECESSARY)
Type of perforator used	MATERIAL FROM TO
Screens Yes KNo KPac Location	GRAY GRAVELLY HARDPAN 0 28
Manufacturer's Name	SAND & GRAVEL 28 34
Type Model No Diam Slot Size from ft	OD 1 100 34 30
Gravel/Filter packed Yes XXVo Size of gravel/sand	
Materials placed fromft toft	
Surface Seal XYes No To what depth? 18 ft	
Materials used in seal_BENTONITE	
Did any strata contain unusable water? Yes ANO Type of water? Depth of strata	
Method of sealing strata off	
PUMP Manufacturer's Name GOULDS	
Type_SUBMERSIBLE_10LS05 HP_1/2	
WATER LEVELS Land-surface elevation above mean sea level ft Static level 6 to below top of well Date 5/24/02	
Artesian pressurelbs per square inch	
Artesian water is controlled by(cap,valve_ctc)	
WELL TESTS Drawdown is amount water level is lowered below static level	
Was a pump test made? Myes No If yes by whom? GRESHAM Yield 18 gal/min with 13 ft drawdown after 1+ hrs	
Yield 18 gal/min with 13 ft drawdown after 1+ hrs 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 (tune 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	RECEIVED
FULL RECOVERY IN 6 MIN.	1111
Date of test5/24/02	JUN 1 1 2002
Bailer testgal /min_withft, drawdown afterhrs Airtest5 gal /min_with stem set atft forhrs	Washington State
Arriest 13 gal /min with stem set at 30 ft for 1 hrs Artesian flow g p in Date	Start Date 5/07/02 Completed Date 5/07/02
Temperature of waterWas a chemical analysis made? XX Yes No	Start Date 3/01/02 Completed Date 3/01/02
WELL CONSTRUCTION CERTIFICATION I constructed and/or accept resp Washington well construction standards Materials used and the information i	rangeted above are true to my best knowledge and belief
Whiler Dengineer Drainee Name (Phr.) CRAIG A GRESHAM	Drilling Company GRESHAM WELL DRILLING INC
Onller/Engineer/Trainee Signature	P.O. BOX 1600
Oriller or Trainee License No0761	- Address POULSBO, WA 98370-0195
	City, State, Zip 100E3BO, WA 30370 0133 Contractor's CDESULIDOSSBC 5/27/02
If trainee, licensed driller's	Contractor's Registration No GRESHWD055BC Date 5/27/02
WINDLESS OF THE PROPERTY OF T	Ecology is an Equal Opportunity Employer ECY 050 1-20 (Rev 4/01)

VATER VELL REPORT

Start Card No. 16832 Unique Well 1.D. # AAB663 Water Right Permit No.

(2) CONTION OF REAL: County PIENCE (3) CONTION OF REAL: County PIENCE (4) TORS OF NORE: (4) PROPOSED USE: DOWNSTIC (4) TORS OF NORE: (5) FORCESSED USE: DOWNSTIC (4) TORS OF NORE: (6) FORCESSED USE: DOWNSTIC (6) TORS OF NORE: (7) FORCESSED USE: DOWNSTIC (6) TORS OF NORE: (7) FORCESSED USE: DOWNSTIC (4) TORS OF NORE: (7) FORCESSED USE: DOWNSTIC (4) TORS OF NORE: (7) FORCESSED USE: DOWNSTIC (4) TORS OF NORE: (7) FORCESSED USE: DOWNSTIC (8) FORCESSED USE: DOWNSTIC (8) FORCESSED USE: DOWNSTIC (8) FORCESSED USE: DOWNSTIC (9) FORCESSED USE: DOWNSTIC (1) FORCESSED USE: DOWNSTIC (2) FORCESSED USE: DOWNSTIC (3) FORCESSED USE: DOWNSTIC (4) TORS OF NORE: DOWNSTIC (4) TORS OF NORE: DOWNSTIC (5) FORCESSED USE: DOWNSTIC (6) FORCESSED U	(1) OWNER: Name VANCE, LOUIS & KARBL Address 1202	VENTURA DR TACONA, NA 98465-
(3) PROCESSED USES: EDWARDSTOC (4) TYPE OF FOUR. (5) DIAMENSION: Diameter of well grace then one) REW WRILL (6) CONTRECTION USTAILS: (6) CONTRECTION USTAILS: Casing insided: Casing insided: The perforations: NO Prope of perforations to grace The perforations from fi. by grace Size of perforations from fi. by grace Size of perforations from fi. by grace The perforations from fi. by grace Size of perforations from fi. by grace The perforations from fi. by grace The perforations from fi. by grace Size of perforations from fi. by grace Size of perforations from fi. by grace The perforations from fi. by grace Size of perforations from fi. by grace The perforations from fi. by grace Size of perforations from fi. by grace The perforations from fi. by grace Size of perforations from fi. by grace The perforations from fi. by grace Size of perforations from fi. by grace The perforation from fi. by grace The perforations from fi. by grace The perforations from fi. by grace The perforation from fi. by grace Th	(2) LOCATION OF WELL: County PIERCE (2a) STREET ADDRESS OF WELL (or nearest address) 14720 SHERMAN DE	- SN 1/4 SW 1/4 Sec 13 T 22 N., R IR WH
(4) TIPE OF WORK: (Ouner's Misber of well (If see than one) (If se	(3) PROPOSED USE: DOMESTIC	(10) ARTY TOU
(3) DIRRISTORS: (5) DIRRISTORS: (6) CONSTRUCTION ORMAILES: (7) Director of which is a populated well in a new property of the completed well in a population of the complete well and the property of the complete well and	(4) TYPB OF WORK: Owner's Mumber of well	Pormation: Describe by color, character, size of material
(3) DIRECTION DIRECTOR Disactor of veil 6 inches (4) CONSTRUCTION DURTALLS: (5) CONSTRUCTION DURTALLS: (6) CONSTRUCTION DURTALLS: (7) CONSTRUCTION DURTALLS: (8) CONSTRUCTION DURTALLS: (8) Line in installed: (9) Dis. from ft. to ft. (10) Dis. from ft. to ft. (11) Dis. from ft. to ft. (12) Perforations: NO Perforations: NO Perforations: NO Perforations from ft. to ft. perforations from ft. to ft. perforations from ft. to ft. Screens: YES Remainaturer's Hame Johnson The Score of the following the fo	HEW HRLL Hethod; CABLE	and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with
(6) CONSTRUCTION BUTALLS: Casing installed: 6	(5) DIHONSIONS: Diameter of well 6 inches	at least one entry for each change in formation.
Series: YES WELLED: WELLED: WELLED: WELLED: WELLED: WELL TESST: Drawdown is amount water level is lowered below static level. Welley: Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amount water level is lowered below static level. Well TESST: Drawdown is amoun		PIPE STICK-UP
Type of vater is lase Type II.P. Welchood of scaling strata off Type of vater is lase Type II.P. SATER LEVELS: Land-surface elevation Above nean sea level Sate level PLONG (t. belov top of veil bate 04/22/94 Artesian ressure) be, per square inch Bate 04/22/94 Artesian vater controlled by VALVIII Werk started 04/18/94 Completed 04/22/94 Werk started 04/18/94 Work started 04/18/94 Completed 04/22/94 Werk started 04/18/94 Werk started 04/18/94 Completed 04/22/94 Werk started 04/18/94 Work started 04/18/94 Werk	(6) CONSTRUCTION OBTAILS: Casing installed: 6 * Dia. from 0 ft. to 112.2 ft. WBLDBD Dia. from ft. to ft. "Dia. from ft. to ft.	BROWN TOP SOIL ROCKS BROWN GRAVEL CLAY & SAND BROWN GRAVEL SAND & CLAY BROWN GRAVEL SAND & CLAY BROWN GRAVEL SAND & CLAY WET BROWN GRAVEL SAND & CLAY WET 63 65
State of perforations from ft. to ft. ft. to ft. piam. slot size from ft. to ft. to ft. to ft. piam. slot size from ft. to ft. to ft. to ft. piam. slot size from ft. to ft. to ft. piam. slot size from ft. to ft. to ft. piam. slot size from ft.	reflorations: NO Type of perforator used	; KINE BLUE SAND WATER 100 105
Seroens: YBS Hanulacturer's Hame Type STAIRLESS Diam. 6 slot size .018 from 112.8 ft. to 118.0 ft. Gravel packed: NO Size of gravel Depth of strats ### CCC ### CCCC ### CCC ### CCCC ### CCCCC	STZB of perforations in. by in. perforations from ft. to ft.	BROWN GRAVEL SAND & CLAY
Hanufacturer's Name	perforations from ft. to ft. perforations from ft. to ft.	
(8) WATER LEVELS: Land-surface elevation above mean sea level tt. Static level PLONG ft. below top of well Date 04/22/94 Artesian Pressure .43 bbs. per square inch Date 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Completed 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Co	Hanufacturer's Hame JOHHSON Type STAIHLBSS Hodel No. TELBSCOPING Diam. 6 slot size .018 from 112.8 ft. to 118.0 ft. Diam, slot size from ft. to ft.	,
(8) WATER LEVELS: Land-surface elevation above mean sea level tt. Static level PLONG ft. below top of well Date 04/22/94 Artesian Pressure .43 bbs. per square inch Date 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Completed 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Co	Gravel packed: NO Size at ground	PARIS ME
(8) WATER LEVELS: Land-surface elevation above mean sea level tt. Static level PLONG ft. below top of well Date 04/22/94 Artesian Pressure .43 bbs. per square inch Date 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Completed 04/22/94 Artesian water controlled by VALVB Work started 04/18/94 Completed 04/22/94 Co	Haterial used in seal BENTOMITE Did any strata contain unusable water? HO Type of water? Depth of strata ft. Helhod of sealing strata off	CEIVE
(8) WATER LEVELS: Land-surface elevation above nean sea level ft. Static level PLONG ft. below top of yell date 04/22/94 Artesian Pressure .43 lbs. per square inch Date 04/22/94 Artesian vater controlled by VALVE Work started 04/18/94 Completed 04/22/94 Work started 04/18/9	IN DIDIO Vanadanta & U	5 9 G
Static level PLOWG ft. below top of sell Date 04/22/94 Artesian Pressure .43 lbs. per square inch Date 04/22/94 Artesian water controlled by VALVE Work started 04/18/94 Completed 04/22/94 Work started 04/18/94 Completed 04/18/94 I constructed and/or accept responsibility for construction of this well, and its completed and it	(8) WATER LEVELS: Land-surface elevation	
Mork started 04/18/94 Completed 04/22/94 (9) WBLL TBSTS: Drawdown is amount water level is lowered below static level. Static level. Was a pump test made? HO If yes, by whom? Yield: gal./min with It. drawdown after hrs. Recovery data Time Water Level Time Water Level Time Water Level Date of test / Dailer test 30 gal/min. 15 ft. drawdown after 1 hrs. Alr lest gal/min. v/ stem set at ft. for hrs. Artesian flow g.p.m. Date of water water and yes made? YBS WBLL CONSTRUCTOR CRRTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all washington well construction standards. Haterials used and the information reported above are true to my bust knowledge and belief. HAMB MICHOLSON DRILLING INC (Person, firm, or corporation) (Type or print) ADDRBSS PO BOX 123 ADDRBSS PO BOX 123 License Ho. 01773 Artesian flow g.p.m. Contractor's Registration No. MICHODI1370M Date 05/03/94	Static level PLOWG ft. below top of yell Date 04/22/94 Artesian Pressure .43 lbs. per square inch Date 04/22/94	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level. **Static level.** **I constructed and/or accept responsibility for construction of this well, and its compliance with all washington well construction standards. Haterials used and the information reported above are true to my best knowledge and belief. **HAMB MICHOLSON DRILLING INC (Person, firm, or corporation) (Type or print) **Date of test / Date of test / Date set at ft. for hrs. Air test gal/min. 15 ft. drawdown after 1 hrs. Air test gal/min. 15 ft. drawdown after 1 hrs. Air test gal/min. 15 ft. drawdown after 1 hrs. Artesian flow g.p.m. Date 1	•	
Time Water Level Time Water Level Time Water Level HAMB MICHOLSON DRILLING INC (Person, firm, or corporation) (Type or print) Date of test / ADDRESS PO BOX 123 Dailer test 30 gal/min. 15 ft. drawdown after 1 hrs. Air test gal/min. v/ stem set at ft. for hrs. Artesian flow g.p.m. Date Temperature of water Was a chemical analysis made? YBS Registration No. NICHODII370M Date 05/03/94	(9) WBLL TESTS: Drawdown is amount mater level is lowered below static level. When the stander of the standard	WELL CONSTRUCTOR CRRTIFICATION: 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
Date of test // Dailer test 30 gal/min. 15 ft. drawdown after 1 hrs. Air test gal/min. v/ stem set at ft. for hrs. Artesian flow g.p.m. Date Temperature of water	Hocovery data Time Water Level Time Water Level Time Water Level	HAMB MICHOLSON DRILLING INC (Person, firm, or corporation) (Type or print)
Dailer test 30 gal/min. 15 ft. drawdown after 1 hrs. [SIGHRD] Air test gal/min. v/ stem set at ft. for hrs. Artesian flow g.p.m. Date Temperature of water Was a chemical analysis made? YBS Registration Ho. HICHODI1370H Date 05/03/94	Date of test / /	ADDRUSS PO BOX 123
Artesian flow g.p.m. Date Contractor's Temperature of water Was a chemical analysis made? YBS Registration No. NICHODI1370M Date 05/03/94	Dailer test 30 gal/min. 15 ft. drawdown after 1 hrs.	[SIGHED] License Ho. 01773
	Artesian flow g.p.m. Date Temperature of water Has a chemical analysis made? YBS	Contractor's Registration No. NICHODII370N Date 05/03/94

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WELL LOG DEPARTMENT OF WASHINGTO
WELL LOG DEPARTMENT OF WASHINGTON Date April 23 Record by Drill 19 65 No. Polit #7463
LOG ANENT OF STRINGTO
Date April 23 Record PART OF CONSERVATION Record PART OF CONSERVATION
PARTI 23
necord by Drize 10 65 No. Pont 47462
Record by Driller 19 65 No Permit No.6971. Location: State
Location: State of WASHINGTON. County Pierce
State of an
County Pi ASHINGTO
County Pierce Pierce
We will be a second of the sec
Map corns
Area 2075 W & 370 N from S Address Rt 4 D Diagr
Drilling Co. Harbor Pump & Drill Co. Address Rt. L. Box 4117 Drilling Co. Harbor Pump & Drill Co. Diagram of Section
Add Phone Phone
Original Diagrams of the Diagr
Owner M. Drilling
Address Rt. 1, Box 4117, Gig Harbor, Vashington Method of Drilling Cable Address Rt. 3 = Box 48 Gig Harbor Land surface
Address Rt. 3 Box 10 Date Date
Land Box 1 All Take
surface det 48 Gio ti
Address Rt 3 Box 48 Gig Harbor Washington Land surface, datum Correspondent Labove Washington
CORRE Washington
If materiale driller's terminology literally but Paraphrase as a (feet) Depth literally but paraphrase as a secessary, in paraphrase if teasible. Following log of materially, list all casings, perforations, screens, etc.) Log not available. This is a second static live of the portion of the perforations of the perforation of the perforations of the perforation of the perforation of
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Thicky land surface bearing terminology
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Log Well with strate depth described
man not avait X 83 f sereous raphic colors
memory. Table m
Subsoil & gravel Solid blue ol
Solid blue clay Casing: 6" A
IVACI.
Artesian pressure 5 psi
Artesian pressure to 741.
Pump: 1 HP P P P P P P P P P P P P P P P P P
HP Bont Psi Bank
Fump: 1 HP Berkeley Jet July 25, 1952
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∯ - 19 \$ -190		<u>-</u>	
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	 _		The second secon
			3.00
		 	
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		1	
			Dismit fitting
	DEPTH (1991)	Тиіскиезв (feet)	CORRE- LATION MATTERAL
	<u> </u>		WELL LOG—Continued No

	TATE OF WASHING DEPARTMENT OF CONSERV AND DEVELOPMENT	/ATION	(
WELL			.6_
Date	July 16 19 46 Ce	opli, 31 ert. 241	A
	by Arthur L. Nicholson		
Source			
	n: State of WASHINGTON		
	inty Pierce		2
		į	
Are			
Ma	p		
	E _{1/4} NW _{1/4} sec. 24 T. 22 N., R. 1 E.	DIAGRAM O	F SECTION
	Co. Arthur L. Nicholson	 	
, Add	ress Box 1237; Port Orchard	· · · · · · · · · · · · · · · · · · ·	-
Me	thod of Drilling Dat	e July	17 1946
Owner.	Peninsula School Dist. #401		·
Add	bress Gig Harbor, Wash.		:
Land si	urface, daiumft. above	•	
CORRE- LATION	MATERIAL	THICKNESS (feet)	DEP1H (icet)
(Tra material surface d ing log of	nscribe driller's terminology literally but paraphrase as n water-bearing, so state and record static level if reported. Go atum unless otherwise indicated. Correlate with stratigraphi materials, list all casings, perforations, screens, etc.)	ecessary, in pove depths in feature, if fe	arentheses. If et below land- sible. Follow-
	Cement gravel conglomerate	14_	14
	sand & gravel, small amt. wat		62
	Hard cement gravel conglomera		87
	Sand & gravel, additional wat		93
· · · · · ·	Blue shale (sandy) occasional		
	laminated sequences	15	108
· · · · · · · · · · · · · · · · · · ·	Gravel (water bearing)	45	153
	· ·		177
i	Pump Test:		·
	Dim: 153 x 8 to 6"		 .
	SWL: 331		
	DD: 451		
	Yield: 60 g.p.m.		<u> </u>
	Casing: 8" diameter from 0 to	20'10	:
. 1	All diameters from 20170H L	- 7691	

Perforations: 2 rows of 3/16"

WATER WELL REPORT STATE OF WASHINGTON

Application No.

Permit No.	 ** ** *****

(1) OWNER: Name Peninsula School District	Address 14015 62nd Ave. NW; Gio	j Harbo	r, W
(2) LOCATION OF WELL: County Pierce			
Bearing and distance from section or subdivision corner			
(3) PROPOSED USE: Domestic X Industrial Municipal	(10) WELL LOG:		
Irrigation [] Test Well [] Other []	Formation: Describe by color, character, size of mater show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each	ial and struct	ture, and I in each
(4) TYPE OF WORK: Owner's number of well #2	MATERIAL	FROM	TO
New well 🕃 Method: Dug 📋 Bored 🗍	Sand, gravel & clay	0	50
Deepened 🗆 Cable 🗷 Driven 🗍	Hardpan	50	$-\frac{30}{70}$
Reconditioned Rotary Jetted	Sand & clay	70	80 .
(5) DIMENSIONS: Diameter of well 10 inches	Light brown sand - moist	80	118
Drilled	Silty blue clay	118	155
	Blue clay - sticky	155	200
(6) CONSTRUCTION DETAILS:	Fine silt & sand	200	$\frac{200}{210}$
Casing installed: 10 " Diam, from +1 tt. to 245 ft.	Brown clay & gravel	210	225
Threaded []	Grey clay	225	234
Welded M	Grey clay & sand	234	240
Perforations: Yes D No 20	Brown sand & clay	240	242
Type of perforator used	Brown hardpan	242	246
SIZE of perforations in. by in.	Sand & gravel - W. B.	246	269
tt. to it.	Clay	269	270
perforations from	CLAY	-202	210
n, to it.		 - 	,
Screens: Yes No Johnson Screen			
Manufacturer's Name Welded Wire			
Type 8" Riser pipe Model N235'-245'			
Diam10 Slot size060. from245. ft. to248 ft. Diam10 Slot size014. from248. ft. to254 ft.		1.	
10 .060 254 269			
Gravel packed: Yes No Size of gravel:			
Gravel placed from ft. to ft.		† †	
Surface seal: Yes No To what depth?250 ft.			
Material used in scal Bentonite & cement	man you you had a firm the		
Did any strata contain unusable water? Yes (No 🛪	MATERIAL W	1	
Type of water? Depth of strata Depth of strata	The state of the s	7	
Method of sealing strate off	MAR 5 1980		
(7) PUMP: Manufacturer's Name	111/41 9 Jaon		
Type:			
	COUNTINGMENT OF ACCOUNTS		
(8) WATER LEVELS: Land-surface elevation above mean sea level	SEG PREDI MENALE		
Static level			
Artesian pressure			
Artesian water is controlled by(Cop, valve, etc.)			
(9) WELL TESTS. Drawdown is amount water level is			
(U) IIIII IIIIII Invered below static level	Work started 11/18/ , 1979. Completed	2/4/	₁₉ 80
Was a pump test made? Yes 14 No I II yes, by whom 1 ympic We Yield: 165 gal./min. with 53 II. drawdown after 3 Drins.	WELL DRILLER'S STATEMENT:		
" 200 " 63 " 1 "			
" 182. " 62 [†] 7" " 4 "	This well was drilled under my jurisdiction true to the best of my knowledge and belief,	and this re	eport is
	with the state of the minutes and benefit		
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	NAMEOlympic West Drilling,	Inc.	
Time Water Level Time Water Level Time Water Level 152 2 152 2	(Person, firm, or corporation)	(Type or pri	nt)
:05	Address 9512 State Hwy 16 NW;	Cia Bav	hor
	Address JULE DEGLE RWY TO MW;	ath uar	TOT!
*15 157' 8" *30 152' 4"	N D Vahamma	. 1	
Date of test 2/4/80	[Signed] W. D. Maberry		
Baller testgal./min. with	(Well Driller)	٠	
Temperature of water	License No. 0286 Date 2	/6/	19.80
· · · · · · · · · · · · · · · · · · ·			,

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

) (18 1. 3	20														M 3 3							
(131112				1	SECTION	_ 		· ——		feet	feet		4	1	datum			<u> </u>		-	Щ			
(22,16-1					DIAGRAM OF SEC	ī	(CA) HIS NO			Ropt ST	Meas		: # #3	19 above below	ft above	gal mm	:	hours pumping / 3 ral	ļ ,		19 Temp		st Analy es	
DEPARTMENT OF WASHINGTON DEPARTMENT OF CONSERVATION DIVISION OF WATER RESOURCES	No			4GTON		Z A A		Trail.	Address	60 ft above	Depth	19 57		from		which is	Capacity Size	í	rump		I Irr Obs		sanitation etc	Log Water levels Draft Pump test Analy es	
ATE DEPARTMEN DIVISION O	TLE	61		State of WASHINGTON	٥	T sec T		enant Pete	Harbon		(Drylled Drych	d Jested		=	70			horsepower	gau min fit after		Stock PS Ind		hardness sanıta	Log Water leve	
(WELL SCHEDULE	Date Page 14	Source	1 Location S County	Area	Map 74	Details	2 Owner or Tenant	Address 7	4 Land surface datum	Topography 5 Type Dug	Bored	6 Casmg Diam	Deptin 7 Chief aquifer(s)	8 Water level Rept	í	9 Pump Type		U rrenu riow Drawdown	Adequacy permanence	•	_	Taste color hardness	r data	ı urn up
	-	다 6	ا ت						• •	-			-	~				•	=		11	12		1 14 8	٠ J

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

WELL SCHEDULE (Continued)

14 Well Log

(As necessary insert headings and use space below for full record Complete logs should be recorded on separate form for that purpose but fragmentary logs may be entered here)

1	i
FROM (fect)	TO (feet)
	7
	3
	FROM

(On face of schedul add asterisks to identify topics amplified use same topic headings here.)

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(
(

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

WATER WELL REPORT

Stert Card No. 022648

Water Right Permit No. ..

(1)	OWNER: Name Pickers Kogning	Address 5/18 Key Penn Hay,		
(0)	LOCATION OF WELL: County Piere	SW , SW , soc /3 T. 2:	<u>2 _{N., R.}/</u>	EW.N.
(2)	LOCATION OF WELL: COUNTY F			
(2a)	STREET ADDDRESS OF WELL (or nonreal address)	AD AND AND AND AND ADDRESS OF THE PROPERTY OF	PECC	DIRTION
(3)	PROPOSED USE: Domestic Industrial Municipal Municipal	(10) WELL LOG or ABANDONMENT PROCEDURE		
	□ DoWater Test Well □ Other □	Formation: Describe by color, character, size of material and thickness of aquifers and the kind and nature of the material in each	ainictore, h atroiom	penetrated,
(4)	TYPE OF WORK: Owner's number of well	with at least one entry for each change of information.	FROM	TO
,	Abandoned C) New well 😕 Method: Dug 🖂 Bored 🖂			177
	Deepened 🖸 Cable 🗷 Driven 🖳	Brown Sand	17	21
		Grey Sand & Grave Proporty	9	55
(5)	DIMENSIONS: Diameter of well Inches.	SPECIFIC CONTRACTOR OF THE PROPERTY OF THE PRO	55	777
	Drilled 2 80 feet. Depth of completed well 282 ft.	Blue Clay	75	75'
(6)	CONSTRUCTION DETAILS:	Sandy Blue Clay	25	27'
•	Casing installed: Diam. from +2 II. to -276 It.	Hand som Grey	97'	114
	Welded • Diam from th. loth.	Hand on Black	14	122
	Liner installed Threaded Diam. from th. lo th.		127	140_
	Perforations: Yes No		40	147_
	Type of perforator used	Blue Stay sand + Grave	47	152'
	SIZE of perforationsin. byin.	Pent (Black)	152	16/
	perforations fromft. toft.	Hord pan Gray	6/	7/5
	perforations fromft. toft.	Brown sand & Clay binder	77	305
	perforations from11. tott.	Hard por Grey	203	2/3
	Screens: Yes No	Brawn sund & Chy Sinder	2/Y	137
	Manufacturer's Nemo	yellow Glay (Soft)	<u> </u>	252/
	Type 57-, 1/6-5 Model No. Diam 5" Slot size 14 from 276 ft. to 250 ft.	Brey sand	5 <u>57</u>	200
		Grey sand + 4 To	<u> </u>	75
	Diam. Slot size from (t. to t.			
	Gravel packed: Yes No Sizo of gravel	# S S 70		
	Grave) placed from			
	Surface soal: You No Townal dopth?			
	Moterial used in soul Bertanite	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	Did any strate contain unusable water? Yes No	23		
	Type of water? Depth of afrain	F: 28 %		
	Method of sealing strate off	1	,	<u> </u>
(7)	PUMP: Manufacturer's Namo	ω		
	Тура:			<u> </u>
(8)	WATER LEVELS: Land-surface elevation above mean see level			
(-,	Static level 2.00 ft. below top of well Date			
	Artesian pressureibs. per square inch Date			
	Artesian water is controlled by(Cap, valve, etc.))	Work storted 9-25 1970 completed 10-	19	10∑2
(9)	WELL TESTS: Drawdown is amount water level is lowered below stelle level	Work started 7-25 , 19//Completed 70-		, 19112_
(4)	Was a pump test made? Yes No li yes, by whom?	WELL CONSTRUCTOR CERTIFICATION:		
	Yield: gal./min. with ft. drawdown after hts.	I constructed and/or accept responsibility for const	ruction o	f this well,
	H H H H H	and its compliance with all Washington well cons	RUCTION	alangaras,
	Rocovery data (time takon as zero when pump turned off) (water level measured	knowledge and belief.		-
	from well top to water level)	DIP ILL DILL		
	Time WaterLevel Time WaterLevel Time WaterLevel	NAME (PERSON, FIRM, OR CORPORATION)	(TYPE I	OR PRINT)
		Prot Oroland		
		Address / 67 CATE		
	Data of IBBI	(Signed) San Cooleg License N	, //	7 30
	Bailer test 22 gal. / min. with 4 ft. drawdown after 1 hrs.	(WELL DRILLER)	\V.w-X	
	Airtest gai./min. with stom set at ft. for hrs.	Contractor's Registration P Weld & 110 Pcte Oct 2	C	
	Artesian flow g.p.m. Date	No. Date () C)	4	
	Temperature of water Was a chemical analysis made? Yes No.	(USE ADDITIONAL SHEETS IF NECES	SARY	
		took Applicate allegion Adors	,	
ECY 0	50-1-20 (10707) -1329- ************************************			

Artesian flow

Temperature of water

File Original and First Copy with Department of Ecology WATER WEI	L REPORT Notice of Intent W UNIQUE WELL I.D.	
Second Copy - Owner's Copy Third Copy - Driller's Copy 472615 STATE OF WAS	SHINGTON Mater Dieta Describble Alla	
(1) OWNER: Name RICK LARSON	Address PO BOX 726, PORT ORCHJARD, WA 983	366
(2) LOCATION OF WELL: County PIERCE	- NE 1/4 SE 1/4 Sec 13 T.	22 N.R 1E W.
(2a) STREET ADDRESS OF WELL (or nearest address) 14803 PURDY	DR NW	
TAX PARCEL NO. 0122133127		
(3) PROPOSED USE: X Domestic Industrial Municipal Irrigation Test Well Other	(10) WELL LOG or DECOMMISSIONING PROCEDUI Formation: Describe by color, character, size of material and structure, nature of the material in each stratum penetrated, with at least one entry of information. Indicate all water encountered.	and the kind and
(4) TYPE OF WORK: Owner's number of well (if more than one) X New Well Method:	MATERIAL	FROM TO
Deepened Dug Bored	BROWN SAND AND GRAVEL.	0 4
Reconditioned Cable Driven Decommission X Rotary Jetted	CLAY GREY CEMENTED SAND AND GRAVEL CLAY SAND AND GRAVEL.	4 <u>12</u> 12 20
(5) DIMENSIONS: Diameter of well SIX Inches.	CLAY GREY CEMENTED SAND AND GRAVEL	. 20 61
Dritted 84 feet. Depth of completed well 84 ft.	GREY CEMENTED LAYERS CLAY AND SAND SAND AND GRAVEL LOOSE W/B.	. <u>61 70</u> 70 84
(6) CONSTRUCTION DETAILS:	SAND AND GRAVEL LOOSE WID.	70 84
Gasing Installed:		
X Welded 6 Diam. from 0 ft. to 79 ft. Liner installed * Diam. from ft. to ft. Threaded * Diam. from ft. to ft.		
Threaded " Diam. from ft. to ft.		
Perforations: Yes X No		
Type of perforator used SIZE of perforations in. by in.		
perforations from ft. to ft.		
pendiadors non a. to	7	
perforations from ft. to ft.		
Screens: XYes No XK-Pac Location 79		
Manufacturer's Marie JOHNSON Type STAINLESS STEEL Model No. TEL	· · · · · · · · · · · · · · · · · · ·	
Manufacturer's Name JOHNSON Type STAINLESS STEEL Model No. TEL Diam. 6 Slot size 14 from 79 ft. to 84 ft.		
Diam. Siot size from it to it.	RECE	N/Er
Gravel/Filter packed: ☐ Yes XNo ☐ Size of gravel/sand Material placed from ft. to ft.	- Los V Ac-	VED
	AUG 3 O	2011
Surface seal: XYes \(\subseteq \text{No} \) To what depth? \(\frac{18}{2} \) ft Material used in seal \(\frac{8}{2} \) BENTONITE	WA State De	2011
Did any strata contain unusable water? Yes X No		partment
Type of water? Depth of strata Method of sealing strata off	3. 20010gy	OMHO)
(7) PUMP: Manufacturer's Name GOULDS H.P5		
(8) WATER LEVELS: Land-surface elevation	-	
above mean sea revertt.	Work Started 8/9/2011 , 19. Completed 8/10	<u>)/2011</u> . ¹⁹
Static level 22 ft. below top of well lbs. per square inch Date 8/10/2011 Artesian water is controlled by (Cap, valve, etc)	WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction compliance with all Washington well construction standard and the information reported above are true to my best kn	ds. Materials used
(9) WELL TESTS: Drawdown is amount water level is lowered below static level Was a pump test made? ☑Yes ☐No If yes, by whom? TDDC		nse No. <u>2147</u>
Yield: 10 gal./min. with 52 ft. drawdown after 1 hrs.	(Licensed Driller/Engineer)	
Yield: gal /min. with ft. drawdown after hrs.	· /	se No.
-	Drilling Company TOP DOG DRILLING CO	
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	(Signed) Licen	se No. 2147
Time Water Level Time Water Level Time Water Level	(Licensed Driller/Engineer)	
	Address PO BOX 2227 BELFAIR WA, 98528	
	Contractor's Registration No. TOPDODCO54RA Date 8/1	2/2011, 19
Date of test 8/10/2011 Bailer test 10 gal./min. with 52 ft. drawdown after 1 hrs.	(USE ADDITIONAL SHEETS IF NECE	SSARY)
Airlest gal./min. with stem set at fl. for hrs.	Ecology is an Equal Opportunity and Affirmative Action	•

special accommodation needs, contact the Water Resources Program at

(360) 407-6600. The TDD number is (360) 407-6006.

g.p.m. Date 8/10/2011

Was a chemical analyses made? ☐ Yes ☐ No

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

WATER WELL REPORT

Stert Card No. 015554

	Copy—Dimer's Copy	Water Right Permit No.	
(1)	OWNER: Name Doger + Janey Aiken	Address P.O. Box SG Fox TE/and	
(2)	LOCATION OF WELL: County Press	NE SETTING 122	WE WIL
(2a)	STREET ADDDRESS OF WELL (or nearest address)	ALTON B	GAMESE 41
(3)	PROPOSED USE: Domestic Industrial Municipal Downster Tost Well Other	(10) WELL LOG or ABANDONMENT PROCEDURE DE	
(4)	TYPE OF WORK: Owner's number of well (If more than one)	Formation: Describe by color, character, size of material and struct thickness of aquifors and the kind and nature of the material in each strat with at least one entry for each change of information.	um peneirated
	Abandoned ☐ New well 💆 Method: Dag 🔲 Bored 🗆	MATERIAL FROM	TO
	Deepened	BrTill 0	20
(5)	DIMENSIONS: Diameter of wellinches.	Br Sandy Clay 20	100
	Drilledfeet. Depth of completed wellff.	Dr Sandy Clay Le	
(6)	CONSTRUCTION DETAILS:	Br 11/ Soups 28	44
	Casing installed: 6 · Diam, from 0 ft. to 81 ii.	1	
	Wolded	Dr /// 44	150
	Perforations: Yes No Re-	Frank lit lyv 50	55
	Type of perforator used	3 7 7 7 7	
	SIZE of perforations in. by in.	5-nays/1th Seeps 33	60
	perforations from 11. to 11.	E / - Clay 60	80
	perforations from ft. to ft.	Grawsoll dula 80	99
	Manufacturer's Namo Johnson	5 / Vi	0 ~
	Type Stainless Modelino	Gray Sand Gravel 8	2 85
	Diam, 5 Slot size 12 from 80 H. to 85 ft.		1 -
	DiAm, Slot size trom ft. to ft.		
	Gravel packed: Yes No Size of gravel		
	Gravel placed fromft. toft.		
	Surface seal: Yos No To what depth? 2 5 11.	RECEIVED	
	Did any strata contain unusable water? Yes No	4 E 4000	
	Type of water?Depth of strata	AUG 1 5 1990	
	Method of sealing strata of	DEPT. OF ECOLOGY	
	PUMP: Manufacturar's Namo	DEPT. OF EGULUA	
 3)	WATED LEVELD. Land-surface elevation		_
•	Static level		
	Aslesian pressuro ibs. per square inch Date		
	Artesian water is controlled by(Cap. valve, etc.))	M. (O)	<u> </u>
)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started Mars 4 2 2 , 19. Comploined April 3	19.57
	Was a pump test made? Yes No lityes, by whom?	WELL CONSTRUCTOR CERTIFICATION:	
	Ylald: gai./min. with ff. drawdown after hrs.	I constructed and/or accept responsibility for construction and its compliance with all Washington well construction	
	n . n . n	Materials used and the information reported above are true	
	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	knowledge and belief.	
		0 0119 1	OR PRINT)
		Address 1598 SE Gregon STIONT	Urc4a
	Data of tasi	(Signed) Sarry Clare No. 12	16
	Bailor tost 20 gal./min. with 5 ft. drawdown alter 2 hrs.	Contractor's (WARL DRILLER)	
	Midest gal./min, with stem set at R. for hrs.	Registration (OD192K9 Date AD)	1.81
	remperature of water Was a chemical analysis made? Yes No	''	
	Temperature of water Was a chemical analysis made? Yes No 2	(USE ADDITIONAL SHEETS IF NECESSARY)	

ŷ	File Original and First Copy with Department of Ecology
•	Second Conv. Owner's Conv

WATER WELL REPORT

Start Card No 015557

Thud C	opy—Driller's Copy	Water Right Permit No	_
(1)	OWNER: NAMO ROGER + JUNEY A. KEN	Address PO. Box SG Fox Island	_
	CONTION OF WELL COME PIECE	NE NW x Sec 24 T22 N. A/E W	М
(2a)	STREET ADDDRESS OF WELL (or nonrest address) 150/2 Sh.	ermon Dr NW G-15 Rarbor or a	<u> </u>
	PROPOSED USE: Domestic Industrial II Municipal II	(10) WELL LOG OF ABANDONMENT PROCEDURE DESCRIPTION	
	DeWater Test Well F. Other ()	Formation: Describe by color, character, size of material and structure, and shinkness of aquiters and the kind and nature of the material in each stratum penaltrat	tad,
(4)	TYPE OF WORK: (Il more than one)	with at least one only for each change of information. HATERIAL FROM TO	
	Shandoned 🗔 Newwell 👽 Method: Dug 🔲 🗡 Bored 🟳 :	MATERIAL	
í	Deepened D Cable Diven D Reconditioned D Rotary D Jetted D	BrTil 0 20	<u>T</u>
(5)	DIMENSIONS: Diameter of wellinches.	Ba Sande Clay 2028	7
(Orillod	10 sand class	
(6)	CONSTRUCTION DETAILS:	B-111 Speps 28 77	Z
	Casing Installed: 6 Diam. from 0 ft. to 81 tt.		
	Wolded Camp to Diam. from 11. to 15.	Br 1111 44150	<u> </u>
i	tiner installed Diam. from ti, to tt.	0: 35.7.1	_
	Perforations: Yes Not	Fras 11th Ury 30 53	<u> </u>
	Type of perforator used	3 / 7 / 7	
	SIZE of perforationsin. byin.	6-995/11/3 Degos 33160	<u> </u>
•	perforations fromtt. tott.	\$4 1/-c/m	_
	periorations fromIt. tott.	B/ Clay 60 80	<u>2</u>
		27 DOE / W/	_
	Screens: Yes Noll /	Gray Scill d 1/B 80 8	
	Manufacturer's Pame OOSNSON	75 75 Vi	
	Type Standess Model No	Gray Sand bravel 828	<u>J</u>
	Diam. 5 Stot size /2 from 80 H. to 85 R.	7	
	DiamSlot sizetromtl. toH.		
_	Gravel packed: Yes No Size of gravel		
	4. 4-		
	Grave) placed from		
	Surface seal: Yes No Towner deplh? th.	RECEIVED	
	Material good in seal		<u></u> -
	Distany strata contein unusable water? Yes No P	AUG 15 1990	
	Type of water? Depth of strate		— ~
	Method of scaling strate off	DEPT. OF ECOLOGY	
(7)	PUMP: Manufacturer's Nome		
	Туре:		
(8)	WATER LEVELS: Land-surface elevation natural n		
1-7	Static lavel	/	
	Artesian pressuretos, per square inch. Date		_
	Artenian water is controlled by (Cep, valve, etc.))	Work started March 22, 19. Completed April 2, 19	28
(9)	WELL TESTS: Drawdowe is amount water level is towared below static level	Work started Z 1915-3	
(~/	Was a pump test made? Yes Ho Hyes, by whom?	WELL CONSTRUCTOR CERTIFICATION:	
	Yield: gal./min, with it, drawdown after hvs.	I constructed and/or accept responsibility for construction of this	well.
	11 11 11 11	Vm of our party of the property of the long of the lon	best
	1	knowledge and belief.	
	Recovery data (time laken as zero when pump lurned oif) (water level measured from well top to water level)	1 0 1/in	
	Time Water Level Time Water Level Time Water Level	NAME USCA TITLE OR CORPORATION) (TYPE OR PRIM	HT)
		The Car Character Still town	6.
		Address 15/18 SE Gregon STONT UK	<u> नम्स्</u> ।
	Date of test	1 Jan. 1 W 1216	
		(Signed) License No. License No.	
	Baller test 20 gal./min, with 5 h. drawdown after tru	Contractor's	0
	Airtestgal./min, with stem sell at ft, for but	No. Registration 100 192 K9 Date April 2.18	9 <u>0 1</u>
	Arresian flow g.p.m. Date No.	WOR ADDITIONAL CHEETS IS MEDECARY	
	Temperature of water Was a chamical analysis made? Yes No	(USE ADDITIONAL SHEETS IF NECESSARY)	

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

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

Application	No.	***************************************
Darmik Ma		

(1) OWNER: Name Roy Brady	Address 3123 No. 27th, Tacoma, Wo
(2) LOCATION OF WELL: County Pierce	SE 14SE 14 Sec. 13 T 22N, R 1E W.M.
Bearing and distance from section or subdivision corner	Total and the second se
(3) PROPOSED USE: Domestic & Industrial [] Municipal []	(10) WELL LOG:
Litigation Test Well Other	
	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.
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL FROM TO
New well 🛅 Method; Dug 🗍 Bored 🗍 Deepened 🗍 Cable 🗶 Driven 🖯	Dry brown sand 0 18
Reconditioned \(\) Rotary \(\) Jetted \(\)	Silty gray sand 18 24
	Blue silty clay 24 106
(5) DIMENSIONS: Dlameter of well inches. Drilled 108 ft. Depth of completed well 108 ft.	Pea_gravel 106 108
Drilled 108 ft. Depth of completed well 108 ft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 6 " Diam. from 0 tt to 108ft.	
Threaded [] Dlam. from ft. to ft.,	
Welded "Diam. from	
Perforations: Yes No N	
Type of perforator used	P
SIZE of perforations in. by in.	
perforations from	
perforations from	
Screens: Yes No (X)	
Typo	
Diam. Slot size from from ft, to ft.	
Dlam. Slot size from It, to It.	
Gravel packed; Yes No & Size of gravel;	
Gravel placed from	
Conformation - 40	
Surface seal: Yes X No To what depth? 18 #.	MFOR
Did any strata contain unusable water? Yes [No [
Type of water? Depth of strata	
Method of scaling strata off	\$\frac{1}{2} \frac{1}{2} \frac
(7) PUMP: Manufacturer's Name.	DEPARTMENT OF ECOLOGY SOUTHWEST REGIONAL OFFICE
Туре:	SOUTHWENT OF
(8) WATER LEVELS: Land-surface elevation	SOUTHWEST REGIONAL OFFICE
(8) WATER LEVELS: Land-surface elevation above mean sea level	OFFICE
Ariesian pressure	
Artesian water is controlled by(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started
Was a pump test made? Yes [] No [] If yes, by whom?	
Yield; gal/min, with ft, drawdown after hrs.	WELL DRILLER'S STATEMENT:
D 21 0 13 13	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
	and to the best of my knowledge and belief.
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	NAME Harbor Puma & Drilling M. Inc.
Time Water Level Time Water Level Time Water Level	NAMEHarbor Pumo & Drilling O. Inc. (Person, firm, or corporation) (Type or print)
	Address 11302 Burnham Dr. NW., Gig Harbor, Wn
	Auditessinger
Date of test	[Signed] Linux Colfaziar by: 5. Kostelecky
Bailer test 20 gal/min, with 4 it drawdown after 12 hrs.	
Artesian flow	0078 (Wei Brider) License No.223 01 8455 Date 8-16 19 78
- And the state of	мосто может такутути разе 19(3.

DIVISION OF WATER RES	Louis	* • •	•
WELL LOG	·		
Record by <u>Driller</u>			
Source Drillers Record		- -	_
Location: State of WASHINGTON	o	٠٠ .	.
County Pierce	····/	>i	
Area		41 264	-
XXX Gov t lot 2	* 5	3 + 7552	=] :
XX sec. 13 T.22 N, R 1 3	<u> </u>		
brilling CoRichardson Well Drilling Co	Diagram o	of Section.	:
Address 219 So. 115th St., Tacome,		er tympen i	. 7.00 S
Method of Drillinglew well & cabbate	4/26	/ ·	ο
wner Buck & Haywood, Inc.	errenneste (1918) Signatur de ligitarios	6j., 1993 - 1	
Address P.O. Box 307, Gig Harbor,			§
aud surface, datum.		134 14	
WI. 8 Date April 26, 1968			}
Date AVA ALL SUST 1902	Dims. ă	X_10	
	·		
CORNUS .		J	-
ATTON MATERIAL	From (feet).	(reet)	- ;
LATION MATERIAL	(feet).	1 2	res.
ATION MATERIAL (Transcribe driller's terminology literally but recaphrase remotoring water-bearing, so state and record state level if relative land surface datum unless otherwise indicated. Correlate reasible, Following log at materials, list all casings, perforate	(feet).	1 2	es.
LATION MATERIAL	(feet).	1 2	res.
MATERIAL (Transcribe driller's terminology literally but Transphrase of material water-bearing, so state and record state level if 7. slow land-surface datum unless otherwise indicated. Correlate Reasible, Following log of materials, list all casings, perforate Group domestic	(feet).	1 2	res. & set son,
ATTON MATERIAL (Transcribe driller's terminology literally but 7 raphrase 1 material water bearing, so state and record state level if 7 slow land-surface datum unless otherwise indicated. Correlate tensible, Following log at materials, list all casings, perforate Group domestic Top soil	(feet).	1 2	est s
Arron Marsia, (Transcribe driller's terminology literally but paraphrase of material water-bearing, so state and record static level if reliable and surface datum unless otherwise indicated. Correlate trasible, Following for all materials, list all casings, perforation of the control of th	(feet).	1 2	res. Seek
ATTON MATERIAL [Transcribe driller's terminology literally but 7 rephrase 1 material water-bearing, so state and record state level if 7. slow land-surface datum unless otherwise indicated. Correlate feasible, Following log at materials, list all casings, perforate Group domestic Top soil Herdpan Gravel & sand, coarse	(feet).	1 2	es.
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ATTON ATTON (Transcribe driller's terminology literally but paraphrase material water-bearing, so state and record state level if resilve land-surface datum males otherwise indicated. Correlate resilve, Following log of materials, list all casings, perforate Group domestic Top soil Herdpan Gravel & sand, coarse Hardpan Sand Water bearing	g necessary is ported. Give with atratige in a sircens, e	n parenthes depths in (aphic solunic.)	es.
ATTON MATERIAL (Transcribe driller's terminology literally but paraphrase of material water-bearing, so state and record state level if relaw land sorface datum unless otherwise indicated. Correlate reasible, Following log of materials, list all casings, perforate group domestic Top soil Herdpan Gravel & sand, coarse Hardpan Sand Water bearing Sand & clay	g necessary is protect. Give with stratign in a sireens, is 0.5 17.20.26.31	p parenthes depths in (aphic solunic.) 5 17 20 26	es. the section of th
ATTON ATTON (Transcribe driller's terminology literally but 7 raphrase material water bearing, so state and record state level if 7 raphrase individual state bearing, so state and record state level if 7 raphrase individual state in its state of the state individual state in its state individual state in its state individual state in its s	(feet). Inscressary in ported. Give with atratige in sircens, in the strategy of the strategy	n parenthes depths in (families) 5 17 20 26 31	res. He eet one of the eet of the
Arron (Transcribe driller's terminology literally but 1 reaphrase 1 material water-bearing, so state and record state level if 7 low land-surface datum males-otherwise indicated. Correlate reasible, Following-log of materials, list all casings, perforate Group domestic Fop soil Herdpan Gravel & sand, coarse Hardpan Sand - Water bearing Sand & clay Sand, hard packed Clay & sand, blue	g necessary is protect. Give with stratign in a sireens, is 0.5 17.20.26.31	patenthes depths in (aphic column (c.) 5 17 20 26 31 38	Test the second of the second
ATTON ATTON (Transcribe driller's terminology literally but peraphrase of material water bearing, so state and record state level if relaw land-surface datum unless otherwise indicated. Correlate reasible, Following for all materials, list all casings, perforate group domestic Top soil Herdpan Gravel & sand, coarse Hardpan Sand Water bearing Sand & clay Sand, hard packed Clay, & sand, blue	g necessary is protect. Give with stratign in a sireens, is 0.5 17.20.26.31	patrenthes depths in (caphic columnic) 5 17 20 26 31 38 42 46	res. It is a section of the section
Arron (Transcribe driller's terminology literally but 1 reaphrase 1 material water-bearing, so state and record state level if 7 low land-surface datum males-otherwise indicated. Correlate reasible, Following-log of materials, list all casings, perforate Group domestic Fop soil Herdpan Gravel & sand, coarse Hardpan Sand - Water bearing Sand & clay Sand, hard packed Clay & sand, blue	g necessary is protect. Give with stratign in a sireens, is 0.5 17.20.26.31	n parenthes depths in (c) aphic columns: 17	Per de la constant de
ATTON (Transcribe driller's terminology literally but 1 resphrase 1 material water bearing, so state and record state of event state of the record state of the record state of the record state. Correlate reasible, Following for at materials, list all casings, perforate group domestic Top soil Hardpan Gravel & sand, coarse Hardpan Sand Water bearing Sand & clay Sand, hard packed Clay, & sand, blue	(feet) necessary in ported. Give with atratige in series in 17 20 26 31 38 42 46	n parenthes depths in (aphic solunic.) 5 17 20 26 31 38 42 46 80 85	es. the second of the second o
MATERIAL (Transcribe driller's terminology literally but paraphrase material water bearing, so state and record state level if resistorial water bearing, so state and record state level if resistorial water bearing at materials, list all casings, perforate Group domestic Top soil Herdpan Gravel & sand, coarse Hardpan Sand Water bearing Sand & clay Sand, hard packed Clay & sand, blue Clay, blue Sand-warer, fine	0 0 5 17 20 26 31 38 42 46 80 85	patrenthes depths in (caphic column in)	est to the second of the secon
(Transcribe driller's terminology literally but paraphrase of motorial water bearing, so state and record state level if relaw land-surface datum unless otherwise indicated. Correlate Casible, Following-log at materials, list all casings, perforate Group domestic Fop soil Herdpan Gravel & sand, coarse Hardpan Sand Water bearing Sand & clay Sand, hard packed Clay & sand, blue Clay, blue Sand, fine & coarse gravel Sand, fine	0 0 5 17 20 26 31 38 42 46 80 85 87	1 5 17 20 26 31 38 42 46 80 85 87 103	est to the second of the secon
ATTON (Transcribe driller's terminology literally but paraphrase and motorial water-bearing, so state and record state level if realist land surface datum unless otherwise indicated. Correlate reasible, Following for all materials, list all casings, perforate Group domestic Fop soil Herdpan Gravel & sand, coarse Hardpan Sand - Water bearing Sand & clay Sand, hard packed Clay, blue Sand, fine & coarse gravel	0 0 5 17 20 26 31 38 42 46 80 85	patrenthes depths in (caphic column in)	est to a series of the series

Appli. No. 9822 Permit No. 8668

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WELL LOG. Continued N		1900 1900 1900
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CORRE- LATION MATTER		
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	(zeet)	(feet)
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10m.0-105		
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105 to 109		
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Date: April-26, 1968		
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	DEPARTMENT OF C	ONSERVATI	ON //or	· 02 - 3
	DEPARTMENT OF U	R RESOURCES	App1-#73	702
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MELL LOG	Driller		- 7	""。
Record by	Driller's Record	- 100% 1	<u></u>	
Source		**************************************	- Ja 1	A 18 18 18 18 18 18 18 18 18 18 18 18 18
r i sani Si	ate of WASHINGTON		7	
Location of	Pierce	والمستناه المعسطين	O .	A TESTERIO
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Area	and the second s	3. Se 7.		- New York
Map:	SW 44 sec 13 T. 22 N. R. T. Harbor Pimp & Dri	E, land	gram of Sec	don Z
NE 1/4	He strong Pump & Dri	iling Co.,	inc	
Drilling Co	Harbor Pimp & UF1. Rt. 4. Bor 4117.	Gig Harbon	yası.	
Addre	S. Calle	Date Apr.	il 28 ,	19. Div. 19.
Metho	d of Drilling Cable			
Owner	S. H. Crooks Route 3. Box 59 B;	Gig Harbo	r-Vash	
	HOUTE: District Advantage	in	,	
	The first that	10	6m	c 58!7
www.T.	lowing Date april 28	1964 D		2.04
Artesia	lowing Date 1 lbs/sq/i		Yiom.	(feet)
CARREL	MATERIAL CO.	والأور والمحارف	(feet).	
LATION	ma hu Sil	n en seprataire	ecrasica in p	arenthese
(Tran	scribe driller's terminalogy literally but water bearing, so state and record at surface datum unless otherwise indicate a control of the con	atio leval if reput ted - Verrelate wi	th stratigrap	nie column.
below land	surface datum unless other wish cas	ngs, perforations	, serceus, co-	
II Jesting	Community domestic.	1001y	272	12
	Augered hole		.0/.1	12'6
	Gravel, brown, & har	dpan	12	42.0
	Sand, clean, & grave	1.		- YOUN (2)
	Sand, Clean, C.		421611	6313
·	, water bearing	· · · · · · · · · · · · · · · · · · ·		
	200.0	(7)	1	
	Casing: 6" from 0=	om 53-581	477, 21852	
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<u></u>	Company Sea Lea W+40	Going 12	1	
	to a death of	<u>३,१८५ - ज्यांन्यतामः</u>	_1	
			hrs.	
	60 kbm Arri 34 ··	DD arter /		
	Amtosian flow 15	gom		17.
	Test made 4-28-61	<u> </u>		
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File Original with Department of Ecology Second Copy Owner's Copy

WATER WELL REPORT

Notice of Intent W 112535	
UNIQUE WELL ID # A GE 502	

The	Copy - Driter's Copy 92184	Water Right Permit No
(1)	OWNER Name Roy Pegram	Address 14613 Parcy Dr NW Gy Harbon Wa 98332
(2) (2a)	STREET ADDRESS OF WELL (or nearest address)	BE-7314 SW 1/4 SBC /3 T DZ NR / 15 WM Same
(3)	UEP C. SC	The 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
(4)	TYPE OF WORK Owner's number of well of more than one) New Well Deepened Deepened Reconcitioned Decommission Rotary Jetted	one entry for each change of information Indicate all water encountered MATERIAL FROM TO Job Soil O R Silt 4 C Vacel (BV ava) 2 28
(5)	Drilled 88 feet Depth of completed well 88	thes Hand Dan (gray) 28 50 # Sand + Silt (Brown) 50 82
(6)	CONSTRUCTION DETAILS Casing Installed Wedded Diam from +1 to 8-3 Liner installed Diam from the to Threaded Diam from the to	
	Perforations CI Yes X No Type of perforations	
	perforations fromtt_tott_to	
	Screens AYes □ No □ K-Pac Location Manufacturer's Name If to □ S I Size If to □ S I I I I I I I I I I I I I I I I I I	fr
	Gravel/Filter packed ☐ Yes V No ☐ Size of gravel/sand	
	Surface seal YYes LTNo To what depth?	
(7)	PUMP Manufacturer's Name	
	WATER LEVELS Land surface elevation above mean sea level	Work Started 3/24 6 / Completed 3/31 0/
(9)	(Cap valvo etc.) WELL TESTS Drawdown is amount water level is towered below static level. Was a pump test made? KYes ID No. If yes by whom?	Contractor s Registration No WASCADX OSZPLO Date 4/2 OL USE ADDITIONAL SHEETS IF NECESSARY) Ecology is an Equal Opportunity and Affirmative Action employer For special
ECY (050 1 20 (11,98)	eccommodation needs contact the Water Resources Program at (380) 407 6600 The TDD number is (360) 407 6006

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

Application	No.	*** ** *** *** ** *** *** *** ***
Darmit No.		

(1) OWNER: Name Sarah Johnston	Address	
(2) LOCATION OF WELL: County Pierce		17:
Bearing and distance from section or subdivision corner		R.H.H.W.M.
	Total Merit Too.	
(3) PROPOSED USE: Domestic 🕱 Industrial 🖸 Municipal 🖂	(10) WELL LOG:	
Irrigation Test Well Other	Formation: Describe by color, character, size of material and s show thickness of aquifers and the kind and nature of the mat stratum penetrated, with at teast one entry for each change a	tructure, and erial in each
(4) TYPE OF WORK: Owner's number of well (if more than one)		,
New well 🛣 Method: Dug 🗀 Bored 🖸	MATERIAL FROM	-
Deepened 🔲 Cable 🗷 Driven 🗍	Brown sand & gravel	0 7
Reconditioned Rotary Jetted	Grey cemented sand & gravel	
(5) DIMENSIONS: Diameter of well 6 inches. Drilled 64 ft. Depth of completed well 64 ft.		8 40 0 49
Drilled 64 ft. Depth of completed well 64 ft.		
ZAL GONGERVIOUS DEPARTS		9 <u>53</u> 3 63
(6) CONSTRUCTION DETAILS:	BIOWII SAIIO & GLAVET - W. B. 5	3 03
Casing installed: 6 " Dlam, from +1 ft. to 59 ft.		
Threaded Plam. from ft. to ft.		
Welded 2 Dlam, from tt, to tt.		
Perforations: Yes D No X		+
Type of perforator used		
SIZE of perforations in, by in,		
perforations from ft. to ft.		
perforations from tt, to tt,		
Sanoana		
Screens: Yes X No II		
man machinet of resilient more annual and a second annual		
Type Welded Wire Model No. 6" Slot size 012 from 58 ft. to 64 ft.		_ .
Diam. Slot size from ft, to ft.		
Gravel packed: Yes No & Size of gravel:	1 - REDE	
Gravel placed from ft. to ft.		
Surface seal: Yes X No To what depth?18 ft.	1	
Material used in seal BENTONITE Did any strata contain unusable water? Yes [] No [**	DFDAD. 1980	
Type of water? Depth of strata	SOUTHWEST REGIONAL DESCRIPTION	
Method of sealing strata off	RECOLOGY	
/7\ DYTMD.	SOUTHWEST REGIONAL OFFICE	
(7) PUMP: Manufacturer's Name	104.	
1790; entransministration and the community of the commun		
(8) WATER LEVELS: Land-surface elevation above mean sea level 75		
static level21tt. below top of wall Date 11/9/80		
Artesian pressure		
Artesian water is controlled by(Cap, valve, etc.)		
(9) WELL TESTS: Drawdown is amount water level is		<u> </u>
lowered below stylin level	Work started 11/03/80 ₁₉ Completed 11/08	1980
Vas a pump test made? Yes ☐ No ☐ If yes, by whom?	WELL DRILLER'S STATEMENT:	
0 0 0 0	1	
0 20 35 , 31	This well was drilled under my jurisdiction and thi true to the best of my knowledge and belief.	s report is
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	NAME Olympic West Drilling, Inc.	•
	(Parson, firm, or corporation) (Type or	
,	Address 9512 State Hwy 16 NW; Gig I	Harbor,
	1	. 1
Date of test	[Signed] T. L. Ketzenberg	<u> </u>
•	(Well Driller)	
	License No. 0240 Date 11/11	19 80
Baller test 12 gal/min, with 20 ft. drawdown after 1 hrs. Artesian flow g.p.m. Date Comperature of water Was a chemical analysis made? Yes 1 No 28	(Well Driller)	, 19

	STATE OF WASHINGTON	1
	DEPARTMENT OF CONSERVATION DIVISION OF WATER RESOURCES APRIL #7302 ==	
	pivision of Water Permit #7102	3
WELL LOG		1.3
Record by		
Source	Driving and the second	19.3
Location' S	State of WASHINGTON	
County	Pierce	
Avan	79	
ME 1/	SW 1/4 sec 13 To 22 N. R. 1 KWX Diagram of Section Harbor Pump & Drilling Co. Inc. Dt. 1/6 Box 4117, Gig Harbor, Wash.	
	Harbor Pump & Drilling to. Rt. 4. Box 4117, Gig Harbor, Wash. Cable Date April 28, 19	9 (4)
		W. Taranti
	the mailling, and the second of the second o	11.0
Metno	S. H. Crooks S. H. Crooks S. Gig Harbor, Wash.	
Owner	S. H. Crooks S. H.	<u>~~</u> 3~~ ·
		8172
Land sur	128 1994 Dims	
XXXXXXX	lowing Date 19 bs/sq/in From Form (feet), (feet),	3
ALCESTO	(feet) (feet)	b
CORRE-	MATERIAL in Derent	heses 2
	nscribe driller's terminology literally but ratophrase as newstary, in parent as water-bearing, so state and racord static level if reported. Give dobits in all water-bearing, so state and racord static level if reported with stratigraphic of discrete datum unless otherwise indicated. Tourelate with stratigraphic of discrete datum unless otherwise indicated. For the strategies of the str	iumu.
materia	al water-bearing, so state and all districted (foreign specials, etc.)	
if feasible	Following log of materials	· · · · · · · · · · · · · · · · · · ·
	deministry domestic supplies	<u>12</u>
	Augered hole	12'6"
	Gravel, brown, & hardpan 12	
	Sand : clean, w. 812 Vol.	313" T
	water bearing	
	The second secon	
	Casing: -6" from 0-57'	3544 F3
	Casing: -0" Casing: -0" Screen installed from 53-58	· · · · · · · · · · · · · · · · · · ·
	a sea led With Cemon	
	La A denth Ov 2001	
. ,	60 gpm with 32	
	A Facian flow 15 gpm	
	Test made 4-28-64	1.1
		sheets
	Slieet	· · · · ·

STATE OF WASHINGTON	
STATE OF WASHING OF CONSERV	ATION
DEPARTMENT OF CONSERVED DIVISION OF WATER RESOU	RCES Appl. #7902 图
The state of the s	termit:#7102
The Part of the second	
	西米州 1011至348676
Record by Driller's Record	
Source	司件-13-11节11100000
Location: State of WASHINGTON	一种 一种
County	
County	
Area	
Map. 22 22 1 E	Diagram of Section
Map. E. SW M sec 13 T. 22 N. R. WXX NE M. SW M sec 13 T. 22 N. R. Drilling. Drilling Co. Harbor Pump & Drilling. Drilling Co. Box 4117, Gig. Ha	
Harpor	rbor Wash
Drilling Co. Harbor Pump & Drilling Address: Rt. 4, Box 4117, Gig. Ha Method of Drilling Cable Date	72-41-28- 19 64-
Address Date.	
Method of Dritting	
Owner S. H. Crooks Owner Route 3, Box 59 B, Gig Ha	rbor, Wash.
	17-3-1865 (Shinx)0 16-21
flowing Date April 28	Dims.
Laud surface, datum	TO TOOM
MCCC Commentation of the second commentation of	(feet) (feet)
and the second s	in parentheses, in
(Transcribe driller's terminology literally but Fataphras (Transcribe dril	reported. Give depths in feet
(Transcribe driller's terminology, literally but ratingham If material water-bearing, so state and record statio, level: if below land-surface datum unless otherwise indicated. Corre if feasible Following log of materials, list till casings, perfor	ations, sercens, etc.)
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Gravel, brown, & hardpan.	12 42 0
Gravel, browns & marel	不 一
Sand, clean, & gravel,	12'6" 63'3" B
water bearing	· · · · · · · · · · · · · · · · · · ·
<u> - ユジューー十一 77 </u>	The Property of the Party of th
Casing: 60 from 0-57	The second secon
Screen installed from 53-	8
Screen installed from Surface scaled with cemen	grout
Surface sealed was	10000000000000000000000000000000000000
to a depth of 30	The state of the s
Bailer test yield:	on Whrs. · · · · · · · · · · · · · · · · · · ·
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		·····/·····	LOG.—Continued No.	

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Lat of Ecology
and Copy — Owner's Copy
Inird Copy — Driller's Copy

WATER WELL REPORT STATE OF WASHINGTON

Аррисаціоп	140.	***************************************
Permit No.		3

mry cupy — Jitmer's copy			00 E
1) OWNER: Name Stan Maleskey	Address 14418 Sherman Dr. NW Gig Har	por Ag	<u> </u>
2) LOCATION OF WELL: County Pierce		2N., R.1	,ЩW.М.
searing and distance from section or subdivision corner			
	(10) WELL LOG:	<u>.</u>	
3) PROPOSED USE: Domestic Industrial Municipal Infrigation Test Well Other I	Formation: Describe by color, character, size of materic show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each c	il and structhe materi	cture, and al in each formation.
(A) TOURE OF WORK. Owner's number of well	MATERIAL	FROM	TO
(if more than one)		0	3
New well 🔼 Method: Dug 📋 Bored 🗀 Deepened 🗇 Cable 📜 Driven 🗓	Brown sand & large gravel	3	18
Reconditioned □ Rotary,□ Jetted □	Hard packed sand & gravel	 	<u> </u>
6	Hard packed gravel, some	18	28
5) DIMENSIONS: Diameter of well inches. Drilled 10 1t. Depth of completed well 10 1t.	seepage	28	34
Drilled 40 ft. Depth of completed well 40 ft.	Gray hardpan Brown heaving sand - water	170	
(6) CONSTRUCTION DETAILS:	bearing bearing	34	38
Casing installed: 84 Dlam. from 0 tt. to 40 tt.	Coarse water bearing sand &		
Threaded [] Dlam, from tt. to	gravel	38	40
Welded XI Dlam, from It, to It.	RIGARY		
Perforations: Yes 🔲 No 📆			
Type of perforator used in, by in, by			
perforations from			
perforations from ft, to 11.			
perforations from ft. to ft.			
S			<u></u>
Screens: yes No 20 Manufacturer's Name			
Model No.	9- 17 · · · · · · · · · · · · · · · · · ·		<u> </u>
Non Slot size from ft. to it.			
Diam. Slot size from ft. to ft.	35.	_	
Gravel packed: Yes No Size of gravel:			
Gravel placed from ft. to ft.	RECEIVED.		_
	San San Day 10 Bee lines?		
Surface seal: Yes No To what depth?	Alica to 1075		
Material used in Sual	700101010		
Depth of strata	DESCRIPTION FOOL ONLY		
Method of sealing strata off		-	+
(7) PUMP: Manufacturer's Name	Carlotte Carlot	 	 `
HP			
туре:		- 	 -
(8) WATER LEVELS: Land-surface elevation above mean sea level		- 	
Static level61t. below top of well Date			
Artesian pressure		_	
Artesian water is controlled by(Cap, valve, etc.)		_	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 7/38 1975 Completed 7	/31	19.75
			Milani Avaning
Was a pump test made? Yes [] No [X] If yes, by whom?	1 A/ 4/ 1 1 1 1 1 1 1 1 1 1		
Yield: gal./min. with tt. drawdown tites	This well was drilled under my jurisdiction	n and thi	is report is
0 0	true to the best of my knowledge and belief	•	
Recovery data (time taken as zero when pump turned off) (water level	Harbor Pump & Drilling Co.,	Inc.	
measured from Well top to water level	NAME (Person, firm, or corporation)	(Type or	print)
Time Water Level Time Water Level Time Water Level			
1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(1)-(Address 7825 46th Ave. NW Gig He	LOOL'	79
	a politica	Fig C C	les
Date of test 7/34/75	[Signed] Charles Colglaguer by	TAL . MT.	Tab
Beller test 20 gal/min, with 24tt. drawdown afterhr	0476 (Well Driller)	- In .	ر معي
Arterion flow	" 1 223 01 84.55 mate	7/31	, 197.
Temperature of water			

	STATE OF W	Marin.	<i>i</i> .	
	DEPARTMENT OF	MASHINGT	ol.	1
WELL LOG	AND DESIGNATION	CONSER	VAIM-	ſ
TOG	DEPARTMENT OF AND DEVE	LOPMEY	AUTION	
Date Max Record by Dri	into a	λτ	Appli.	#7500
Record	on 16 10 65	110,		נטלו".
Record by Dri	11er 7.18	1		*
Source Drill			1-27	
	S Record		1.01	. []
Location: State of WA				1
Course of WY	SHINGTON	-1	$1 \cdot 1 \cdot$	
		· · · · · · · · · · · · · · · · · · ·	1 1/2	1. 1
Area.	*************************	1 - 1	7	
Area Map	**************************************		1000	1 1
RITT	***************************************		}	1 1
ME 1/4 NW 1/2 T	3 T.22 N, R 1 E	1	1	
Drilling Co. Richard Address 219 So. Method of Down	2T. 22 N. D. 7. T.	···	1. 3 1.0	-
The Co. Alchan	ison trans	λ- ¹ Di	agram of Sect	
Address 219 So. Method of Drilling Owner Stuart B.	Dr11	lina	Or 26Cl	ion :
W-42	115th St. m	AND NOT	Pany	
Method of Drilling	Cahr-	iona Wa	old.	********
Owner Stuart p.	antë		amuston	F 41
Method of Drilling Owner Stuart B. Address Route 2 Laud surface, datum.	аууоод	are. gan	.28	Zr
Address Route 2	Pa	***		·δ.Σ
Laud surface, datum:		D- 1	***************************************	
uatum:	- abovo	nardor,	-Washin-	/
Coapa	below	44.1.		con
LATION			· · · · · · · · · · · · · · · · · · ·	. ' "
	[ATERIAL	1		****
		THICK	NPSQ	- 1
being the water-benefit terminole	ow the	· (fee) DEPTE	•]
(Transcribe driller's terminole that material water-bearing, so state below land-surface datum unless of feasible. Following log of material Municipal well Top soil	and record but paraphras	e 20 -		. 1
ondaing log of materi	nerwise indicated level if	reported A	rin parenthae	
Munical	all casings, perfor	ate with strat	e depths in f	eet
m Well		screens	etc.)	in, -]
Top soil				_
Sand and grave				
C2 and grave	1	<u> </u>	1] -
		2	2	_]
Clay and			29	1
Clay and sand		129	60	·
		.60		∵ . I
Coargo			T80	- 1
Coarse sand grav	/A]	.∤-80	89	_
Water, sand and a	and Water	89.	-	· y
Casing: 611 a	Tavel		L90	
Casing: 6" from No perforations	O to one	20	.92	.d. "
No perforations Screened from the	72		72	
Screened o			<u>~</u>	. 1
Star - Gill 87	to 000			<i>3</i> } · · · ·
SWL: 401 on James	76		-	1
Yields 30-35 gpm	TY 28, 1965			7 ·
D is Som	200			1 .
Bailed 30 gom with	1 15' DD after		-	
Pump: 3 HP jet	15' DD 254-	-		1
Jet Jet	490 110	1 hour		
Turn up			الاستنبيب ا	
up				
			:1	:::
	Sheet	01	1	
			Dha	

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

WATER WELL REPORT

Application	No.	0/76/2
Permit No.	,	**** ******** **************

(1) OWNER: Name WILLITY LACOPONE CO.		** ** *** ***
(2) LOCATION OF WELL: County FIERE	Address	1.6
Searing and distance from section or subdivision corner	- 290% 200 % See - 7 T.43	£.N., R.A.S.W.M.
	(10) WELL LOG:	
(3) PROPOSED USE: Domestic [] Industrial [] Municipal [] Irrigation [] Test Well [] Other [F		
	Formation: Describe by color, character, size of material show thickness of aquifers and the kind and nature of it stratum penetrated, with at least one entry for each ch	and structure, and te material in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	FROM TO
New well ☐ Method; Dug ☐ Hored ☐ Deepened ☐ Cable ☐ Driven ☐	CRUSHED BOOK	0 /
Reconditioned Rotary Jetted		
(5) DIMENSIONS: Diameter of well	_ SAND	1 2
Drilled. 42 It. Depth of completed well. 42 It.		
	SAND GRAVEL ASIME LAY	_2 1.3
(6) CONSTRUCTION DETAILS:	- and	/3 40
Casing installed: 6 Dlam from 2 nt to 40 nt.	3,7480	13 30
Threaded [] "Diam, from tt, to	SAND GRAVEL	30 32
Perforations: Yes No Type of perforator used.	S AND	32 38
SIZE of perforations in. by in.		
perforations from	SAND GRAVEL 4 WATER	38 72
perforations from ft. to ft. t		
Screens: Yes No		
Type		
Diam Slot size from ft. to ft.		-
Diam	3 %3	
Gravel packed; Yes [] No [] Size of gravel;		
Gravel placed from ft, to ft, to ft.		
Surface seal: Yes W No D To what depth?		
Material used in seal		
Did any strata contain unusable water? Yes No [] Type of water?		
Method of sealing strata off		
(7) PHMP: Years and All Philippine (7)		
(7) PUMP: Manufacturer's Name		
(8) WATER LEVELS: Land-surface elevation		
above mean sea level		
Static level tt. below top of well Date (2-7] 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	Work started	14 10.800
Was a pump test made? Yes No No I If yes, by whom? Yield: gal/min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	tarry
riciu: gai/min. with it. drawdown after hrs.	_	
n n n n	This well was drilled under my jurisdiction an true to the best of my knowledge and belief.	d this report is
Recovery data (time taken as zero when pump turned off) (water lovel measured from well top to water level)		
Time Water Level Time Water Level Time Water Level	NAME KRING DRILLING COPERATION (Ty)	o Inc
	(Person, firm, or corporation) (Ty	pe or print)
	Address F-O. RM 317 MILT	or WA1
Distance and test	11 - 211 -	4 2387
Date of testhrs. Bailer testal./min. withft. drawdown afterhrs.	[Signed] (Well Driller)	
Arlesion flowg.p.m. Date	• • • • • • • •	
Temperature of water Was a chemical analysis made? Yes 🗌 No 🗍	License No. 0443 Date 19	/.S, 19.8L

Enclosure B Email Correspondence

				·	
		·			
			*		
4					
			•		

From:

David Polivka

To:

Mullin, Tim (ECY)

Cc:

Stephen Spencer; tracey98359; Acklam, Nicholas (ECY)

Subject: Date: RE: SW1590 - Gig Harbor Transmission Thursday, January 04, 2018 3:05:23 PM

Attachments:

image001.png

Tim:

Thank you. That is a good accurate summary of our discussion. I look forward to receiving the letter and working with you to get this project closed out.

David R. Folivka L. G./ L.Hg.

Senior Hydrogeologist



Practical Environmental Compliance Solutions

Officests: Anchorage | Tacoma | Famend

Direct: (360) 349-0851 Office: (253) 238-9270 Fax; (253) 369-6228

E-mail: david@ecocon.us

From: Mullin, Tim (ECY) [mailto:TMUL461@ECY.WA.GOV]

Sent: Thursday, January 04, 2018 1:23 PM

To: David Polivka

Cc: Stephen Spencer; tracey98359; Acklam, Nicholas (ECY); Mullin, Tim (ECY)

Subject: SW1590 - Gig Harbor Transmission

Dave,

Thanks for the call today regarding SW1590 – Gig Harbor Transmission. My comments for this Site are:

- 1) Ecology's draft Further Action opinion letter is a reiteration of the September 27, 2017 opinion letter requirement to install one monitoring well at B2.
- 2) Anticipate this letter being done in about a week or so. It is currently in the final level of internal Ecology review.
- 3) Ecology recommends reviewing the Further Action opinion letter before taking the next steps or requesting a meeting.
- 4) Ecology does not concur that the dry direct push borings from October 2017 were sufficient to show that groundwater is not present/not contaminated and did not confirm that the cleanup action has attained cleanup standards (see WAC 173-340-360(2)(a)(iv), 173-340-410 or 173-340-720).
- 5) Ecology's concern is to ensure that drinking water supply in the vicinity of Gig Harbor Transmission is protected, especially given the fact that the neighbor to the west has a shallow domestic supply well (likely downgradient).
- 6) Ecology recommends that an example of a sufficient demonstration would be to install a

monitoring well as outlined in that September 27, 2017 NFA likely opinion letter.

- a. For example, this could be a 2" diameter monitoring well installed with a hollow stem auger, using an approximate 10 foot screen in the vicinity of former boring B2.
- b. The target interval for this well is the approximate 11-14 foot wet zone as identified in the various February 2010 boring logs from around the Property.
- c. Ecology suggests drilling deeper than 14 feet to set the monitoring well in order to ensure capture of the perched groundwater zone.
- d. However, want to avoid dragging down any potential contamination into the drinking water aquifer.
 - i. Thus, the well screen interval will need to be deep enough to cover the potential shallow groundwater zone, but not too deep as to potentially impact the drinking water aquifer.
 - ii. Because the well would be in outwash/till, it may take some time for groundwater to enter the well.
- 7) If the installed monitoring well were dry for some period of time (say a month or more), should discuss with Ecology, as this may be a sufficient demonstration to show that groundwater is not contaminated.
- 8) If groundwater is present in the well, then Ecology recommends completing the performance monitoring as outlined in the September 27, 2017 opinion letter.
- 9) We discussed the option of and current status of the insufficient yield (non potable) demonstration under WAC 173-340-720(2)(b)(i).
 - However, this demonstration currently requires installing a well in accordance with normal domestic water well construction practices for the area in which the site is located.
 - b. The effort and expense of this option likely makes it not viable compared to installing the monitoring well discussed above.

Thank you, Tim

Tim Mullin, LHG

Voluntary Cleanup Program Site Manager

Southwest Region – Toxics Cleanup Program

Washington State Department of Ecology

300 Desmond Drive Southeast

Lacey, WA 98503

360-407-6265

tmul461@ecv.wa.gov



Date: May 25, 2018

Dept of Ecology:

The following is in response to your May 25, 2018 request for delivery information on your Certified Mail™ item number 9171999991703774718972. The delivery record shows that this item was delivered on January 22, 2018 at 12:26 pm in OLALLA, WA 98359. The scanned image of the recipient information is provided below.

Marker

526 SEHONGORY

Signature of Recipient:

Address of Recipient:

Thank you for selecting the Postal Service for your mailing needs.

If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,

United States Postal Service