## SITE ASSESSMENT ENGINEERING REPORT

on

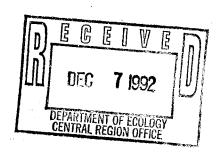
PETROLEUM RELEASE

at

MAID o'CLOVER, INC.

Yakima, Washington





Prepared by

PLSA ENGINEERING & SURVEYING WDOE LIC. NO. S000210
1120 West Lincoln Avenue
Yakima, WA 98902
(509) 575-6990

July, 1992

Job No. 91056

## TABLE OF CONTENTS

INTRODUCTION

SURFACE CONDITIONS

SUB SURFACE CONDITIONS

SAMPLING PLAN

TANK BASIN CONTAMINANT CHARACTERIZATION

PERIPHERAL WELL CONSTRUCTION SAMPLING RESULTS

INTERIM CLEANUP METHODS

CONTAMINANT REMOVAL MONITORING

VISUAL OBSERVATIONS

CLEANUP LEVELS

REMAINING CONTAMINATION

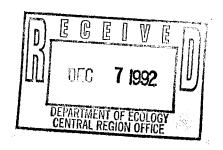
SITE CLOSURE

NEARBY WELLS

SITE CHECK/SITE ASSESSMENT CHECKLIST

FIGURES

APPENDICES



# LIST OF FIGURES

FIGURE 1
Location Map

FIGURE 2
Site Map / With Hydraulic Gradient

FIGURE 3
Soils

FIGURE 4
Utilities

FIGURE 5
Static Water Levels

## LIST OF APPENDICES

- APPENDIX 1 ESE Report, March 25, 1991
- APPENDIX 2 Sensitive Species
- APPENDIX 3

  Tank Basin Well Samples
- APPENDIX 4
  Peripheral Well Samples
- APPENDIX 5
  Oil/Water Separator, Up flow Treatment
  Unit Samples
- APPENDIX 6
  Well Logs in the Vicinity
- APPENDIX 7
  Well Sampling Results
- APPENDIX 8
  Cleanup Levels, WAC 173-340.
- APPENDIX 9
  Site Check/Site Assessment Form
- APPENDIX 10
  City of Yakima, Waste Discharge Permit
- APPENDIX 11
  PLSA Sampling Plan
- APPENDIX 12 Health and Safety Plan

#### INTRODUCTION

The Maid o'Clover, Inc., a convenience store located at 1802 East Nob Hill Boulevard, Yakima, Washington recently experienced two separate petroleum releases each involving new pressure relief valves installed at the gasoline turbine pump discharges serving its gasoline dispensers. The release site is located in the NW 1/4, SE 1/4, SEC 29, TWN 13N, R 18, EWM. See Figure 1.

Preliminary investigative work was performed by Environmental Science and Engineering, Inc. in February 1991. See Appendix 1. This preliminary report consisted of drilling three resource protection wells completed with 2 inch diameter perforated PVC casing, known as Monitoring Wells, (MW), 1, 2, and 3. See Figure 2. Slight gasoline odors were detected and 0.2 feet of free product was found in the most westerly well designated as MW 3. Soils were logged by ESE. See Figure 3.

This report summarizes the installation of additional monitoring wells, seasonal fluctuations in the water table, interim cleanup actions taken, sampling results compared to required cleanup levels, and proposed site closure.

Environmental and geotechnical engineers and a geologist from PLSA Engineering and Surveying, WDOE License No. S000210, experienced with local soil conditions conducted field investigations and monitored investigative drilling to determine the extent of contamination, and direction of the local hydraulic gradient, (easterly). See Figure 2.

The owner's representative and contact person for this project is:

Mr. Jeff Louden Maid o'Clover, Inc. 207 South Sixth Avenue Yakima, WA 98902 phone (509) 248-3562

#### SURFACE CONDITIONS

A convenience store, gas pumps, and self service car wash are located on the premises. Concrete pavement covers the tank basin. The balance of the open area is asphalt paved parking. The site is zoned commercial. Residential areas are immediately to the south of the site, and multiple gas stations exist immediately north, northwest and west of the site and further west of the site along East Nob Hill Blvd., (with a known, extensive petroleum product release on record).

Affected populations include local residents and those who work at or frequent the store.

the water table elevation. Each sample was labeled and assigned a coded designation specific to the well. Water samples were collected from the upper static water level by using a Teflon bailer to sample from the resource protection wells. The bailer and other sampling equipment was washed in an Alconox solution and rinsed with domestic tap water before each use. See Appendix 11. Sample containers supplied by the analytical laboratory were clean glass, with teflon lined, threaded caps. Soil gas was field monitored with a Gastech 1314 SMPN Combustion Analyser and a Photovac Photoanalizer. Health and safety issues were/are to be in accordance with PLSA's Health and Safety Plan. See Appendix 12.

Laboratory analysis of soil and water samples were performed by Sound Analytical Laboratories, Washington State Department of Ecology accreditation No. C027.

Quality control procedures and information are on file at WDOE, Sound Analytical, and at PLSA.

All samples were stored and shipped to the laboratory by overnight express in a refrigerated, insulated container, accompanied by a completed chain-of-custody form.

### TANK BASIN CONTAMINANT CHARACTERIZATION

A petroleum odor was observed when the tank basin soil was disturbed, by ESE, Inc. A characterization sample was collected. This sample was submitted to a laboratory for analysis for WTPH-HCID, BTEX, and lead, in the tank basin.

Gasoline was found in excess of Model Toxics Control Act limits, (WAC 173-340), in the tank basin. See Appendix 3.

#### PERIPHERAL WELL CONSTRUCTION SAMPLING RESULTS

Soil and water samples were collected from the water table elevation at six, six inch diameter resource protection wells drilled around the periphery of the premises and submitted for analysis for the presence of TPH, gasoline components, and lead. Soil samples were below detection limits for WTPH-HCID, BTEX, and lead was low for normally found area background. Water samples similarly did not show evidence of contamination.

Resource protection well locations may be found on Figure 2. Analytical reports may be found in Appendix 4.

### INTERIM CLEANUP METHODS

A Westinghouse FAP surface skimming pump was installed in MW 3. Nearly six hundred and fifty gallons of free product were removed directly to fifty five gallon barrels for recycling. When FAP pumping became inefficient, (less than one quarter inch of product on the groundwater surface), other means were explored.

Contamination is located within the gravel stratum. Permeability is sufficiently high to be suitable for remediation by soil agitation with high volume pumping, oil/water separation, and treatment, prior to discharge to a Publicly Owned Treatment Works. Such pumping would develop high ground water velocities to and through the slotted well casings. It was expected to accomplish a significant cleanup of the remaining plume, certainly shortening the time period required for any future soil gas remediation technique. A soil remediation provider was contacted to design and install a soil aeration system with monitoring and reporting by PLSA. Estimated costs of nearly one hundred thousand dollars for a completed project, with no guaranteed solution for the owners, seemed excessive, at this point.

An up flow petrophilic coalescing plate adsorption treatment system was designed by PLSA and constructed and installed on site, following a three hundred gallon per minute capacity oil/water separator. These unit processes were installed in series between the recovery wells and the City sewer. The equipment was tested and monitored. See Appendix 5. A City of Yakima waste discharge permit was obtained. See Appendix 10. The equipment was inspected by Mr. Kim Sherwood of the Washington State Department of Ecology.

Variously sized "trash pumps" and suction tubes and pipes were used to clean debris from each well and eventually to evacuate as much remaining product and potentially contaminated water to the oil/water separator and treatment facility for separation of product for recycling and treated water discharge to the City of Yakima Treatment Plant. Maximum rates of flow were measured at 57 gpm. Total pumpage amounted to as much as seven thousand gallons per day from the targeted wells. Measured draw down estimated by suction breaking and electrical tape, was approximately four feet, (well within the variation of static water levels observed by ESE and PLSA). Pumping locations were selected, opportunisticly, based on field and laboratory analysis of odors and water quality.

Static water levels were measured periodically, before and after pumping. See Figure 5. Recovery time was measured to one 1/100th of a foot in fifteen minutes at well MOC 3, indicating high transmissivity and aguifer yield.

## CONTAMINANT REMOVAL MONITORING

Analytical results of samples taken after pumping are recorded in Appendix 7.

#### VISUAL OBSERVATIONS

Upon sampling with the Teflon bailer in ESE Wells MW 1 and 2, without agitation, numerous living macrophytes were collected, by PLSA, along with gelatinous floc at the ground water surface. This indicated aerobiosis in the upper aerated portion of the monitoring wells which were found to contain petroleum products in subsequent laboratory analysis.

At the beginning of a pumping campaign, water turbidity was monitored. When turbidity was observed, grab samples were taken for visual observation, by PLSA. Water in ESE Wells MW 1 and 2 exhibited a rusty color. Within thirty minutes of natural, undisturbed exposure to the atmosphere, what appeared to be iron oxide precipitate settled to the bottom of the sampling container. This indicated the oxidation of reduced iron and anaerobiosis in the lower portion of the well, the annulus, and the sand pack surrounding the casing. The observations indicate passive insitu bioremediation.

### CLEANUP LEVELS

Level A Cleanup Levels are specified in WAC 173 340. See Appendix 8.

### REMAINING CONTAMINATION

Contamination persists in two of the ESE monitoring wells. conclusion of the writer that the sand packed, transmissivity ESE, Inc., monitoring wells, ESE 1 and 2, are retaining, (acting like a sponge), petroleum product which supply nutrients and a carbon source for aerobic and anaerobic biota visually observed and reported herein. The peripheral wells show non detectable levels of analytes. It is theorized that environmental contamination is precluded by the adhesion of the product to the sand and the low ground water velocities it is With warm weather, natural bioremediation is subjected to. rapidly occurs in these wells. MTCA water cleanup levels have not yet been attained in samples from these wells. However, it is anticipated that bioremediation will continue and its progress should be analyzed for attainment of cleanup levels, quarterly,

There are no surface waters in the immediate vicinity of the site.

There are no known sensitive surface species in the immediate vicinity of the site. See Appendix 2.

#### SUB SURFACE CONDITIONS

The tanks were installed approximately three years ago and are reported to be bedded in pea gravel.

Soils consist of a 2 to 3 foot thick stratum of sandy silt followed by a deep stratum of cobbles, gravel, and sand extending more than 40 feet below the surface to bed rock.

Groundwater was encountered at 16.5 feet in February, 1991, by ESE, Inc., at 17.5 feet, by PLSA in April, 1992, at 12.5 feet, and variable in June, 1992. See Appendix 1 and Figure 5. The water table is expected to fluctuate seasonally with the irrigation season.

The existing ESE, Inc., monitoring wells were drilled to depths of 53-55 feet, fitted with 0.02 inch slotted and blank four inch PVC casing and the annulus back filled with fine grained, washed sand. They were meagerly developed for production by evacuating a minimum of four casing volumes of groundwater.

Six new, PLSA, resource wells were drilled on site. These wells were fitted with one sixteenth inch slotted and blank four inch PVC casing and the annulus back filled with gravel in accordance with WAC 173-160. The hydraulic gradient was determined from multiple measurements of static water levels in the 8 wells, described, using an electrical water surface detection tape. See Figure 5. The hydraulic gradient direction is depicted on Figure 2 and is nearly due east.

Utility trenches have been known to serve as conduits for petroleum contamination plumes, in otherwise impermeable soils. Although the soils at this site are highly permeable, utilities are shown on Figure 4.

Nearby drinking water well owners, who at one time, complained of petroleum contamination in their wells are shown in Appendix 1.

There are no known sensitive species affected by the groundwater plume. See Appendix 2.

### SAMPLING PLAN

Representative soil and water samples were collected from wells at the locations shown on Figure 2. Soil samples were collected from starting on April 1, 1993 and continued until cleanup is attained. Meanwhile, the owners will pursue air sparging at the site immediately.

The PLSA well in the south west corner of the property remains contaminated above MTCA cleanup levels. The PLSA well in the north west corner of the property is clean, as are all other peripheral wells. The hydraulic gradient is from west to east. The contaminant plume being monitored in the south west well appears to be migrating onto the owners' property from offsite. The south west well is sufficiently close to the south and west property lines of the owners' property to conclude that the westerly properties including a City street and gasoline stations further west are involved as potentially liable parties. Likewise, residential properties to the south are probably similarly involved and could be eligible to be named as potentially liable persons.

### SITE CLOSURE

After contamination has been removed, the resource protection wells will remain in place for monitoring and the premises will continue to be used as a convenience store or other commercial purpose.

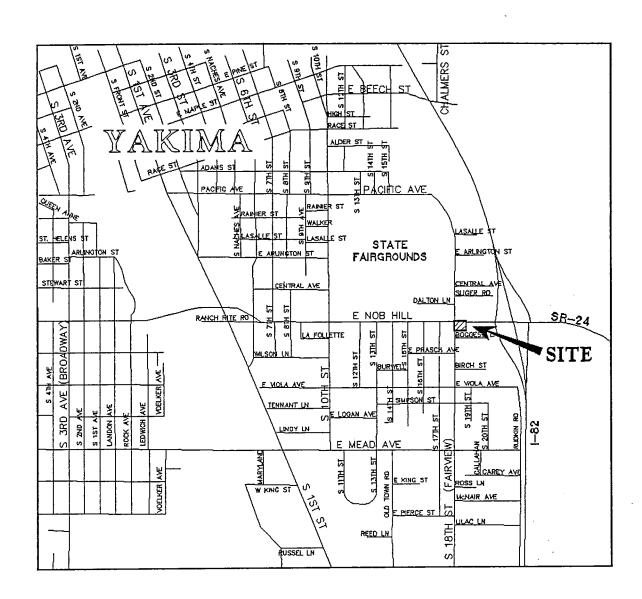
### NEARBY WELLS

Copies of well logs for documented wells located within one half mile of the site may be found in Appendix 6.

## SITE CHECK/SITE ASSESSMENT CHECKLIST

A completed Site Check/Site Assessment Checklist form may be found in Appendix 9.

Figure 1
Location Map





2000 0 2000 4000 Feet

SCALE: 1" = 2000'

WASHINGTON

## FIGURE 1

# PLSA

ENGINEERING-SURVEYING-PLANNING YAKIMA, WASHINGTON (509) 575-6990

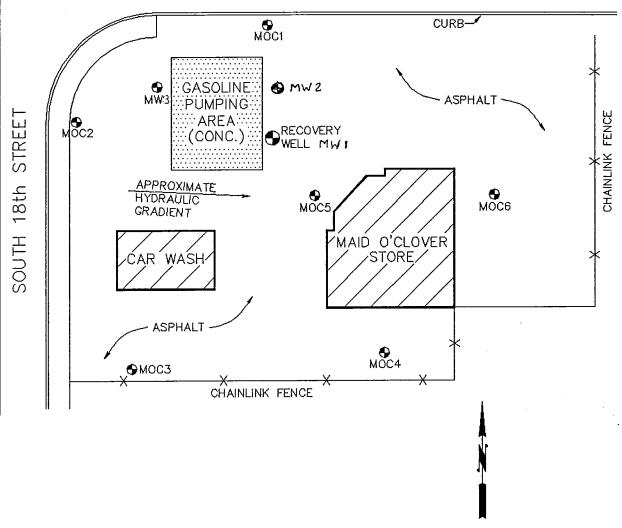
## LOCATION MAP

MAID O'CLOVER 1824 E. NOB HILL BLVD, YAKIMA, WA

DRAWN BY: AKV
DATE: JULY 1992
JOB NO. 91056

Figure 2
Site Map / With Hydraulic Gradient

# NOB HILL BLVD.



SCALE: 1" = 40'

## **LEGEND**

MOC1 - DENOTES MONITORING WELL IDENTIFICATION NUMBER

## FIGURE 2



ENGINEERING—SURVEYING—PLANNING YAKIMA, WASHINGTON (509) 575—6990

SITE MAP
WITH HYDRAULIC GRADIENT
MAID O'CLOVER
1802 E. NOB HILL BLVD, YAKIMA, WA

DRAWN BY: AKV

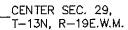
JOB NO. 91056

Figure 3 Soils

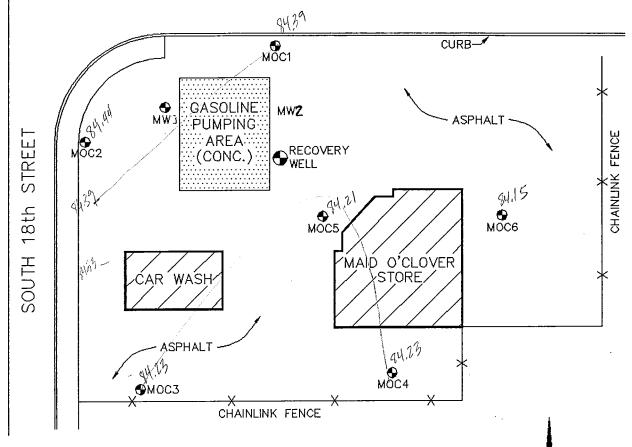
# Figure 4 Utilities

2.2. m170 N O O Maid o'Clover

# Figure 5 Static Water Levels



## NOB HILL BLVD.



## **LEGEND**

MOC1 - DENOTES MONITORING WELL IDENTIFICATION NUMBER

## STATIC WATER LEVEL (ft)

		DATE			
WELL	4-6-92	5-14-92	6-18-92	6-19-92	6-22-92
MOC1	82,18	84.39	85.85		
MOC2	82.25	84.44	86.10		86.09
мосз		84.23	85.79	85.78	
MOC4	82.10	84.23		85.71	85.77
MQC5	82.06	84.21		85.74	85.76
MOC6		84.15		85.75	85.68
MW7		84.37	85.84		
MW8			85.92		85.91
RW	82.18				85.87

SCALE: 1" = 40

FIGURE 5



ENGINEERING-SURVEYING-PLANNING YAKIMA, WASHINGTON (509) 575-6990

MONITORING WELL LOCATIONS
AND STATIC WATER LEVELS
MAID O'CLOVER

1802 E. NOB HILL BLVD, YAKIMA, WA

DRAWN BY: AKV

DATE: JULY 1992

JOB NO. 910 56

# APPENDIX 1 ESE Report, March 25, 1991

ESE Report is on file at Washington State Department of Ecology

106 So. 6th Avenue Yakima, WA 98902

# APPENDIX 2 Sensitive Species

No sensitive species were reported in the immediate vicinity by the Washington State Department of Wildlife, Sensitive Wildlife Information System.

# APPENDIX 3 Tank Basin Well Samples

## **APPENDIX 3**

## RESULTS OF SOIL SAMPLE ANALYSES OF SOIL TAKEN FROM ESE WELLS (Units in mg/kg)

SAMPLE NO.	DEPTH	BTEX EPA METHOD 8020					
		BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	8015 TPH	
MW-1 MW-1 MW-2 MW-2 MW-3 MW-3 MW-3	5 10 15 10 15 5 10	5555555	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	20 20 20 20 20 20 20 20 20 20	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	66666666	

mg/kg - milligrams per kilogram

TPH - Total Petroleum Hydrocarbons

ND - Not Detected

EPA - Environmental Protection Agency

# RESULTS OF WATER SAMPLE ANALYSES OF WATER TAKEN FROM ESE WELLS (Units in mg/l)

SAMPLE NO.		BTEX EPA I	METHOD 8020		EPA METHOD 8015
	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	TPH
MW-11 MW-21 MW-31	ND ND 3.2	ND ND 6.2	ND ND 0.28	ND ND 11	ND 0.034 45

mg/l - milligrams per liter

TPH - Total Petroleum Hydrocarbons

ND - Not Detected

EPA - Environmental Protection Agency

# APPENDIX 4 Peripheral Well Samples

**APPENDIX 4** 

# RESULTS OF SOIL SAMPLE ANALYSES OF SOIL TAKEN FROM PLSA WELLS (Units in mg/kg)

		WTPH-HCID	)	."
SAMPLE NO.	GASOLINE	DIESEL	HEAVY OILS	LEAD
MOC 1	<20	<50	<100	8.7
MOC 2	<20	<50	<100	3.4
MOC 3	<20	<50	<100	3.4
MOC 4	<20	<50	<100	4.7
MOC 5	<20	<50	<100	1.9
MOC 6	<20	<50	<100	3.2
MOC 7	<20	<50	<100	3.4
MOC 8	<20	<50	<100	4.1

mg/kg - milligrams per kilogram

< - less than

# APPENDIX 5

Oil/Water Separator, Up flow Treatment Unit Samples

# **APPENDIX 5**

# RESULTS OF WATER SAMPLE ANALYSES OF WATER TAKEN FROM OIL/WATER SEPARATOR (Units in mg/l)

SAMPLE NO.		BTEX EPA N	METHOD 8020		EPA METHOD 418.1	
	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	TPH	LEAD
P-1 P-2 P-3	1.7 0.081 8.2	5.9 1.8 0.19	0.57 0.15 1.2	4.8 1.2 1.8	5.5 13 81	0.014 NT 0.014

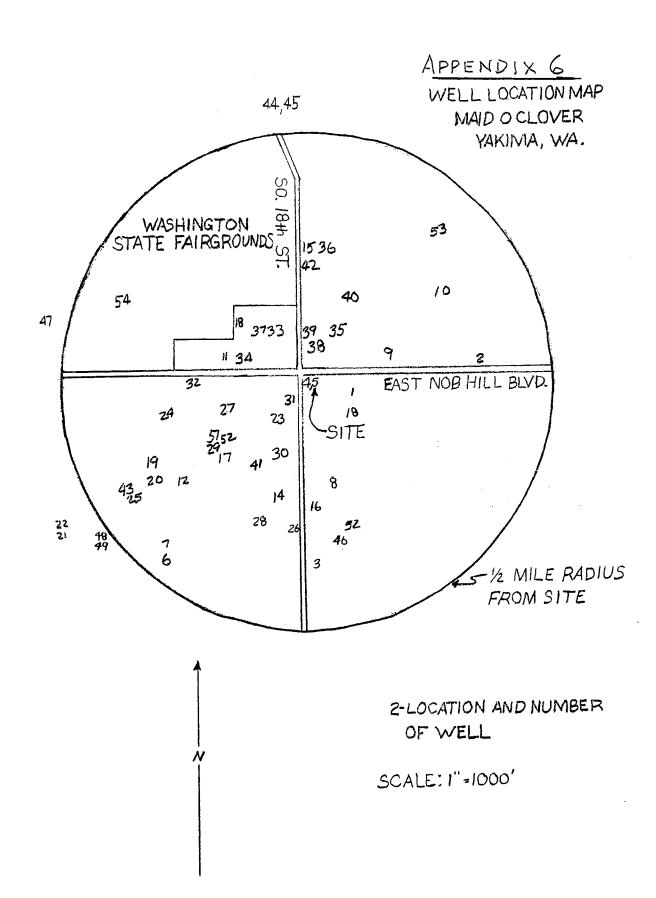
mg/l - milligrams per liter

TPH - Total Petroleum Hydrocarbons

NT - Not Tested

EPA - Environmental Protection Agency

# APPENDIX 6 Well Logs in the Vicinity



## WATER WELL REPORT

STATE OF WASHINGTON

Application No. 4:

**€** 3

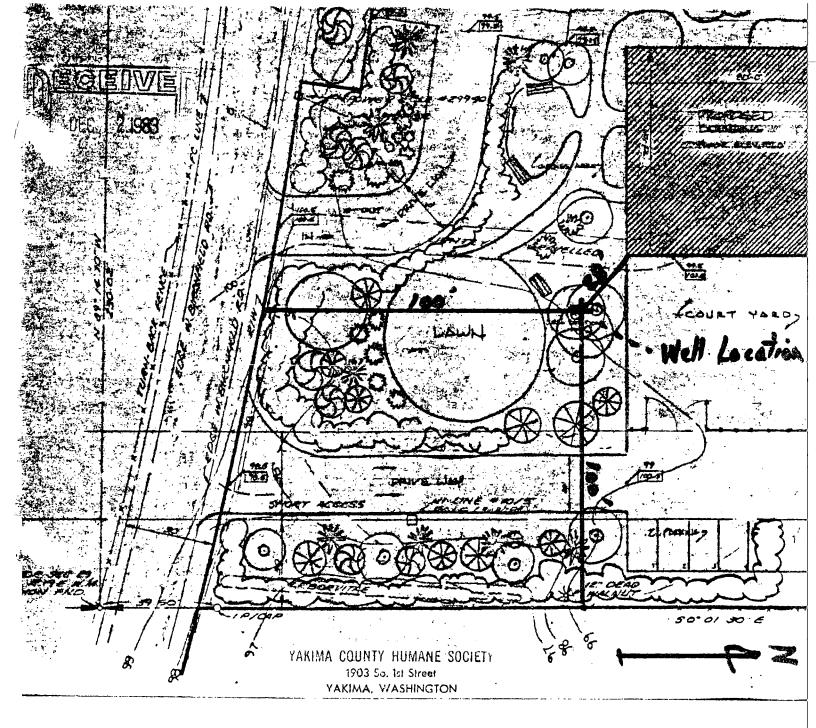
Permit No. (1) OWNER: Name (2) LOCATION OF WELL: County.... ig and distance from section or subdivision corner (10) WELL LOG: (3) PROPOSED USE: Domestic / Industrial [] Municipal [] Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. Irrigation | Test Well | Other Owner's number of well (if more than one).... (4) TYPE OF WORK: MATERIAL FROM New well Ŕ Method: Dug Bored [] Cable  $\square$ Driven [ Deepened Reconditioned [ Rotary [ Jetted | (5) DIMENSIONS: Drilled ft. Depth of completed well (6) CONSTRUCTION DETAILS: Casing installed: 6" Diam. from C ft. to 4/ ft. Threaded 🛮 Perforations: Yes No Z Type of perforator used..... SIZE of perforations ..... in. by ..... in. ..... perforations from ...... ft. to ..... ft. ..... perforations from ...... ft. to ..... perforations from ..... ft. to ..... ft. Screens: Yes No 🗗 Manufacturer's Name..... ..... Model No..... Туре.... Diam. ..... Slot size ..... from .... ft. to .... ft. Diam, ..... Slot size ..... from .... ft. to ..... ft. Gravel packed: Yes No Size of gravel: ..... Gravel placed from ...... ft. to ..... ft. Surface seal: Yes No O To what depth? ..... Material used in seal..... Did any strata contain unusable water? Type of water?..... Depth of strata...... Method of sealing strata off..... (7) PUMP: Manufacturer's Name..... (8) WATER LEVELS: Land-surface elevation above mean sea level... ....ft, below top of well Date. ... Static level .. .....lbs. per square inch Date... Artesian pressure ..... Artesian water is controlled by..... (Cap, valve, etc.) Drawdown is amount water level is lowered below static level (9) WELL TESTS: Was a pump test made? Yes ☐ No ☐ If yes, by whom?...... WELL DRILLER'S STATEMENT: Yield: gal./min. with ft. drawdown after hrs. ,, ,, This well was drilled under my jurisdiction and 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) Water Level | Time Water Level Address. [Signed]. Bailer test. Z ....gal./min. with.... ft drawdown after Artesian flow..... .....g.p.m. Date..... License No.2.X Temperature of water...... Was a chemical analysis made Y

(USE ADDITIONAL SHEETS IF NECESSARY)

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

# WATER WELL REPORT

STATE OF V	VASHINGTON Permit No	
(1) OWNER: NameYAKIMA HUMANE SOCIETY	Address 1903 So. 1st. Street	
•		W.M
	(10) WELL LOG:	
	Formation: Describe by color, character, size of material and structure show thickness of aquifers and the kind and nature of the material in stratum penetrated, with at least one entry for each change of formations.	
4) TYPE OF WORK: Owner's number of well 01 (if more than one)	Transport of the second of the	
New well 🛴 Method: Dug 🗌 Bored 🗆	CDUI ADI DDG MOD GOTT	.0
Deepened Cable Driven	5 5 4 5 mm as	20
Reconditioned Rotary Rotary Retted	PARTLY CEMENTED GRVL/BLDRS	
Dimensions: Diameter of well finches		30
Drilled 160 ft. Depth of completed well 150 ft.	SET 10" CASING WITH SHOE PRESSURE P/	A.C.
6) CONSTRUCTION DETAILS:	UNCONSOLIDATED GRVL&BLDRS	
Casing installed: 10 "Diam. from 0 ft. to 20 ft.	EOUT MADED	20
	DIOAM DENMONTME CLUBBY 4000	30-
Threaded ☐ ""Diam. from ft. to ft. to ft. to 1.40 ft. Welded	CEMENT GRVL BLDRS TOP WATER	7 <b>∪</b> -
4544	SHUT OFF 90 1/	
Perforations: Yes   No   K	170-112	<del>- ()</del> -
Type of perforator used	GRVI CLAY LENSES WATER BEARING1/5	<del>- 2-</del>
SIZE of perforations in. by in.	TTOUR DEN MID GROVE OF THE 47	, خ
perforations from	CAND & MATER TO CO CON CANTAGE TO	ب <u>ئي</u>
	SAND & WATER TO 80 GPM CAVING TO 1	5(
Screens: Yes   No XX		_
Manufacturer's Name		
Type		
Diam. Slot size from ft. to ft. Diam.' Slot size from ft. to ft. ft. ft.		
Gravel placed from ft. to ft.		
Surface seal: Yes No MX To what depth?		
Method of sealing strata of Cased & Sealed		
7) PIIMP		
Type:	7-10-7	
· · · · · · · · · · · · · · · · · · ·	PEPART	
B) WATER LEVELS: Land-surface elevation 1000 above mean sea level		
atic level $5$ ft. below top of well Date $11/2/83$		
tesian pressurelbs. per square inch Date		
Artesian water is controlled by(Cap, valve, etc.)		
Drawdown is amount water level is lowered below static level	Work started 10/28/92	
s a pump test made? Yes \( No KIX If yes, by whom?	Work started 10/28/83, 19 Completed 11/2/83, 19.	
eld: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
n n	This well was drilled under my jurisdiction and this repor	t ic
0 n	true to the best of my knowledge and belief.	- 15
covery data (time taken as zero when pump turned off) (water level measured from well top to water level)		
ime Water Level   Time Water Level   Time Water Level	NAME RIEBE WELL DRILLING	
The state of the s	(Person, firm, or corporation) (Type or print)	
	Address 1503 E. Nob Hill Yakima, Wa.	
	A A	••••
Pate of test	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	_
r test 60/80 gal./min. with ft. drawdown after hrs.	[Signed] A. Riek (Jerry Ta; (Well Briller)	уl
tesian flowg.p.m. Date	•	
mperature of water Was a chemical analysis made? Yes 🗍 No 🗍	License No. 0422 Date 11/2/83, 19	
i i	•	



## LEGAL DESCRIPTION:

That portion of Lots 13 and 24, GOODWIN'S FIVE ACRE TRACTS, according to the plat thereof recorded in Volume "A" of Plats, Page 18, records of Yakima County, Washington, described as follows:

Beginning at the Southeast corner of the Northeast quarter of Section 29, Township 13 North, Range 19 East, W.M.; thonce North 89°14'10" West 230.02 feet along the South line thereof; thence North 0°01'30" West 328.23 feet; thence North 50°34'50" East 95.96 feet; thence North 0°01'30" West 266.20 feet to the North line of said Lot 13; thence South 89°03'25 East 155.86 feet along said North line to the Northeast corner thereof; thence South 0°01'30" East 656.14 feet along the East line of said Lots 13 and 24 to the Point of Beginning.

EXCEPT right of way for State Highway No. 3A as acquired by condemnation under Yakima County Superior Court No. 45885.

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

(5) DIMENSIONS:

Threaded [ Welded 🙀

\ OWNER: Name Tommy A. McCabe

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic 
☐ Industrial □

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

Reconditioned [

Manufacturer's Name....

Deepened

(6) CONSTRUCTION DETAILS:

Perforations: Yes | No 🗷

Screens: Yes □ No ₩

LOCATION OF WELL: County YAKIMA

X

Casing installed: 6 Diam. from 54 ft. to 79 ft.

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

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

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

Gravel packed: Yes Noxx Size of gravel: .....

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

Static level 10 ft. below top of well Date 3/04/86 Artesian pressure ......lbs. per square inch Date.....

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

Artesian water is controlled by .....

Was a pump test made? Yes [] No [X If yes, by whom?......

ESTIMATED AIRLIFT"

(9) WELL TESTS:

,,

Yield: 100+ gal./min. with

Water Level | Time

Surface seal: Yes | Noxx To what depth? ..... ft. Material used in seal installed previously Did any strata contain unusable water? Yes [ No [ Type of water?..... Depth of strata.... Method of sealing strata off.....

Irrigation [ Test Well [

..... ft. to ..... ft.

..... ft. to ..... ft.

Method: Dug

Cable [

Rotary 🛭

# WATER WELL REPORT

Lot 21,

Municipal []

Bored |

Driven [

Jetted [

	,	2
Application	No.	***************************************

STATE OF WASHINGTON

VASHINGTON	Permit	No	······
Address 215 S. 30th Ave.,	Yakima,	WA 989	02
NE ½ SE ½ Gibler Garden Tracts			
(10) WELL LOG:			
Formation: Describe by color, characte show thickness of aquifers and the kin stratum penetrated, with at least one	r, size of mo d and natur entry for ed	iterial and str e of the mate ich change of	ructure, and rial in each formation.
MATERIAL		FROM	
Clay, yellow w/gravel		58	61
Cemented gravel w/bould	ers		<del>!</del>
w/water		61	76
Clay seam, yelbw		76	77
Gravel, coarse w/water	_ <del></del>	77	1 02
			83
			-
			<del> </del> -
NO PVC Liner installed			
6" Drive shoe installed			
	<del></del>		
	·		
	· · · · · · · · · · · · · · · · · · ·		
	·		
			<del>-</del>
	<del></del>		
DEAGIN	ne D		
TIBOEIT			<u> </u>
	<del>~</del>     ;	1	
	\$ <del>0</del>		<del>                                     </del>
1010		1	<del>                                     </del>
CENTRAL HEGION			
			]
Work started 3/03 19 86	Completed	3/04	<sub>19</sub> 86
WELL DRILLER'S STATEMI			
This well was drilled under my true to the best of my knowledge	jurisdiction	on and this	report is
NAME PONDEROSA DRILLING (Person, firm, or corpo	& DEVE	OPMENT (Type or p	
Address E. 6010 Broadway,		-	•
1			***************************************
[Signed] // fr //m	h	•	
W. Joseph Close Jr. (We		′04	., 19.86
•			,

(Cap, valve, etc.)

Drawdown is amount water level is lowered below static level

ft. drawdown after

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

# WATER WELL REPORT

Third	d Copy—Driller's Copy STATE OF	WASHINGTON Water Right Permit No.		
<del>′1)</del>	OWNER: Name Maid O Clover	Address 1802 E. Nob Hill Y	akima,	
(2)	LOCATION OF WELL: county Yakima Parcel #	191329-42433 NW SE N Sec 29 T.	17	19
٠,	STREET ADDDRESS OF WELL (or nearest address) 18	02 E. Nob Hill	N., R_	<u>/</u> .W.М.
(3)	PROPOSED USE: ☐ Domestic ☐ Industrial ☐ ☐ Municipal ☐ ☐ DeWater ☐ DeWater ☐ Other ☒	(10) WELL LOG or ABANDONMENT PROCEDU		
(4)		Formation: Describe by color, character, size of material ar thickness of aquifers and the kind and nature of the material in e with at least one entry for each change of information.	id structure, ach stratum	, and show penetrated.
(~)	(if more than one)	MATERIAL	FROM	то
	Abandoned	Asphalt	0	4"
	Reconditioned 🗆 Rotary 🕱 Jetted 🗆	Clay Loam	4"	
(5)	Drilled 60 feet. Depth of completed well ft.	Conglomerate gravel & sand " w/brn.	5	28
(6)	CONSTRUCTION DETAILS:	xxxxx clay	28	36
(0)	Casing installed: 6 Diam. from 0 ft. to 60 ft.	Conglomerate gravel & sand	36	_52_ v
	Weided Diam. from Uff. to OU ft.			
	Liner installed	clay	52	56
	Perforations: Yes No X	Conglomerate gravel & sand	56	<u>60</u> w
	Type of perforator used			<del></del>
	SIZE of perforations in. by in.			
	perforations fromft. toft.			
	perforations fromft. toft.			-
	perforations fromft. toft.			·
	Screens: Yes No X	TO BUNG	-	<del></del>
	Manufacturer's Name	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	$\mathbb{H}$	<del></del>
	DiamSlot sizefromft. toft.		$\mathbb{H}$	
	Diamft, toft.	MAY 2 1990	اك	
	Gravel packed: Yes No Size of gravel	<u> </u>		
	Gravel placed fromft. toft.	DEPARTMENT OF ECOLOGY	1	
	Surface seal: Yes X No To what depth? 20 ft.  Material used in seal Bentonite	CENTRAL REGION OFFICE		
	Did any strata contain unusable water? Yes No X			
	Type of water?Depth of strata			
	Method of sealing strata off			
7)	PUMP: Manufacturer's Name			
	Туре:	ners (7)		
8)	WATER LEVELS: Land-surface elevation above mean sea level ft	The same of the sa		
	Static level 20 ft. below top of well Date 4-2-90			<del></del>
	Artesian pressurelbs. per square inch Date			
	Artesian water is controlled by(Cap, valve, etc.))	Work started 4-2. 19 Completed 4		
9)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 4-2 , 19. Completed 4	L <u>-6</u>	_, 19 <u>90</u>
	Was a pump test made? Yes No No If yes, by whom? Bach Yield: gal./min. with ft. drawdown after hrs.	WELL CONSTRUCTOR CERTIFICATION:		
	rield: gal./min. with ft. drawdown after hrs.	I constructed and/or accept responsibility for const	ruction of	this well,
_	" " " " " "	and its compliance with all Washington well cons Materials used and the information reported above	are true to	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 Water Level Time Water Level Time Water Level	NAME Bach Well Drilling Co. (PERSON, FIRM, OR CORPORATION)	(TYPE OR	PRINT)
		Address 2111 Birchfield Rd. Ya	kimo	Wa.989
	Date of test		وكاللسدد	<del>4003</del> 08
	Bailer test gal./min. with ft. drawdown after hrs.	(Signed) License N	o. 143	6
	Airtestgal./min. withft. drawdown afterhrs.	Contractor's (WELL DRILLER)	_	<u></u>
	Artesian flow g.p.m. Date ft. for hrs.	No. BACHWDC137NU Date 4-	6	19. 90
	Femperature of water 58 Was a chemical analysis made? Yes No. Y			,

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

OWNER: Name\_\_

(3) PROPOSED USE:

Abandoned 🏋

Casing installed:

Perforations: Yes

Type of perforator used \_\_ SIZE of perforations \_

Screens: Yes

Gravel packed: Yes

Surface seal: Yes Material used in seal \_\_\_\_

Method of sealing strata off \_\_\_\_ (7) PUMP: Manufacturer's Name

Gravel placed from\_

(8) WATER LEVELS: Static level \_\_\_

Yield:

Manufacturer's Name

Liner installed Threaded

Welded

(2) LOCATION OF WELL: County\_\_\_

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

(5) DIMENSIONS: Diameter of well\_

CONSTRUCTION DETAILS:

New well

Deepened

Reconditioned

No 🗀

\_\_ perforations from \_\_\_

\_\_\_\_ perforations from perforations from \_

\_\_ Slot size

\_Slot size\_

Did any strata contain unusable water? Yes \_\_\_\_

(2a) STREET ADDDRESS OF WELL (or nearest address).

Domestic

Irrigation □ DeWater

\_\_feet. Depth of completed well\_

... Diam. from\_\_

\* Diam. from

11

#### WATER WELL REPORT

1802 E.

Municipal [

Bored

Jetted [

inches.

Driven  $\Box$ 

Other

\_ft. to\_

\_ . Model No

\_ft. to\_\_

(Cap, valve, etc.))

Time

\_\_\_ ft. for \_\_\_

Water Level

\_\_ ft. drawdown after \_

..

\_\_\_ ft. drawdown after

chemical analysis made? Yes No ...

Cable

Rotary []

Address

202 E. 5th Ave. Yakima, Wa

Water Right Permit No. ...

033726

STATE OF WASHINGTON Third Copy-Driller's Copy

Yakima

Industrial 🔲

Test Well

Method: Dua

\_\_\_ in. by \_\_\_

\_from\_\_\_\_\_

No Size of gravel \_\_\_

No. To what depth?.

Land-surface elevation

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

Recovery data (time taken as zero when pump turned off) (water level measured

Water Level

\_\_\_ g.p.m. Date \_

Artesian water is controlled by \_\_\_\_\_

Was a pump test made? Yes No lf yes, by whom? \_

\_\_\_\_ gal./min. with .\_\_\_

.\_\_\_ ft. below top of well Date \_\_\_Ibs. per square inch Date\_

\_\_\_\_\_ft. to \_\_

Maid O Clover

Parcel # 191329-42433 Nob Hill (10)WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information. MATERIAL FROM PRESSURE GROUTED WELL AND FILLED WELL WITH BENTONITE <del>2 1990</del> DEPARTMENT OF ECOLOGY CENTRAL REGION OFFICE Work started 19. Completed WELL CONSTRUCTOR CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief. NAME Bach Well Drilling Co. (PERSON, FIRM, OR CORPORATION) Address 2111 Birchfield Rd. Yakima, Wa. 9890 (Signed)\_ License No.\_ (WELL DRILLER) Contractor's Registration HWDC 1 37NU Date (USE ADDITIONAL SHEETS IF NECESSARY)

Baile	r test		gal./min. with	f
Airte	st	gs	al./min. with stem s	et at
Artes	ian flow .			g.p.m.
Temp	erature o	f water_	Was a chemi	ical anal
CY 050-1-20	(10/87)	-1329-	3	

Date of test\_

from well top to water level) Water Level

WATER WELL REPORT Application No. . STATE OF WASHINGTON Permit No. ..

(1) OWNER: Name. LELEN FRANDLE	1Address 7 8, 10 4 AUE 9	YKIMA,	11)4
(2) LOCATION OF WELL: County VAKIMA	- BW4 SW4 Sec. 29		
1 · · · - ^	BLOCK 2 FXINVIEW AN		
		0 10 1	
(3) PROPOSED USE: Domestic of Industrial [ Municipal [	(10) WELL LOG:		<del></del>
Irrigation   Test Well   Other	Formation: Describe by color, character, size of r show thickness of aquifers and the kind and natu stratum penetrated, with at least one entry for	ure of the mater	ial in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	FROM	TO TO
New well Method: Dug Bored			1011
Deepened	- rong formerate	191	221
	levna kom erale a	221	28.
(5) DIMENSIONS: Diameter of well inches.	Sand + Grave	28	3/
Drilledft. Depth of completed well36ft.		~	
(6) CONSTRUCTION DETAILS:			
Casing installed: 2 " Diam. from 4 / ft. to 36 ft.			· ·
Threaded Dlam. from ft. to ft.			
Welded ft. to ft.			-
Perforations: Yes   No X			
Type of perforator used	SECELIED	<del></del>	
SIZE of perforations in. by in.	I RECEIVED		
perforations from ft. to ft.			
perforations from ft. to ft	ADD 18 1977		
	Al IX ±0		
Screens: Yes No M	DEPARTMENT OF ECOLOGY		
Manufacturer's Name	CENTRAL REGIONAL OFFICE		
Diam Slot size from ft. to ft.			
Diam Slot size from ft. to ft.			
Gravel packed: Yes No M Size of gravel:	<del></del>	<del></del>	
Gravel placed from ft. to ft.			
Surface seed			
Surface seal: Yes No To what depth?			
Did any strata contain unusable water? Yes No			
Type of water? Depth of strata			
Method of sealing strata off			
(7) PUMP: Manufacturer's Name			
Type: H.P		<del></del>	
(8) WATER LEVELS: Land-surface elevation			
above mean sea levelft. Static levelft. below top of well Date		<del></del>	
Artesian pressure			·············
Artesian water is controlled by(Cap, valve, etc.)		<del></del>	
<del></del>			
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 4-6 19.77 Complete	4-9	10 77
Was a pump test made? Yes No If yes, by whom?			, 19//
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:		
D D D	This well was drilled under my jurisdic true to the best of my knowledge and bel	tion and this	report is
Recovery data (time taken as zero when numn turned off) (water level	was to the best of my knowledge and ber		
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 OAN AVELDING T	REPAI	ル rint)
	Address 1965 So 3rd AVE.	-	
	Address / YOS SO JAG A FE,		
Jate of test	La KT and	earl	
Bailer testgal/min. withft. drawdown afterhrs.	[Signed] (Well Driller	')	••••••
Artesian flowg.p.m. Date	7508		フフ
Temperature of water Was a chemical analysis made? Yes 🗌 No 🗆	License No Date	¥ - 7	, 19.//

## WATER WELL REPORT STATE OF WASHINGTON

Application No.

Permit No. ....

) OWNER: Name Lyle Conrad	Address P.O. Box 68, Ronald, WA 98	3940	
(2) LOCATION OF WELL: County. YAKIMA	NE ¼ SW ¼ Sec 29 <sub>T</sub> 1	3 1	9E
•	ock 2, Fairview Addtion #1 (parcel	•	
		191349-	33439
(3) PROPOSED USE: Domestic XX Industrial [] Municipal []	(10) WELL LOG:		
Irrigation Test Well Other (4) TYPE OF WORK: Owner's number of well	Formation: Describe by color, character, size of maters show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each	the materia	al in each
(if more than one)	MATERIAL	FROM	TO
New well	Sand, gravel, cobble	0	18
Reconditioned			
(5) DIMENSIONS: Drilled 60 Depth of completed well 46 ft.	Sand, gravel, cobble w/water	18	53
Drilled 60ft. Depth of completed well 46ft.	Sand, gravel, cobble w/clay		
(6) CONSTRUCTION DETAILS:	w/water	53!	60
Casing installed: 6 "Diam. from +1 ft. to 46 ft.			
Threaded ☐ "Diam. from ft. to			
Perforations: Yes   Noxx		+	
Type of perforator used		-	
SIZE of perforations in. by in.		<del>i</del>	
perforations from		<del>                                     </del>	
perforations from		1	
periorations from		+	
Screens: Yes   Noxex			
Manufacturer's Name	NO PVC Liner Installed		
Type	100 4 10 100 100 100 100 100 100 100 100	1	
Diam.         Slot size         from         ft. to         ft.           Diam.         Slot size         from         ft. to         ft.	6" Drive shoe installed		
Gravel packed: Yes No M Size of gravel:			
Gravel placed from ft. to ft.			
Surface seal: Yes No   To what depth? 19 ft.			
Material used in seal bentonite			
Did any strata contain unusable water? Yes 🗌 Norta	·		
Type of water? Depth of strata			
Method of sealing strata off	DIE OFFICE		
(7) PUMP: Manufacturer's Name	Con Control Control		
Type:			
(8) WATER LEVELS. Land-surface elevation	- 111 20		
above mean sea levelft.			
Static level 18 ft. below top of well Date 5/14/85	110		
Artesian pressure	COEPARTMENT OF SUCCESSION	<b>_</b>	
(Cap, valve, etc.)	Commence of the Commence of th		
(9) WELL TESTS: Drawdown is amount water level is	E /14 OF	<u> </u>	05
lowered below static level  Was a pump test made? Yes \( \sigma \) No \( \mathbf{X} \) If yes, by whom?	Work started	5/14	, 19.85
Yield: 20 gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:		
" ESTIMATED AIRLIFT" "	This well was drilled under my jurisdiction	and this	vonort is
11 11 11 11	true to the best of my knowledge and belief.	and mis i	eport 18
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 PONDEROSA DRILLING & DEVELO	PMENT I	NC.
Time water Level Time water Level Time water Level	1	(Type or pr	int)
	Address E. 6010 Broadway, Spokane,	WA 992	12
	1 10-21 1		***************************************
Date of test	(Simola) VMMMMASSI I & MALILI	آيا	
Bailer test gal./min. with ft. drawdown after hrs.	[Signed] Lynnwood E. Hendrick (Well Driller)	<u>z</u>	
Artesian flowg.p.m. Date	1351 5/	14/	85
Temperature of water Was a chemical analysis made? Yes ☐ No ☐	License No. Date Date	/ 	., 19

## WATER WELL REPORT

Application	No.	

STATE OF V	WASHINGTON Permit No	
(1) OWNER: Name Wilson Octaves T.	rustadress 1809 E Vicila	lo bina
LOCATION OF WELL: County YAXIMA	_ 11/4 SE, Sec 29 T.1	3N B / 9WM
	When Lot 37 Goodwin's Five Acr	es Trade
(3) PROPOSED USE: Domestic Industrial Indust	(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 t stratum penetrated, with at least one entry for each of	he material in each
(4) TYPE OF WORK: Owner's number of well (if more han one)	MATERIAL	FROM TO
New well M Method: Dug	TOP SOIL	0 5
Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☑ Jetted ☐	GRAVEL SANDA BOULDERS	5 71
(5) DIMENSIONS: Diameter of well 6 inches		
Drilled	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	54/2+/TEP WATER 35-33	
(6) CONSTRUCTION DETAILS:	UATER 50-70	
Casing installed: 6 " Diam, from 0 ft. to 66 ft.		
Threaded		
Perforations: Yes   No the		
Type of perforator used		
perforations from ft. to ft.		
perforations from ft. to ft.		
Screens: Yes No D		
Manufacturer's Name		
Diam		•
Diam Slot size from ft. to ft.		
Gravel packed: Yes No Z Size of gravel:		
Gravel placed from ft. to ft.		
Surface seal: Yes No   To what depth? 18 ft.		
Material used in seal 15. 2000 To what depth?		
Did any strata contain unusable water? Yes 🗌 No 🗗		
Type of water? Depth of strata		
		· · · · · · · · · · · · · · · · · · ·
(7) PUMP: Manufacturer's Name	V 744	
Туре: Н.Р	المراجعة الم	
(8) WATER LEVELS: Land-surface elevation above mean sea levelft.		
Static levelft, below top of well Date		
Artesian pressure	·	
(Cap, valve, etc.)	· •	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	17-14 39 E	
Was a pump test made? Yes \( \) No \( \) If yes, by whom?	Work started 5, 19.27 Completed 5	19.2. [
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
n n n n	This well was drilled under my jurisdiction a	and 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 (Person, firm, or corporation) (1	6,
Time Water Level Time Water Level Time Water Level		ype or print)
	Address 2202 Pium Rd YMTE	ma lux.
ate of test	[Signed] and Laylor	-
Beiler test. J	(Well Driller)	
Temperature of water	License No. 0 995 Date	5 , 1979

June 1

TISE ADDITIONAL SUPPRS IF NECESCARS

## WATER WELL REPORT

Application No	. 4
Permit No	•

STATE OF W	ASHINGTON Permit No	
(1) OWNER: Name GEORGE VELIKANGE	Address 303 F. D. Street; YA	Kima, W.P
?) LOCATION OF WELL: County YAKIMA	_ 544 14 NE sec 29 T 13 N	., R19 w G
aring and distance from section or subdivision corner E 62 1 2	WISH It. TRACK 22 Goodwin's; 5 AC	RETRACK
(3) PROPOSED USE: Domestic of Industrial   Municipal	(10) WELL LOG: AS RECORDE VOISINE	14 0/2 PIQ
Irrigation ☐ Test Well ☐ Other ☐	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	raterial in each
(4) TYPE OF WORK: Owner's number of well (if more than one)		OM TO
New well Method: Dug Bored	RIVERDAKI & SAID	7 -4
Deepened ☐ Cable ☑ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐	700 5011	6
(E) DIMENSIONS.	SANO Y SMALL ROCK G	<del></del>
(5) DIMENSIONS: Diameter of well	KATTLE SANGTROCK 1.	
	KOUIDERY LITTLES AND 30	45
(6) CONSTRUCTION DETAILS:		
Casing installed: 6 "Diam. from 6 ft. to 45 ft.		
Threaded" Diam. from		
TD (C. 1)		
Perforations: Yes No No Type of perforator used		
SIZE of perforations in. by in.		
perforations from		
perforations from ft. to ft		
Samana		
Screens: Yes   No   Manufacturer's Name		
Type Model No Model No		
Diam.         Slot size         from         ft. to         ft.           Diam.         Slot size         from         ft. to         ft.		
Gravel placed from ft. to ft.		
Surface seal: Yes of No D To what depth? / 8 ft.  Material used in seal BENTONITE		
Did any strata contain unusable water? Yes No	RECEIV	<del>[- )</del>
Type of water?	IN LUCIT	
(7) DIIMD.	rrn 140	79
(7) PUMP: Manufacturer's Name		73
	DEPAPTMENT OF F	COLOGY
above mean sea level	1	OFFICE
Static levelft. below top of well Date		<del></del>
Artesian water is controlled by(Cap, valve, etc.)		
lowered below static level	Work started OCT 4, 19.78. Completed OCT	1 10, 128
Was a pump test made? Yes ☐ No ☐ If yes, by whom?	WELL DRILLER'S STATEMENT:	
n n n	This well was drilled under my jurisdiction and	this report is
n n n n	true to the best of my knowledge and belief.	
covery data (time taken as zero when pump turned off) (water level neasured from well top to water level)  ? Water Level   Time Water Level   Time Water Level	NAME POULIN DEILUNG C	or print)
	Address Rt. 3, Box 3356, 5	SELAH,W
;	W/N/	
est	[Signed] (Well Driller)	
g.p.m. Date	924 10+	11 19 78
water	License No	

#### WATER WELL REPORT

STATE OF V	Permit No
(1) OWNER: Name Walter & Lucile Kane	1901 Simpson Yakima Address
(2) LOCATION OF WELL: County Yakima	
ring and distance from section or subdivision corner 3층 of Lot	11 Giblers Garden Tracts
	(10) WELL LOG:
PROPOSED USE: Domestic K Industrial Municipal Irrigation 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: Cwner's number of well (if more than one)	MATERIAL FROM ! TO
New well X Method: Dug Bored C	Top Soil 0 3
Deepened ☐ Cable ☐ Driven 🗗  Reconditioned ☐ Rotary ☐ Jetted ☐	Loose Dirt & Rock 3 10
(*) DYMENGIONG. 2	Conglomerate 10 -
(5) DIMENSIONS: Diameter of well 2 inches.  Drilled Depth of completed well ft.	<u>i</u>
Difficult. Depth of completed well	
(6) CONSTRUCTION DETAILS:	
Casing installed: Diam, from ft. to ft.	
Threaded Threaded ft. to ft.	
Welded 🖰	
Perforations: Yes No Ty	
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 No	
Manufacturer's Name	
Type Model No	
Diam	
Crowd realizate Y	
Gravel packed: Yes No Size of gravel:	VOT 20 1974
~ ^ ^	001001017
Surface seal: Yes X No D To what depth? ft.	DEPARTMENT OF FOOLOGY
Material used in seal	SPO CALLE DEGLO AND DEFICE
Type of water? Depth of strata	
Method of sealing strata off	
(7) PUMP: Manufacturer's Name	
Type: H.P	I - RICEIVE - I
(8) WATER LEVELS: Land-surface elevation 1020 above mean sea level	
Static levelft. below top of well Date	
Artesian pressurelbs. per square inch Date	OF FUNDAY
Artesian water is controlled by(Cap, valve, etc.)	DEPARTMENT OF ECOLOGIC
(9) WELL TESTS: Drawdown is amount water level is	CENTRAL REGIONAL OFFICE
lowered below static level	Work started 9/27 , 19.74 Completed 9/27 , 1974
Was a pump test made? Yes \( \) No \( \) If yes, by whom?	WELL DRILLER'S STATEMENT:
n n n	This well was drilled under my jurisdiction and this report is
0 0 0	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)	Townson Mall Desillan & Desiries
Time Water Level   Time Water Level   Time Water Level	NAME Jensens Well Drilling & Driving (Person, firm, or corporation) (Type or print)
	Address 1603 South 10th Ave Yakima 98902
ate of test	1 - 2 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
ate of testgal./min. withft. drawdown afterhrs.	[Signed] (Well Driller)
Artesian flowg.p.m. Date	1
Temperature of water Was a chemical analysis made? Yes   No	License No. 0218 Date 10 /24 , 19 74

G T N- 1070 OC (Dog 1 71)

#### WATER WELL REPORT

Application	Νo.

17 12 1 1110	WIND ICENT OFFE	
STATE	OF WASHINGTON	

Third Copy — Driller's Copy STATE OF V	VASHINGTON Permit No
(1) OWNER: Name Robert J. Neuman	1618 Souyh 20th Ave Yakima
(2) LOCATION OF WELL: County Yakina	
ging and distance from section or subdivision corner $\mathbb{A}^{\frac{1}{2\sigma}}$ of Lot	19 Giblers Garden Tracts
, J) PROPOSED USE: Domestic 🛱 Industrial 🗆 Municipal 🗀	(10) WELL LOG:
Irrigation ☐ 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: Cowner's number of well (if more than one)	MATERIAL FROM TO
New well 🛅 Method: Dug 🗀 Bored 🖂 Deepened 🗇 Cable 🗍 Driven 🔄	Top Soil 0 2
Reconditioned Rotary Jetted	
(5) DIMENSIONS: Diameter of wellinches. Drilledft. Depth of completed wellft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 2 Diam. from ft. to26ft.	
Threaded [] " Diam. from ft. to ft.	
Welded X Diam. from ft. to ft.	
Perforations: Yes $\square$ No $\square_{X}$	
Type of perforator usedin, byin.	
perforations from ft. to ft.	
perforations fromft. toft	
Screens: Yes  No 🗖  Manufacturer's Name	
Type Model No	
Diam. Slot size from ft. to ft.	Deposit Of ECOLOGY
Diam. Slot size from ft. to ft. to ft.	M. A.E. ION, W.L. CITTLE
Gravel placed from ft. to ft.	
Surface seal: Yes No To what depth? ft.	
Material used in seal Cellie 110 110 110 110 110 110 110 110 110 11	
Type of water? Depth of strata	DIOFINE
Method of sealing strata off	
(7) PUMP: Manufacturer's Name	
Type: H.P	
(8) WATER LEVELS: Land-surface elevation above mean sea level	DEPARTMENT OF ECOLOGY
7½ above mean sea level	CENTRAL MEDIONAL DEFICE
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
Was a pump test made? Yes  No If yes, by whom?	
Yield: 10 gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
u u u u	This well was drilled under my jurisdiction and 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)  Time Water Level   Time Water Level   Time Water Level	NAME Jensens Well Drilling & Driving (Person, firm, or corporation) (Type or print)
	Address 1603 South 10th Ave. Yakima 9890
	Address IDU.) DUMUM IVUM AVE. IAAIMA 9090
ate of test	[Signed Lours My tenser
ouner testgal/min. withft. drawdown afterhrs.	(Well Driller)
Artesian flow	License No. 0218 Date 74
The Control of the Co	

### WATER WELL REPORT

Application	No.)
	1/2
Permit No	من <i>ي و</i>

SIMIL OF V	Perint No ;
(1) OWNER: Name Out B Stiles	Address 15/5 do 14 sh Sheel Gakina
(2) LOCATION OF WELL: County Jakimel	- 14 Sec 29 T 3 N, R/9 EWM
ing and distance from section or subdivision corner L. L. (	Black H Zarnin ADD NOL 55 Lot 6
(a) PROPOSED USE: Domestic & Industrial   Municipal	(10) WELL LOG:
Irrigation 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 X Method: Dug	Top Jail, 02
Reconditioned Rotary Jetted	Conglomerate 2 -
(5) DIMENSIONS: Diameter of well inches.	
Dimensions:  Diameter of well inches.  Depth of completed well.  1. Depth of completed well.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 2 " Diam. from tt. to 31 ft.	
Threaded	
Perforations: Yes 🗆 No 🙇	
Type of perforator used in. by in.	
perforations from ft. to ft.	
perforations from ft. to ft.	
perforations from ft. to ft.	
Screens: Yes 🗆 No 🕱	
Manufacturer's Name	
Type Model No	PECE VED
Diam, Slot size from ft. to ft.	17202.10
Gravel packed: Yes No No Size of gravel:	Note to the second seco
Gravel placed from ft. to ft.	
Surface seal: Yes No   To what depth? 6 ft.	DET ENT OF ECOLOGY
Surface Seal: Yes No D To what depth?	JEHA LEGIONAL DEFICE
Did any strata contain unusable water? Yes No	
Type of water? Depth of strata	
(7) PUMP: Manufacturer's Name	
Type:	
(8) WATER LEVELS: Land-surface elevation 20 10 20 above mean sea level	
Static levelft. below top of well Date 5	
Artesian water is controlled by	
Artesian water is controlled by(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	5 D DE 5 D
Was a pump test made? Yes 🗌 No 🗍 If yes, by whom?	Work started 5 - 19 /5 Completed 5 - 19 /5
Yield: O gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n n n	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Recovery data (time taken as zero when pump turned off) (water level	A A A SAA A A A
measured from well top to water level)	NAME Jensens Well Drilling Johnning
Time Water Level   Time Water Level   Time Water Level	(Person, firm, or corporation) (Type or print)
	Address 603 do 100 Cue Johnse 989
Date of test	[Signed & lorence M. Jensen
Bailer testgal/min. withft. drawdown afterhrs.  Artesian flowg.p.m. Date	(Well Drifter)
Temperature of water	License No. Date 6 2 , 19 /3

## WATER WELL REPORT

STATE OF WASHINGTON

Application	No.	17
		14

	Permit No	
(1) OWNER: Name Joe W Brooks	Address 1705 Dalton Lane Yakim	
(2) LOCATION OF WELL. Yakima	29	ार गव
Payring and distance from section or subdivision corner	nock I Bogess Homes Sites Vol	H' Plat
PROPOSED USE: Domestic Municipal Municipal	(10) WELL LOG:	<del></del>
Irrigation Test Well Other		ul and stanstone and
	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each c	u and structure, and the material in each hange 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 🛣	Top Soil	$0$ $1\frac{1}{2}$
Reconditioned   Rotary   Jetted	Conglomerate	1늘 -
(5) DIMENSIONS: Diameter of well 2 inches		
Dimensions:  Diameter of well		
(6) CONSTRUCTION DETAILS:		-
Casing installed: 2		
Threaded		
Perforations: Yes No E		
Type of perforator used		
ft. to ft.		
perforations from		
perforations from ft. to ft.	di Sum but Even & I Arm Bert	
Screens: Yes No 🛎		
Manufacturer's Name	41E : U : 1U!	
Diam. Slot size from ft. to ft.	0.55.313	
Diam Slot size from ft. to ft.	DEPARTMENT OF CONC. 161	
Gravel packed: Yes No No Size of gravel:	SPOKANE REGIONAL CITTLE	
Gravel placed from ft. to ft.		
Surface seal: Yes D No D To what depth?		
Material used in seal Cement Grout	had home U ton a fit home had	
Did any strata contain unusable water? Yes [ No [	Kr, tiers,	
Type of water? Depth of strata Depth of strata		
Method of sealing strata off		
(7) PUMP: Manufacturer's Name		
Type:	DEPORTMENT OF ENGLOGY	
(8) WATER LEVELS: Land-surface elevation above mean sea level 1020	A REGIONAL OFFICE	
Static levelft. below top of well Date 0/14//4		
Artesian pressure		
Artesian water is controlled by(Cap, valve, etc.)		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	<u> </u>	
Was a pump test made? Yes \( \) No \( \) If yes, by whom?	Work started 6/14 19.74. Completed 6	/14, 1974
Yield: 20 gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
11 11 11 11	This well was drilled under my jurisdiction a	nd this report is
n n n	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 Jensens Well Drilling &	Driving
Time Water Level Time Water Level Time Water Level	111111111111111111111111111111111111111	ype or print)
	Address 1603 South 10th Ave. Ya	<b>kima</b> 98902
	~ ^ ·	······································
Vate of test	[Signed] & Louise M.	لسومه
r testgal./min. withft. drawdown afterhrs.	(Well Driller)	
rtesian flowg.p.m. Date	License No0218 Date 7/	5 19 74
	Date	, 19lT
19 19 (UEAPTITIONAL SH	EETS IF NECESSARY)	
5. F. No. 7356—OS—(Rev. 4-71).	,	3
, , , , , , , , , , , , , , , , , , ,		

### WATER WELL REPORT

pplication	No.	14

STATE OF V	WASHINGTON Permit No
(1) OWNER: Name mirel malu	Address 703 E Viola- Yakina 9890
(2) LOCATION OF WELL: County Column	12 /22
ing and distance from section or subdivision corner	S half 07 Lat 12 Black 1
PROPOSED USE: Domestic Mindustrial Municipal	(10) WELL LOG:
Supplement as meeting atton ( Test Well   Other	Formation: Describe by color, character, size of material and structure, a show thickness of aquifers and the kind and nature of the material in eastratum penetrated, with at least one entry for each change of formati
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL FROM TO
New well 🔼 Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven 💆	Top foil 6 4
Reconditioned	Inglomerate 4 -
(5) DIMENSIONS: Diameter of well inches.  Drilled	
(6) CONSTRUCTION DETAILS:	
Casing installed: 2 "Diam. from oft. to 26 ft.	
Threadedft. toft.	
Welded 📐 Plam. from ft. to ft.	
Perforations: Yes   No 5.	
Type of perforator used	
perforations from ft. to ft.	
perforations from ft. to ft.	
perforations from ft. to ft.	
Screens: Yes 🗆 No 🕰	
Manufacturer's Name	
Type	PEAF
Diam Slot size from ft. to ft.	NEUENED
Gravel packed: Yes No M Size of gravel:	LU
Gravel placed from ft. to ft.	GHA WALLED
	DEPRODUCTION OF SUPERIOR
Surface seal: Yes No To what depth?	CERTIFIEL RECTORY
Did any strata contain unusable water? Yes No	CGIUNAL UFFICE
Type of water? Depth of strata	
Method of sealing strata off	
(7) PUMP: Manufacturer's Name	
Туре: Н.Р	
(8) WATER LEVELS: Land-surface elevation above mean sea level.	
Static level 5	
Artesian pressurelbs. per square inch Date	
Artesian water is controlled by(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is	
lowered below static level  Was a pump test made? Yes \( \subseteq \) No \( \subseteq \) If yes, by whom?	Work started
Yield: O gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
1) 11 11	This well was drilled under my jurisdiction and this report
11 11 11 11	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)  Time Water Level   Time Water Level   Time Water Level	NAME Tensers Well of villing Id
	(Person, firm, or corporation) (Type of print)
	Address 603 do 18 4 lue 906 7
ate of testgal./min. withft. drawdown afterhrs.	[Signed] Chunce M. Sansin
	(Well Driller)
Artesian flowg.p.m. Date	License No. Date 6 , 19

#### WATER WELL REPORT STATE OF WASHINGTON

WRO	:#9	ر 5م	43	· , ·
Appl cation		·····,	<u> </u>	
	17			

(1) OWNER: Name  $J.D_i$ hucler Address 1201 5,18th St. 1) LOCATION OF WELL: County VAKINA Su), NE , Sec 24 T/ ging and distance from section or subdivision corner (3) PROPOSED USE: (10) WELL LOG: Domestic [ Industrial | Municipal | 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. Irrigation [] Test Well [] Owner's number of well (if more than one)..... (4) TYPE OF WORK: FROM New well Method: Dug 2 Bored [ Cable 🔀 2 Deepened Driven [ Reconditioned [ Rotary [ Jetted [ (5) DIMENSIONS: Diameter of well ......Lc... inches. Drilled 50 ft. Depth of completed well 50 ft. <u>34</u> (6) CONSTRUCTION DETAILS: 5070 Casing installed: 10 "Diam. from tt. to 12 ft. Threaded [ \_\_\_\_\_\_\_ Diam. from \_\_\_\_O\_\_ ft. to \_\_\_\_\_\_ ft. Perforations: Yes 🗆 No 🕿 Type of perforator used..... SIZE of perforations ...... in. by ..... in. ..... perforations from ...... ft. to ..... ft. ..... perforations from ..... ft, to ..... ft. ..... perforations from ...... ft. to ...... ft. Screens: Yes | No 🎮 Manufacturer's Name Type...... Model No....... Diam. ..... Slot size ..... from .... ft. to .... ft. Diam. ..... Slot size ..... from ..... ft. to ..... ft. Gravel packed: Yes | No Size of gravel: ..... Gravel placed from ...... ft. to ..... ft. Did any strata contain unusable water? Yes Type of water?..... Depth of strata.... OF EUDLOGY Method of sealing strata off..... CENTRAL REGIONAL CEFICE (7) PUMP: Manufacturer's Name..... Land-surface elevation (8) WATER LEVELS: above mean sea level.... Static level 23 ft. below top of well Date 3-4-77 Artesian pressure ......lbs. per square inch Date..... Artesian water is controlled by.....(Cap, valve, etc.) Drawdown is amount water level is lowered below static level (9) WELL TESTS: Work started 1977 Completed Was a pump test made? Yes 🗌 No 🗷 If yes, by whom?..... WELL DRILLER'S STATEMENT: ft. drawdown after Yield: gal./min. with This well was drilled under my jurisdiction and 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) Time Water Level | Time Water Level | Time (aunun [Signed]..... filer test \_\_\_\_\_\_Z( \_\_gal/min. with \_\_\_\_\_Z( \_\_ft. drawdown after.\_\_\_\_ (Well Driller) 702 Date 3-10, 19.7.7 License No.....

## WATER WELL REPORT

Application No.

Third Copy — Driller's Copy		WASHINGTON	Permit No.		
(1) OWNER: Name James (	me Donald	Address 1704 Si	mason L	AA/C	
Ag and distance from section or subdivision	YAKIMa	SE 14	SW4 Secol 9. T.	1.3.N., R.	19.w.m
(3) PROPOSED USE: Domestic In Irrigation T	ndustrial   Municipal    est Well   Other	(10) WELL LOG:  Formation: Describe by color, show thickness of aquifers and stratum penetrated, with at le			
(if more than or	ne) od: Dug	Top Soil		FROM	TO /
	well				
	in. by in. ft. to ft.				
Screens: Yes   No    Manufacturer's Name	Model No	RF	CENTRAL REGIONAL	OFFICE	
(7) PUMP: Manufacturer's Name	н.Р				
(8) WATER LEVELS: Land-surface el above mean sea ft. below top of vartesian pressure lbs. per square i Artesian water is controlled by	well Date				
Nas a pump test made? Yes No If yes, by Yield: Sgal./min. with ft. drawd no	y whom?down after hrs.	Work started 2 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ATEMENT:		
Pate of test  Saller test gal/min. with ft. draw tresian flow g.p.m. Date.  Cemperature of water 58. Was a chemical analysis	wdown afterhrs.	(Person, firm, Address 1603 So.  [Signed] 2 License No. 0.218	10TH Ave	Type of pri	nt)

### **WATER WELL REPORT**

Start Card No. 10347

	Water Right Permit No
") OWNER: Name YEN VAN PHUNG	Address 707 So. Lett St. JAKIMA WA
(2) LOCATION OF WELL: County VAKIMA	SE 1 SW 1 Sec 29 T 13 N. R 19 WA
(2a) STREET ADDDRESS OF WELL (or nearest address) 15	510 164 Street, HAKIMA
inigation _	Municipal  Other  Formation: Describe by color, character, size of material and structure, and sho
(4) TYPE OF WORK: Owner's number of well	thickness of aquifers and the kind and nature of the material in each stratum penetrate with at least one entry for each change of information.
Abandoned New well	Bored
Deepened ☐ Cable ☐ Reconditioned ☐ Rotary ☐	Driven   lop Soul   0 2  Jetted   RIVER ROCK & SAND   H Z   1
(5) DIMENSIONS: Diameter of well	6 inches. SANDY CHAY-SILT & COBOLES H 11 15
Drilled 60 feet. Depth of completed well	60 tt. 11 11 20
(6) CONSTRUCTION DETAILS:	SILTY CLAY & GRAVE! H DA 34
Casing installed: 6 Diam. from +2 ft. to_	58 # BRH SILLY CHAY GROLS-16 BIDRS 37 60
Liner installed	/ <del></del>
Threaded* Diam. fromft. to_	GPM - 42.
Type of perforator used	6+11/2 4/
SIZE of perforations in. by	in.
perforations from ft. to	ft.
perforations fromft. to	
Screens: Yes No	ft.
Manufacturer's Name	
Type Model N	No
DiamSlot sizefromft. to_	
DiamSlot sizefromft. to_	tt.
Gravel packed: Yes No Size of gravel	
Gravel placed from ft. to	•
Surface seal: Yes No To what depth?	
Did any strata contain unusable water? Yes No No	The state of the s
	rata
Method of sealing strata off	
7) PUMP: Manufacturer's Name	NOV 3 0 1988   3
	I.P
B) WATER LEVELS: Land-surface elevation above mean sea level	DEFARBLEAT OF SERIOR OF THE CENTRAL REGION OF THE
Static level	
Artesian water is controlled by(Cap, valve, etc.)	
9) WELL TESTS: Drawdown is amount water level is lowered belo	11-79 667
Was a pump test made? Yes No No lf yes, by whom?	iow static lavel
Yield: gal./min. with ft. drawdown after	hrs. I constructed and/or accept responsibility for construction of this well,
n n n	and its compliance with all Washington well construction standards.  Materials used and the information reported above are true to my best
Recovery data (time taken as zero when pump turned off) (water level from well top to water level)	I measured knowledge and belief.
Time Water to all the control of the	WaterLevel NAME RIEBE WELL DRICLING INC
	Address PO BUX10866
Date of test	Address
	(Signed) Shart Det License No. 6 422
Bailer test gal./min. with ft. drawdown after	Contractor's (WELL DRILLER)
Artesian flow g.p.m. Date	
Temperature of water Was a chemical analysis made? Yes	

## WATER WELL REPORT STATE OF WASHINGTON

Application	No.	13	-
Permit No.			

(1)	OWNER: Name Gene Day	Address].(	<u></u>	Rossess	Y lana	- In	
)	LOCATION OF WELL: County Yakima				14 Sec. 29		
	ng and distance from section or subdivision corner	e ittach	l.	Romer			
(3)	PROPOSED USE: Domestic [ Industrial  Municipal ]	(10) WELL	LO	G:			
	Irrigation [ Test Well [ Other [	Formation: Des	scribe to	by color, char- lifers and the	icter, size of ma kind and nature	terial and str	ucture, and rial in each
<b>(4)</b>	TYPE OF WORK: Owner's number of well (if more than one)	stratum penetr	atea, u	MATERIAL	ne entry for ea	FROM	formation.
	New well 🙀 Method: Dug 🗌 Bored 🗆	Topsoil				O	1 10
	Deepened	Gravel	<u> </u>	small	loose	<u>-</u>	28
<u></u>							<del>  2.0</del> .
(6)	DIMENSIONS: Diameter of well inches.  Drilledft. Depth of completed wellft.						
							<u> </u>
<b>(6)</b>	CONSTRUCTION DETAILS:						
	Casing installed: 6 "Diam. from 0 ft. to 28 ft.	] <del></del>					-
	Threaded						<del>                                     </del>
	Perforations: Yes   No 5						
	Type of perforator used						-
	perforations from	<b> </b>					 <del> </del>
	perforations from ft. to ft.						<u> </u>
	perforations from ft. to ft.	l					<del>                                     </del>
	Screens: Yes - No -				· · · · · · · · · · · · · · · · · · ·		
	Manufacturer's Name			SECE	MED		
	Type			ILVL	i V L		
	Diam Slot size from ft. to ft.			<del></del>	:::77		ļ
	Gravel packed: Yes No No Size of gravel:			• • • • • • • • • • • • • • • • • • • •	1077		<del> </del>
	Gravel placed from ft. to ft.		<del>ŬE.</del>	Jackson 1	OF ECOLUGY		
	Surface seal: Yes No Downardepth? 18 ft.		CEN	High Regi	ONAL UPICE		
	Surface seal: Yes No Downst.depth? 18 ft. Material used in seal Deninite clay						
	Did any strata contain unusable water? Yes [] No []						
	Type of water? Depth of strata  Method of sealing strata off	<del></del>					
/ <del>//</del> /	· · · · · · · · · · · · · · · · · · ·					<del></del>	<del> </del>
(7)	PUMP: Manufacturer's Name	·					<del> </del>
	Type: H.P	<del></del>					<del>                                     </del>
(8)	WATER LEVELS: Land-surface elevation above mean sea level						
	e level 16 ft. below top of well Date 3-22-77						
artes	Artesian water is controlled by(Cap, valve, etc.)			<del></del>	······································		
	(Cap, valve, etc.)					<del>-</del>	<del> </del>
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level						<u></u>
	a pump test made? Yes 🗌 No 🗍 If yes, by whom?				Completed	***************************************	, 19
Yield ,,	gal./min. with ft. drawdown after hrs.	WELL DRI	LLEI	KS STATI	EMENT:		
,,	y y y				my jurisdicti dge and belie		report is
Reco	very data (time taken as zero when pump turned off) (water level	, see to the bi	JUL 01	11104416	ase and nerte		
Tin	neasured from well top to water level)	name R				•••••	
1 6/1	ne Water Level Time Water Level Time Water Level		(Per	rson, firm, or	corporation)	(Type or p	
		Address RT	1. 2	Box 22	65 S <mark>ë</mark> lah	, Wash	98942
٠.				$\supset D$	1,	4	21
- 44°.	rie of test	[Signed]		LKly	~ U 9	ulf	
	r test		- /		(Well Driller)	,	
Cemp	erature of water	License No	-0204	8	Date3.	-29-	, 197.7

#### WATER WELL REPORT

Application	No.	1	.)* .;
		1	4

STATE OF V	VASHINGTON Permit No
(1) OWNER: Name Theyo TAYLOR	Address 1507 Sc. 13 HI St
(2) LOCATION OF WELL: County JAKIM -	<del></del>
g and distance from section or subdivision corner	Parael 191229-32461
(3) PROPOSED USE: Domestic X Industrial  Municipal	(10) WELL LOG:
Irrigation   Test Well   Other	Formation: Describe by color, character, size of material and structure, and show thickness of aguifers and the kind and nature of the material in each
( FYPE OF WORK: Owner's number of well (if more than one)	show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation  MATERIAL FROM TO
New well Method: Dug 🗆 Bored 🗆	MATERIAL FROM TO
Deepened ☐ Cable ☑ Driven ☐ Reconditioned ☐ Rotary ☐ Jetted ☐	LARGE COBBLES 4 10
	( sincerter Sour + ( RMCL 10 27
(5) DIMENSIONS: Diameter of well inches.  Depth of completed well ft.	(HERVEL + 5.447) 1740
(6) CONSTRUCTION DETAILS:	
Casing installed:	
Threaded Diam, from ft. to ft.	
Welded Diam. from ft. to ft.	
Perforations: Yes No No	
Type of perforator used	
SIZE of perforations in. by in in ft. to ft.	
perforations from ft. to ft.	
perforations from ft. to ft.	
Screens: Yes   No.	
Manufacturer's Name	
Type Model No	
Diam. Slot size from ft. to ft.	
Gravel packed: Yes No No Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: year No To what depth?	1144
Did any strata contain unusable water? Yes No	
Type of water? Depth of strata	1874
Method of sealing strata off	1
(7) PUMP: Manufacturer's Name	<u>:</u>
Type:	
(8) WATER LEVELS: Land-surface elevation above mean sea level	
Static levelft, below top of well Date 3-19-8	
Artesian pressure	
(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is	
Was a pump test made? Yes No If yes, by whom?	Work started 3-/C 1982 Completed 3-/4 198
Yield: gal./min. with / ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
, n n - n	This well was drilled under my jurisdiction and 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 BACIT Dering Co.
Time Water Level   Time Water Level   Time Water Level	(Person, firm, or corporation) (Type or print)
	Address Rt & Box 1010 Ellers Burg
ate of test	[Signed] ( Way Mi Cos fair Lake
Bauer test gal/min. with ft. drawdown after hrs.  Artesian flow g.p.m. Date	(Well Driller)
Temperature of water	License No. 0836 Date 3-/4 198

## WATER WELL REPORT

Application No.

STATE OF WASHINGTON Permit No. . .

(	(0)	OWNER: Name Brian Kelly	Address 1721 South 13th Street )	Yakin	1a
2)		LOCATION OF WELL: County Yakima	54 45W 4 Sec 29 T/3	N R.	9.w.m.
	Bear	ring and distance from section or subdivision corner	rcel # 191 329 - 33413		<i>)</i>
1	(3)	PROPOSED USE: Domestic 🗵 Industrial 🗆 Municipal 🗍	(10) WELL LOG:		
1		Irrigation   Test Well   Other	Formation: Describe by color, character, size of material a	materia	l in each
	<b>(4)</b>	TYPE OF WORK: Owner's number of well (if more than one)	stratum penetrated, with at least one entry for each char		<del></del>
		New well M Method: Dug Bored		FROM	10
		Deepened Cable Driven	Topsoil, cobbles & gravel Gravel - conglomerate	12	<u>12</u> 16 w
		Reconditioned Rotary D Jetted	Medium brown sand & gravel	16	<u>16                                    </u>
	<b>(5)</b>	DIMENSIONS: Diameter of well 6 inches.	Gravel - conglomerate	18	26
1		Drilled 100ft. Depth of completed well 100ft.	Gravel w/coarse sand	26	47
	(6)	CONSTRUCTION DETAILS:	Coarse sand	47	53
į.	( - )	Casing installed: 6 "Diam. from 0 ft. to 100 ft.	Gravel	53	100
		Threaded [ Diam. from			
		Welded 🔀ft. oft.	-		
		Perforations: Yes No K			
		Type of perforator used		<del></del>	
		SIZE of perforations in. by in.		<del></del>	
		perforations from ft. to ft.		<u>i</u>	
1		perforations from			
		Screens: Yes No 🛛			
		Manufacturer's Name			
		Diam. Slot size from ft. to ft.			
		Diam Slot size from ft, to ft.			
i i		Gravel packed: Yes No X Size of gravel:			
:		Gravel placed from		i_	
		·			
		Surface seal: Yes No Downat depth? 100 ft.  Material used in seal Bentonite			
		Did any strata contain unusable water? Yes No X			
		Type of water? Depth of strata			
		Method of sealing strata off	20年7年1月1日	1	
	<b>(7)</b>	PUMP: Manufacturer's Name	Section 1970 - State District of Land Section 1970		
	` ′	Type: H.P			
	(9)	WATER LEVELS: Land-surface elevation	OCT     966		
		above mean sea level			<del></del>
		c levelOft. below top of well Date Y-IO-OO sian pressurelbs. per square inch Date	DEPARTMENT DE ECOLOGY	—	<del></del>
		Artesian water is controlled by	CENTRAL REGION OFFICE		
		(Cap, valve, etc.)			
		WELL TESTS: Drawdown is amount water level is lowered below static level_	Work started 9-17 19.86 Completed Co	3 <u>-18</u>	<u>10.86</u>
		a pump test made? Yes 🕱 No 🛘 If yes, by whom? Bach		/ <del></del>	., 19
	Yield	d: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:		
		n n	This well was drilled under my jurisdiction and true to the best of my knowledge and belief.	d this r	eport is
		very data (time taken as zero when pump turned off) (water level	arde to the best of my knowledge and benef.		
	r	neasured from well top to water level)	NAME Bach Well Drilling Compar	27.7	
,	Ti	me Water Level Time Water Level Time Water Level	NAME Bach Well Drilling Compar (Person, firm, or corporation) (Typ	e or pri	nt)
1	· ·		Address Route 1 Box 1401 Moxee,	Wa.	98936
				*************************	
	I	Date of test September 18, 1986	[Signed] Cold De		
e tR	KaKla	X test 100gal/min. with 90ft. drawdown after 1 hrs.	(Well Driller)		•••••
		perature of water	License No. 1436 Date 9/	/18	19.86
		TO A		,	<b>*</b> V

## WATER WELL REPORT

Application No.	///
Permit No	/ /

(	WNER: Name LLOYD LEROUE	Address 1615 S. 10 St.	
	LOCATION OF THE TAXABLE	_ SW ¼ SW ¼ Sec 29 T 13 N, R19	
υĨ	ing and distance from section or subdivision corner		77 .472.
,	PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG:	
-	Irrigation [] Test Well [] Other []	Formation: Describe by color, character, size of material and structu show thickness of aquifers and the kind and nature of the material	in each
.)	TYPE OF WORK: Owner's number of well (if more than one)	stratum penetrated, with at least one entry for each change of for  MATERIAL FROM	TO
	New well X□ Method: Dug □ Bored □	TOP SOIL & ROCK O	7
	Deepened [] Cable [] Driven []  Reconditioned [] Rotary X Jetted []		20
			22
	DIMENSIONS: Diameter of well 6 inches.  Drilled 60 pepth of completed well 60 ft.	GRVL SILT SAND 22	27
	Drilled60ft. Depth of completed well60ft.	BLDRS SAND GRVL WATER 27	43
(	CONSTRUCTION DETAILS:		49
	Casing installed: 6		60
	Threaded D	60 GPM	
	Welded 🖺 Ti. Diam. from ft. to ft.		
	Perforations: Yes No No		
	Type of perforator used		
	SIZE of perforations in. by in.		
	perforations from ft. to ft		
	perforations from ft. to ft.		
	Screens: Yes   No   No   No   No   No   No   No   N		<del></del>
,	Manufacturer's Name		
	Type Model No Model No		
	Diam. Slot size from ft. to ft. Diam. Slot size from ft. to ft.		
	Gravel packed: Yes No No Size of gravel:		
	Gravel placed from ft. to ft.		
	Surface seal: Yes M No T To what depth? 20 ft.  Material used in seal BENTONITE		
	Did any strata contain unusable water? Yes No 🗆		
	Type of water?C.O.N.n.a.t.E Depth of strata22		
		MEGENVEN	
)	PUMP: Manufacturer's Name		<del></del>
-	Type: H.P	- 1000 H	
	WATER LEVELS: Land-surface elevation above mean sea level		
tic	level 10 date 10/3/86		
165	ian pressure	DEPARTMENT OF RODLOGY	
	Artesian water is controlled by(Cap, valve, etc.)	CENTRAL MEGION OF	
)	WELL TESTS:  Drawdown is amount water level is lowered below static level		
•	a pump test made? Yes \( \square\) No \( \frac{\f{\frac{\frac{\frac{\frac{\frac{\frac{\fraccc}\frac{\frac{\f	Work started 10/3/86, 19	19
į	gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
	n n n	This well was drilled under my jurisdiction and this rep	ort is
	very data (time taken as zero when pump turned off) (water level	true to the best of my knowledge and belief.	
r	leasured from well top to water level)	NAME RIEBE WELL DRILLING	
'in	ne Water Level   Time Water Level   Time Water Level	(Person, firm, or corporation) (Type or print	.)
		AddressN. 1503 E. NOB HILL YAKIMA	
		TO THE TAX PROPERTY OF THE PARTY OF THE PART	**********
	ate of test	[Signed] BOB BRITTON	
	r testgal./min. withft. drawdown afterhrs. ian flowg.p.m. Date	(Well Driller)	*********
	erature of water Was a shamical analysis model Va-VI Na II	License No. 0/2 Deta 10/1/94	• •

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy	WATER WELL REPOR	T Application No.
(1) OWNER: Name Burger	IT. Perkeris Address 160.	5.30 108t yakima Wn 92901
2) LOCATION OF WELL: County.  E g and distance from section or subdivis		- 5 Vy 200 y Sec T 13 N, R CIEWM
PROPOSED USE: Domestic X	Industrial   Municipal   (10) WELL	LOG:
Irrigation [	Snow thickness of	ibe by color, character, size of material and structure, and f aquifers and the kind and nature of the material in each
(4) TYPE OF WORK: Owner's number	. I SETADUM DONOTTALA	ed, with at least one entry for each change of formation

	Irrigation   Test Well   Other	show thickness of aquifers and the kind and nature of the mate stratum penetrated.	
<b>(4)</b>	TYPE OF WORK: Owner's number of well / (if more than one)	stratum penetrated, with at least one entry for each change of MATERIAL FROM	
	New well 💆 Method: Dug 🗌 Bored 🗆	Boulders + are C	<del></del>
	Deepened Cable Driven	- Portalle of feter to	1.7
	Reconditioned [ Rotary   Jetted	lad to bo	+
(5)	DIMENSIONS: Diameter of well inches.	- Llay & gravel layers 15	124
	Drilled Depth of completed well		
	Deput of compressed from	- Sand of grant of Walle 24	133
(6)	CONSTRUCTION DETAILS:		<u> </u>
	Casing installed:		
	Threaded ft. to ft.		
	Welded []ft. in		
	D	DEAFINED	<u> </u>
	Perforations: Yes   No X	I RELEIVED	
	Type of perforator used	7,202,.20	
	SIZE of perforations in. by in.		
	perforations from ft. to ft	3117 to 9 1974	
	perforations from ft. to ft.	SERVICENT OF FOOLOOK	
	periorations from	DEPARTMENT OF ECOLOGY	-
	Screens: Yes No Z	CENTRAL REGIONAL OFFICE	<del></del>
	Manufacturer's Name		
	Type Model No Model No		<del></del>
	Diam Slot size from ft. to ft.		
	Diam. Slot size from from ft. to ft.		
	Gravel packed: Yes No Vi Size of gravel:		<del></del>
	Α -		
	Gravel placed from ft. to ft.		
	Surface seal: Yes X No D To what depth? 26 ft.		
	Material used in seal		
	Did any strata contain unusable water? Yes 🗆 No 💢		
	Type of water? Depth of strata		
	Method of sealing strata off		
(7)	PTIMP:		T
(•)	PUMP: Manufacturer's Name		<del> </del>
	Type		+
(8)	WATER LEVELS: Land-surface elevation above mean sea level		<del> </del>
Static	levelft. below top of well Date 3-22-60		+
Artes	ian pressure		<del></del>
	Artesian water is controlled by		<b>-</b>
	(Cap, valve, etc.)		
(9)	WELL TESTS: Drawdown is amount water level is	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	<del></del>
` '	lowered below static level pump test made? Yes \( \sigma \) No \( \sigma \) If yes, by whom?	Work started 3 - 18 1960. Completed 3 - 22	ر) ديا 19
Yield:	<b>21</b>	WELL DRILLER'S STATEMENT:	

(9) WI	ELL TESTS:		Drawdo lowered	wn is am I below s	nount wate tatic level	er level is	:
Was a pu	mp test made?	Yes 🗌	No 💢	If yes, b	y whom?	•••••	
Yield:	gal./min	. with		_ft. draw	rdown afte	er	hrs
"					,,		"
.,					,,		,,
measi Time	data (time tak ured from well ( Water Level	op to v	vater le	vel)			
	of test 3						
	of test				uudoum af	tar 2	hre

...g.p.m. Date..

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

NAME (Rerson, firm, or corporation) (Type or print)

Address 202 Arver Palyakima Un

[Signed] Frank Johnson (Well Driller)

79310

License No.

OK MAB

tesian flow...

## WATER WELL REPORT STATE OF WASHINGTON

Application	No.

Permit No. ....

1) OWNER: Name TEENA HUFFMAN	Address 143 5-175 Vat. mt 11	η.	
CATION OF WELL: County AKIMA	-1/E-1/54) 1/ Sec 29 T	3 N P	195WM
Bearing and distance from section or subdivision corner	— 10. m. 74 Sec 1. 1	IV., IV,	
	(10) WELL LOC.		
(3) PROPOSED USE: Domestic of Industrial [ Municipal [	(10) WELL LOG:		<del></del>
Irrigation   Test Well   Other    (4) TYPE OF WORK. Owner's number of well	Formation: Describe by color, character, size of materia show thickness of aquifers and the kind and nature of stratum penetrated, with at least one entry for each c	the mater	ial in each
(if more than one)	MATERIAL	FROM	TO
New well <b>X</b> Method: Dug	SQL, GREY, ROCKY	0	2
Reconditioned Rotary Jetted	CRAVEL COMASE	2	15
(5) DIMENSIONS: Diameter of well	BOULDERS	15	18
Drilled 6. Depth of completed well 6. C. ft.	GENEZ COARSE BENCHAL	18	ع کے
	SANDET BEN, SICTED SOME WATER	-3	22
(6) CONSTRUCTION DETAILS:	DAVI) BUN CONFEE LU B.	39	5,3
Casing installed: 5 "Diam. from 4/ ft. to 60 ft.	Spiol T. Bluy SILTED Some Hoo	37	42
Threaded Time. Threaded ft. to ft.	SANDY CLAY DELKE SAMETOS	42	20
Welded Diam. from ft. to ft.	SAUD RAND MED FINE 11 R	Y-2	61
Perforations: Yes Nove	SAME PORTURE COS	<u>., , , , , , , , , , , , , , , , , , , </u>	<i>w</i> /
Type of perforator used			
SIZE of perforations in, by in,			
perforations fromft. toft			
perforations from			
Concord			
Screens: Yes  Nova			
Type	I AND TO THE RESTREET		<u> </u>
Diam Slot size from ft. to ft.			<del> </del>
Diam. Slot size from ft. to ft.	1		<del> </del>
Gravel packed: Yes   No X Size of gravel:	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<del> </del>
Gravel placed fromft. toft.		<del> </del>	<u> </u>
5	DEIT	<del>-</del> -	ļ <del></del> -
Surface seal: Yes No   To what depth?			<del> </del>
Did any strata contain unusable water? Yes No 🗸			
Type of water? Depth of strata			
Method of sealing strata off			
(7) PUMP: Manufacturer's Name STA LITE			
Type: SUBMELS/BLE HP 13		<u></u>	
(8) WATER LEVELS: Land-surface elevation above mean sea level			<del> </del>
Static level /5 ft. below top of well Date / -28-82			<del> </del>
Artesian pressurelbs. per square inch Date			
Artesian water is controlled by(Cap, valve, etc.)			
lowered below static level	Work started 7.446 19.8.2 Completed 2.7	1946	, 197.2
Was a pump test made? Yes \( \simega \) No \( \simega \) If yes, by whom?	WELL DRILLER'S STATEMENT:		
" " " " " " " " " " " " " " " " " " "	•		
n n n	This well was drilled under my jurisdiction true to the best of my knowledge and belief.	and this	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	NAMECAIN DRILLING		
Time Water Debet	(Person, firm, or corporation)		orint)
	Address Dt 5 Br 382B, JAKemb,	WA	
Date of test	[Signed]		
Bailer test	(Well Driller)		-
Artesian flowg.p.m. Dateg.p.m. Dat	License No. 0700 Date 3/	UK	19 52
			,

#### WATER WELL REPORT

Application	No.	La Con
Permit No.		

(1) OWNER: Name AlmA MARTIN	Address 14/6 5, 14# St. YakimA
(2) LOCATION OF WELL: County UAKIMA	
earing and distance from section or subdivision corner	
(3) PROPOSED USE: Domestic Maintrial Municipal	(10) WELL LOG:
Irrigation   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 🗍	Topsoil a 0 6
Reconditioned Rotary L Jetted	SMAIL GRAVE & LARGE GRAVEL 6 25
(5) DIMENSIONS: Diameter of well 6 inches	4 SAND
Drilled	SMAIL GRAVEL & LARGE GRAVEL 25 52
	F SAND 1 WATER
(6) CONSTRUCTION DETAILS:	
Casing installed: 6 " Diam. from + 1 ft. to 44 ft.	
Threaded Diam. from ft. to ft.	
Welded Diam. from ft. to ft.	
Perforations: Yes No No	
Type of perforator used	
SIZE of perforations in. by in ft. to ft.	
perforations from ft. to ft.	
perforations from ft. to ft.	
Screens: Yes No 🛒	
Manufacturer's Name	
Type Model No	
Diam.         Slot size         from         ft. to         ft.           Diam.         Slot size         from         ft. to         ft.	
Gravel packed: Yes No Size of gravel:	
Gravel placed fromft. toft.	
Surface seal: Yes No To what depth? ft.	
Material used in seal BENITONITE	
Did any strata contain unusable water? Yes No	
Method of sealing strata off	
(7) PIIMP:	
(7) PUMP: Manufacturer's Name	
······································	,
(8) WATER LEVELS:  Land-surface elevation above mean sea level	
	·
Artesian pressure	
Artesian water is controlled by (Cap, valve, etc.)	<del></del>
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	2-24 08 8-25 80
Was a pump test made? Yes No X If yes, by whom?	Work started 3-24 , 1988 Completed 3-25 , 1988
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
<u> </u>	This well was drilled under my jurisdiction and 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 WATER WITHS DOLLING
Time Water Level Time Water Level Time Water Level	NAME (Person, firm, or corporation) (Type of print)
	Address 5503 Altauren DI
	Address SUSSIANUT
Date of test	[Signed]
Bailer test 50 gal/min. with tt. drawdown after hrs.	[Signed] (Well Driller)
Artesian flow	License No. 1435 Date 3-25 1988

#### WATER WELL REPORT

Application No. 25

Permit No. ...

mation: Describe by color, character, size of material and structure ow thickness of aquifers and the kind and nature of the material in atum penetrated, with at least one entry for each change of form the change of the material in atum penetrated, with at least one entry for each change of form MATERIAL  Describe by color, character, size of material and structure ow thickness of aquifers and the material in atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form atum penetrated, with at least one entry for each change of form at least one entry for each change of	River rock send 1 5 River rock send 1 5 Inconsolidated rock 5 17 Gravel, brown clay sand 17 22 Gravel, brown clay, sand 30 54 Gravel, brown clay, sand 30 54 Gravel, brown clay, sand, water 34 40			
MATERIAL FROM TOPSOIL 1	MATERIAL FROM TOO TO TO THE PROPERTY OF EXPLORY  MATERIAL 0 1 1 5 1 5 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	how thickness of aquifers and the kind and nature of		
MATERIAL FROM TOPSOIL 1	MATERIAL FROM TOO TO TO THE PROPERTY OF EXPLORY  MATERIAL 0 1 1 5 1 5 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	tratum penetrated, with at least one entry for each c	il and stri the mater change of	icture, ial in forma
Liver rock send 1 5 neonsolidated rock 5 17 ravel, brown clay sand 17 22 ravel, sand 22 50 ravel, brown clay, sand 30 54 ravel, brown clay, sand, water 34 40	River rock send 1 5 Inconsolidated rock 5 17 Gravel, brown clay sand 17 22 Gravel, sand 22 50 Gravel, brown clay, sand 50 54 Gravel, brown clay, sand, water 34 40 Gravel, brown clay, s			T
neonsolidated rock ravel, brown clay sand ravel, sand ravel, brown clay, sand ravel, brown clay, sand ravel, brown clay, sand ravel, brown clay, sand, vater ravel, brown clay, sand	Inconsolidated rock  Gravel, brown clay sand  Gravel, sand  Gravel, brown clay, sand  Gravel, brown clay, sand  Gravel, brown clay, sand, water  JUL 1986  DEPARTMENT OF EXPLORY	Copsoil Copsoil	0	1 1
ravel, brown clay sand 17 22 50 avel, sand 22 50 54 avel, brown clay, sand 50 54 avel, brown clay, sand, water 34 40 54 avel, brown clay, sand, water 34 40 55 avel, brown cla	Gravel, brown clay sand 17 22 30 Gravel, sand 22 30 34 Gravel, brown clay, sand 50 54 40 34 35 34 35 35 35 35 35 35 35 35 35 35 35 35 35	River rock & sand	1	5
Cavel, Sand 22 30 34 22 30 34 22 30 34 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	gravel, sand 22 30 34 30	nconsolidated rock	5	117
ravel, brown clay, and 50 54 40 cavel, brown clay, sand, water 54 40 cavel, sand, water 54 40 cave	Gravel, brown clay, and 50 54 40 bravel, brown clay, sand, water 54 40	ravel, brown clay sand	17	22
Tavel, brown clay, sand, water 34 40	Pravel, brown clay, sand, "water 54 40	ravel, asand	22	30
DEPARTMENT G. ECOLOGY	DEPARTMENT OF ECOLOGY	ravel, brown clay, a sand	30	54
DEPARTMENT OF ECOLOGY	DEPARTMENT OF ECOLOGY	ravel, brown clay, sand, " water		1 .
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L CENTRAL REGION OFFICE	CENTRAL REGION OFFICE	DEPARTMENT OF ECOLOGY		
		LENIKAL REGION OFFICE		
	4/14/26 4/15/26	THE STATE OF THE S	1 5 /0 -	
4/14/26 //15/26		I II I I I		
	4/14/26 4/15/86	DEPARTMENT OF ESPLORY	15/00	
	OFK STATEGO 10 Completed	4/14/26 4/		10

OWNER: Name John Jehouler
LOCATION OF WELL: County Laking
Bearing and distance from section or subdivision corner
(3) PROPOSED USE: Domestic 🗗 Industrial 🗆 Municipal 🗆 Irrigation 🗀 Test Well 🗀 Other
(4) TYPE OF WORK: Owner's number of well (if more than one)  New well
(5) DIMENSIONS: Drilled
(6) CONSTRUCTION DETAILS:
Casing installed: 5 "Diam. from +1 ft. to 50 ft.  Threaded □ "Diam. from ft. to ft.  Welded 1 Diam. from ft. to ft.
Perforations: Yes □ No ☑  Type of perforator used
Screens:         Yes □ No ₺           Manufacturer's Name
Gravel placed from ft. to ft. Surface seal: Yes No   To what depth? 20 ft.
Material used in seal <u>Sentonite</u> Did any strata contain unusable water? Yes □ No 5t  Type of water? Depth of strata  Method of sealing strata off
(7) PUMP: Manufacturer's Name
(8) WATER LEVELS: Land-surface elevation above mean sea level
(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No Y If yes, by whom?  Yield: gal./min. with ft. drawdown after hrs.
11 11 11 11 11 11 11 11 11 11 11 11 11
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)  Time Water Level Time Water Level Time Water Level  Date of test  Baller test gal/min. with ft. drawdown after hrs.
Artesian flowg.p.m. Date

File Original and First Copy with Department of Ecology Second Copy — Owner's Copy Third Copy — Driller's Copy WATER WELL REPORT Application No STATE OF WASHINGTON Permit No. (1) OWNER: Name Joe Butler Address 1618 S. 14 St OCATION OF WELL: County Yakima \_ NE' SW sec 29 T 13 N, R 19 WM 1078 Block 2, FAIRVIEW Add =2 g and distance from section or subdivision corner (3) PROPOSED USE: Domestic 🛭 Industrial 🗆 Municipal 🗀 (10) WELL LOG: Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. Irrigation Test Well Owner's number of well (4) TYPE OF WORK: (if more than one).... MATERIAL. FROM New well XIX Method: Dug ☐ Bored ☐ TOP SOIL & GRAVEL Deepened Cable 🔲 Driven □ sand gravel boulders river bd Reconditioned [ Rotaryx Jetted □ trace of water (5) DIMENSIONS: Diameter of well ..... ..... inches. cement gryl bldrs Drilled......53..........ft. Depth of completed well......52........ft. grvl bldrs silt brn hard 33 47 sand grvl bldrs water (6) CONSTRUCTION DETAILS: Casing installed: Diam. from ft. to ft. to ft. water approximately 30 GPM Threaded [ at 50 ft. Perforations: Yes ☐ No ☒X Type of perforator used..... SIZE of perforations ...... in. by ..... in. ..... perforations from ...... ft, to ..... ft. ft. to ...... ft. ..... perforations from ..... ft. to ..... ft. Screens: Yes | NOXIX Manufacturer's Name..... Type...... Model No..... Diam. ..... Slot size ..... from ..... ft. to ..... ft. Diam. ..... Slot size ..... from ..... ft. to ..... ft. Gravel packed: Yes No XX Size of gravel: ..... Gravel placed from ...... ft. to ..... ft. Surface seal: Yes 🛭 No 🖂 Did any strata contain unusable water? Yesy'k Type of water SUTIACE Depth of strata 28 (7) PUMP: Manufacturer's Name..... lu Ui DEPARTME TO (8) WATER LEVELS: Land-surface elevation 1020 above mean sea level....1020 Static level 15 ft. below top of well Date 2/18/84 Artesian pressure ......lbs. per square inch Date..... Artesian water is controlled by.....(Cap, valve, etc.) Drawdown is amount water level is lowered below static level (9) WELL TESTS: Work started 2/18/84, 19...... Completed 2/18/84, 19..... Was a pump test made? Yes NoKEX If yes, by whom?..... WELL DRILLER'S STATEMENT: Yield: gal./min. with ft. drawdown after hrs. ,, ,, ,, This well was drilled under my jurisdiction and 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 RIEBE WELL DRILLING (BOB BRITTON)
(Person, firm, or corporation) (Type or print) Time Water Level | Time Water Level | Time Address 1503 E. Nob Hill YAKIMA WA ..... Holen H. [Signed]... Bailer test......gal./min. with.....ft. drawdown after.....hrs.

> 67184 (IISE ADDITIONAL SE

Artesian flow......g.p.m. Date....

Temperature of water...... Was a chemical analysis made? Yes  $\square$  No  $\square$ 

## WATER WELL REPORT

Application	No.	7	
Permit No			

(1) OWNER: Name TED J. BENDER	Address 1412 So. 16 TH STREET YAKIMA .	 ک ۵ <i>ب</i> ن
(2) LOCATION OF WELL: County YAKI M.	9 NEW SW W Sec 29 T 13 N R 19 E	w w
ring and distance from section or subdivision corner	Andready, Margadian	**
(a) PROPOSED USE: Domestic X Industrial   Municipal	(10) WELL LOG:	
Irrigation   Test Well   Other	Formation: Describe by color, character, size of material and structure show thickness of aquifers and the kind and nature of the material in stratum penetrated, with at least one entry for each change of forms	
(4) TYPE OF WORK: Owner's number of well (if more than one)	D. A. CHETTY A. Y.	O
New well    Method: Dug □ Bored □	TOP SOIL 0 3	<u>-</u> -
Deepened ☐ Cable ☐ Driven [X]  Reconditioned ☐ Rotary ☐ Jetted ☐	COM BLOMERATE 3 2	9
		<del></del> -
(5) DIMENSIONS: Diameter of well		
(6) CONSTRUCTION DETAILS:		
Casing installed: 2" Diam. from 6 ft. to 29 ft.		
Threaded" Diam. from ft. to ft.		
Welded M		
n. f		
Perforations: Yes No X		
Type of perforator used		
perforations from		
perforations from ft. to ft.	1- NOEN	
perforations from ft. to ft.	- DKIO	
Screens: Yes   No 🕱		
Manufacturer's Name		
Type Model No Model No		
Diam Slot size from ft. to ft.		
Diam. Slot size from ft. to ft.		
Gravel packed: Yes   No 🗷 Size of gravel:		
Gravel placed from ft. to ft.		
Surface soult		
Surface seal: Yes No D To what depth? ft.  Material used in seal BENTOM: TE CEMENT GROUT		
Did any strata contain unusable water? Yes No		
Type of water? Depth of strata	n C C L L L L L L L L L L L L L L L L L	
Method of sealing strata off	The said has a	
(7) PUMP: Manufacturer's Name	-075	
Type:		
(O) YIVA (DEID) I EXYEST C. Land synform elevation		
(8) WATER LEVELS: Land-surface elevation above mean sea level. APP 1030 ft.		
Static levelft. below top of well Date #7-7.5  Artesian pressurelbs. per square inch Date	- Commence of the Commence of	
Artesian water is controlled by		
Artesian water is controlled by(Cap, valve, etc.)		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level		
Was a pump test made? Yes \( \sigma\) No \( \sigma\) If yes, by whom?	Work started 19-7, 19.75. Completed 11-7, 19.	<u>75</u>
Yield:   D gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
n n n	This well was drilled under my jurisdiction and this report	rt is
U 11 11 11 11 11	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)	Imagen 1	
Time Water Level Time Water Level Time Water Level	NAME JENSEN'S WELL ORILLING DRIVIA  (Person, firm, or corporation) (Type or print)	<u>/ G</u>
	Address 1603 So. 10TH AUE. Galace	بربيده
Date of test	[Signed Laure	
er testgal./min. withft. drawdown afterhrs.	(Well Driller)	
Artesian flow	License No. 0218 Date 11-10 19	7.5
OK Mas		

### **WATER WELL REPORT**

Start Card No. 07423

		Water Right Permit No.	
(1)	OWNER: Name Philip Goegon	Address 16/2517 MSTREET VAKIMA 98	70/
	LOCATION OF WELL: County JAKIMA	NG x SW x Sec 29 T 13 N 8 19	
) (2a)	. ,		V.M.
	OTTICE (3) Heatest Red(833)		
(3)	PROPOSED USE: Domestic Industrial Municipal Industrial	(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPT	
(4)	TYPE OF WORK: Owner's number of well (if more than one)	Formation: Describe by color, character, size of material and structure, and strickness of aquifers and the kind and nature of the material in each stratum penetr, with at least one entry for each change of information.	how ited,
` ''		MATERIAL FROM TO	
	Abandoned  New well Method: Dug Bored Cable Driven	TOPSOIL GRAVEL HO	
	Reconditioned  Rotary  Jetted	SANIS GRAVEL (BRALES H 1 9	
(5)	DIMENSIONS: Diameter of well 6 inches.	SAVIS SILT GRAVEL POULDERS LOBBLES 11 9 54	$I^{-}$
(-,		CEMENTED GRAVEL H 54 .58	2
	Drilled 58 feet. Depth of completed well 58 ft.	Della Comes Orales	
(6)	CONSTRUCTION DETAILS:		—
	Casing installed: 6 Diam. from $\frac{1}{2}$ ft. to $\frac{58}{6}$ ft.		—
	мыны 7 <b>0</b> .		
	Liner installed		
	Threaded Diam. fromft. toft.		
	Perforations: Yes No No		
	Type of perforator used		
	SIZE of perforations in. by in.		
	perforations fromft. toft.		
	perforations fromft, toft.		
	perforations fromft. toft.		
	Screens: Yes No X		—
	Manufacturer's Name		
	Type Model No.:		—
	DiamSlot sizefromft. toft.		
	Diam. Slot size from ft. to ft.		
	Gravel packed: Yee No Size of gravel		
	Gravel placed from ft. to ft.		
	Surface seal: Yes No To what depth? 18 ft.		
	Material used in seal BENTONITE		—
	Did any strata contain unusable water? Yes No No		
	Type of water?Depth of strata		
	Method of sealing strata off		
(7)	PUMP: Manufacturer's Name		
		31 3	
	Type: H.P. H.P.		
(8)	WATER LEVELS: Land-surface elevation above mean sea level ft.	A TOTAL COLUMN TO THE PARTY OF	
	Static level ft. below top of well. Date _5-16-89	GENTRAL REGION OFFICE	
	Artesian pressure lbs. per square inch Date	And the first contract the second state and the sec	
	Artesian water is controlled by(Cap, valve, etc.))		
(9)	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 5-16-89, 19. Completed 5-16-89, 19	_
(3)	Was a pump test made? Yes No No If yes, by whom?		_
	Yleld: gal./min. with ft. drawdown after hrs.	WELL CONSTRUCTOR CERTIFICATION:	
	n n n n n n	I constructed and/or accept responsibility for construction of this w	ell,
	n n n n	and its compliance with all Washington well construction standar Materials used and the information reported above are true to my b	
	Recovery data (time taken as zero when pump turned off) (water level measured	knowledge and belief.	381
	from well top to water level)		
	Time Water Level Time Water Level Time Water Level	NAME RIEBE WELL DULLING	
		(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)	_
		Address POBOX 10866 YAKIMA WA.	
	Date of test	201.01.	
	Bailer test gal./min. with ft. drawdown after hrs.	(Signed) Mills (WELL DRILLER) License No. 1335	
		Contractor's	
	Airtest gal./min. with stem set at ft. for hrs.	Registration 132K6 Date 5-22-89 19	
	Artesian flow g.p.m. Date	Date Date 19	_
•	Temperature of water Was a chemical analysis made? Yes No V		

29

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

### WATER WELL REPORT

Start Card No. 026073

Water Right Permit No. -

(1)	OWNER: Name HARRY StotSENbERG	Address 1723 5, 15t UAKIMA
	LOCATION OF WELL: County YAKIMA	NE 1 SW Sec 29 T. 13 N. R. 19 W.M.
(2a)	STREET ADDDRESS OF WELL (or nearest address) 1505 S.	15 st, U/4kima
(3)	PROPOSED USE: ☐ Domestic   Industrial ☐   Municipal ☐   DeWater   Test Well ☐ Other 🗷	(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION  Formation: Describe by color, character, size of material and structure, and show
(4)	TYPE OF WORK: Owner's number of well (if more than one)	thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.
,	(if more than one)	MATERIAL FROM TO
	Deepened ☐ Cable ☐ Driven ☐	
	Reconditioned	1 1" 211
(5)	brailleter of well miches.	the state of the s
_	Drilledfeet. Depth of completed wellft.	than commental dien
(6)	-	Cottori up pulling PIC
	Casing installed: Diam. from ft. to ft.	sipe up as soring
	Liner installed	Cut // Pipe
	Threaded	off 1/2 feet below ground
	Type of perforator used	
	SIZE of perforations in. by in.	
	perforations fromft. toft.	
	perforations fromft. toft.	
	perforations fromft. toft.	
	Screens: Yes No. Manufacturer's Name	
	Type Model No	
	DiamStot sizefromft. toft.	
	Diam. Slot size from ft. to ft.	
	Gravel packed: Yes No Size of gravel	
	Gravel placed fromft. toft.	
	seal: Yes No To what depth?ft.	TO BEEN WE ON
	Material used in seal	
	Did any strata contain unusable water? Yes No No Depth of strata	10) 1000 1000
	Method of sealing strata off	1 4 5 COM
(7)	PUMP: Manufacturer's Name	GE COOLOGY
	Туре:	DEPARTMENT OF ECOLOGY CENTRAL REGION OFFICE
(8)	WATER LEVELS. Land-surface elevation	OLI TIME
	Static levelft. below top of wellft.	
	Artesian pressure   lbs. per square inch   Date	
	Artesian water is controlled by(Cap, valve, etc.))	Work started 5-11 to Completed 5-11 to 800
	WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 3 - // , 19. Completed 5 - // , 19.8-9
	Was a pump test made? Yes ☐ No ☐ If yes, by whom? Yield:	WELL CONSTRUCTOR CERTIFICATION:
	и и и и и	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
	Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	knowledge and belief.
	Time Water Level Time Water Level Time Water Level	NAME WATER WELLS Iniling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
		Address 5503 Ahtanum Rd.
	Date of test	() (101
J	Bailer test gal./min. with ft. drawdown after hrs.	(Signed) License No. 1435
	Airtest gal./min. with stem set at ft. for hrs.	Contractor's
	Artesian flow g.p.m. Date	No. WATER W 131 N8 Date 5-// 1989
	Tomporature of water	

### WATER WELL REPORT

Application No.

Time copy — Driner's Copy	STATE OF WASHI	NGTON	Permit No.	• • • • • • • • • • • • • • • • • • • •	
(1) OWNER: Name Forts	Addr	150 <b>9</b> So.	17th St. Yakima,	∵a.	
LOCATION OF WELL: County	yakîm	a	¼	3N., R <u>1</u>	9w.м.
(3) PROPOSED USE: Domestic To Industrial Interpreted Interpretation Industrial Industria	Other   Form		or, character, size of mater and the kind and nature of		
(4) TYPE OF WORK: Owner's number of well (if more than one)  New well Method: Dug Deepened Cable Reconditioned Rotary 3	Bored   Tops Driven   Rive	MATE soil er rock, soil,	least one entry for each	FROM  O  3	TO 3
(5) DIMENSIONS: Diameter of well	.6inches. Grav	vel, brown clay vel, grey clay, vel, grewnclay,	, and, water	18 28 55	28 35 52
(6) CONSTRUCTION DETAILS:  Casing installed: "Diam. from	to ft.				
Perforations: Yes ☐ No ☑  Type of perforator used	in. ft. ft.				
Screens: Yes \( \) No \( \beta \)  Manufacturer's Name	to ft. to ft.				
Gravel placed from					
(7) PUMP: Manufacturer's Name	4/11/86	DEPARTMENT OF CENTRAL HEGIS	1986		
Prawdown is amount water lowered below static level lowered below static level lowered below static level lowered; No I fyes, by whom?	hrs. WEI	started 4/9/86  L DRILLER'S Started this well was drilled	, 19 Completed		, 19
Date of test  aller test  decovery data (time taken as zero when pump turned off)  Time Water Level   Time Water Level   Time  Date of test  gal/min. withft. drawdown after	(water level NAM NAM Addr	Fernon L. (Person, fir		_	
rtesian flowg.p.m. Dateg.p.m. Date	hrs.	0854	(Well Driller) 4/12	2/86	., 19

#### WATER WELL REPORT STATE OF WASHINGTON

Application	No.	5	
Permit No.			

- W - 1.	
(1) OWNER: Name FRANK GUTIERREZ	Address 1416 Su. 18th St. VAKiMA, LCA
(2) LOCATION OF WELL:	NEW SWY Sec 29 T/3 N. R. 9 W.M.
1	- N, R WM.
g and distance from section or subdivision corner	31452
(3) PROPOSED USE: Domestic Maintenal Municipal	(10) WELL LOG:
Irrigation □ Test Well □ Other □	
TITISANON - TEST WENT - OUNCE	
(4) TYPE OF WORK: Owner's number of well	stratum penetrated, with at least one entry for each change of formation.
New well ⊸ Method: Dug ☐ Bored ☐	MATERIAL FROM TO
Deepened ☐ Cable ★ Driven ☐	Louides 0 16
Reconditioned [] Rotary [] Jetted []	Luguen Sand 16 23
(F) DIMENGIONG	hard can 23/25
(5) DIMENSIONS: Diameter of well inches.	Alues and 35 35
Drilled 45 ft. Depth of completed well 45 ft.	Gardon 35 36
(6) CONSTRUCTION DETAILS:	King Sand 34 HS
	$\frac{1}{2}$
Casing installed: // Diam. from	7. C.
Threaded	
Welded Manual Melded Me	
Perforations: Yes No. No.	
Type of perforator used	
SIZE of perforations in. by in.	
perforations from ft. to ft.	
perforations from ft. to ft.	
perforations from ft. to ft.	
~ /	
Screens: Yes No No	
Manufacturer's Name	
Type Model No	
Diam Slot size from ft. to ft.	
Diam Slot size from ft. to ft.	
Gravel packed: Yes No. No. Size of gravel:	
Gravel placed from ft. to ft.	
	DECELLED
Surface seal: Yes No Di To what depth?	
Material used in seal Louvito	The Court Visco
Did any strata contain unusable water? Yes \( \scale \) No \( \scale \)	
Type of water? Depth of strata	JUN 1 3 1977
Method of sealing strata off	
(7) PUMP: Manufacturer's Name	DEPARTMENT OF ECOLOGY
Type: HP	CENTRAL REGIONAL DEFICE
Type,	Unit the Interview of the
(8) WATER LEVELS: Land-surface elevation above mean sea levelft.	
Static level 19 ft. below top of well Date 3-12-77	
Artesian pressure	
Artesian water is controlled by(Cap, valve, etc.)	
(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is	
lowered below static level	Work started 3-9, 1977. Completed 3-12, 1977
Was a pump test made? Yes □ No If yes, by whom?	WELL DRILLER'S STATEMENT:
rieid: gai,/min. with ft. drawdown after hrs.	
n n n n	This well was drilled under my jurisdiction and 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)	1 1 7 1 1 7 1
Time Water Level   Time Water Level   Time Water Level	NAME A BACK Del DRIG.
	(Person, firm, or corporation) (Type or print)
	Address 4.0. Dox 48 VAKIMA, WA 989
/ate of test	
Bailer test 15 gal/min, with 15 ft. drawdown after 3 hrs.	[Signed] (Well Driller)
Artesian flowg.p.m. Date	
Temperature of water	License No. 0702 Date 3-18, 19.77
	Total Control of the

## WATER WELL REPORT

Application No.

(1) OWNER: Name Carlos Diaz	. Address 1416 3. Nob Will Yakima, Na
:) LOCATION OF WELL: County.	kima _ 13 ¼ 37 ¼ sec 29 T 15 N, R19 W.M.
Bearing and distance from section or subdivision corner	74
(3) PROPOSED USE: Domestic & Industrial [] Municipal []	(10) WELL LOG:
Irrigation   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
.(4) TYPE OF WORK: Owner's number of well (if more than one)	stratum penetrated, with at least one entry for each change of formation.  MATERIAL FROM TO
New well 🖺 Method: Dug 🗌 Bored 🗆	
Deepened ☐ Cable ☐ Driven ☐  Reconditioned ☐ Rotary 💆 Jetted ☐	Overburden Striver rock 5 22
	3rown clay gravel 22 35
(5) <b>DIMENSIONS:</b> Drilled 50 Depth of completed well	Gravel silt water 35 45
Drilled 29 ft. Depth of completed well ft.	Brown clay gravel 45 48
(6) CONSTRUCTION DETAILS:	Gravel vater 43 50
Casing installed: 6 "Diam. from +1 tt. to 49 ft.	
Threaded []	
Welded 🔯	
Perforations: Yes No K	
Type of perforator used	
SIZE of perforations in, by in,	
perforations from	
perforations fromft. toft.	
Sarane	
Screens: Yes No 街  Manufacturer's Name	
Type Model No	
Diam Slot size from ft. to ft.	
Diam. Slot size from ft, to ft.	
Gravel packed: Yes No 🖔 Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Yes & No   To what depth?20 ft.	
Material used in seal Bentonite	
Did any strata contain unusable water? Yes 🗆 No 街	
Type of water? Depth of strata	
	- REGENVEN
(7) PUMP: Manufacturer's Name	
Type: H.P	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(8) WATER LEVELS: Land-surface elevation above mean sea level	
Static level 14 ft. below top of well Date 1/28/87	
Artesian pressure	DEPARTMENT OF ECOLOGY
Artesian water is controlled by(Cap, valve, etc.)	CENTRAL REGION OFFICE
(9) WELL TESTS: Drawdown is amount water level is	1/20/07
Was a pump test made? Yes \( \begin{array}{ll} No \( \beta \) If yes, by whom?	Work started 1/28/87 Completed 1/28/87 19
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
9 9 9	This well was drilled under my jurisdiction and this report is
n n n	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)	
Time Water Level   Time Water Level   Time Water Level	NAME Vernon L. Rank (Person, firm, or corporation) (Type or print)
	Address 5503 Ahtanum Rd. Yakima, Wa. 98903
Date of hard	11. 1 A h
Date of testgal/min. withft. drawdown afterhrs.	[Signed] (Well Driller)
Artesian flowg.p.m. Date	0854 2/3/97
Temperature of water	License No

## WATER WELL REPORT

Application No.

STATE OF WASHINGTON Permit No. ....

(1) OWNER: Name A. F. WHEELER	Address 1701 DALTON LANE - YAKIMA
(2) LOCATION OF WELL: County YAKIMA	- SE 14 NW4 Sec. 29 T 13 N, R 19 FW.M
aring and distance from section or subdivision corner	N, R././.SW.M
(3) PROPOSED USE: Domestic E Industrial   Municipal	(10) WELL LOG:
Irrigation  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
(4) TYPE OF WORK: Owner's number of well	stratum penetrated, with at least one entry for each change of formation.
New well Method: Dug Bored	MATERIAL FROM TO
Deepened	TOP SOIL (DARK B) O I
Reconditioned [ Rotary [ Jetted [	COMULUMERATE 1 29
(5) DIMENSIONS:  Diameter of well 2" inches.  Depth of completed well 2.9. ft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 2" Diam. from 5 ft. to 29 ft.  Threaded 5 Diam. from ft. to ft.  Welded 7 Diam. from ft. to ft.	) FN
Perforations: Yes   No   No   Type of perforator used   in. by   in.   in.   perforations from   ft. to   ft.	DEIVEN DELL
perforations from	
Screens: Yes \( \) No \( \) Manufacturer's Name.  Type	
Diam.       Slot size       from       ft. to       ft.         Diam.       Slot size       from       ft. to       ft.	
Gravel placed from ft. to ft.	RECEIVED
Surface seal: Yes No D To what depth?	APR 1 5 1976
Did any strata contain unusable water? Yes No Type of water? Depth of strata	DEPARTMENT OF ECOLOGY CENTRAL REGIONAL OFFICE
	CENTRAL REGIONAL OFFICE
(7) PUMP: Manufacturer's Name	
(8) WATER LEVELS: Land-surface elevation above mean sea level. AP 1023 ft. Static level 20 ft. below top of well Date 3-24-76	
Artesian pressure	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level  Was a pump test made? Yes   No X If yes, by whom?	Work started 3-24, 1974 Completed 3-24, 1976
Yield: 10 gal./min. with ft. drawdown after hrs.  "WITH PICTCHER PUMP" "" ""	WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and 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)  Time Water Level   Time Water Level   Time Water Level	NAME JENSENS WELL DRILLING DRIVING (Person, firm, or corporation) (Type or print)
	Address /603 50. /0TH AUE
Date of testgal./min. withft. drawdown afterhrs.	[Signed] (Well Driller)
Temperature of water S Was a chemical analysis made? Yes No	License No. 0218 Date 3-25, 19.76

## WATER WELL REPORT STATE OF WASHINGTON

Application N	10.	
Permit No		

	Terrat No
(1) OWNER: Name Ribaulet BROS.	Address 1609 E, Nob Hill Bu. VAKiMA, WA
LOCATION OF WELL:	- 5E 1/4 MW/4 Sec X1 T/3 N, R 'WM
- using and distance from section or subdivision corner	
	1400 - 344.54 3.44.34
(3) PROPOSED USE: Domestic Tindustrial   Municipal	(10) WELL LOG:
Irrigation   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
(4) TYPE OF WORK: Owner's number of well	stratum penetrated, with at least one entry for each change of formation.
New well   Method: Dug ☐ Bored ☐	MATERIAL FROM TO
Deepened	lioulded 0/16
Reconditioned Rotary Jetted	mour sand 16 28
(5) DIMENSIONS: Diameter of well inches.	Chairle 28 30
Drilled $\mathcal{H}$ ft. Depth of completed well $\mathcal{H}$ ft.	Mui sand 30 37
(6) CONSTRUCTION DETAILS:	J 3173
Casing installed: 10" Diam. from 0 ft. to 18 ft.	
Threaded \( \) \(	
Perforations: Yes 🗆 No 🛭	
Type of perforator used	·
SIZE of perforations in. by in in ft. to ft.	
ft. to ft.	
perforations from ft. to ft.	
Screens: Yes No.27	
Manufacturer's Name	
Type Model No Model No	
Diam. Slot size from ft. to ft.	
Diam. Slot size from ft. to ft.	
Gravel packed: Yes No Size of gravel:	
Gravel placed from ft. to ft.	DECEMEN
Surface seal: Yes No 1 / To what depth?	NEUEIVEU
Material used in seal lancite	
Did any strata contain unusable water? Yes 🗌 No	JUN 1 3 1977
Type of water? Depth of strata	
method of Seating Strata off	DEPARTMENT OF ECOLOGY
(7) PUMP: Manufacturer's Name	CENTRAL REGIONAL SPRICE
Type:	
(8) WATER LEVELS: Land-surface elevation	
static level	
Artesian pressurelbs. 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. 4-11, 1977. Completed. 4-13, 1977
Was a pump test made? Yes \( \sigma\) No \( \subseteq \) If yes, by whom?	WELL DRILLER'S STATEMENT:
Yield: gal./min. with ft. drawdown after hrs.	
n n n	This well was drilled under my jurisdiction and 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)  Time Water Level   Time Water Level   Time Water Level	NAME A Ch We De G (Person, firm, or corporation) (Type or print)
,	Address P. O. Box 48 YAKiMA, WA 9890
Data of Acid	Z0("
Bailer test	[Signed] (Wall Della)
Artesian flowg.p.m. Date	(Well Driller)
Temperature of water Was a chemical analysis made? Yes 🗌 No 🗷	License No. $0702$ Date $4-15$ , 1977

### WATER WELL REPORT

T OF WASHINGTON

Appli	cation	No.	1400	u- '

SIAIL OF		• • • • • • • • • • • • • • • • • • • •	
(1) OWNER: Name Ralph Perry	Address 1902 Sliger Rd. Yakim	a, Wa.	
COUNTY Yakima	SWW NEW SON 29 m	12 7 191	E
aring and distance from section or subdivision corner	T. T. T.	.J3N., R/	.₩.M.
(3) PROPOSED USE: Domestic H Industrial   Municipal	(10) WELL LOG:		<del></del>
(3) PROPOSED USE: Domestic A Industrial Municipal Irrigation Test Well Other			
	Formation: Describe by color, character, size of materic show thickness of aquifers and the kind and nature of strutum penetrated, with at least one entry for each c	the meterial in	anch.
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	7	0
New well  Method: Dug  Bored	Brwon soil	0 3	
Deepened	Cemented gravel	3 30	5
<del></del>	River rock wb	30 40	)
(5) DIMENSIONS: Diameter of well 6 inches.  Drilled 40 Depth of completed well 40 ft.			
Beptil of completed well			· <b>-</b>
(6) CONSTRUCTION DETAILS:		<del>                                     </del>	
Casing installed: 6" Diam. from Q ft. to 3.7 ft.		<del>  </del>	
Threaded [ Diam. from ft. to ft.		<del>                                     </del>	
Welded Diam. from ft. to ft.		<del> </del>	
Perforations: Yes No No		<del>                                     </del>	
Type of perforator used			
SIZE of perforations in. by in. perforations from tt. to ft.			
perforations from ft. to ft.		<del> </del>	
perforations from ft. to ft.		-	
Screens: Yes No Y		<del> </del>	
Manufacturer's Name		<del> </del>	
Type			
Diam. Slot size from ft. to ft.			
Gravel peaked.			
Gravel packed: Yes No Size of gravel: ft.			
		<b> </b> -	
Surface seal: Yes No To what depth? 20 m.			
Material used in sealBentonite_clay  Did any strata contain unusable water? Yes \( \) No \( \)	Drc		
Type of water? Depth of strata		- 1/5	
Method of sealing strata off			<i></i>
(7) PUMP: Manufacturer's Name	nct .	10 1070	
Туре: Н.Р		- 0 10/Q	
(8) WATER LEVELS: Land-surface elevation	DEPARTMENT	- 0: 5:0:00	<del>,</del> ~_
static level 20 ft. below top of well Date 3/23/76	Gelliki is	100	)   <del>}      </del>
Artesian pressurelbs. per square inch Date			
Artesian water is controlled by(Cap, valve, etc.)			<del></del>
9) WELL TESTS:  Drawdown is amount water level is lowered below static level	Work started	3/23/76	·
Was a pump test made? Yes No X If yes, by whom?	WELL DRILLER'S STATEMENT:	, 10	
relate: gai./min. with it. drawdown after hrs.			
0 0 0	This well was drilled under my jurisdiction a true to the best of my knowledge and belief.	and this repor	t 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 B & B Well Drilling	***************************************	•••••
		Type or print)	003
7	Address Rt. 7 Box 600-A Yakima	, wa. 98	y∪2
	_//	•	
Date of test 25 gal/min. with 15 ft. drawdown after 1 hrs.	[Signed] Harry Glack		
rtesian flowg.p.m. Dateg.p.m.	(Weil Driller)	_	
emperature of water	License No. 70037 Date 3/	2.8, 19.	7.6

# WATER WELL REPORT STATE OF WASHINGTON

Application	No.	35/
Darmit No.		

LOCATION OF WELL: County  and additionate from section or subdivision operer  (3) PNOPOSED USE: Demestic # Industrial   Municipal   Trigation   Test Well   Other   Trigation   Test Well   Other   Ot	(1) OWNER: Nameobert urphy	Address 1812 T. Arlington Value To	
The and distance from section or underwinds corner    (3) PROPOSED USE: Domeste   Industrial   Manutopal   Peter Well   Other   Normathon Describe by color, sharped on microria and structure, over the property of the prope	LOCATION OF WELL: County	Taking 277 v 177 v 20 - 1	1.0
(3) PROPOSED USE: Domestre & Industrial   Municipal   Irrigation   Trest Well   Other   Irrigation   Irrigatio	ing and distance from section or subdivision corner	— 11 12 N, RI	<b>-</b> ΩW.M. ∕ -
Cand		(10) WELL LOC.	
A TYPE OF WORK:		<del></del>	
Now well a Matterial moter in section of the preparation from the perforations from fit to fit districtives Name.  Matterial media need fit for fit		show thickness of aquifers and the kind and nature of the mater	icture, and ial in each
New well	(4) TYPE OF WORK: Owner's number of well (if more than one)		<del>,</del>
Reconditioned	E Soited D		<del></del>
(5) DIMENSIONS: Data to provide the performance of well			
Dilameter of weil			
(6) CONSTRUCTION DETAILS:  Casing installed:	Diameter of well Hickes.		
(6) CONSTRUCTION DETAILS:  Casing installed: Diam. from ±1	Drifted 92 it. Depth of completed well 62 ft.		
Threaded	(6) CONSTRUCTION DETAILS:		
Threaded   "Dlam. from ft. to ft. Weided 5" "Dlam. from ft. to ft. Type of perforations from ft. to ft. SIZE of perforations from ft. to ft. Dlam. Slot size from ft. to ft. This was frilled in glam. with ft. drawdown after brest from ft. to ft. Dlam. Slot size from ft. to ft. This was frilled under my jurisdiction and this report is frue to the best of my knowledge and belief. Dlam. Slot size from slot for size from well to fo was leaved level from Slot size from	Casing installed: "Diam from +1 ft to 50 ft		<u> </u>
Welded \$\frac{3}{2}\$ "Diam.from ft. to ft.  Perforations: Yes   No \times in perforations from ft. to ft.	Threaded   Diam. from		<u> </u>
SIZE of perforations in, by in perforations from ft. to ft. to ft. perforations from ft. to ft. plan Slot size from ft. plan Slot size	Welded 🛱 1t. o ft. to ft ft.		<del> </del>
SIZE of perforations in, by in perforations from ft. to ft. to ft. to perforations from ft. to ft. to ft. to perforations from ft. to f	Perforations: Ves Cl. No.Y.		<del> </del>
SIZE of perforations from the total perforations from the perforations from the perforations from the total perforation for the total perforation for the total perforation from the total perforation			<del> </del> -
perforations from ft. to ft. perforations from ft. to ft.	SIZE of perforations in. by in.		<del> </del> -
Screens: Yes   No   Manufacturer's Name.  Type.			<del> </del>
Screens: Yes   No & Manufacturer's Name			<del> </del>
Manufacturer's Name.  Type			T
Type			
Diam			
Gravel packed: Yes   No   Size of gravel:  Gravel placed from   ft. to   ft.    Surface seal: Yes   No   To what depth?   20   ft.    Material used in seal   Did any strata contain unusable water? Yes   No   Type of water?   Depth of strata   Depth of strata   Method of sealing strata off    (7) PUMP: Manufacturer's Name   HP    Type:   HP    (8) WATER LEVELS: Land-surface elevation above mean sea level   ft.   tatic level   25   ft.   below top of well Date   1/17/96    Intresian water is controlled by   (Cap. valve, etc.)    (9) WELL TESTS:   Drawdown is amount water level is lowered below static level   No   Type	Diam Slot size from ft. to ft.		
Gravel placed from ft. to ft.  Surface seal: Yes State of the seal	Diam. Slot size from ft. to ft. to ft.		ļ
Gravel placed from ft. to ft.  Surface seal: Yes State of the seal	Gravel packed: Yes   No Kl Size of gravel		ļ
Surface seal: Yes & No To what depth? 20 ft.  Material used in seal Sentionite  Did any strata contain unusable water? Yes No & Type of water? Depth of strata Method of sealing strata off.  (7) PUMP: Manufacturer's Name  Type: HP.  (8) WATER LEVELS: Land-surface elevation above mean sea level. the static level 2.5 ft. below top of well Date 1-/1-7/96 hartesian pressure bbs. 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  Vas a pump test made? Yes No & If yes, by whom?  Titeld: gal/min. with ft. drawdown after hrs.  """  ""  ""  ""  ""  "This well and under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Vernon L. Rank  (Person, firm, or corporation) (Type or print)  Address.  Sol Ahtanum Rd. Yakima, Wa. 98903  Lilager etc.  Date of test.  Date of test			<u> </u>
Did any strata contain unusable water? Yes No & Type of water? Depth of strata Method of sealing strata off.  (7) PUMP: Manufacturer's Name.  Type: H.P.  (8) WATER LEVELS: Land-surface elevation above mean sea level.  Artesian pressure lbs. per square inch Date.  Artesian water is controlled by.  (Cap, valve, etc.)  (Work started 1/17/36 19. Completed			<u></u>
Did any strata contain unusable water? Yes No S Type of water? Depth of strata.  Method of sealing strata off.  (7) PUMP: Manufacturer's Name.  Type: H.P.  (8) WATER LEVELS: Land-surface elevation above mean sea level.  Artesian water is controlled by.  (Cap, valve, etc.)  (Cap, valve,	Surface Seal: Yes & No To what depth? ft.		<del> </del>
Type of water? Depth of strata Method of sealing strata off.  (7) PUMP: Manufacturer's Name. Type: H.P.  (8) WATER LEVELS: Land-surface elevation above mean sea level. It is above mean sea level. It			<u></u>
Type: H.P.  (8) WATER LEVELS: Land-surface elevation above mean sea level. ft. testic level 2.5 ft. below top of well Date 1/17/86 lbs. per square inch Date Artesian pressure lowered below static level is lowered bel			<del> </del>
Type: H.P.  (8) WATER LEVELS: Land-surface elevation above mean sea level. ft. televel 25 ft. below top of well Date. 1/17/86 lartesian pressure lbs. per square inch Date. Artesian water is controlled by. (Cap. valve, etc.)  (	Method of sealing strata off		† <del>-</del>
Type: H.P.  (8) WATER LEVELS: Land-surface elevation above mean sea level	(7) PUMP: Manufacturer's Name	DEGENVIEWS	
tratic level 25			
tratic level 25	(2) WATED I EVELS. Land-surface elevation		
Artesian pressure	above mean sea levelft.	- IA MAR	
Artesian water is controlled by (Cap, valve, etc.)  (Work started 1/17/86  (Work started 1/17/86  (Well Driller)  (Well Driller)  (Well Driller)  (Well Driller)  (Well Driller)	Artesian pressure		<u> </u>
WELL TESTS: Drawdown is amount water level is lowered below static level  Was a pump test made? Yes \( \) No \( \mathbb{Z} \) If yes, by whom?.  Weld: gal/min. with ft. drawdown after hrs.  """""""""""""""""""""""""""""""""""	Artesian water is controlled by	NEPARTMENT OF	<del></del>
Work started	(Cap, valve, etc.)	CENTRAL REGIO	
WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Vernon L. Rank  Person, firm, or corporation) (Type or print)  Address. 5503 Ahtanum Ref. Yakima, Wa. 98903  Date of test of my knowledge and belief.  Signed] WELL DRILLER'S STATEMENT:  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Vernon L. Rank  (Person, firm, or corporation) (Type or print)  Address. 5503 Ahtanum Ref. Yakima, Wa. 98903  [Signed] Well Driller)  (Well Driller)	(9) WELL TESTS: Drawdown is amount water level is lowered below static level	1/17/86 1/17/86	
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  Time Water Level Time Water Level Time Water Level  Date of test Staller test Digal/min. with ft. drawdown after Stressan flow Stre	Was a pump test made? Yes □ No 🛣 If yes, by whom?	work started, 19 Completed	, 19
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  Time Water Level Time Water Level Time Water Level  Date of test Structure of the structure of the best of my knowledge and belief.  This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  NAME Vernon L. Rank  (Person, firm, or corporation) (Type or print)  Address 5503 Ahtanum Ra. Yakima, Wa. 98903  [Signed] Well Driller)  (Well Driller)		WELL DRILLER'S STATEMENT:	
Date of test saler test 50 gal/min with ft. drawdown after stressan flow g.p.m. Date		This well was drilled under my jurisdiction and this	report is
Time Water Level Time Water Level Time Water Level (Person, firm, or corporation) (Type or print)  Date of test Sailer test 50 gal/min. with ft. drawdown after hrs. crtesian flow g.p.m. Date   Date		true to the best of my knowledge and belief.	
Date of test saler test gal/min. with ft. drawdown after hrs. retesian flow g.p.m. Date (Person, firm, or corporation) (Type or print)  Address 5503 Ahtanum R.f. Yakima, Wa. 98903  [Signed] L. Well Driller)  (Well Driller)  0854  1/18/86	measured from well top to water level) (water level	Vernon I Pank	
Date of test saller test 50 gal/min. with ft. drawdown after hrs. retesian flow g.p.m. Date [Signed] 1/18/86	Time Water Level Time Water Level Time Water Level		int)
Date of test 50 gal/min. with ft. drawdown after hrs. rtesian flow g.p.m. Date [Signed] Uernor L. Rank (Well Driller)		5503 Ahtanum P# Vakima Ua 0000	•
Date of test Signed Sig		Address.	
rtesian flowg.p.m. Dateg.p.m. Date		Ver 1 Da 1	
rtesian flow	Sailer testgal/min. withft. drawdown afterhrs.		
	Artesian flowg.p.m. Date	0854 1/18/86	

#### WATER WELL REPORT

STATE OF WASHINGTON

Application No.

Permit No. ...

(1) OWNER: Name Mrs. Ruby Brooks	Address 1705 Dalton Lane	
· LOCATION OF WELL. Volcino	_ NW ¼ SE ¼ sec 29 T13 N, R 19	W M
	Cairgrounds K	W .W.
(3) PROPOSED USE: Domestic 🖫 Industrial 🗆 Municipal 🗀	(10) WELL LOG:	
Irrigation 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 stratum penetrated, with at least one entry for each change of forma	aach
(4) TYPE OF WORK: Owner's number of well (if more than one)		ō
New well 🥦 Method: Dug 🗌 Bored 🗍  Deepened 🗍 Cable 🗍 Driven 🗍	Gravel and boulders 0 2	0
Reconditioned Rotary L. Jetted		0
(5) DIMENSIONS.		
(5) DIMENSIONS: Diameter of well inches.  Drilled (20) It. Depth of completed well (20) It.		
Diffied		
(6) CONSTRUCTION DETAILS:		
Casing installed: 6" Diam. from 72 ft. to 60 ft.		
Threaded ft. to ft. to ft.		
Welded ft. to ft. to ft. to ft. to ft. to ft.		
Perforations: Yes 🗆 No 🌠		
Type of perforator used		
SIZE of perforations in, by in,		
perforations from ft. to ft		
perforations from		
C		
Screens: Yes   No   No   No   No   No   No   No   N		
Type Model No		
Diam Slot size from ft. to ft.	Static Water level 14 ft.	
Diam Slot size from ft. to ft.	Approx 50 gpm at 60 ft.	
Gravel packed: Yes No M Size of gravel:		
Gravel placed from ft. to ft.		
Surface seal: Yes 1 No   To what depth? 20 + ft.		
Surface seal: Yes of No To what depth? 20 ft.  Material used in seal Beintenite		
Did any strata contain unusable water? Yes No		
Type of water? Depth of strata		
Method of sealing strata off	Control of the Contro	
(7) PUMP: Manufacturer's Name	- 一	
Type: H.P	The state of the s	
(8) WATER LEVELS: Land-surface elevation		
above mean sea lever	<u> </u>	
Static levelft. below top of well Date		
Artesian water is controlled by		
(Cap, valve, etc.)		
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	Work started 6/18/85, 19 Completed 6/19/85, 19	
Was a pump test made? Yes  No  If yes, by whom?		
Yield: 5 Q gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:	
" by "Hir lift " "	This well was drilled under my jurisdiction and this report	rt 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 RIEBE WELL DRILLING	
Time Water Level Time Water Level Time Water Level	NAME TEBE WELL URILLING (Person, firm, or corporation) (Type or print)	•••••
	Address 1503 E. Nob Hill Blvd.	
	Address 1200 E. NOB HILL BIVU.	•••••
Date of test	Colombia A FDS.	
Bailer testgal./min. withft. drawdown afterhrs.	[Signed] (Well Driker)	•••••
Artesian flowg.p.m. Date	- 6/25/05	
Temperature of water Was a chemical analysis made? Yes  No	License No. 0422 Date 6/25/85 19	

## WATER WELL REPORT STATE OF WASHINGTON

Application	No
	554
Permit No.	

(1) OWNER: Name S.M. MILLER	Address 1812 EAST ARLINGTON
(2) LOCATION OF WELL: County YAK'I MA	_ Sw 4 NE 4 Sec. 29 T 13 N, R 19 WM.
ring and distance from section or subdivision corner	The second secon
DDODOGED LICE.	(10) WELL LOG:
(3) PROPOSED USE: Domestic Mainting Municipal Irrigation Test Well Other	
irrigation [] Test went [] 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	TOP SOIL 0 4
Deepened ☐ Cable ☐ <u>Driven X</u> <u>Reco</u> nditioned ☑ Rotary ☐ Jetted ☐	COMBLOMERATE 4 29
(5) DIMENSIONS: Diameter of well inches.  Diameter of well inches.  Depth of completed well 29' ft.	
Drilled ft. Depth of completed well ft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 14 " Diam. from ft. to ft.	
Threaded Diam, from ft. to ft.	
Welded 🛛 " Diam. from ft. to ft.	
Perforations: Yes 🗆 No 🔽	
Type of perforator used	
SIZE of perforations in. by in.	WENT INSIDE L'
	PIPE WITH 1/4" PIPE
perforations from ft. to ft.	PUT BENTONITE IN 2
Screens: Yes No X	INCH PIPE AND DRILLED
Screens: Yes  No 🕅  Manufacturer's Name	THROUGH IT WITH 1/4.
Type Model No	10 29 7-1,
Diam Slot size from ft. to ft.	
Diam Slot size from ft. to ft.	
Gravel packed: Yes No No Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Yes No D To what depth? ft.	
Material used in seal AENTON ITE	
Did any strata contain unusable water? Yes No Type of water? Depth of strata	
Method of sealing strata off	REV 1911
(A) DIMED.	DEPARTMENT OF ECOLOGY  DEPARTMENT THE GIONAL  CENTRAL TREGIONAL
(7) PUMP: Manufacturer's Name	TOF ELOPEFICE
	OTMENTCOUNAL
(8) WATER LEVELS: Land-surface elevation App 1040 et above mean sea level.	DEPARAL REG.
Static level 19 ft. below top of well Date 1-11-77	CENT
Artesian pressurelbs. per square inch Date	l
(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: 5 gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n n n	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Recovery data (time taken as zero when pump turned off) (water level	true to the best of my knowledge and benefi.
measured from well top to water level)	NAME JENSENS WELL DRILLIAL ! DRIVIN
Time Water Level Time Water Level Time Water Level	(Person, firm, or corporation) (Type or print)
	Address 1603 50, 10 TH AUE.
ate of test	(Signed Louise Lansen
r testgal./min. withft. drawdown afterhrs.	(Well Driller)
Artesian flow	License No. 0218 Date 1-28, 1977



## WATER WELL REPORT STATE OF WASHINGTON

	79/
Application	Non
Permit No.	

SIALE OF Y	VASILIVOTON Permit No
(1) OWNER: Name I. A. Sliger	Address 1301 S. 18th St., Yakima, Wakhinag
(2) LOCATION OF WELL: County Yakin	Da
ring 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 material and structure, and show thickness of aquifers and the kind and nature of the material in each
(4) TVPE OF WORK. Owner's number of well	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.
(if more than one)	MATERIAL FROM TO
New well	Soil, Brn. 0 4
Reconditioned Rotary Jetted	Sand, Gravel 4 18
(5) DIMENSIONS: Diameter of well inches.	River rock, Cemented 18 35
Drilled 40 Depth of completed well ft.	River Rock, WB 35 40
(4) GONGEROV PURANCE	
(6) CONSTRUCTION DETAILS:	
Casing installed: 6 "Diam. from 0 ft. to 40 ft.	
Threaded	
Perforations: Yes 🗆 No 🖔	
Type of perforator used	
perforations from ft. to ft.	
perforations from ft. to ft.	
perforations from ft. to ft.	
Screens: Yes 🗆 No 🕱	
Manufacturer's Name	
Diam, Slot size from ft. to ft.	
Diam Slot size from ft. to ft.	
Gravel packed: Yes No X Size of gravel:	DEVELVE
Gravel placed from ft. to ft.	HEUZIVED
Surface seal: Yes No   To what depth? 2.Q ft.	
	JUN 28 1977
Material used in sealbentoniteclay	
Type of water? Depth of strata	DEPARTMENT OF ECOLOGY
Method of sealing strata off	CENTRAL REGIONAL OFFICE
(7) PUMP: Manufacturer's Name	
Type: H.P	
(8) WATER LEVELS: Land-surface elevation above mean sea level	
static level 15 above mean sea level4-7-76 ft. below top of well Date 4-7-76	
Artesian pressurebs. per square inch Date	
Artesian water is controlled by(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Was a pump test made? Yes No 🗗 If yes, by whom?	Work started 4-7-76 , 19 Completed 4-7-76 , 19
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n n	This well was drilled under my jurisdiction and this report is
10 11 19	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)	NAMEB&B Well Drilling
Time Water Level Time Water Level Time Water Level	(Person, firm, or corporation) (Type or print)
	Address Rt. 7. Box. 600-A. Yakima. Wa. 98903
Date of test	[Signed] Hawey Blackman (Well Driller)
Baller test25gal./min. with2Qit, drawdown after1hrs.	[Signed] (Well Driller)
Artesian flowg.p.m. Date	License No. 0037
Temperature of water Was a chemical analysis made? Yes ☐ No 🏝	License No

PROPOSED USE:

Abandoned

Liner installed 
Threaded

Perforations: Yes

Screens: Yes Manufacturer's Name

Gravel placed from\_

Type of water?\_\_

Type:\_

-,,

(8)

(2)

(4)

OWNER: Name Cummins Northwest, Inc.

Domestic

Irrigation

New well XX Method: Dug

☐ DeWater

Drilled 22 feet. Depth of completed well 22

No

\_ perforations from \_

Gravel packed: Yes No X Size of gravel\_

Surface seal: Yes No No To what depth?

Artesian pressure \_\_\_\_\_ lbs. per square inch Date Artesian water is controlled by \_\_\_\_\_

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

-,,

Time

Airtest \_\_\_\_\_ gal./min. with stem set at \_\_\_

Recovery data (time taken as zero when pump turned off) (water level measured

Water Level

\_\_\_ gal./min. with \_\_\_\_\_\_ ft. drawdown after \_\_\_

\_\_\_\_\_g.p.m. Date\_ Temperature of water 60° Was a chemical analysis made? Yes NoX

\_ perforations from \_\_\_

Casing installed: PVC 4 Diam. from 0 ft. to 22

\_\_perforations from \_\_\_\_12\_\_\_\_ft. to\_

Diam. from\_\_\_\_

... from

Land-surface elevation above mean sea level 1,000

\_\_\_\_ft. below top of well Date  $\frac{1}{2}$ 

\_\_\_\_\_ in. by <u>4</u>

Industrial 🗌

Test Well

Cable

Rotary [

ft. to

\_\_\_\_ Model No.\_\_\_

(Cap, valve, etc.))

\_ ft. for \_

\_ft. to\_\_\_

LOCATION OF WELL: County Yakima

(2a) STREET ADDDRESS OF WELL (or nearest address)\_

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

DIMENSIONS: Diameter of well\_

Type of perforator used Saw cut SIZE of perforations 1/8

\_\_\_\_\_ Slot size\_\_\_

Material used in seal <u>Bentonite</u> Did any strata contain unusable water? Yes

(7) PUMP: Manufacturer's Name None

Yield: \_\_\_\_\_ gal./min. with \_\_\_

from well top to water level) Water Level

Date of test.

Diam.\_\_\_\_\_Slot size\_\_

Method of sealing strata off\_

WATER LEVELS: Static level \_\_\_\_\_\_20

CONSTRUCTION DETAILS:

Deepened

Reconditioned

#### WATER WELL REP

STATE OF WASHINGTON

1905 Central Ave.,

Municipal

5

Bored

Driven 🗌

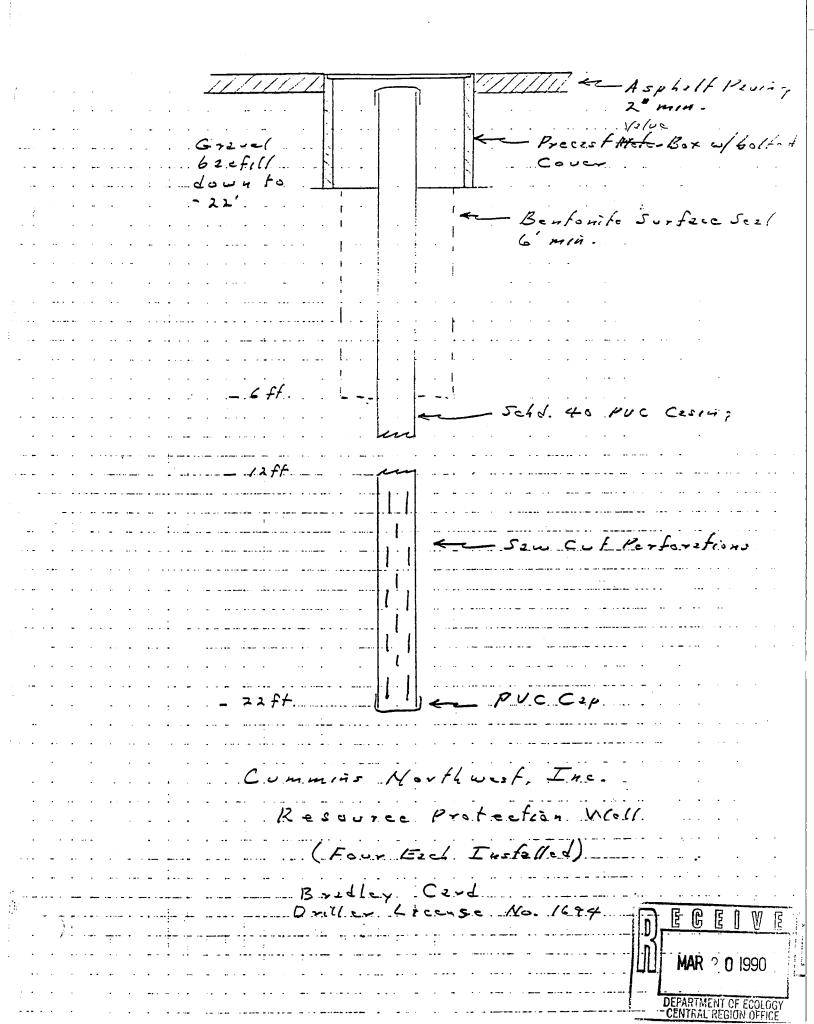
Jetted □

Other

4 E

2817	4	)
L REPORT Start Card No.		
SHINGTON  Water Right Permit No		wareness.
Address 1905 Central Ave., Yakima	, WA	98901
SW _	.3 » s	19
L Ave., Yakima, WA 98901	<u></u>	W.M.
10) WELL LOG or ABANDONMENT PROCEDU	RE DES	CRIPTION
ormation: Describe by color, character, size of material ar nickness of aquifers and the kind and nature of the material in e vith at least one entry for each change of information.	nd structure ach stratun	e, and show n penetrated,
MATERIAL	FROM	то
Gravel backfill	0	22
	<u> </u>	<del> </del>
		!
A-1		-
		<del> </del>
<u> </u>		<del>-</del>
	L .	
,		<u></u>
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	-
		<del></del>
TEPRINE CI	-	
HAD C O IDOO		
UU MAR → 0 1990		
DEPARTMENT OF THE PER		<u> </u>
DEPARTMENT OF ECOLOGY CENTRAL REGION OFFICE		
Work started 1/15 1990ompleted 2/	′15	1090
WELL CONSTRUCTOR CERTIFICATION:		
nos completes	truction of	f this well,
WELL CONSTRUCTOR CERTIFICATION:  I constructed and/or accept responsibility for cons and its compliance with all Washington well cons Materials used and the information reported above	truction or struction are true t	f this well,
WELL CONSTRUCTOR CERTIFICATION:  I constructed and/or accept responsibility for constant its compliance with all Washington well constant its compliance with all Washington well constant its compliance with all Washington well constant its complex series where the constant is constant in the constant its constant in the constant is constant in the constant in the constant is constant in the constant in the constant in the constant in the constant is constant in the constant	truction of struction are true t	f this well, standards. o my best
WELL CONSTRUCTOR CERTIFICATION:  I constructed and/or accept responsibility for constand its compliance with all Washington well constant with the constant of	truction of estruction of estruction are true to the t	f this well, standards. o my best R PRINT)

\_\_\_\_ " Diam. from\_\_\_\_\_\_ft. to\_\_\_\_\_ft. Work started\_\_ WELL TESTS: Drawdown is amount water level is lowered below static level **WELL CONST** I constructed and its com Materials use knowledge ar NAME Bradl Address \_\_112 (Signed) Contractor's Registration none Date 2/27 1990 (USE ADDITIONAL SHEETS IF NECESSARY)





#### STATE OF WASHINGTON

#### DEPARTMENT OF ECOLOGY

3601 W. Washington • Yakima, Washington 98903-1164 • (509) 575-2800

January 25, 1990

Bradley J. Card, P.E. 1120 West Lincoln Avenue Yakima, WA 98902

RE: Resource Protection Well Construction WAC 173-160-550, Variance.

Dear Mr. Card:

This letter is sent with respect to Randy Jackson's January 24, 1990, office conversation concerning a four-well monitoring network at Cummins Northwest, Inc., 1905 Central, Yakima, Washington.

- 1. This variance is granted for the resource protection well network located at the property in the County of Yakima, commonly known as 1905 Central Avenue.
- 2. The work is to be performed by a licensed well driller as set forth by WAC 173-162-040.
- 3. An upper drill hole having a diameter of at least four (4) inches greater than the nominal size of the permanent casing shall be installed to at least six (6) feet below the top of the casing. The annular space between the upper drill hole and the permanent casing shall be filled to the top with cement grout, puddling clay, or bentonite.
- 4. Other requirements of WAC 173-160-550, and specifically those in Sections 1C and 2C aimed at below ground surface completions must be complied with. Special consideration must be given to siting the wells at topographic high points to insure against surface water drainage into the wells or "water-meter covers" provided for the below ground completion.

If you have questions concerning this variance, please contact Randy Jackson at (509) 575-2800.

Sincerely,

Doug Clausing Section Supervisor

Water Resources Program

MAR 2 0 1990

DEFARTMENT OF ECOLOGY
CENTRAL REGION OF SECOLOGY

DC/RJ:gh 901.188 grm2

S F No 7356-OS-(Rev 4-71)

#### WATER WELL REPORT

Application No.

STATE OF WASHINGTON

Third Copy Driller's Copy	STATE OF W	ASHINGTON	P	ermit No		
(1) OWNER: Name Perry Robinson		Address 1512 So	17th #t.	Jaker	na	Un
(2) LOCATION OF WELL: County	4	_		Т	N. R	w M
Rearing and distance from section or subdivision corner	- ·					
) PROPOSED USE: Domestic 译 Industrial [ Irrigation □ Test Well [		(10) WELL LOG: Formation: Describe by a show thickness of aquifer	olor, character, size	e of material (	and struc	ture, and
(4) TYPE OF WORK: Cweer's number of well		stratum penetratea, with	at least one entry	for each cha	nge of f	ormation.
New well A Method: Dug	☐ Bored ☐	MA	TERIAL		FROM	TO
Deepened  Cable	1	1 of Say	omerato		0	<del>3</del> 77-
Reconditioned  Rotary  (5) DIMENSIONS. 2		- cong	on 2 mg	<del></del>		<del>-27</del>
(5) DIMENSIONS: Diameter of well	24 inches.				:	
(6) CONSTRUCTION DETAILS:			1		!	
Casing installed: 2 " Diam. from 0 f	it. to 24 ft.					<del></del>
Threaded Diam. from f	ft. to ft.					
Welded 🖰 ' Diam, from f	t. to ft.			F		
Perforations: Yes 🗆 No 哲			:	r -		
Type of perforator used					1	
SIZE of perforations in. by it. to					<del></del>	
perforations from ft. to				<u>-</u>		
perforations from ft. to	) ft.					
Screens: Yes   No	ļ				<del></del>	
Manufacturer's Name	(					
Diam Slot size from f	1					
Diam Slot size from f	it. to ft.	· · · · · · · · · · · · · · · · · · ·				
Gravel packed: Yes [] No 译 Size of gravel	1: ft.				-	
Surface seal: Yes You To what depth?  Material used in seal  Did any strata contain unusable water?  Type of water?	des □ No □					
Method of sealing strata off						
(7) PUMP: Manufacturer's Name						
(8) WATER LEVELS: Land-surface elevation				<u> </u>		
(8) WATER LEVELS: Land-surface elevation above mean sea level			<del></del>	<del></del>		
Artesian pressurelbs. per square inch Date	e		<del> </del>			
Artesian water is controlled by(Cap, va	live, etc.)					
(9) WELL TESTS: Drawdown is amount water	er level is					
Was a pump test made? Yes \( \text{No} \) If yes, by whom?		Work started 3 - 21	, 19.75. Com	pleted 3	<u>21                                    </u>	, 19.75
Yield: 10 gal./min. with ft. drawdown after	i	WELL DRILLER'S	STATEMENT	Г:		
19 10 11	,,	This well was drill	ed under my jui	risdiction an	d this r	report is
0 0	<del>"</del>	true to the best of my	r knowledge and	i belief.	_	
Recovery data (time taken as zero when pump turned o measured from well top to water level)  Time Water Level   Time Water Level   Time	off) (water level  Water Level	NAME JENSENS (Person	WELL DA	I/LLI'NG	₩ DA	int)
		Address 1603 1	6. 10 th 1		Mens.	,,999
		~ ^	``````````````````````````````````````	0	Marie 1743	merongettet.
ate of test		[Signed] Thousand	e m	Lone	ساعة	
r testgal./min. withg.p.m. ft. drawdown af			(Well D	riller)		
Temperature of water $5$ $\cancel{b}$ . Was a chemical analysis made	e? Yes 🗌 No 🖺	License No. 6 212	) Dat	te		., 19

Permit No. ....

STATE OF WASHINGTON

		ستهسية	1
pplication	No.	***************************************	

(1) OWNER: Name LOY E. REDERSON	Address 1213 So. 18TH STREET YAKINA
(2) LOCATION OF WELL: County Y-1K1, v1A	
aring and distance from section or subdivision corner	
PROPOSED USE: Domestic 🕱 Industrial 🗆 Municipal 🗀	(10) WELL LOG:
Irrigation   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
(4) TYPE OF WORK: Cwner's number of well (if more than one)	stratum penetrated, with at least one entry for each change of formation.  MATERIAL FROM TO
New well 📈 Method: Dug 🗌 Bored 🗍	TOP 201L C 3
Deepened ☐ Cable ☐ Driven 反 Reconditioned ☐ Rotary ☐ Jetted ☐	COMBLOMERATE 3 30
(5) DIMENSIONS: Diameter of well inches.  Drilledft. Depth of completed well ft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 2 "Diam. from D ft. to 70 ft.	
Threaded ft. to ft.	
Welded Welded Diam. from ft. to ft.	
Perforations: Yes No X	
Type of perforator used	
SIZE of perforations in. by in.	
perforations from	
perforations from ft. to ft.	
Screens: Yes   No K	
Manufacturer's Name	
Type Model No	
Diam,	
Gravel placed from No Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Yes X No To what depth? ft.	
Material used in seal. binton it because Court  Did any strata contain unusable water? Yes No No	
Type of water? Depth of strata	DEOETT
Method of sealing strata off	KEULIVED
(7) PUMP: Manufacturer's Name	
Туре:	0CT 28 1975
(8) WATER LEVELS: Land-surface elevation APP 1040 ft.	OFD4 OT445W
above mean sea level	DEPARTMENT OF ECOLOGY CENTRAL RECIONAL OFFICE
Artesian pressurelbs. per square inch Date	CENTRAL REGIONAL OFFICE
Artesian water is controlled by(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is	
lowered below static level	Work started 10-9, 19.75 Completed 10-9, 19.75
Was a pump test made? Yes ☐ No ☐ If yes, by whom?	WELL DRILLER'S STATEMENT:
n n	This well was drilled under my jurisdiction and this report is
n n n	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)	FAISTOLS LITTLE ALL & ALL
Time Water Level Time Water Level Time Water Level	NAME LENSENS WELL DRILLING & DRIVING (Person, firm, or corporation) (Type or print)
	1103 5 1077
	Address 1603 33, 1014 AUE
Date of test	
er testgal./min. withft. drawdown afterhrs.	[Signed] (Well Driller)
esian flowg.p.m. Date	License No. 0218 Date 17 10.75
t'emperature of water	License No UXIX Date 115-17 , 19 75
OK Mas	

S. F. No. 7356—OS—(Rev. 4-71)

#### WATER WELL REPORT

Application	No.	Married L.	(مير
		•	

Permit No. ....

STATE OF WASHINGTON

(1) OWNER: Name Frankley MCAPELL JA	Address
	_ <u>/// /4 /// /4 Sec</u>
Bearing and distance from section or subdivision corner	
(3) PROPOSED USE: Domestic  Industrial  Municipal	(10) WELL LOG:
Irrigation   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 ☐ ☐ ☐ Cable ☐ Driven ☐	6 may 2/ 0 42
Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ② Jetted ☐	
(Z) DYREGRICIONG	
(5) DIMENSIONS: Diameter of well inches.  Drilled ft. Depth of completed well ft.	
Drifted	
(6) CONSTRUCTION DETAILS:	
Casing installed: "Diam. from ft. to ft.	
Threaded []	
Welded 🖸 Time. I Diam. from ft. to ft.	
Perforations: Yes ☐ No []	
Type of perforator used	
SIZE of perforations in. by in.	
perforations from ft. to ft	
perforations from ft. to ft.	
Screens: Yes   No   S	
Manufacturer's Name	
Type Model No Model No	
Diam Slot size from ft. to ft.	
Diam.' Slot size from ft. to ft. to ft.	
Gravel packed: Yes No D Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Yes No To what depth? ft.  Material used in seal 221716748	
Did any strata contain unusable water? Yes No 🗇	
Type of water? Depth of strata	
Method of sealing strata off	300
(7) PUMP: Manufacturer's Name	2262
Type:	
(8) WATER LEVELS: Land-surface elevation	
above mean sea level	
Artesian pressure	
Artesian water is controlled by(Cap, valve, etc.)	
lowered below static level	Work started 3/3 1952 Completed 5/3 1952
Was a pump test made? Yes \( \) No \( \) If yes, by whom? With \( \) Yield: \( \) gal./min. with \( \) ft. drawdown after \( \) hrs.	WELL DRILLER'S STATEMENT:
n n n	This well was drilled under my jurisdiction and this report is
n n n n	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 Poulin & MeGuire Drilling
Time Water Level Time Water Level Time Water Level	(Person, firm, or corporation) (Type or print)
	Address ( ) 3 / (CX 3 3 / ( )
	I my
Date of test	[Signed] Com III Jun
Bailer testgal./min. withft. drawdown afterhrs.	(Well Driller)
Artesian flowg.p.m. Dateg.p.m. Date	License No. 0357 Date S/S , 19X3

### WATER WELL REPORT STATE OF WASHINGTON

Application	No.	
		and the same
		Carlot Street

3

	Territor No
(1) OWNER: Name Bill Amick Yakima Speedwo	a WAddress 1600 Pacific Yakima 98901
(2) LOCATION OF WELL: County Yakima	
Pearing and distance from section or subdivision corner	
PROPOSED USE: Domestic   Industrial   Municipal	(10) WELL LOG:
Property Irrigation   Test Well   Other	Formation: Describe hy color, character size of material and structure, and
(4) TYPE OF WORK: Owner's number of well	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.
(ir impre than one)	Top Soil MATERIAL FROM TO
New well Method: Dug Dered Deepened Cable Driven	
Reconditioned [ Rotary [ Jetted [	Conglomerate with large
(5) DIMENSIONS: Diameter of well linches	boulders 0 -
Drilledft. Depth of completed well	
(6) CONSTRUCTION DETAILS:	
in the contract of the contrac	
Casing installed: 2 " Diam. from 0 ft. to 20 ½ ft.  Threaded □ "Diam. from ft. to ft. to ft. to ft.	
Welded □	
Perforations: Yes   No X	
Perforations: Yes No No Type of perforator used	
SIZE of perforations in, by in,	
perforations from ft. to ft.	
perforations from ft. to ft	
Concerns	
Screens: Yes No K	
Type Model No	
Diam Slot size from ft. to ft.	
Diam Slot size from ft, to ft,	
Gravel packed: Yes 🗆 No 🏗 Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Yes \ No \ To what depth? 6 ft.	
Material used in seal Cement Grout  Did any strata contain unusable water? Yes No	
Type of water? Depth of strata	
Method of sealing strata off	
(7) PUMP: Manufacturer's Name	
Туре: Н.Р	
(8) WATER LEVELS: Land-surface elevation 1020 above mean sea level	
static level 4. ft. below top of well Date 6/21/74.	
Artesian pressure	
Artesian water is controlled by(Cap, valve, etc.)	
lowered below static level	Work started 6/21 19.74 Completed 6/21 19.74
Was a pump test made? Yes No If yes, by whom?	WELL DRILLER'S STATEMENT:
0 0 n n	This well was drilled under my jurisdiction and 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)	The state of the s
Time Water Level   Time Water Level   Time Water Level	NAME Jensens Well Drilling & Driving (Person, firm, or corporation) (Type or print)
	Address 1603 South 10th Avenue Yakima 98
`ate of test	[Signed] & larence, M. Jensen
r testgal./min, withft. drawdown afterhrs.	(Well Driller)
Artesian flow	License No. 0218 Date 7/22 19 74

### WATER WELL REPORT

Application	No.	
77 /4 37		

3

Time Copy — Diffici S Copy	STATE OF V	VASHINGTON		Permit N	o	: 
(1) OWNER: Name Bill Amick Yakin	na Speedw	ay 1600	Pacific	Yakima	98901	
(2) LOCATION OF WELL: County Yakima	ì		1/14 1/	4 Sec. 29	13 <sub>N B</sub>	19E <sub>M</sub>
Praying and distance from section or subdivision corner			18 18 17			Û
eautify Property   Domestic   Industrial	–	(10) WELL L	OG:			
Trigution   Test Will	Other [	Formation: Describe show thickness of a stratum penetrated,				
(4) TYPE OF WORK: Owner's number of well (if more than one)			MATERIAL		FROM	TO
New well X Method: Dug  Deepened □ Cable	☐ Bored ☐ ☐ ☐ Driven ☐	Top Soil	None			
Reconditioned  Rotary	_	Conglomer	ate with	large		
(5) DIMENSIONS: Diameter of well	>		rocks		0	-
Drilledft. Depth of completed well	20 ft.		·			<del> </del>
(6) CONSTRUCTION DETAILS:						
Casing installed: Diam. from ft	20 ft			<del></del>		
Threaded []ft						<u> </u>
Welded [] '' Diam. from ft	. to ft.	<del></del>	<del></del>			<del> </del>
Perforations: Yes No H						<del> </del>
Type of perforator used				:		<del> </del>
SIZE of perforations in. by						+
perforations from ft. to perforations from ft. to						1
perforations from ft. to						<del>                                     </del>
Screens: Yes No K						
Screens: Yes No 🔁  Manufacturer's Name	*					
Type Model No.		<del></del>				ļ <u> </u>
Diam Slot size from ft						<del> </del>
Diam Slot size from ft	. to ft.					<del> </del>
Gravel packed: Yes   No A Size of gravel:						<del> </del>
Gravel placed from ft. to ft. to	ft.					
	6 ft.					
Material used in seal	es 🗆 No 🗀 .			- '		<del> </del>
Type of water? Depth of strata.						<del> </del> -
Method of sealing strata off						
(7) PUMP: Manufacturer's Name						
Type: F	1.P					
(8) WATER LEVELS: Land-surface elevation above mean sea level	1020 <sub>ft</sub>					ļ
above mean sea level  Static levelft. below top of well Date.						<del> </del>
Artesian pressurelbs. per square inch Date.			<del></del>	<del></del>		<del> </del>
Artesian water is controlled by(Cap. valv						<del>  '</del>
						<del> </del>
(9) WELL TESTS: Drawdown is amount water lowered below static level	level is	Work started 6/2	1 1974	Completed	6/24	10 74
Was a pump test made? Yes No If yes, by whom?  Yield: 25 gal./min. with ft. drawdown after	_ [	WELL DRILLI			***************************************	, 131
Yield: 2) gal./min. with ft. drawdown after	hrs.					
n n	"	This well was true to the best of	drilled under of my knowled	my jurisdiction	n and this	report is
Recovery data (time taken as zero when pump turned off measured from well top to water level)				Drilling		ing
Time Water Level Time Water Level Time	Water Level	(P	erson, firm, or o		(Type or p	
		1603 Address	So. 10th	Ave Is	kima	98902
		$\sim$ $\wedge$	Υ		***************************************	·
Date of test		[Signed ]	nenee V	W He	مد جمده	
t testgal./min. withft. drawdown after		المراجعة المستعددا	។ ន	(Well Driller	, , /22	
Artesian flowg.p.m. Date		License No	<b>T</b> O	N-4-	166	12
remperature of water was a chemical analysis made?	xes ∐ No ∐	License No		Date		, 19

Application	No.	45
-------------	-----	----

STATE OF WASHINGTON Permit No. ... (1) OWNER: Name Line P. Moser Address 1537 So. Joth Ave Yaking (2) LOCATION OF WELL: County Yakima \_\_\_\_\_ E.u. y sec 29 T 13 N R 10 W.M. ing and distance from section or subdivision corner (10) WELL LOG: (3) PROPOSED USE: Domestic 💢 Industrial 🗆 Municipal 🗆 Irrigation ☐ 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 Method: Dug New well Bored [ Top Soil Deepened Cable [ Driven 🗗 Conglomerate - Hard to Harder 15 Reconditioned [ Jetted [ Conglomerate - Softer 21 Diameter of well .....2 (5) DIMENSIONS: Drilled ft. Depth of completed well ff Conglomerate - Real Soft Conglomerate - Soft Conglomerate - Harder to (6) CONSTRUCTION DETAILS: Real Hard ...... ft. to ..... ft. Threaded [ ...... ft. to ..... ft. Welded A Perforations: Yes 🗆 No 🗆 Type of perforator used..... SIZE of perforations ...... in. by ..... in. ..... perforations from ...... ft. to ..... ft. ..... perforations from ...... ft. to ..... ft. ..... perforations from ..... ft. to ..... ft. Screens: Yes | No | Manufacturer's Name..... Type...... Model No. Diam. ..... Slot size ..... from ..... ft. to ..... ft. Diam. ..... Slot size ..... from ..... ft. to ..... ft. Gravel packed: Yes No No Size of gravel: Gravel placed from ...... ft. to ..... ft. Surface seal: Yes I No To what depth? \_\_\_\_\_ ft.

Material used in seal Dentonite & Cement Gro DEPA Did any strata contain unusable water? Yes Type of water?..... Depth of strata.... Method of sealing strata off..... (7) PUMP: Manufacturer's Name..... (8) WATER LEVELS: Static level ..... ...ft. below top of well Date...... Artesian pressure ......lbs. per square inch Date.... Artesian water is controlled by..... (Cap, valve, etc.) Drawdown is amount water level is loweped below static level (9) WELL TESTS: Work started 3/28 74 Completed..... Was a pump test made? Yes \( \simega \) No \( \backslash \) If yes, by whom?..... Yield: 10 gal./min. with WELL DRILLER'S STATEMENT: ft. drawdown after hrs. ,, 1) This well was drilled under my jurisdiction and 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) Jensens Well Drilling & Driving Water Level | Time Water Level | Time Water Level (Person, firm, or corporation) (Type or print) 1603 So. 10th Ave. Yakima. [Signed] & Bailer test......gal./min. with.....ft. drawdown after..... 0218 .. Date.....

(USE ADDITIONAL SHEETS IF NECESSARY)

STATE OF WASHINGTON

	Application No.	
	7/	
_	Permit No.	

(1) OWNER: Name 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/			
			10
(2) LOCATION OF WELL: County /A/4///	SW/4 SE 1/2 NW. Sec 29 T/	3n., r/	<b></b>
aring and distance from section or subdivision corner			<del></del>
PROPOSED USE: Domestic   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	l and stru the materi hange of	cture, and al in each
(4) TYPE OF WORK: Owner's number of well (if more than one)	MATERIAL	FROM	то
New well	ERAULL SAMUELLT LOCKE	(2)	12
Reconditioned Rotary Jetted	CONGLUMICHATE GRAV	1:1	1/2 :
(5) DIMENSIONS: Diameter of well / ( inches	CAPUEL, BULLDENS, SIND CONS.	335	441
Dimensions: Diameter of well inches.  Drilled 7	CONCULTIFICANTE, CHAY, COMEST	(19	75
	GANGLING KATH TAN CLARSE	70	153
(6) CONSTRUCTION DETAILS:	CONCLUMINATE GIRKY	1/53	187
Casing installed: / "Diam. from 1 tt. to 35 tt.	CONGLORIDATION TRUISIT	1/3//	3,4
Threaded	CONGULIARITY, BECOME HAM	311	34:
Welded ☑	Chil Brown STONEY	360	3.1
Perforations: Yes 1 No 1 No 1 Affect F  Type of perforator used   Pill   S/CT (Affect F)	CLAN GRAY STICKEN	7:1	2/1/2:
	CHANE, CREEN IL	451	(16/1
SIZE of perforations in. by in.	CHALIF GEBERY STICKING WITH		
perforations from ft. to ft.	PhA CRAIRE	K1611	4.4
perforations from ft. to ft.	GRAPHER SHALF, GREKKIN,		
Screens: Yes No [2]	LOGSE, SCHE WATER	6-15-61	455
Manufacturer's Name	SAMO, GRAVEL 100513	4/55-	(15. (
Type Model No	SHALIE, GREEN, STATE GRAVILL	456	475
Diam. Slot size from ft. to ft.	CONCECTICANTI DARIS CRAY	4180	6/30
Diam. Slot size from ft. to ft.	SHALIF, GRIFFIN, S. CANUIL	5/7	517
Gravel packed: Yes No No Size of gravel:	CONGLIMERATE, DURK GRAVA	523	541
Gravel placed from ft. to ft.	CLAY, BROWN STICKY	541	56/4
Surface seal: Yes No D To what depth? 25 t ft.	CCHCUMIRATILL. BROWN	545	556
Material used in seal.	CLAY, BACKUH STICKY	556	BOX
Did any strata contain unusable water? Yes \( \Bar{\text{P}} \) No \( \Bar{\text{P}} \)	CURCLUMERATIE, GRAY	CCX	632
Type of water? Depth of strata  Method of sealing strata off	SAND, COARSIE, WITH SHALL	4 - 3	· ·
	GRAVIL (WHTER)	632	6.35
(7) PUMP: Manufacturer's Name	CAILLED APPROL LOCALY	<del> </del>	<u> </u>
Туре: н.Р.	CONGLUMRENTE TANIFICHE	635	644
(8) WATER LEVELS: Land-surface elevation above mean sea level	CONSCIPLICATION TANDITICALE	6.25	644
Static levelft. below top of well Date	85+ GPM FRUM 15/FT STAILS (1)	6114	655
Artesian pressure 15 lbs. per square inch Date 16-16-72	CONCLUMISHING. CLEUH AND		
(Cap, valve, etc.)	SILFED AREAS INTERMITTENT STAD	YC	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	I HERRHYAD CRADUALLYTA ICOGPITION	655	690
Was a pump test made? Yes No I If yes, by whom? FCSSRENS	Work started / / / 19 75. Completed / C	.29	<u>_, 19.75</u>
Yield: LIQC gal./min. with LIC ft. drawdown after A 2 hrs.	WELL DRILLER'S STATEMENT:		~ · · · · · · · · · · · · · · · · · · ·
" (95 " 151 " 3 "	CONGCOUNTERATION THIS HEAVEN SI This well was drilled under my jurisdiction a	LT 69	report is
"550 " 136 " 4 "	true to the best of my knowledge and belief.		ichort m
Recovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	01CS 21 1 511 01	2///	111/
Time Water Level Time Water Level Time Water Level	NAME (ASS/2/ W/Z/L/)/R (Person, firm, or corporation) (7)	Type or pr	int)
110	1 · · · · · · · · · · · · · · · · · · ·	/// A= 4	
<del>5:00 136</del>	Address 308 UORLKIER GA	4117/	<u>, UN</u>
20		.0	
est gal/min, with ft, drawdown after hrs.	[Signed] (Well Driller)		
Artesian flowg.p.m. Date		1	
Temperature of water. Was a chemical analysis made? Yes No	License No. O.C. / S. Date //-	<u> </u>	, 19
OL MA 148	•	٠	
S. F. No. 7356—OS—(Rev. 4-71).	HEETS IF NECESSARY)		· · · · · · ·
/ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\			-

	Ala	
Application	No	

STATE OF	WASHINGTON Bermit No.
(1) OWNER: Name DAVID E. JOHNSTON	Address 508 5, 77" AUE
(21 LOCATION OF WELL: County YAKIMA	_ Sw4 3w4 Sec 29 T/3 N R 19 W
ag and distance from section or subdivision corner	
(3) PROPOSED USE: Domestic ☑ Industrial □ Municipal □	(10) WELL LOG:
Irrigation   Test Well   Other	show thickness of activities, character, size of material and structure, and
(4) TYPE OF WORK: Owner's number of well (if more than one)	stratum penetrated, with at least one entry for each change of formation
New Well 💆 Method: Dug 🗌 Bored 🗍	MATERIAL FROM TO
Deepened Cable Driven	
Reconditioned Rotary Jetted	COMBLEMERATE 1/2 30
(5) DIMENSIONS: Diameter of well inches.	
Drilledft. Depth of completed wellft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 2 "Diam. from 0 ft. to 30 ft.	
Threaded	
Perforations: Yes   No	
Type of perforator used	
SIZE of perforations	
perforations from ft. to ft.	
perforations from ft. to ft.	
Screens: Yes No M	
Manufacturer's Name	
Type Model No Model No	
Diam Slot size from ft. to ft	WELL 15
Diam. Slot size from ft. to ft.	
Gravel packed: Yes   No X Size of gravel:	AT 1115 SIMPSON
Gravel placed fromft. toft.	
	LANE.
Surface seal: Yes \( \text{No} \) To what depth? 6 ft.  Material used in seal \( \text{ENTONITE } \) CEMENT GROUT	
Did any strata contain unusalla and	
Type of water? Depth of strata	DEVELVED
Method of sealing strata off	TEUEIVEU
(7) PUMP: Manufacturer's Name	1070
Type: H.P.	
	OFDARTSENT OF TOOLS
8) WATER LEVELS: Land-surface elevation above mean sea level. App. 1030 st.	DEPARTMENT OF ECOLOGY
tatic levelft. below top of well Date 10-18-7(	CENTIAL REGIONAL OFFICE
Artesian water is controlled by(Cap, valve, etc.)	
9) WELL TESTS:  Drawdown is amount water level is lowered below static level  No M If yes, by whom?	Work started /0-27 , 19.74. Completed /0-28 , 19.74
ield: /O gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n n	
n n n	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
ecovery data (time taken as zero when pump turned off) (water level measured from well top to water level)	/ montouge and better.
Time Water Level   Time Water Level   Time Water Level	NAME JENSEN'S WELL DRILLING ! DRIVIN
Time water Level	(Person, firm, or corporation) (Type or print)
	Address 1603 So. 10 TH AVE.
,	
Date of test	[Signed] I love to the second
iter test gal./min. with ft. drawdown after hrs.	[Signed] (Well Driller)
mperature of water 58 Was a chemical analysis made? Yes No 🕱	
No X	License No. 02/8 Date 11-30 1976

### WATER WELL REPORT STATE OF WASHINGTON

Application	No.	49
		/

Permit No. ... (1) OWNER: Name GLENN M. WARD Address 705 W. PEAR AUE. (2) LOCATION OF WELL: County YAKIMA Sw 14 Sec 29 T /3 N, R 19 WM ing and distance from section or subdivision corner (3) PROPOSED USE: Domestic 🕱 Industrial 🗆 Municipal 🗆 (10) WELL LOG: Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation. Irrigation ☐ Test Well ☐ Other (4) TYPE OF WORK: Owner's number of well (if more than one)..... MATERIAL FROM New well Method: Dug Bored | TOP SOIL (MED B.) EASY Driven 🔀 Deepened Cable 🗌 COMGLOMERATE 11 Reconditioned [ Rotary [ Jetted [ 2 i, (5) DIMENSIONS: Diameter of well 2 Drilled ft. Depth of completed well 26 ft. (6) CONSTRUCTION DETAILS: Casing installed: 2 "Diam. from C ft. to 25 10" ft. ...... ft. to ..... ft. Threaded [ Welded 🙀 ..... 17 Diam. from ...... ft. to ..... ft. Perforations: Yes 🗆 No 🔀 Type of perforator used..... SIZE of perforations ..... in. by ..... in. ..... perforations from ...... ft. to ..... ft. ..... perforations from ...... ft. to ..... ft. ..... perforations from ...... ft. to ...... ft. FRED MEJERS Screens: Yes | No | Manufacturer's Name..... ...... Model No...... (N) Diam. ..... Slot size ..... from ..... ft. to ..... ft. Diam. ..... Slot size ..... from ..... ft. to ..... ft. Gravel packed: Yes | No | Size of gravel: ..... Gravel placed from ...... ft. to ..... ft. Surface seal: Yes No | To what depth? \_\_\_\_\_ Material used in seal SENTOVITE & CEMENT GROVT Did any strata contain unusable water? Yes Type of water?..... Depth of strata..... Method of sealing strata off..... (7) PUMP: Manufacturer's Name..... Type: ...... H.P..... Land-surface elevation APP. 1020 ft. (8) WATER LEVELS: Static level 4 ft. below top of well Date 11-6-79 Artesian pressure ......lbs. per square inch Date..... Artesian water is controlled by..... (Cap, valve, etc.) Drawdown is amount water level is lowered below static level (9) WELL TESTS: 11-6 , 19 79 Completed 11-6 Work started..... Was a pump test made? Yes [] No [Y If yes, by whom?...... Yield: / 0 gal./min. with ft, drawdown after WELL DRILLER'S STATEMENT: \*\* This well was drilled under my jurisdiction and 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 JENSENS WELL DRILLING (Person, firm, or corporation) Water Level | Time Water Level | Time (Type or print) 1603 50. (Well Driller) [Signed]... ler test......gal./min. with.....ft. drawdown after.....hrs. .....g.p.m. Date..... 0218 Date 11-23, 1979

#### WATER WELL REPORT

STATE	OF	WASHINGTON	n <sub>o</sub>
~	~_	" AND ALL TO LOT	Pe

Application No.

Permit No. ....

(1) OWNER: Name Harry Stotsenburg	Address 1725 Jo. 1st st. Mckima, Wa.
2) LOCATION OF WELL: County Yakina	_ 1.3 14 51 14 Seg 29 T 15 N, RLS W
Bearing and distance from section or subdivision corner	Y See 2. T. S. N., RLY W.
/0\ PROPOGER	(10) WELL LOG
	(10) WELL LOG:
(4) TYPE OF WORK. Owner's number of well	Formation: Describe by color, character, size of material and structure, a show thickness of aquifers and the kind and nature of the material in eastratum penetrated, with at least one entry for each change of formatic
(if more than one)  New well ☐ Method: Dug ☐ Bored ☐	MATERIAL FROM TO
Deepened Cable Driven	Overburgen river rock 0 15
Reconditioned Rotary 5 Jetted	Gravel * Water 15 16
(5) DIMENSIONS: Diameter of well 6	Sand, gravel, a water 16 48
Drilled 50 Depth of completed well 50 ft.	Coarse gravel 1 water 43 50
(6) CONSTRUCTION DETAILS:	
Casing installed: 6 Diam. from +1 ft. to 50 ft.	
Threaded [ "Diam. from ft. to ft. Welded 1 Diam. from ft. to ft.	
Welded 🛅 ft. to ft.	
Perforations: Yes 🗆 No 🛭	
Type of perforator used	
SIZE of perforations in, by in.	
perforations from	
perforations from	
Screens: Yes □ No 🛱	
Manufacturer's Name	
Diam. Slot size from ft. to ft.	
Diam Slot size from ft. to ft.	
Gravel packed: Yes No Size of gravel:	
Surface seal: Yes M No To what depth? 20 ft.  Material used in seal Bentonite	
Did any strata contain unusable water? Yes No 🗷	
Type of water? Depth of strata	
Method of sealing strata off	A CONTRACTOR OF THE CONTRACTOR
(7) PIIMP	
(7) PUMP: Manufacturer's Name	13
T. P. T.	SED SIGNS
(8) WATER LEVELS: Land-surface elevation above mean sea levelft.	- 1000
Static level 50 / ft. below top of well Date 8/5/85	
Artesian pressurelbs. per square inch Date	DEPARTMENT OF SUGLOGY
Artesian water is controlled by(Cap, valve, etc.)	CENTRAL AEGION OF CE
(9) WELL TESTS: Drawdown is amount water level is	
lowered below static level	8/5/85 8/5/85 Work started, 19 Completed
Was a pump test made? Yes   No 1 If yes, by whom? Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
richt: gai/min. With ft. drawdown after hrs.	
n n n n	This well was drilled under my jurisdiction and this report i true to the best of my knowledge and belief.
Recovery data (time taken as zero when pump turned off) (water level	and benefit
measured from well top to water level)	NAME Vernon L Rank
Time Water Level Time Water Level Time Water Level	(Person, firm, or corporation) (Type or print)
	Address 5503 Ahtanum Rd. Yakima, Wa. 98903
7	All
Date of test	I all of D h
Baller test50gal./min. withft. drawdown afterhrs.	[Signed] (Well Driller)
Artesian flowg.p.m. Date	8/13/85
Temperature of water Was a chemical analysis made? Yes 🗆 Nox🏳	License No

### WATER WELL REPORT

Start Card No. 010242

STATE OF WASHINGTON

		Water Hight Permit No.
'1)	OWNER: Name Harry Stotensberg	Address 1723 S. 1st, Yakima, Wa.
(2)	LOCATION OF WELL: County Yakima	- NE % SV % Sec 29 T.13 N. R.19 WM.
(2a)	1505 7 15	· · · · · · · · · · · · · · · · · · ·
(3)	PROPOSED USE:  ☐ Irrigation ☐ DeWater	(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION
(4)	TYPE OF WORK, Owner's number of well	Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of information.
` '	(II more than one)	MATERIAL FROM TO
	Deepened 🗌 Cable 🗀 Driven 🗆	Overburden river rock 0 18
	Reconditioned 🗆 Rotary 🕅 Jetted 🗆	River rock, gravel, water 18 25
(5)	DIMENSIONS: Diameter of well 6 inches.	Sand gravel & clay 25 35
	Drilled 53 feet. Depth of completed well 53 ft.	Coarse gravel, rock * water 35 53
(6)	CONSTRUCTION DETAILS:	
(-,	Casing installed: 6 · Diam. from +1 ft. to 52 ft.	
	Welded	
	Liner installed Threaded Diam. from ft. to ft.	
	Perforations: Yes No X	
	Type of perforator used	
	SIZE of perforations in, by in.	
	perforations fromft. toft.	
	perforations from ft. to ft.	
	perforations fromft. toft.	
	Screens: Yes No X	
	Manufacturer's Name	
	Type Model No	
	Diam	
	DiamSlot size	
	Gravel packed: Yes No 3 Size of gravel	
	Gravel placed from ft. to ft.	
	Surface seal: Yes No To what depth? 18 ft.  Material used in seal Bentonite	
	Did any strata contain unusable water? Yes No 🔀	
	Type of water? Depth of strata	TO EREIVE COL
	Method of sealing strata off	DEGENVESON
(7)	PUMP: Manufacturer's Name	
	Type: H.P.	
<del></del>	WATER LEVELS: Land-surface elevation	
(0)	Static level	DEPORTACING OF ECOLOGY
	Artesian pressure	CENTRAL REGION DEGLE
	Artesian water is controlled by(Cap, valve, etc.))	
(9)		Work started 12/21/8819. Completed 12/21/88 , 19
(3)	Was a pump test made? Yes No If yes, by whom?	WELL CONSTRUCTOR OFFICIATION
	Yield: gal./min. with ft. drawdown after hrs.	WELL CONSTRUCTOR CERTIFICATION:
	n n	I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards.
	December date (time taken on your whole gump turned off) (weter level measured	Materials used and the information reported above are true to my best knowledge and belief.
	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	NAMEWater Wells Drilling
		(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
		Address 5503 Ahtanum Rd. Yakima, Wa.
	Date of test	1 De la constante de la consta
	Bailer test gal./min. with ft. drawdown after hrs.	(Signed) Krown J. Kanff License No. 0854
	Airtest $100$ gal./min. with stem set at $50$ ft. for $1$ hrs.	Contractor's Registration
	Artesian flow g.p.m. Date	No. WATERW*131N8 Date 12/21/88 , 19
	Temperature of water Was a chemical analysis made? Yes No 🗷	(USE ADDITIONAL SHEETS IF NECESSARY)

### WATER WELL REPORT STATE OF WASHINGTON

	/		
Anntinution	v. /	7.0% Sec. 1	
Application	No. /		

(1) OWNER	Permit No
(1) OWNER: Name Lawrence Mosir	Address
OCATION OF WELL: County /a/1/m/4	-/146 14 SE 14 Sed 9 T/3 N. R/4 W
corner and distance from section or subdivision corner	
(3) PROPOSED USE: Domestic Industrial I Municipal I	(10) WELL LOG:
Irrigation [ Test Well [ Other [	Formation: Describe by color, character, size of material and structure, a show thickness of aquifers and the kind and nature of the material in ea
(4) TYPE OF WORK: Owner's number of well	show thickness of aquifers and the kind and nature of the material in ea stratum penetrated, with at least one entry for each change of formation
(if more man one)	MATERIAL FROM TO
New well	TOP SOIL 01
Reconditioned [ Rotary [ Jetted [	
(5) DIMENSIONS: Diameter of well inches.	Grave, 1111 16
Drilled 9.5 ft. Depth of completed well 9.5 ft.	Backle obs Cardelan
	Bouldiers, Colliss G 40
(6) CONSTRUCTION DETAILS:	9/4/4
Casing installed: 8 "Diam. from 7/ ft. to 68 ft.  Threaded   Diam. from 7/ ft. to 92 ft.	Gravel, Sand, SILT LIO 6'
Welded Diam. from	NAPYCLU COMO A
	SILT 1-04505 56-58
Perforations: Yes No	
Type of perforator used	Colles, qual 62 74
perforations from ft. to ft.	Comularan
perforations from ft. to ft	al narrow Grown
	Clay & SILT / DULCE
Screens: Yes No 🗆	hard 74 9'
Manufacturer's Name	
Diam Slot size from ft. to ft.	grave, w/ brown
Diam. Slot size from ft. to ft.	- Sand, water 92 95
Gravel packed: Yes No   Size of gravel:	
Gravel placed from ft. to ft.	MEGISIWIE
Surface seal: Yes No D To what depth? 74+ ft.	
Material used in seal Bentonite	
Did any strata contain unusable water? Yes [] No []	AL 30 REC
Type of water? Depth of strata	
	DEPARTMENT OF FLATES
(7) PUMP: Manufacturer's Name	No GC added
Type:	Oder
(8) WATER LEVELS: Land-surface elevation above mean sea levelft.	
Static levelft. below top of well Date	
Artesian pressurelbs. per square inch Date	
(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is lowered below static level	<u> </u>
Was a pump test made? Yes 🗌 No 🗍 If yes, by whom?	Work started 5 7 19.8 Completed 5 2 0 19.8
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n n	This well was drilled under my jurisdiction and this report
Recovery data (time taken as zero when pump turned off) (water level	true to the best of my knowledge and belief.
measured from well top to water level)	NAME Casel Cull Dilling (Person, firm, or corporation) (Type or print)
Time Water Level Time Water Level Time Water Level	(Person, firm, or corporation) (Type or print)
	Address 1308 Voulher Vakim
Date of test	[Signed] Tavous Lan
Bailer testgal./min. withft. drawdown afterhrs.	(Well Driller)
Artesian flowg.p.m. Dateg.p.m. Date	License No. 0073 Date 5-21 19.8
	19.K.

### WATER WELL REPORT STATE OF WASHINGTON

Application No.

1) OWNER: Name  2) LOCATION OF WELL: County	· 1、 · 1、 · 1、 · 1、 · 1、 · 1、 · 1、 · 1、
g and distance from section or subdivision corner	NE NE Sec. T 13N. R LAW
PROPOSED USE: Domestic   Industrial   Municipal   Irrigation   Test Well   Other	The state of the s
4) TYPE OF WORK: Owner's number of well (if more than one)	Formation: Describe by color, character, size of material and structure, are show thickness of aquifers and the kind and nature of the material in eastratum penetrated, with at least one entry for each change of formation
New well   Method: Dug   Bored   Deepened   Cable   Driven	MATERIAL FROM TO
Reconditioned Rotary Jetted Dimeter of well inches	Men middle man of the second
Dimensions: Diameter of well inches.  Drilled ft. Depth of completed well ft.	when record was sent and
6) CONSTRUCTION DETAILS:	
Casing installed: "Diam. from 5 ft. to 11 ft. Threaded 1 "Diam. from 5 ft. to 11 ft.	
Welded Diam. fromft. toft.	
Perforations: Yes   No    Type of perforator used  SIZE of perforations   in. by   in.  perforations from   ft. 10   ft.	
SIZE of perforations in. by in. perforations from ft. to ft.	
perforations from tt. to ft. perforations from ft. to ft.	
Screens: Yes No No Manufacturers Namy	
Manufacturer's Namy Type Model No. Diam Slot size from #t. to #t	
Diam Slot size from ft. to ft. Diam Slot size from ft. to ft.	
Gravel packed: yes □ No □ Size of gravel:  Gravel placed from ft. to ft.	
Surface seal: Yes □ No □ To what depth? ft.  Material used in seal X	
Did any strata contain unusable water? Yes 🗆 No 🖂	
Type of water? Depth of strata Method of sealing strata off.	
7) PUMP: Mahufacturer's Name	
3) WATER LEVELS: Land-surface elevation above mean sea level.	
atic level tt below ton of well Date	
tesian pressure bis per square inch Date dig // (7/4)  Artesian water is controlled by (Cap. valve, etc.)	
等。其中的一个自身的的对抗的一种 的话的时间 在中间的中央的自己的现在分词 自己的 的一种企业 医神经性神经神经神经	
Drawdown is amount water level is lowered below static level sas a pump test made? Yes D No T fryes by whom?	WORK started 19 Completed 19 WELL DRILLER'S STATEMENT:
SCHOOL HERMAN AND THE PROPERTY	This well was drilled under my jurisdiction to the processing
covery data (time taken as zero when pump turned off) (water level) measured from well top to water level) Time Water Level Time Water Level	rule to the Dest. Of my knowledge and belief.
Ime Water Level Time Water Level Time Water Level	NAME.  Size of the state of (Ferson, firm, or corporation).
	Address Same Company of the Company
ate of test  Ser test gal/min with ft drawdown after hrs.  Ser test gal/min with at drawdown at	(Signed) #144 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
est jest gal/min, with it drawdown after first gallen flow gram Date gram Date gram Date gram mperature of water was a chemical analysis made? Yes [] No []	(Vell Driller)

### WATER WELL REPORT

Application No.

STATE OF WASHINGTON

(1) OWNER: Name Cantral Mash. State Pairground	S Address R.C. Port 1551 Mortina, Ma
CONTROL OF WELL: County Vaking	a
g and distance from section or subdivision corner	
(3) PROPOSED USE: Domestic Industrial Municipal	(10) WELL LOG:
Irrigation 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 🗍	Topsoil 0 1
Reconditioned ☐ Rotary ✓ Jetted ☐	Boulders, Lagravel, agaid 1 53
(E) DIMENSIONS. 8 #	Lg. gravel, sand, water 55 42
(5) DIMENSIONS:  Drilled 52 Diameter of well 52 inches.  Depth of completed well 52 ft.	
(6) CONSTRUCTION DETAILS:	
Casing installed: 8 Diam. from 41 ft. to 59 ft.	
Threaded []ft. to ft. to ft.	
Welded [ ] Time. The man are the man	
Perforations: Yes No N	
Type of perforator used	
SIZE of perforations in. by in.	
perforations from	
perforations from	
Screens: Yes No K	
Manufacturer's Name	
Diam. Slot size from ft. to ft.	
Diam. Slot size from ft. to ft.	
Gravel packed: Yes No No Size of gravel:	
Gravel placed from ft. to ft.	
Surface seal: Yes M No To what depth? 20 ft.	
Did any strata contain unusable water? Yes No	
Type of water? Depth of strata Depth of strata	
Method of sealing strata off	
(7) PUMP: Manufacturer's Name	
Type: HP.	AUG 6 : 207
	AUG Z 4 1987
(8) WATER LEVELS: Land-surface elevation above mean sea level	
Static levelft. below top of well Date.	F 10 10 10 10 10 10 10 10 10 10 10 10 10
Artesian pressure	THE PARTY OF THE P
Artesian water is controlled by(Cap, valve, etc.)	
(9) WELL TESTS: Drawdown is amount water level is	6/4/87 6/9/87
lowered below static level Was a pump test made? Yes □ No ♣ If yes, by whom?	Work started, 19 Completed
Yield: gal./min. with ft. drawdown after hrs.	WELL DRILLER'S STATEMENT:
n n - n	This well was drilled under my jurisdiction and this report is
11 11 11 11	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)	
Time Water Level   Time Water Level   Time Water Level	NAME Water Wells Drilling (Type or print)
	(Person, firm, or corporation) (Type or print)
	Address 5503 Ahtanum Rd Yakima Va 98903
Date of test	[Signed]
Bailer test100gal./min. withft. drawdown afterhrs.  Artesian flowg.p.m. Date	(Well Driller)
Temperature of water Was a chemical analysis made? Yes 🔲 No 🛗	License No. 1435 Date 6/17/87 , 19
-	I and the second

# APPENDIX 7 Well Sampling Results

#### MAID'O'CLOVER 1802 E. NOB HILL BLVD, YAKIMA WA

Testing at the Maid'O'Clover site began March 26, 1992 and has continued to September 23, 1992.

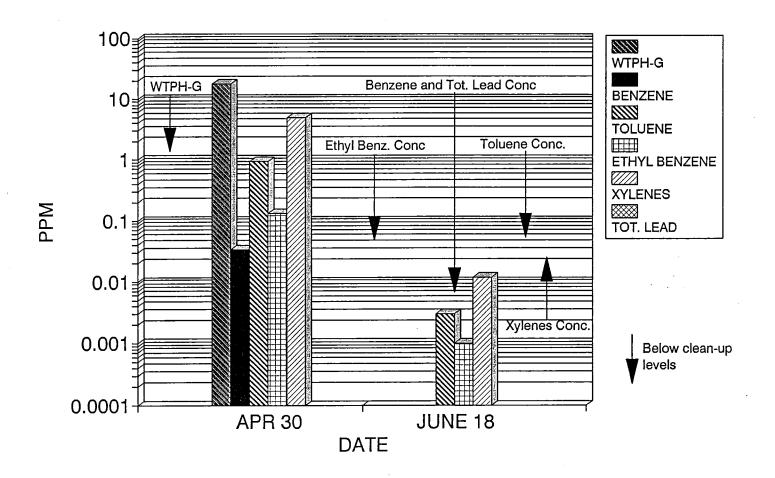
Two types of monitoring wells were developed, six designated as MW, and two as ESE. The ESE wells were developed first by Environmental Science and Engineering, Inc. and are sand packed. The MW wells were developed by Maid'O'Clover, Inc. and were developed in accordance with standard practices for the Yakima area and WAC173-160.

Since tests were started product concentration levels in the MW wells has steadily declined until all the product concentration levels have dropped below clean-up levels except for MW3 and MW6. Wells MW3 and MW6, as of September 23, still had WTPH-G and Xylenes concentrations above allowable levels, but showed rapidly declining concentration levels of these products.

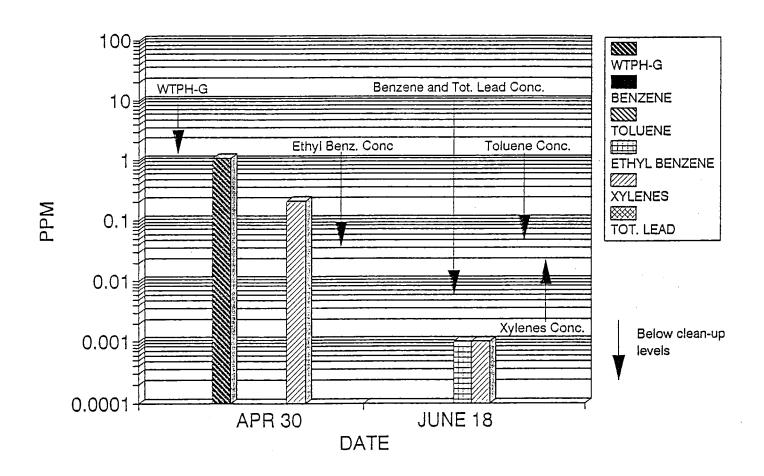
The product concentration levels in the ESE wells have fluctuated since monitoring began, but, overall, concentration levels have not changed dramatically, and many product concentrations are above allowable limits.

The reason the ESE wells are maintaining high concentration levels of product may be the sand around the well, which acts like a sponge, not allowing water to move in or out of it very quickly. Therefore, the product absorbed in the sand pack around the well casing.

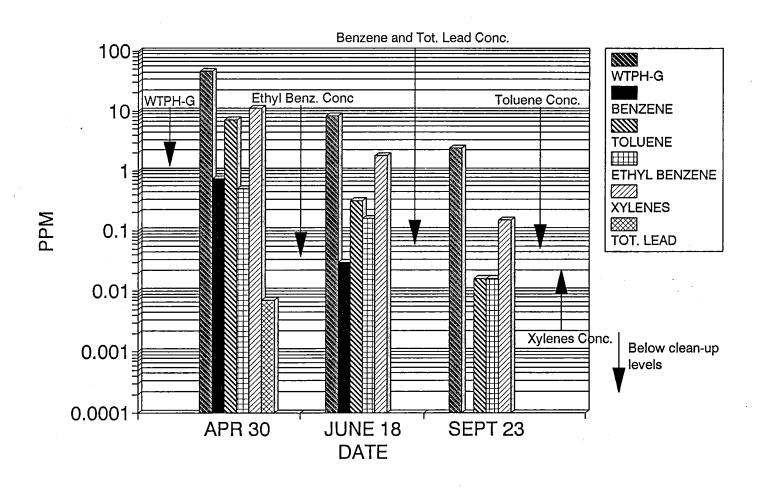
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, MW1, 1802 E. NOB HILL BLVD.



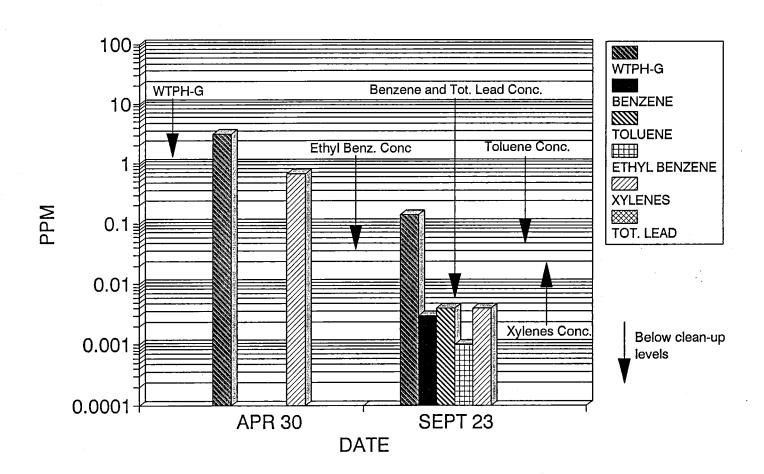
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, MW2, 1802 E. NOB HILL BLVD.



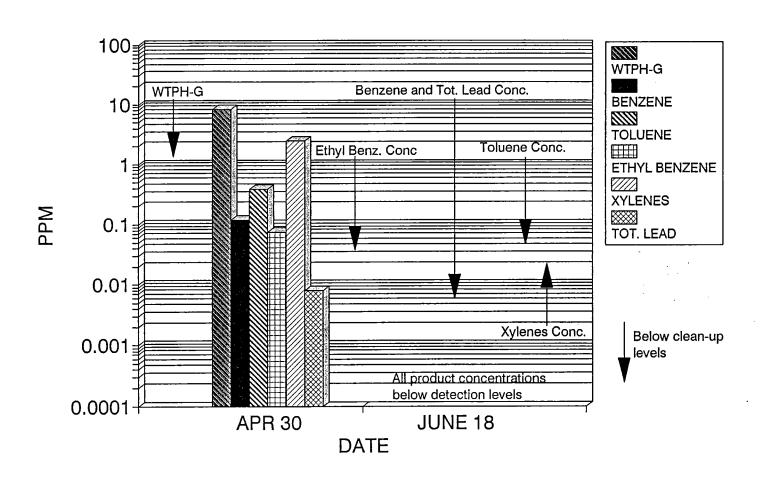
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, MW3, 1802 E. NOB HILL BLVD.



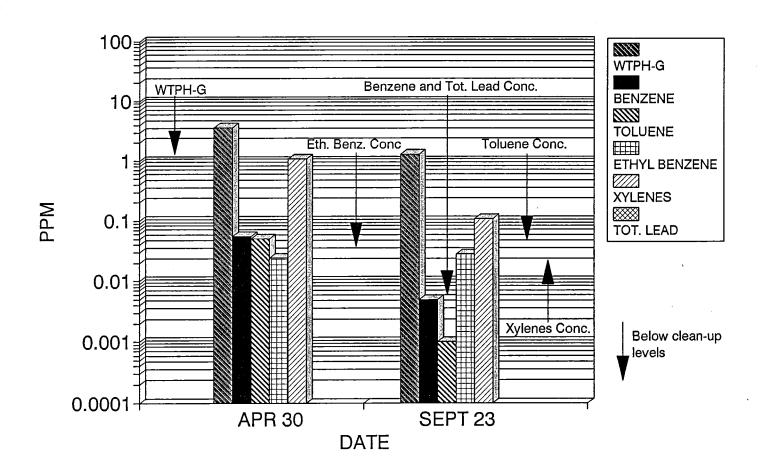
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, MW4, 1802 E. NOB HILL BLVD.



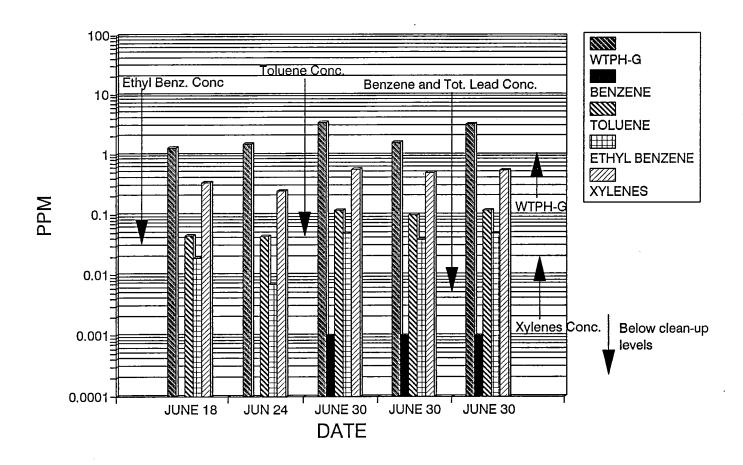
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, MW5, 1802 E. NOB HILL BLVD.



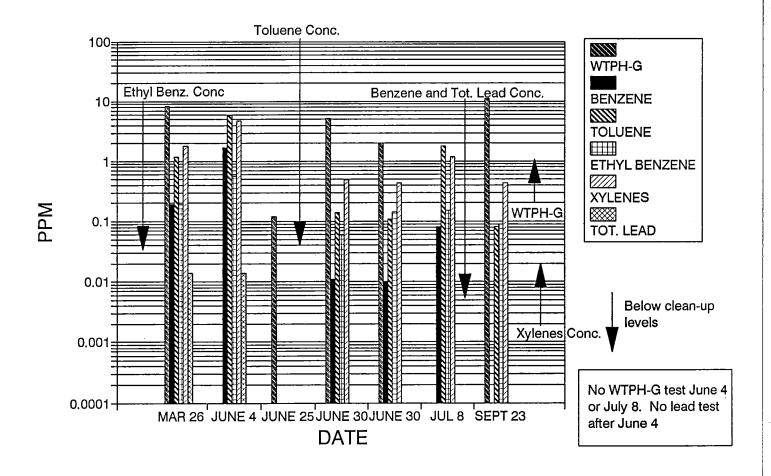
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, MW6, 1802 E. NOB HILL BLVD.



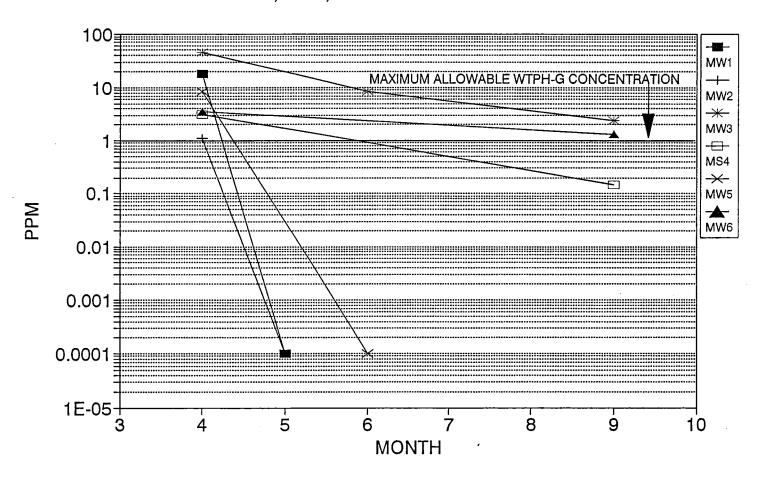
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, ESE1, 1802 E. NOB HILL BLVD.



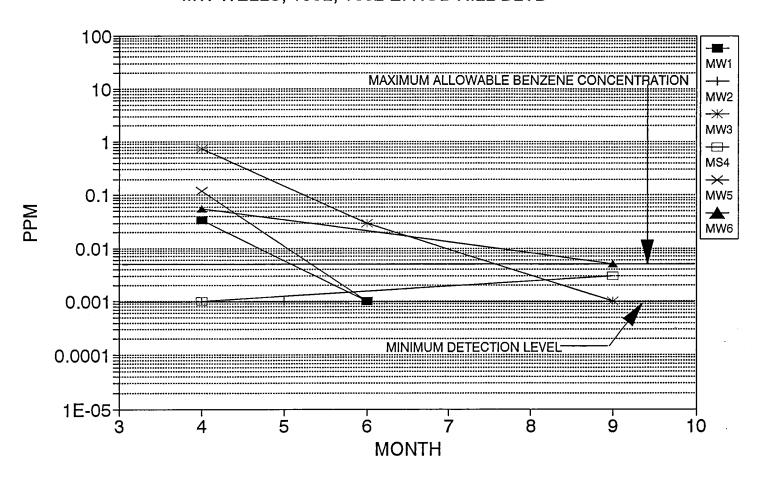
# PRODUCT CONCENTRATION AT MAID'O'CLOVER 1992, ESE2, 1802 E. NOB HILL BLVD.



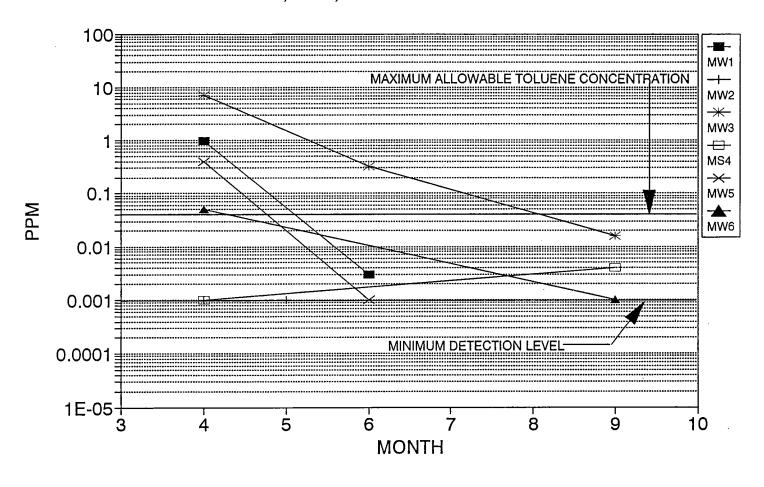
## WTPH-G TREND, MAID'O'CLOVER MW WELLS, 1992, 1802 E. NOB HILL BLVD



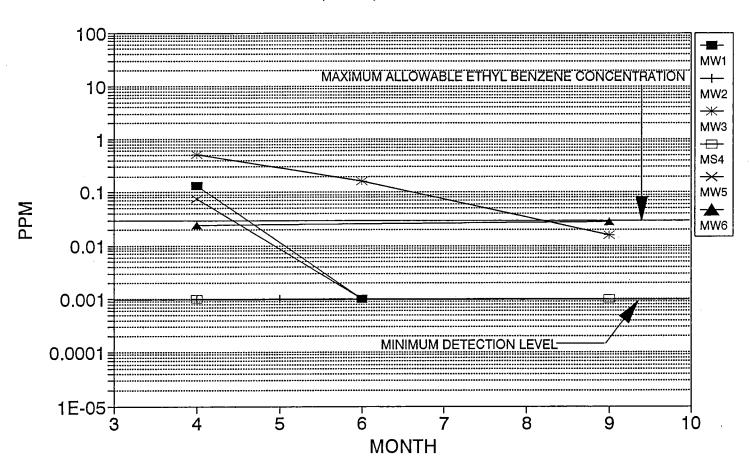
### BENZENE TREND, MAID'O'CLOVER MW WELLS, 1992, 1802 E. NOB HILL BLVD



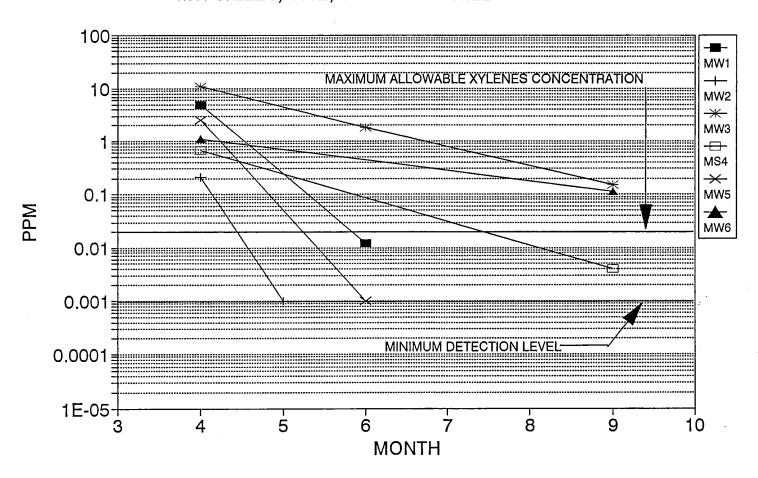
## TOLUENE TREND, MAID'O'CLOVER MW WELLS, 1992, 1802 E. NOB HILL BLVD



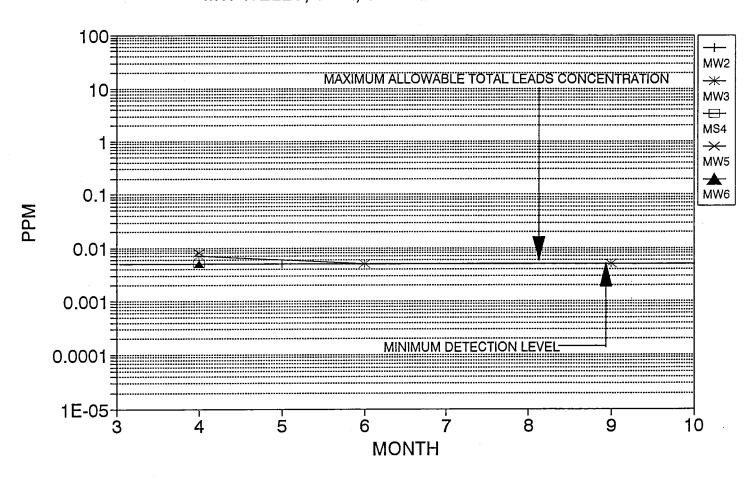
### ETHYL-BENZENE TREND, MAID'O'CLOVER MW WELLS, 1992, 1802 E. NOB HILL BLVD



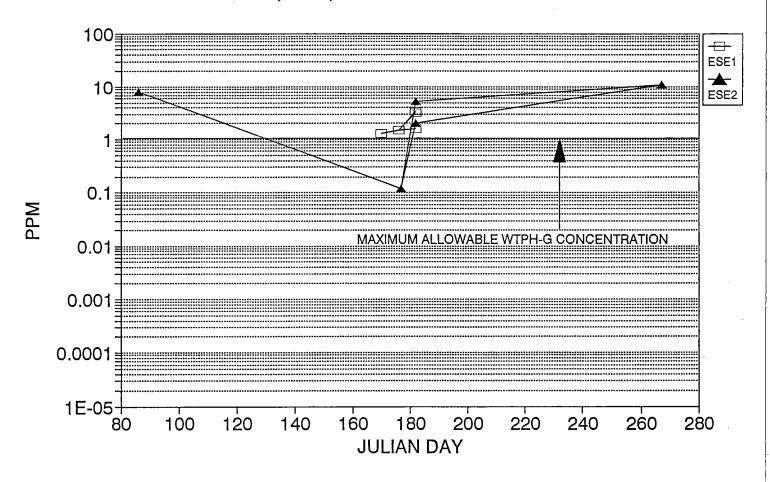
### XYLENES TREND, MAID'O'CLOVER MW WELLS, 1992, 1802 E. NOB HILL BLVD



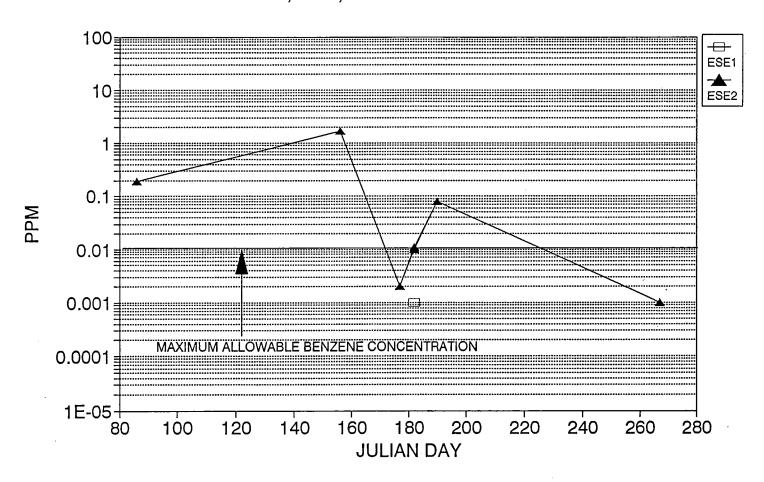
## TOTAL LEADS TREND, MAID'O'CLOVER MW WELLS, 1992, 1802 E. NOB HILL BLVD



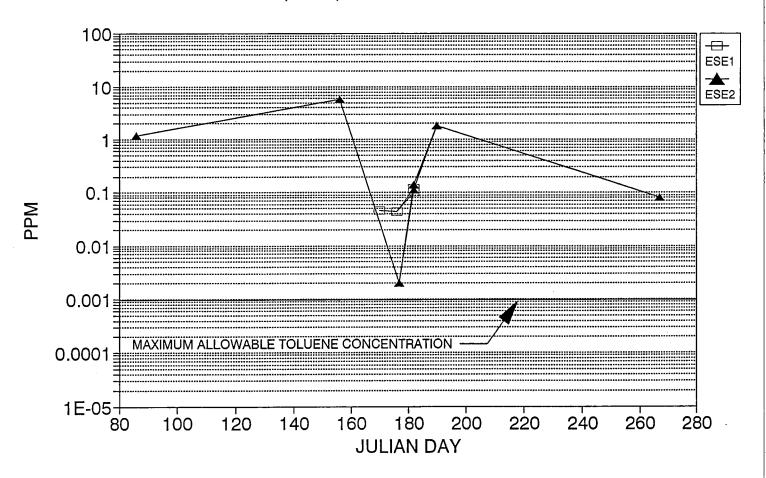
## WTPH-G TREND, MAID'O'CLOVER ESE WELLS, 1992, 1802 E. NOB HILL BLVD



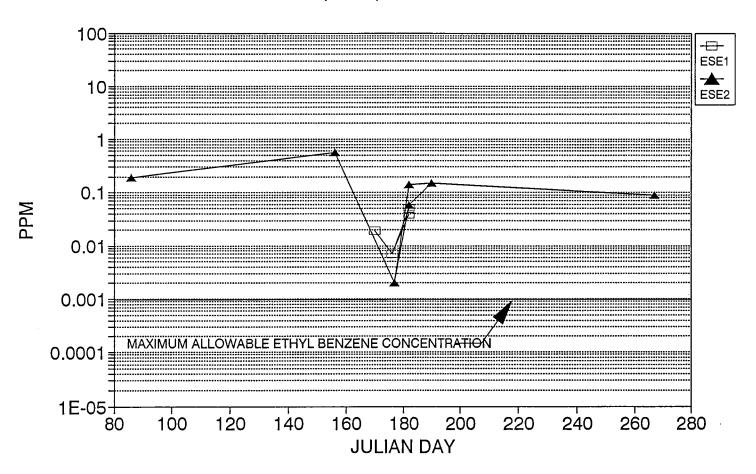
## BENZENE TREND, MAID'O'CLOVER ESE WELLS, 1992, 1802 E. NOB HILL BLVD



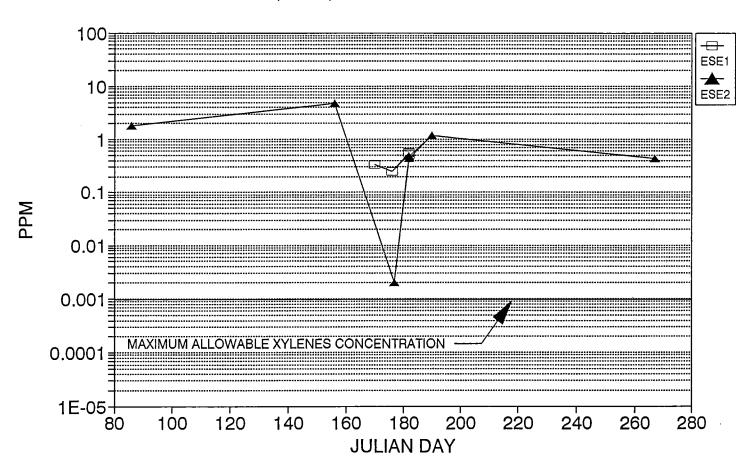
## TOLUENE TREND, MAID'O'CLOVER ESE WELLS, 1992, 1802 E. NOB HILL BLVD



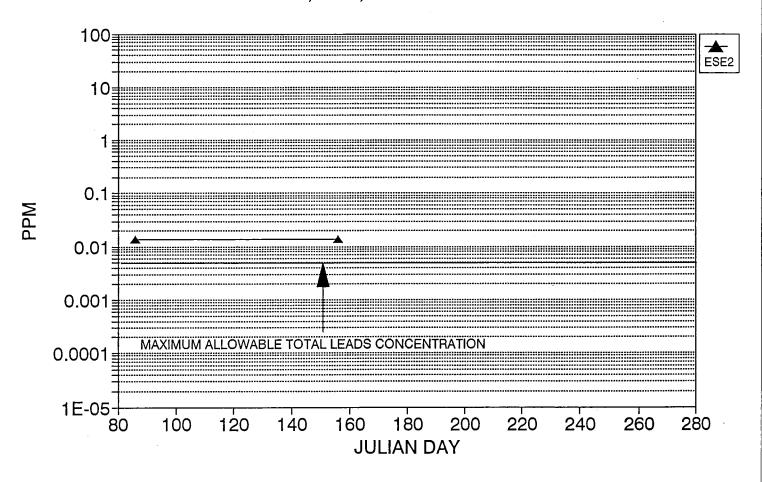
## ETHYL BENZENE TREND, MAID'O'CLOVER ESE WELLS, 1992, 1802 E. NOB HILL BLVD



# XYLENES TREND, MAID'O'CLOVER ESE WELLS, 1992, 1802 E. NOB HILL BLVD



# TOTAL LEADS TREND, MAID'O'CLOVER ESE WELLS, 1992, 1802 E. NOB HILL BLVD



APPENDIX 8
Cleanup Levels, WAC 173-340.

Table 1
Method A Cleanup Levels – Ground Water<sup>a</sup>

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440-38-2	5.0 ug/liter <sup>b</sup>
Benzene	71–43–2	5.0 ug/liter <sup>c</sup>
Cadmium	7440-43-9	5.0 ug/liter <sup>d</sup>
Chromium (Total)	7440-47-3	50.0 ug/liter <sup>e</sup>
DDT	50-29-3	0.1 ug/liter <sup>f</sup>
1,2 Dichloroethane	107-06-2	5.0 ug/liter <sup>g</sup>
Ethylbenzene	100-41-4	30.0 ug/liter <sup>h</sup>
Ethylene dibromide	106–93–4	0.01 ug/liter <sup>i</sup>
Gross Alpha Particle Activity		15.0 pCi/liter <sup>j</sup>
Gross Beta Particle Activity		4.0 mrem/yrk
Lead	7439–92–1	5.0 ug/liter 1
Lindane	58–89–9	0.2 ug/liter <sup>m</sup>
Methylene chloride	75–09–2	5.0 ug/liter <sup>n</sup>
Mercury	7439–97–6	2.0 ug/liter°
PAHs (carcinogenic)		0.1 ug/liter <sup>p</sup>
PCB mixtures		0.1 ug/liter <sup>q</sup>
Radium 226 and 228		5.0 pCi/liter <sup>r</sup>
Radium 226		3.0 pCi/liter <sup>s</sup>
Tetrachloroethylene	127–18–4	5.0 ug/liter <sup>t</sup>
Toluene	108–88–3	40.0 ug/liter <sup>u</sup>
Total Petroleum Hydrocarbons	71 66 6	1000.0 ug/liter
1,1,1 Trichloroethane	71–55–6	200.0 ug/liter
Trichloroethylene	79–01–5	5.0 ug/liter <sup>x</sup>
Vinyl chloride	75–01–4	0.2 ug/liter <sup>y</sup>
Xylenes	1330–20–7	20.0 ug/liter <sup>z</sup>

<sup>&</sup>lt;sup>a</sup> Caution on misusing method A tables. Method A tables have been developed for specific purposes. They are intended to provide conservative cleanup levels for sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. The tables may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in these tables should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in these tables do not necessarily trigger requirements for cleanup action under this chapter.

<sup>&</sup>lt;sup>b</sup> Arsenic. Cleanup level based on background concentrations for state of Washington.

<sup>&</sup>lt;sup>c</sup> Benzene. Cleanup level based on applicable state and federal law.

d Cadmium. Cleanup level based on applicable state and federal law and concentration derived using procedures in subsection (3)(a)(ii)(A) of this section and a hazard quotient of 0.2.

<sup>&</sup>lt;sup>e</sup> Chromium (Total). Cleanup level based on applicable state and federal law.

f DDT. Cleanup levels based on concentration derived using procedures in subsection (3)(a)(ii)(B) of this section.

g 1,2 Dichloroethane. Cleanup level based on applicable state and federal law.

Table 2
Method A Cleanup Levels – Soil<sup>a</sup>

Hazardous Substance	CAS Number	Cleanup Level
Arsenic	7440–38–2	20.0 mg/kg <sup>b</sup>
Benzene	71-43-2	$0.5 \text{ mg/kg}^{\circ}$
Cadmium	7440–43–9	$2.0 \text{ mg/kg}^{d}$
Chromium	7440–47–3	100.0 mg/kg°
DDT	50-29-3	$1.0 \text{ mg/kg}^{\text{f}}$
Ethylbenzene	100-41-4	$20.0 \text{ mg/kg}^{\text{g}}$
Ethylene dibromide	106-93-4	$0.001 \text{ mg/kg}^{\text{h}}$
Lead	7439–92–1	$250.0 \text{ mg/kg}^{i}$
Lindane	58-899	$1.0 \text{ mg/kg}^{\circ}$
Methylene chloride	75–09–2	$0.5 \text{ mg/kg}^{k}$
Mercury (inorganic)	7439–97–6	$1.0 \text{ mg/kg}^{1}$
PAHs (carcinogenic)		$1.0 \text{ mg/kg}^{\text{m}}$
PCB Mixtures		$1.0 \text{ mg/kg}^{\text{n}}$
Tetrachloroethylene	127-18-4	0.5 mg/kg°
Toluene	108-88-3	$40.0 \text{ mg/kg}^{\text{p}}$
TPH (gasoline)		$100.0 \text{ mg/kg}^{\text{q}}$
TPH (diesel)		$200.0 \text{ mg/kg}^{\text{r}}$
TPH (other)		$200.0 \text{ mg/kg}^{\text{s}}$
1,1,1 Trichloroethane	71–55–6	20.0 mg/kg <sup>t</sup>
Trichloroethylene	79-01-5	$0.5 \text{ mg/kg}^{\text{u}}$
Xylenes	1330-20-7	20.0 mg/kg <sup>v</sup>

Caution on misusing method A tables. Method A tables have been developed for specific purposes. They are intended to provide conservative cleanup levels for sites undergoing routine cleanup actions or those sites with relatively few hazardous substances. The tables may not be appropriate for defining cleanup levels at other sites. For these reasons, the values in these tables should not automatically be used to define cleanup levels that must be met for financial, real estate, insurance coverage or placement, or similar transactions or purposes. Exceedances of the values in these tables do not necessarily trigger requirements for cleanup action under this chapter.

Arsenic. Cleanup level based on background concentrations in the state of Washington.

<sup>&</sup>lt;sup>c</sup> Benzene. Cleanup level based on protection of ground water.

d Cadmium. Cleanup level based on plant protection.

<sup>&</sup>lt;sup>e</sup> Chromium. Cleanup level based on health risks associated with inhalation of resuspended dust.

f DDT. Cleanup level based on concentrations derived using the procedures in subsection (3)(a)(iii)(B) of this section.

Ethylbenzene. Cleanup level based on protection of ground water.

b Ethylene dibromide. Cleanup level based on protection of ground water.

Lead. Cleanup level based on preventing unacceptable blood lead levels.

# APPENDIX 9 Site Check/Site Assessment Form



Owner	#	F				e	0					
Site#												_

## **INSTRUCTIONS:**

When a release has **not** been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person registered with Ecology. The results of the site check or site assessment must be included with this checklist. This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

<u>SITE INFORMATION:</u> Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

<u>TANK INFORMATION:</u> Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT: Please check the appropriate item.

**CHECKLIST:** Please initial each item in the appropriate box.

<u>SITE ASSESSOR INFORMATION:</u> This form must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

Underground Storage Tank Section Department of Ecology P. O. Box 47655 Olympia, WA 98504-7655

SITEINFORMATION Site ID Number (on invoice or available from Eco	plogy if the tanks are regis	tered): 100160
Site/Business Name: Maid o'Clover Conver	nience Store	
Site Address: 1802 E. Nob Hill Blvd	Telephone: (509)	452-8957
Street		
Yakima	WA	98901
City	State	ZIP-Code

TANK INFORMATION		
Tank ID No.	Tank Capacity	Substance Stored
1	10,000 to 20,000 gal	Leaded gasoline
2	10,000 to 20,000 gal	Unleaded gasoline
3	5,000 to 10,000 gal	Unleaded_gasoline
4	5,000 to 10,000 gal	Diesel

# REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:		
XX_	Investigate suspected release due to on-site environmental contamination	
	Investigate suspected release due to off-site environmental contamination.	
	Extend temporary closure of UST system for more than 12 months.	
	UST system undergoing change-in-service.	
	UST system permanently closed-in-place.	
	UST system permanently closed with tank removed.	
	Abandoned tank containing product.	
	Required by Ecology or delegated agency for UST system closed before 12/22/88.	
	Other (describe):	
	\	

CHEC	KLIST			
	item of the following checklist shall be initialed by the person registered with the	Depar	·t-	
ment	of Ecology whose signature appears below.	YE	S	NO
1.	The location of the UST site is shown on a vicinity map.	(F)	1	
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)	S	Z	
3.	A summary of UST system data is provided. (see Section 3.1)		过	
4.	The soils characteristics at the UST site are described. (see Section 5.2)	14	1	<del>)</del>
5.	Is there any apparent groundwater in the tank excavation?		_	ۍ پ اح
6.	A brief description of the surrounding land use is provided. (see Section 3.1)	\$		
7.	Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.	Æ	F	
8.	A sketch or sketches showing the following items is provided:			
	- location and ID number for all field samples collected		P	
	- groundwater samples distinguished from soil samples (if applicable)	Q.	<i>[</i> ]	
	- samples collected from stockpiled excavated soil		8	
	- tank and piping locations and limits of excavation pit		$\int$	$\Rightarrow$
<u> </u>	- adjacent structures and streets	X.		
	- approximate locations of any on-site and nearby utilities	Ala	2	
9.	If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)			
10.	A table is provided showing laboratory results for each sample collected includin sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.	g,	7	
11.	Any factors that may have compromised the quality of the data or validity of the results are described.			É
12.	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has <b>not</b> occurred.			Ð
SITE	ASSESSOR INFORMATION			
Dou	nglas P. D'Hondt PLSA Engineering & Sur	veyi:	ng	
	n registered with Ecology Firm Affiliated wi			
Busin	ess Address: 1120 West Lincoln Telephone: (509) 575-	<u>6990</u>		
	Yakima WA 98902			
	City State ZIP+Code by certify that I have been in responsible charge of performing the site check/site assessma Persons submitting false information are subject to penalties under Chapter 173.360 WA		scri	bed <sub>.</sub>
	2/3/92			
	Date Signature of Person Registered with Ecology			,

# APPENDIX 10

City of Yakima, Waste Discharge Permit



WASTEWATER DIVISION DEPARTMENT OF ENGINEERING & UTILITIES FAX (509)575-6116 SCAN 278-6077 2220 E. VIOLA, YAKIMA, WASHINGTON 98901

Permit No.CY92003

## AUTHORIZATION TO DISCHARGE

In accordance with the provisions of Yakima Municipal Code Chapter 7.65 \* SEWER USE AND PRETREATMENT REGULATIONS"

Industry Name:

Location Address:

18th and Nob Hill Yakima Wa

Mailing Address:

207 S 6th Ave Yakima Wa 98901

Site Name:

Maid O'Clover

is hereby authorized to discharge ground water from the above named facility into the City of Yakima sewer system in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in this permit.

Amount of Discharge 50,000 gallons

Parameter

Daily Maximums

Monthly Average

Sea Attached

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant more frequently or at a level in excess of that authorized shall constitute a violation of this permit.

This permit must be posted in a conspicuous place at the job site where the discharge is taking place. The discharge will be into the sanitary sewer system at the location address above.

Fallure to comply with the provisions listed herein can result in permit revocation and/ or fines and administrative actions that can include fines of from \$1,000 to \$10,000 per day of violation, civil litigation, criminal prosecution, and suspension of sewer services.

This permit shall become effective on 4/23/1992 and expire at midnight on 6/1/1992.

The permittee shall not discharge after the date of expiration. If the permittee wishes to continue to discharge after this date, an application must be filed for reissuance of this permit in accordance with the requirements of the City of Yakima Municipal Code Chapter 7.65, a minimum of 90 days prior to the expiration date.

By: Pete Hobbs

Pretreatment Specialist

Issued this 23th day of April, 1992 cc:Rick Frye WDOE City Attorney



WASTEWATER DIVISION DEPARTMENT OF ENGINEERING & UTILITIES FAX (509)575-6116 SCAN 278-6077 2220 E. VIOLA, YAKIMA, WASHINGTON 98901

TO:

# **DISCHARGE LIMITATIONS**

Any substances not listed below, whether analyzed for or not, must meet with the local limits as set forth Yakima Municipal Code Chapter "7.65 SEWER USE AND PRETREATMENT METHODS"

Parameter	Daily Maximums	Monthly Average
Purgeable Hydrocarbons	.050 ppm	.050 ppm
Benzene	.0005 ppm	mqq 2000,
Toluene	.0005 ppm	.0005 ppm
Ethyl Benzene	.0005 ppm	.0005 ppm
Xylene	.0005 ppm	.0005 ppm
Petroleum Oil	1.0 ppm	1.0 ppm
Extractable Hydrocarbons	.50 ppm	.50 ppm
Lead	.0010 ppm	.0010 ppm

# APPENDIX 11 PLSA Sampling Plan

# SAMPLING AND ANALYSIS PLAN

FOR

# PETROLEUM CONTAMINATED SOIL AND WATER

MAID o'CLOVER

1802 EAST NOB HILL

YAKIMA, WASHINGTON

August, 1992

Job No. 91056

Prepared by

PLSA ENGINEERING & SURVEYING WDOE LIC. No. S000210 1120 West Lincoln Avenue Yakima, WA 98902 (509) 575-6990

#### SAMPLING AND ANALYSIS PLAN

for

PETROLEUM RELEASE

at

MAID o'CLOVER

1802 EAST NOB HILL BOULEVARD
YAKIMA, WASHINGTON

#### INTRODUCTION

This report summarizes site conditions and proposes a sampling and analysis plan for evaluation of released petroleum products, and possibly contaminated soil and water, at Maid o'Clover, 1802 East Nob Hill Boulevard, Yakima, WA.

Geotechnical engineers or a geologist from PLSA Engineering and Surveying, WDOE License No. S000210, experienced with local soil conditions will inspect exploratory excavations and collect product, soil, and water samples. Additional, off-site soil and water samples will be collected and submitted for laboratory analysis as directed by WDOE.

The owner's representative and contact person for this project is as follows:

Mr. Jeff Louden Maid o'Clover, Inc. 207 South Sixth Avenue Yakima, WA 98902 phone (509) 248-3562

#### SURFACE CONDITIONS

The site is situated in the NW1 1/4, SE1/4, Sec 29, TWN 13N, R18-EWM. See Figure 1. The study area is depicted in a scale drawing found in Figure 2.

A convenience store, gas pumps, and self service car wash are located on the premises. The tank basin is covered with concrete pavement. The balance of the open area is asphalt paved parking.

Surface waters: There are no surface waters in the immediate vicinity.

#### SUB-SURFACE CONDITIONS

Sub-surface soils: Soils consist of a 2 to 3 foot thick stratum of sandy silt followed by a deep stratum of cobbles, gravel, and sand extending more than 40 feet below the surface to bedrock.

Groundwater: Ground water elevation varies with the irrigation season and has been found at 12.3 to 17.5 feet below ground.

#### SAMPLING PROCEDURE

Samples collected for the purpose of performing any interim investigation or developing an RI/FS and verifying cleanup will comply with the following procedures:

Soil sampling equipment will consist of the following:

- New glass sample jars with Teflon-lined screwed caps.
- Steel trowels or spatulas cleaned with an Alconox solution and distilled water rinse between samplings.
- Ice chest for jars containing samples.

Sound Analytical Laboratories in Fife, Washington, WDOE Laboratory Accreditation C 027, has been selected to perform the analyses. Quality control and quality assurance procedures are on file at PLSA and Sound Analytical. Salient laboratory quality control information is included with the laboratory analytical reports from Sound.

All samples will be stored and shipped to the laboratory by overnight express in a refrigerated, insulated container.

Field sampling quality control and laboratory sampling quality control will be in accordance with WDOE "Guidance for Site Checks and Site Assessments for Underground Storage Tanks", February 1991.

## SAMPLING FREQUENCY AND SCHEDULE

After initial sampling for characterization, a photoanalyzer and/or a combustion analyzer will be used continuously to monitor for VOC's which may be present. The TIP readings will be used as a guide to determine where laboratory samples should be collected. Qualitative and quantitative information regarding the presence of any particular VOC is a result of the laboratory analyses. Additional samples may be collected upon request from WDOE.

Sample scheduling is dependent upon the nature and types of discoveries made in the field which would require sampling.

#### SAMPLE PARAMETERS

Samples will be analyzed for WTPH-HCID, BTEX, and lead as appropriate. These analytical parameters are consistent with cleanup standards for spilled petroleum motor fuel products.

#### WASTE MATERIALS

Waste materials from sampling, other than disposable gloves, include possible excess material from soil sampling and from water sampling. These materials will be stored on-site in covered, steel drums until laboratory analysis has been completed at which time the materials will be properly disposed of.

Sound Analytical has procedures in place for disposal of waste samples which are on file at Sound Analytical.

## QUALITY ASSURANCE AND QUALITY CONTROL

Sound Analytical has quality assurance and quality control (QA/QC) procedures which are on file at their laboratory in Fife, Washington, at PLSA, and in the RI/FS for the Town Pump, White Salmon, Washington, on file at the Central Regional Office, WDOE, Yakima, WA. Sound Analytical determines the number of QA/QC samples and includes the results of such in their analytical reports.

## CHAIN OF CUSTODY

Sound Analytical standard chain-of-custody forms will be completed and included with each sample shipment. Copies of chain-of-custody forms will be on file at sound Analytical and PLSA.

## SAMPLE SPLITTING

Sample splitting will be as required by WDOE.

#### HEALTH AND SAFETY

Health and safety considerations will be within accordance with WDOE "Guidance for Site Checks and Site Assessments for Underground Storage Tanks", February 1991. See Appendix 12.

Level D protection is required for petroleum cleanup operations.

## ANALYTICAL PROCEDURES AND REPORTING

Sound Analytical bears WDOE accreditation C 027. Analytical procedures and reporting will be consistent with EPA and WDOE regulations.

#### SUPPLIES AND EQUIPMENT

Supplies and equipment for sampling include laboratory-supplied sample containers appropriate for the substances and analytes involved. Sampling equipment must be cleaned before and after sampling. Smaller items such as sampling trowels will be cleaned in an Alconox solution contained in a 5 gallon plastic bucket. Alconox will a part of the supply inventory. Clean water is available at the site for rinsing. Larger equipment items, such as augers or backhoes, will be steam or otherwise appropriately cleaned using cleaning equipment accompanying the equipment.

A supply of plastic gloves will be available for use by samplers. Samplers will also have an ice chest in which to place samples and the necessary pencils, paper, and forms for chain of custody, sample data recording, and other information.

A trailer-mounted hollow stem auger, hand auger, and, if necessary, a backhoe will be available for exploratory excavation for the purpose of sampling. A Teflon bailer will be available if needed for water sampling.

Field test equipment for qualitative measurement of volatile organic compounds and quantitative measurement of explosive vapor concentrations consisting of a Photovac TIP 1 and a GASTECH Model 1314SPN will also be included in the on-site equipment.

## MONITORING WELLS

Any monitoring wells drilled to the water table will be constructed and developed in accordance with WAC 173-160.

# APPENDIX 12 Health and Safety Plan

# HEALTH AND SAFETY PLAN

FOR

MAID o'CLOVER

YAKIMA, WASHINGTON

Prepared By

PLSA ENGINEERING AND SURVEYING 1120 West Lincoln Ave Yakima, Washington

AUGUST, 1992

Job No. 91056

# TABLE OF CONTENTS

SECTION I General Information	1
SECTION II On-site Control	2
SECTION III Safety and Health Hazards	3
SECTION IV Person Protective Equipment	5
SECTION V Communications Procedures	6
SECTION VI Decontamination Procedures	7
SECTION VII Emergency Information	7
SECTION VIII Environmental Monitoring	8
SECTION IX Personal Monitoring and Training	9
SECTION X Changes to Health and Safety Plan	9
SECTION XI Site Safety Plan Peview	1.0

#### SECTION I - BRIEF DESCRIPTION AND HISTORY

Underground tanks have been installed to store gasoline. There was a gasoline release due to faulty check valves installed at the northern gasoline pump island. The immediate area has other gasoline stations nearby. There is public records of previous large petroleum product releases in the vicinity.

- A. The purpose of the Health and Safety Plan is to address the issues arising from the handling of the contaminated materials. It is not intended to address normal safety practices on construction sites such as those covered under WAC-296-155 or 29-CFR-1910-0. This plan is based on information that has been provided by the contract representative to PLSA. It does not include unexpected or unknown situations that may arise during the course of the project.
- B. Facility Name and Address:

Maid o'Clover 1802 East Nob Hill Boulevard Yakima, WA 98901

- C. Facility Background (History): The Maid o'Clover site has been a gasoline station and mini-mart for quite some time. There is no reason known to suspect the finding of any contaminants in the soil and ground water except gasoline and other possible petroleum products.
- D. Job Description (Scope of Work): The work to be performed includes well drilling, water and soil sampling, well purging and pumping, water level surveying, and waste water treatment and disposal.
- E. Additional Information (Check Applicable Items)

	_
	Industrial
<del> </del>	Secluded
	Residential
	Other

Surrounding Population

2.	Weather	Conditions

Hot >70 f
Rain
Mild 40-70 f
Dry
Cold <40 f
Snow

F. On-site Organization (Chain of Command):

Project Team Leader: Russ Taylor
Alternate: Brad Card
Site Safety Officer: Doug D'Hondt
Alternate: As delegated
Security/Record Keeper: Anne Van Eaton
Alternate: As delegated

Alternate: As de Public Information Officer: WDOE

Field Team Leader: Luis Valdez
Alternate: As delegated

Field Team Members: As delegated

G. Agency Representatives:

Agency Name Telephone Number

WDOE John Weitfeld (509) 575 2490

#### SECTION II - ON SITE CONTROL

PLSA personnel are all professional and have capability of working independently. The individual assigned as project engineer is normally responsible for all other PLSA personnel present. PLSA does not accept any responsibility for any personnel that may be present employed by other than PLSA.

- A. Establish and cordon off the Exclusion Zone, Decontamination Zone, and Support Zone. Use red, danger barricade tape around the Exclusion Zone; yellow, caution tape around the Decontamination Zone.
- B. Site Work Preparation:

- 1. Shut down and disconnect all electrical services to tanks and associated plumbing. Disconnect all pumps to associated plumbing. Pump and flush all underground tanks and associated plumbing. Then cap all associated plumbing except vent pipes. Locate all utilities and obtain any necessary excavation permits.
- 2. Purge and inert all tanks scheduled for hot work in accordance with uniform fire code, section 79.114 and API Recommend Practices 1604, Section 4. Have tanks tested by qualified person and issue "Safe for Hot Work Permit." Complete hot work in accordance with permit.

#### SECTION III - SAFETY AND HEALTH HAZARDS

Gasoline is the most hazardous substance anticipated to be encountered. Hazards from gasoline include flammability, explosion danger, and toxicity, particularly from the more volatile gasoline constituents such as benzene. Diesel and heating oil are flammable, but are less explosive and toxic than is gasoline. Heavier oils, such as Bunker C, are lower in flammability and toxicity than diesel. One should avoid ingesting, skin contact, and inhaling petroleum product or vapors. Protective clothing and a respirator mask must be worn by persons exposed to high concentrations of petroleum vapors. If petroleum vapor is inadvertently inhaled, seek an area of fresh air until the petroleum vapor, seek medical assistance. Do not re-enter the petroleum vapor area without wearing a respirator and checking for explosion hazard.

Underground storage tank basin excavations could contain explosive vapor concentrations. An explosion meter is required to be on the job and used to check explosion hazard before any work is done in the excavated tank basin. If an explosive atmosphere is present, it may be necessary to ventilate the excavation or allow the explosive vapors to dissipate before any work is done. Fire extinguishers will be on-site and foam equipment will be available for fire extinguishing and vapor suppression on an as required basis.

Most of the sampling activity will be in an excavation. Conscientious effort is made to maintain the sides of the excavation so as to minimize hazard from caving, but this does not insure absolute safety. Persons entering excavations for the purpose of sampling or performing other duties must be alert for unstable soil, over-steepened slopes, overhanging materials, such

as paving, and unstable overhead structures such as power or phone lines. If the excavation is judged too hazardous to enter, the required samples often may be obtained using a backhoe or other construction equipment present.

Construction equipment is usually present and operating during monitoring or sampling for removal of petroleum contaminated soil (PCS). This equipment moves quickly and all sides are not in view of the operator. Avoid blind areas around the equipment and maintain eye contact with the operator when working in the immediate vicinity of operating equipment.

Insecure footing is common in excavations. Personnel are requested to have appropriate footwear and are cautioned to move deliberately and with care when in an excavation. Waterproof boots are provided by PLSA when required.

- A. During work operation, the following hazards may be encountered:
  - In the Exclusion Zone Moving equipment, uneven, slippery terrain, loose debris, contamination, toxic or flammable atmosphere.
  - 2. In the Decontamination Zone Moving equipment, uneven, slippery terrain, loose debris, cross contamination from Exclusion Zone, low level toxic or combustible atmosphere.
  - 3. In the Support Zone Moving equipment, uneven, slippery terrain, loose debris, cross contamination from Exclusion Zone or Decontamination Zone, and access by general public.
- B. During work operation, the following chemical hazards may be encountered (check appplicable items):

Chemical Name	Concentration	P.E.L.			
1 Fuel Oils		<100 ppm			
Hazards Combustible, ingestion.	eye & skin contact,	inhalation, and			
2 Diesel Fuel		<100 ppm			

	Hazards Combustible, eye & skin contact, ingestion.	inhalation,	and
3.	Gasoline Benzene	<100 ppm <.05 ppm	
	Hazards Flammable, eye & skin contact, ingestion.	inhalation,	and
4.	Stoddard Solvent	<100 ppm	
	Hazards Flammable, eye & skin contact, ingestion.	inhalation,	and
5.	Waste Oil	<1000 ppm	
	Hazards Flammable, eye & skin contact, ingestion.	inhalation,	and
6.	P.C.B.	<01 ppm	
	Hazards Flammable, eye & skin contact, ingestion.	inhalation,	and

MSDS sheets for these products are attached, as appropriate.

## SECTION IV - PERSONAL PROTECTIVE EQUIPMENT

The following personal protective equipment shall be used according to the level of protection required.

- A. Level A P.P.E.
  - 1. Supplied Air respirators, positive pressure-demand, SCBA or Air-line with full face mask.
  - 2. Emergency Escape pak.
  - 3. Fully encapsulating chemical resistant suit.
  - 4. Coveralls (worn under chemical suit).
  - 5. Chemical-resistant gloves (inner).
  - 6. Chemical-resistant steel toe and shank boots.
  - 7. Disposable gloves and boot covers (outer).
  - Requires use of "buddy system".
- B. Level B P.P.E.

1. 2.	Supplied - Air respirators, positive pressure-demand, SCBA or Air-line with full face mask. Emergency Escape pak.
3.	Chemical-resistant, one or two piece suit with long sleeves and hood.
4. 5. 6. 7. 8. 9.	Coveralls (worn under chemical suits). Chemical-resistant hood (inner). Chemical-resistant gloves (inner). Chemical-resistant steel toe and shank boots. Disposable gloves and boot covers (outer). Tape at all joints of P.P.E. Requires use of "buddy system".
Leve	el C - P.P.E.
1.	Air-purifying, cartridge - equipped, full or half-face mask respirator.
2.	Chemical-resistant, one or two piece suit with hood if skin protection required.
3. 4.	Coveralls, worn under chemical suit. Chemical-resistant gloves (inner).
5. 6.	Chemical-resistant steel toe and shank boots. Disposable gloves and boot covers (outer).
Leve	1 D - P.P.E.
1. 2. 3. 4. 5.	Coveralls. Chemical-resistant gloves. Chemical-resistant steel toe and shank boots. Safety glasses. Hard hat.
Othe	r
Requ	ired levels of Protection (circle applicable item)

C.

D.

E.

# F.

⊥.	Exclusion Zone A	В	С	Ð	
2.	Decontamination Zone	A	В	С	D
3.	Support Zone A	В	С	D	
4.	Emergency Standby Personnel	Ά	В	C.	D

#### SECTION V COMMUNICATION PROCEDURES

All personnel on site should remain in communication or within sight of the Field Team Leader. Any failure of communication requires an evaluation or whether personnel should leave the Exclusion Zone.

В.	The	following	standard	hand	signals	may	be	used	for
		unications:							

Hand gripping throat ----- Out of air, can't breathe. Both hands around waist ----- Leave area immediately. Hands on top of head ----- Need assistance. Thumbs up ----- OK, I am all right, I understand. Thumbs down ----- No, negative.

C. Radio or mobile telephone communication shall be established in the Support Zone. The telephone number is \_\_\_\_.

#### SECTION VI - DECONTAMINATION PROCEDURES

- A. Personnel and equipment leaving the Exclusion Zone shall be thoroughly decontaminated using the standard level-decontamination protocol.
- B. At minimum, the following stations shall be used.
  - 1. Station 1
  - 2. Station 2
  - 3. Station 3
  - 4. Station 4
  - 5. Station 5
  - 6. Station 6
- C. Detergent and water will be used as the decontamination solution.
- D. Emergency decontamination will include Stations 1, 3, and 4. Wrap the affected person(s) in plastic and transport to medical care. Notify the medical facility of the contamination factors.

### SECTION VII - EMERGENCY INFORMATION

Α.		owing first	<pre>person(s) aid:</pre>	on	site	are	qualified	for	emergency

B. The first aid kit, eye wash unit, and skin wash equipment are located in the Decontamination and Support Zones.

C. The nearest medical facility is located approximately twenty five minutes away. (See attached road map.)

Name Memorial Hospital Address 2811 Tieton Drive Yakima, WA 98902

- D. Emergency telephone numbers
  - 1. Police 509-248-1010
  - 2. Fire 509-248-2100
  - 3. Hospital 509-575-8000
  - 4. Ambulance 509-248-1811
- E. The following standard emergency procedures shall be used on site. The Site Safety Officer shall be notified of any onsite emergencies and shall be responsible for ensuring that the appropriate procedures are followed.
  - 1. Any emergency on site which could effect the continuing operations shall be cause for all personnel to immediately evacuate the Exclusion Zone. Personnel shall follow decontamination procedures and standby for orders from the Field Team Leader to re-enter the Exclusion Zone and resume work operations.
  - 2. The Field Team Leader and the Site Safety Officer shall evaluate the causes and effects of the emergency and assure that corrective action has taken place before allowing personnel to resume work operations.
  - 3. Any changes of the health and safety plan or working conditions shall be relayed to the workers prior to resuming work operations.

## SECTION VIII - ENVIRONMENTAL MONITORING

Α.	The foll	owing en	nvironn	nental :	monitoring	instru	ments	shall	be
	used on a				intervals	(check	meter	type	and
	CTICIE II	TICET VOTS	useu).	•					

1.	Oxygen meter - continuous	hourly	daily
	other		
2.	Combustible gas-continuous	hourly	daily
	other		_
3.	HNU/OVA meter - continuous	hourly	daily
	other	-	-
4.	Colorimetric tubes		<b>-</b>
	Benzene - continuous	hourly	daily
	other	-	_

5.	Other	- continuous	hourly	daily
		other		

B. All reading of atmospheric monitoring shall be recorded on the attached sheet, figure 12-1. This information will be relayed to all workers required to enter the control zones.

## SECTION IX - PERSONAL MONITORING AND TRAINING

- A. All PLSA personnel on site shall have current annual medical examinations in compliance with 29-CFR0-1910-120 and PLSA chemical handler protocol.
- B. All personnel working in stress conditions >70 F shall be monitored for symptoms of heat stress. If symptoms are recognized or reported, that person(s) shall be immediately moved to a cool, shady area and allowed to rest. If symptoms continue, transport personnel to medical facility.
- C. All PLSA personnel on site shall have documented a minimum of twenty-four (24) hours of health and safety training in accordance with 29-CFR-1910-120.
- D. If the work site is designated as a "Hazardous Waste Site", all PLSA personnel shall have documented a minimum of forty (40) hours of health and safety training in accordance with 29-CFR-1910-120.
- E. If work on a designated "Hazardous Waste Site", requires the use of personal protective equipment Levels A or B, all personnel required to wear Level A or B P.P.E. shall have documented a minimum of eighty (80) hours of health and safety training in accordance with WISHA 296-62-3040.
- F. All PLSA personnel shall be trained to recognize and protect themselves from the hazards on site as described in this Health and Safety Plan.

#### SECTION X - CHANGES TO HEALTH AND SAFETY PLAN

A. This plan is written for general work operations dealing with

underground tank removal. If work conditions change or conditions are found which are not covered by his Health and Safety Plan; such as chemical spill conditions, atmospheric changes and confined space entry, all personnel shall proceed as follows:

- 1. Evacuate the work area in the Support Zone and standby for orders to re-enter.
- 2. The Field Team Leader and Site Safety Officer shall evaluate the change(s) and revise the Health and Safety Plan to incorporate the corrective action(s).
- 3. The Field Team Leader shall assure that all personnel have been advised to these changes and understand the necessary corrective action(s). Only then shall the Field Team Leader give the order to resume work operations.
- 4. If any part of this Health and Safety Plan is not understood, or any necessary change(s) to this Health and Safety Plan is not understood, the PLSA Field Services Safety Department shall be contacted for direction.

## SECTION XI - SITE SAFETY PLAN REVIEW

This document shall be signed by each member of the work team prior to entry to the controlled zones. We have read and understand the contents of this Site Safety Plan and will comply with its provision, requirements, and restrictions.

PRINT NAME	SIGNATURE
PRINT NAME	SIGNATURE

PRINT NAME	SIGNATURE
PRINT NAME	SIGNATURE
PRINT NAME	SIGNATURE
PRINT NAME	STGNATURE