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KB

SITE ASSESSMENT AND INTERMEDIATE CLEANUP

ENGINEERING REPORT

1/2

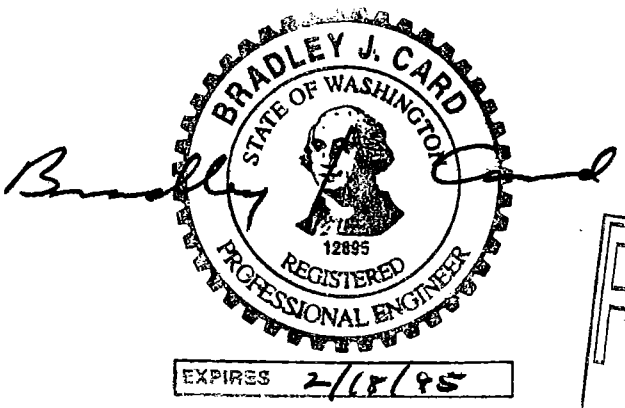
on

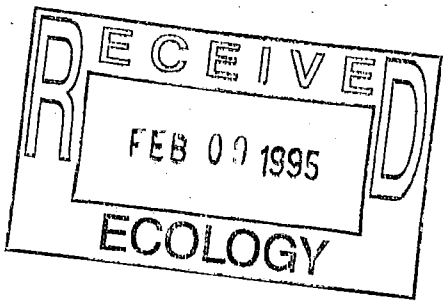
UNDERGROUND STORAGE TANK REMOVAL

for

WASHINGTON BEEF

West Ahtanum Road and Goodman Road
Union Gap, Washington

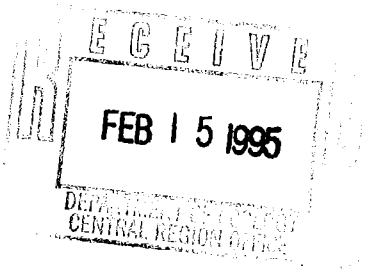




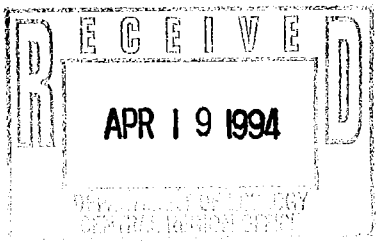
March 1994

Job No. 93361

Prepared by



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



SITE ASSESSMENT AND INTERMEDIATE CLEANUP ENGINEERING REPORT

on

UNDERGROUND STORAGE TANK REMOVAL

for

WASHINGTON BEEF
West Ahtanum Road and Goodman Road
Union Gap, Washington

INTRODUCTION

Washington Beef decided to remove two underground storage tanks (UST) from their premises at Lower Ahtanum Road and Goodman Road, Union Gap, Washington.

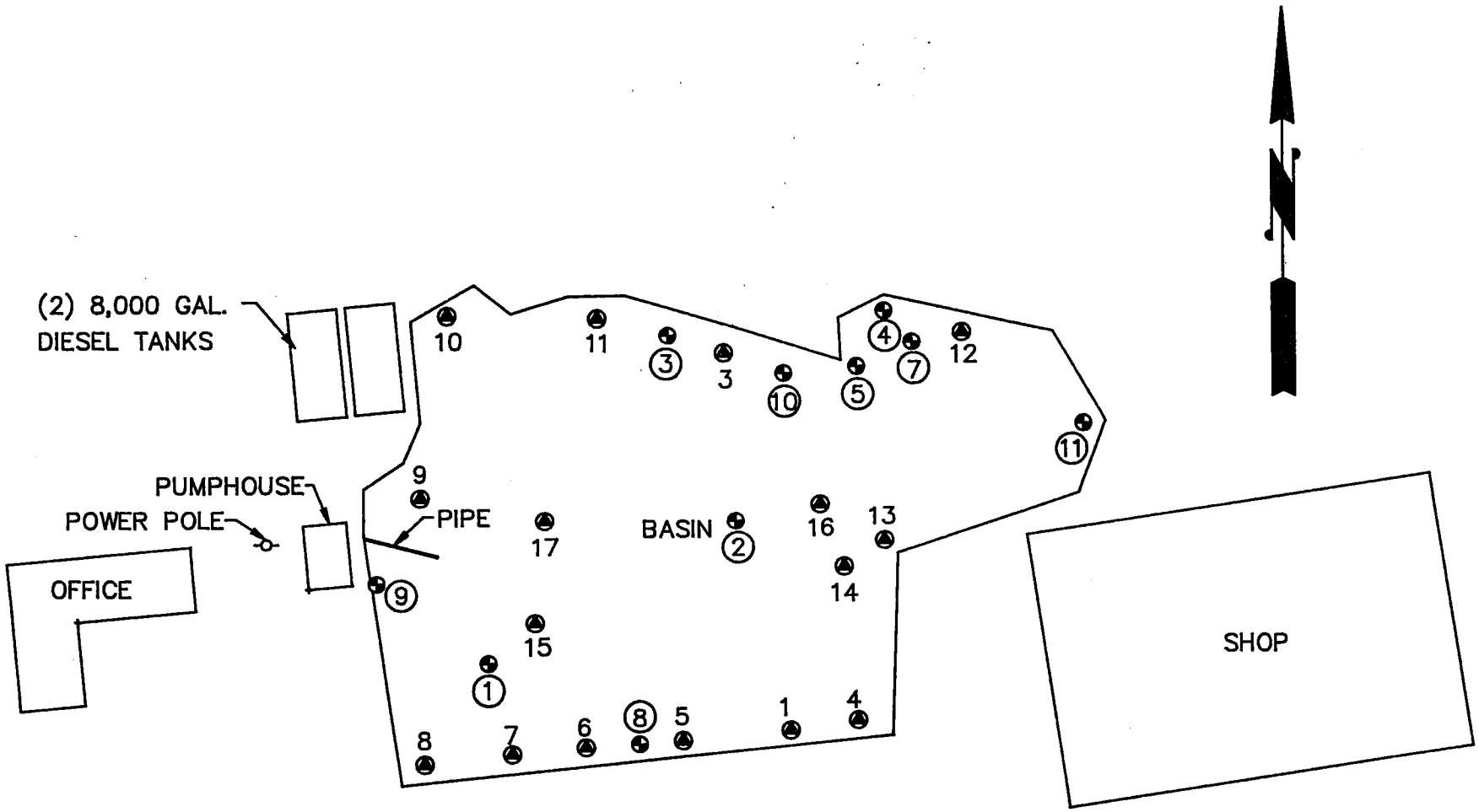
Both tanks were steel, had contained gasoline at last use, and were 1,000 gallons capacity each. After tank removal, petroleum was detected to have been released into the surrounding soil, but the tanks appeared to be in good condition. See Figure 1. The tanks were located in NW 1/4, SW 1/4, SEC 6, TWP 12N, R19-EWM.

This report summarizes site conditions, describes remediation and disposal of petroleum contaminated soil (PCS), and describes intermediate site cleanup. Results of laboratory testing of representative soil samples for characterization of the spilled petroleum, and for presence of Total Petroleum Hydrocarbons (TPH) as determined by Washington State Department of Ecology (WDOE) test methods, and benzene, toluene, ethyl benzene, xylene (BTEX), and lead by United States Environmental Protection Agency (USEPA) test methods as appropriate are included.

An environmental engineer and a geological engineer from PLSA Engineering and Surveying experienced with local soil conditions monitored and provided technical assistance to Washington Beef.

UST and PCS removal and sampling were performed by Cayuse Environmental with Mr. Bryan Mull as project manager, a WDOE licensed tank decommissioning contractor. Ken's Construction provided excavation equipment, trucks, and tank cleaning. Ken Leingang Excavating, Inc. provided pumps and oil separator equipment for dewatering.

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



LEGEND

⊕ (10) – PLSA TEST PIT NUMBER AND LOCATION

▲ 11 – DENOTES CAYUSE ENVIRONMENTAL TEST PIT NUMBER AND LOCATION

30 0 30 60 90 FEET

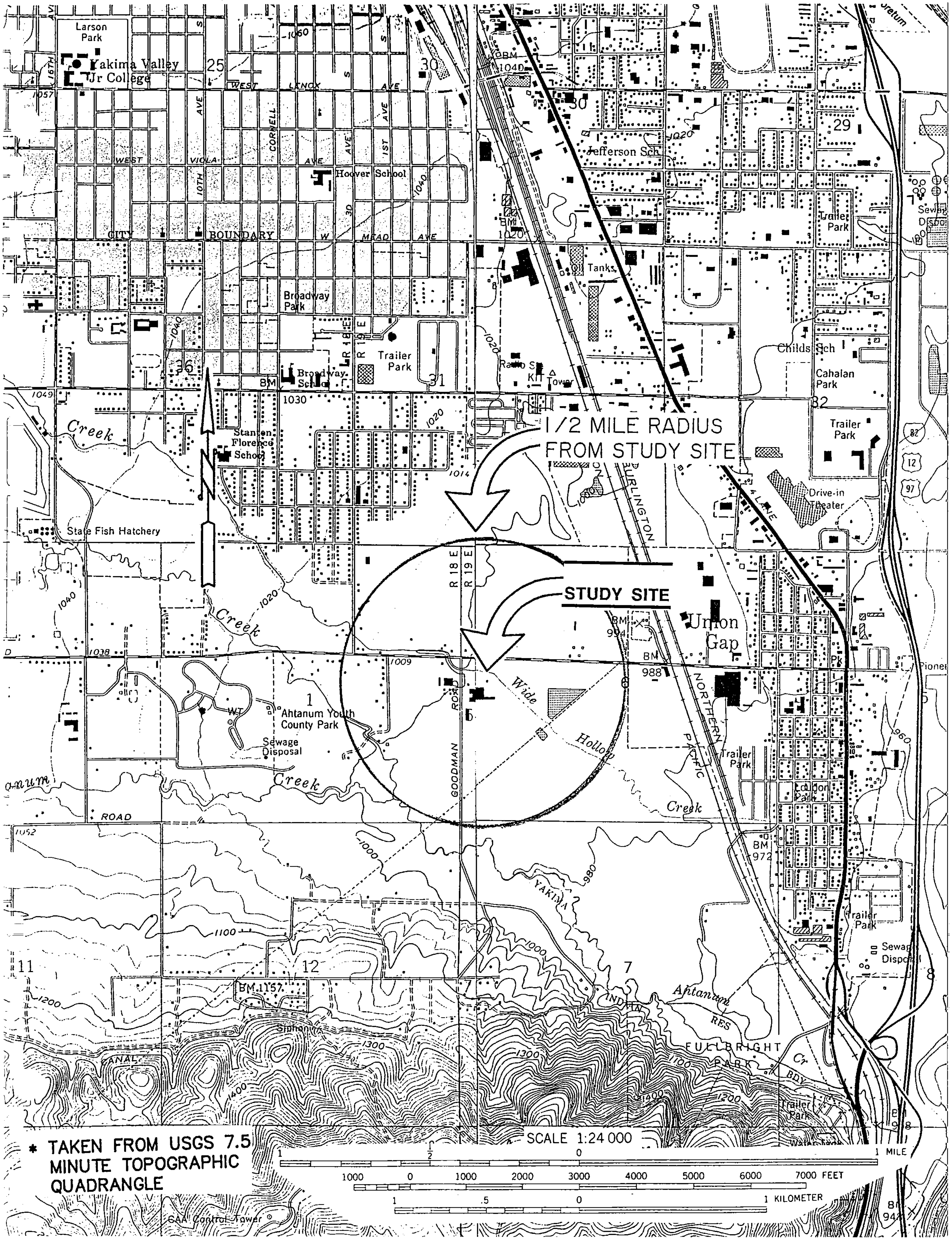
SCALE: 1" = 30'

FIGURE 1

PLSA ENGINEERING–SURVEYING–PLANNING
YAKIMA, WASHINGTON
(509) 575–6990

SITE MAP
FOR
WASHINGTON BEEF, INC.

DRAWN BY: CHUCK
DATE: 2-10-94
JOB NO. 93361


1/2 MILE RADIUS FROM STUDY SITE
STUDY SITE
Larson Park
Yakima Valley Jr College
Hoover School
Jefferson Sch
Broadway Park
Broadway School
Trailer Park
Stanton Florence School
State Fish Hatchery
Childs Sch
Cahalan Park
Drive-in Theater
Ahtanum Youth County Park
Sewage Disposal
Union Gap
Oil Tanks
Radio St KIT Tower
GOODMAN ROAD
Wide Hollow Creek
NORTHERN PACIFIC
BURLINGTON
FULLBRIGHT PARK BDY
INDIAN RES
Ahtanum Cr
CITY BOUNDARY
W MEAD AVE
WEST VIOLA AVE
WEST LENOX AVE
R 18 E
R 19 E
* TAKEN FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
SCALE 1:24 000
1 MILE
7000 FEET
1 KILOMETER
CAA Control Tower

Mr. Dave Stiner
Washington Beef
P.O. Box 9344
Union Gap, Washington 98909
phone (509) 248-3350

SURFACE CONDITIONS

A combination asphaltic concrete paved and graveled parking area covered the tank basins. Wide Hollow Creek is located approximately 100 feet north, and the meat packing facility borders the tank basin on the south. A retired former maintenance supervisor reported that the area has been used for various methods of motor fuel storage since circa 1950 and that he had observed improper handling of petroleum products including overfilling vehicle fuel tanks, and overfilling underground storage tanks.

The area was used as a cattle holding pen or feedlot prior to use as motor fuel storage.

SUB-SURFACE CONDITIONS

Sandy silt topsoil (Uniform Soil Classification System ML) overlies a deep stratum of cobbles, gravel, and sand (USCS classification GW). Ground water was encountered in the tank basin at approximately 9 feet below the surface.

Tanks were bedded in native soil. Petroleum contamination was found from the surface down in most locations. Prior use of the area for cattle holding pens resulted in nutrients and organic material from the cattle penetrating the soil. This resulted in darkened soil which appeared identical to that from staining by petroleum. Presence of nutrients in the soil and ground water and appearance of the soil was evidence that bioremediation had occurred.

From general topography, it appears that the groundwater hydraulic gradient is to the north toward the Wide Hollow Creek located approximately 100 feet north.

SAMPLING PLAN

Representative soil samples were collected from the tank basins and the stockpiled soil by Cayuse Environmental. Additional water and soil samples were collected by PLSA. Those samples collected by PLSA were in sample containers supplied by the analytical laboratory and were clean glass with Teflon lined, screwed caps. Sampling equipment was cleaned between samplings.

Cayuse Environmental samples were stored and shipped to Spectra Laboratories, Tacoma, Washington, WDOE Accreditation

Number C077, by overnight express in a refrigerated, insulated container.

Samples collected by PLSA were similarly collected, refrigerated and shipped to Sound Analytical Laboratory, Fife, Washington, WDOE Accreditation No. C027. One water sample collected by PLSA was received directly and analyzed for petroleum hydrocarbons by method EPA 418.1 by TR Applied Science of Yakima, Washington.

Sample locations are depicted one Figure 1. Laboratory analytical reports may be found in Appendix I.

CONTAMINANT CHARACTERIZATION

Samples from below the various tanks were collected and submitted to a laboratory for analysis for contaminant characterization by WDOE WTPH-G and WTPH-418.1 modified analyses. Characterization using these analyses found gasoline contamination in excess of 13,000 mg/kg and total petroleum hydrocarbon concentration at 24,000 mg/kg. Heavy oil in the waste oil tank basin was the only contaminant found to be in excess of WDOE Model Toxics Control Act (MTCA) WAC 173-340 cleanup regulations.

Gasoline release appeared to have originated from an improperly tightened fitting at a dispenser. Diesel contamination was from earlier releases from unknown sources and/or improper handling, such as overfilling.

A Photovac TIP I ultraviolet analyzer was used to scan the limits of the cleanup excavation for Volatile Organic Compounds (VOC's). No significant VOC indication was found in the gasoline tank basin. Petroleum odor indication was detected when soil in the tank basin was disturbed during the cleanup excavation. Petroleum odor in darkened soil diminished rapidly with distance from the tank basin. Soil odor changed to swampy. Sample jar head space odors were not typical of gasoline or diesel. It appeared that presence of nutrients had resulted in reduction of petroleum contamination by bioremediation.

CLEANUP METHOD

Locally available excavation equipment furnished by Ken's Construction was used for tank and PCS removal. Cleanup by excavation of PCS and immediate transport to Ron Anderson's Rocky Top Decontamination Site was necessary because the PCS was not allowed to be stored on site.

CONTAMINANT REMOVAL AND PROPOSED INTERMEDIATE CLEANUP

A Photovac TIP 1 photoanalyzer was used to detect VOC's, and a GASTECH 1314 SMPN combustible gas indicator (CGI) was used to detect combustible mixtures as contaminated soil was removed until significant readings were no longer obtained in the walls of the

excavation or until the excavation began to threaten buildings or other improvements. Representative soil samples were then collected and submitted for laboratory analysis to verify the TIP and CGI results. Results of the laboratory analysis may be found in Appendix I and summarized in Figure 1.

PCS extended downward to the bottom of the excavation, 10 feet below the surface, which was 2 feet below the free ground water surface. The excavation was dewatered using a pump discharging to an API oil separator followed by a coalescing plate oil separator. It appeared that petroleum contamination in soil decreased rapidly with distance from the location of the tank. Groundwater characterization contamination was only 2 mg/l which is 1 mg/l above MTCA method A cleanup level. Low groundwater petroleum concentration (TPH) may in part attributed to the presence of nutrients in the ground water making bioremediation possible. Ground water samples collected from the completed clean up analyzed less than 1 mg/l TPH which is within MTCA (WAC 173-340-740 Method A) cleanup levels.

Analytical results of samples of both soil and ground water from the completed cleanup are all within the levels specified in WAC 173-340-740 Method A (MTCA) with the exception of one sample from the west side of the excavation at the footing of a small building. This sample contained 1,100 mg/kg aged gasoline, light diesel, or heavy oil concentration. Benzene and toluene were not detected in this sample and ethylbenzene, xylenes, and lead were below MTCA action values. No free product was observed and petroleum odor was slight at the sample location. Any further excavation at this location would jeopardize an adjacent small building.

It appears that passive bioremediation will eliminate the remaining petroleum contamination at about the same rate as would other in-situ methods, such as soil venting.

Intermediate cleanup is recommended with no further action necessary or recommended.

RISK ANALYSIS

Final sampling found groundwater and all soil sample locations to be below MTCA action values except one soil sample on the west side of the excavation limit next to a building. There is ample evidence that passive bioremediation has and is taking place. This is possibly due to the nutrient content of the soil in the former feedlot. Domestic water for the area is supplied by the City of Union Gap.

Remaining contaminated soil is isolated from contact by humans or animals by approximately 9 feet of clean backfill and ground water is not contaminated. Benzene was not found. Remaining petroleum contamination is limited to the higher molecular weight fractions, which are of relatively low toxicity.

Passive bioremediation is expected to destroy the remaining petroleum contamination with time.

DISPOSAL OF CONTAMINATED SOIL

The excavated PCS was transported to Anderson's Rocky Top Decontamination Site for remediation by land farming.

DISPOSAL OF TANKS AND PIPING

Cayuse Environmental reported that tanks were inerted with dry ice, cut open, scraped and cleaned with solzall to remove remaining product. The cleaned tanks were then reported to have been delivered to Douglas Wrecking in Wapato, Washington for disposal. See letter Appendix IV.

SITE CLOSURE

The cleanup excavation will be backfilled with clean soil, and restored to the original use as a parking area.

CONCLUSIONS

All final soil and groundwater samples were within the levels specified in WAC 173-340-740 Method A with the exception of one soil sample from the west end of the excavation. Removal of this relatively low-toxicity residual contamination would jeopardize permanent improvements. Passive bioremediation appears to be occurring at the excavation limits, so no further action is recommended or necessary.

LOCAL DOCUMENTED WATER WELLS

Domestic water is supplied by the City of Union Gap water system for the area. Logs of documented domestic water wells within one half mile radius of the site may be found in Appendix III.

CHECKLISTS

Completed Site Assessment and Independent Remedial Action Report Summary checklists may be found in Appendices IV and V, respectively.

APPENDIX I

Analytical Results

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

November 30, 1993

Cayuse Environmental
60 Olden Way
Toppenish WA 98948

Attn: Bryan Mull

Project: Wash. Beef
Sample Matrix: Soil
Date Sampled: 11-15-93
Date Received: 11-16-93
Date Analyzed: 11-30-93
Spectra Project: S311-104

Spectra #	Sample ID:	WTPH-G, mg/Kg	Surrogate Recovery Trifluorotoluene
6425	9323-01	13,269	8831%*
6426	9323-02	624	94%
6427	9323-03	2,792	67%
6428	9323-04	11,131	6061%*
6429	9323-05	<20	108%
6430	9323-06	1,491	64%
Method Blank		<20	108%

*Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

November 30, 1993

Cayuse Environmental
60 Olden Way
Toppenish WA 98948

Attn: Bryan Mull

P.O. #9323
Project: Wash. Beef
Sample Matrix: Soil
Date Sampled: 11-15-93
Date Received: 11-16-93
Spectra Project: S311-104
RUSH

Spectra #	ID	Total Petroleum Hydrocarbons, mg/Kg
6425	9323-01	14,000
6426	9323-02	9,500
6427	9323-03	24,000
6428	9323-04	10,000
6429	9323-05	210
6430	9323-06	550

Total Petroleum Hydrocarbons testing performed by WTPH-418.1 Modified

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

APPENDIX II

Intermediate Analytical Results

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: December 16, 1993

Report On: Analysis of Soil

Lab No.: 36807

IDENTIFICATION:
Samples received on 12-15-93
Project: 93361

ANALYSIS:

Lab Sample No. 36807-1 Client ID: 1

WTPH-D
Date Extracted: 12-15-93
Date Analyzed: 12-16-93

Parameter	Result, mg/kg	PQL	Flag
Diesel (> C12 - C24)	ND	25	

SURROGATE RECOVERY, %

o-terphenyl	114

ND - Not Detected
PQL - Practical Quantitation Limit

Continued . . . . .

SOUND ANALYTICAL SERVICES, INC.

PLSA Engineering
Project: 93361
Lab No. 36807

December 16, 1993

Lab Sample No. 36807-2 Client ID: 2

WTPH-D
Date Extracted: 12-15-93
Date Analyzed: 12-16-93

Parameter	Result, mg/kg	PQL	Flag
Diesel (> C12 - C24)	77	25	X1

SURROGATE RECOVERY, %

o-terphenyl	116

X1 - Aged or degraded diesel

Lab Sample No. 36807-3 Client ID: 3

Parameter	Result, mg/kg	PQL	Flag
Diesel (> C12 - C24)	ND	25	

SURROGATE RECOVERY, %

o-terphenyl	115

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering

Date: December 17, 1993

Report On: Analysis of Soil

Lab No.: 36842
Page 1 of 2

IDENTIFICATION:
Samples received on 12-16-93
Project: 93361

ANALYSIS:

Lab Sample No. 36842-1 Client ID: 4

WTPH-D
Date Extracted: 12-16-93
Date Analyzed: 12-17-93

Parameter	Result, mg/kg	PQL	Flag
Diesel (> C12 - C24)	ND	33	

SURROGATE RECOVERY, %

o-terphenyl	107

ND - Not Detected
PQL - Practical Quantitation Limit

Continued . . . . .

SOUND ANALYTICAL SERVICES, INC.

PLSA Engineering
Project: 93361
Lab No. 36842
Page 2 of 2
December 17, 1993

Lab Sample No. 36842-2 Client ID: 5

WTPH-D
Date Extracted: 12-16-93
Date Analyzed: 12-17-93

Parameter	Result, mg/kg	PQL	Flag
Diesel (> C12 - C24)	ND	36	

SURROGATE RECOVERY, %

o-terphenyl	109

Lab Sample No. 36842-3 Client ID: 6

WTPH-D
Date Extracted: 12-16-93
Date Analyzed: 12-17-93

Parameter	Result, mg/kg	PQL	Flag
Diesel (> C12 - C24)	ND	33	

SURROGATE RECOVERY, %

o-terphenyl	109

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering Date: January 28, 1994

Report On: Analysis of Water Lab No.: 37692

IDENTIFICATION:
Sample received on 01-27-94
Project: 93361

ANALYSIS:

Lab Sample No. 37692-1 Client ID: 7

WTPH-G with BTEX by EPA Method 8020
Date Analyzed: 1-28-94

Parameter	Result, mg/L	PQL	Flag
Gasoline (C7 - C12)	ND	0.10	
Benzene	ND	0.001	
Toluene	ND	0.001	
Ethyl Benzene	0.001	0.001	
Xylenes	0.003	0.001	

SURROGATE RECOVERY, %

Trifluorotoluene	91

ICP Metals Per EPA Method 6010
Date Analyzed: 1-28-94

Parameter	Result, mg/L	PQL
Lead	ND	0.05

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

SPECIALIZING IN INDUSTRIAL & TOXIC WASTE ANALYSIS

4813 PACIFIC HIGHWAY EAST, TACOMA, WASHINGTON 98424 - TELEPHONE (206)922-2310 - FAX (206)922-5047

Report To: PLSA Engineering Date: February 10, 1994

Report On: Analysis of Soil Lab No.: 37955

IDENTIFICATION:
Samples received on 02-08-94
Project: 93361

ANALYSIS:

Lab Sample No. 37955-1 Client ID: 8

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 2-8-94
Date Analyzed: 2-10-94

Parameter	Result, mg/kg	PQL	Flag
Gasoline (C7 - C12)	2.0	1.4	
Benzene	ND	0.07	
Toluene	0.19	0.07	
Ethyl Benzene	ND	0.07	
Xylenes	ND	0.07	

SURROGATE RECOVERY, %

Trifluorotoluene	69

ICP Metals Per EPA Method 6010
Date Analyzed: 2-9-94

Parameter	Result, mg/kg	PQL
Lead	6.1	3.4

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

PLSA Engineering
Project: 93361
Lab No. 37955
February 10, 1994

Lab Sample No. 37955-2 Client ID: 9

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 2-8-94
Date Analyzed: 2-10-94

Parameter	Result, mg/kg	PQL	Flag
Gasoline (C7 - C12)	1,100	13	X1
Benzene	ND	0.64	
Toluene	ND	0.64	
Ethyl Benzene	1.6	0.64	
Xylenes	4.8	0.64	
SURROGATE RECOVERY, %			
Trifluorotoluene	NR		X8

X1 - Aged gas, light diesel or heavier oil

ICP Metals Per EPA Method 6010
Date Analyzed: 2-9-94

Parameter	Result, mg/kg	PQL
Lead	7.4	3.0

NR - Not Reported
ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

PLSA Engineering
Project: 93361
Lab No. 37955
February 10, 1994

Lab Sample No. 37955-3 Client ID: 10

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 2-8-94
Date Analyzed: 2-10-94

Parameter	Result, mg/kg	PQL	Flag
Gasoline (C7 - C12)	3.9	1.4	
Benzene	ND	0.07	
Toluene	ND	0.07	
Ethyl Benzene	ND	0.07	
Xylenes	ND	0.07	
SURROGATE RECOVERY, %			
Trifluorotoluene	71		

ICP Metals Per EPA Method 6010
Date Analyzed: 2-9-94

Parameter	Result, mg/kg	PQL
Lead	18	3.0

ND - Not Detected
PQL - Practical Quantitation Limit

SOUND ANALYTICAL SERVICES, INC.

PLSA Engineering
Project: 93361
Lab No. 37955
February 10, 1994

Lab Sample No. 37955-4 Client ID: 11

WTPH-G with BTEX by EPA Method 8020
Date Extracted: 2-8-94
Date Analyzed: 2-10-94

Parameter	Result, mg/kg	PQL	Flag
Gasoline (C7 - C12)	1.8	1.3	
Benzene	ND	0.07	
Toluene	ND	0.07	
Ethyl Benzene	ND	0.07	
Xylenes	ND	0.07	
SURROGATE RECOVERY, %			
Trifluorotoluene	74		

ICP Metals Per EPA Method 6010
Date Analyzed: 2-9-94

Parameter	Result, mg/kg	PQL
Lead	6.9	3.1

ND - Not Detected
PQL - Practical Quantitation Limit

APPLIED SCIENCE

1106 Ledwich Ave., Yakima, WA 98902 (509) 248-4695 FAX (509) 452-1265

Chemistry, Microbiology, and Technical Services

IENT : Cayuse Environmental

Certificate of Analysis

Work Order # T3-12-112

TESTS PERFORMED AND RESULTS:

Analyte	Units	01
Total Solids in Soil	%	88.
WTPH-418.1	mg/kg DB	70.

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

December 17, 1993

Cayuse Environmental
60 Olden Way
Toppenish, WA 98948

Attn: Gordon Mull

P.O. #9323
Sample Matrix: Water
Date Sampled: 12-14-93
Date Received: 12-16-93
Date Analyzed: 12-17-93
Spectra Project: S312-118
RUSH

Spectra #	Sample ID:	WTPH-D, ug/L	Surrogate Recovery p-terphenyl
8080	9323-002	740	53
8081	9323-003	902	67

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

SPECTRA Laboratories, Inc.

2221 Ross Way • Tacoma, WA 98421 • (206) 272-4850

December 17, 1993

Cayuse Environmental
60 Olden Way
Toppenish, WA 98948

Attn: Gordon Mull

P.O. #9323
Sample Matrix: Soil
Date Sampled: 12-14-93
Date Received: 12-16-93
Date Analyzed: 12-17-93
Spectra Project: S312-118
RUSH

Spectra #	Sample ID:	WTPH-D, mg/Kg	Surrogate Recovery p-terphenyl
8082	9323-004	<25	76
8083	9323-005	<25	74
8084	9323-006	<25	39*
8085	9323-007	<25	101
8086	9323-008	<25	76
8087	9323-009	52	59
8088	9323-010	<25	26*
8089	9323-011	<25	78
8090	9323-012	<25	103
8091	9323-013	<25	31*
8092	9323-014	58	65
8093	9323-015	<25	76
8094	9323-016	<25	52
8095	9323-017	<25	73

* Out of limits due to sample matrix effects.

SPECTRA LABORATORIES, INC.

Steven G. Hibbs, Chemist

APPENDIX III

Documented Well Logs

7012

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

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 087461

Water Right Permit No. K

(1) OWNER: Name Robert H. Bartsch Address 2608 S. 1st Ave. Union Gap, WA 98903

(2) LOCATION OF WELL: County Yakima ~~SE~~ NW ¼ ~~NW~~ SE ¼ Sec 1 T. 12 N., R. 18 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) Parcel # 18 12 01-42004

(3) PROPOSED USE: [X] Domestic [ ] Irrigation [ ] DeWater Industrial [ ] Test Well [ ] Municipal [ ] Other [ ]

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

Abandoned [ ] New well [X] Deepened [ ] Reconditioned [ ] Method: Dug [ ] Cable [ ] Rotary [X] Bored [ ] Driven [ ] Jetted [ ]

(5) DIMENSIONS: Diameter of well 10 x 6 inches.
Drilled 121 feet. Depth of completed well 121 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +2 ft. to 118 ft.
Welded [X] ____ " Diam. from ____ ft. to ____ ft.
Liner installed [ ]
Threaded [ ] ____ " Diam. from ____ ft. to ____ ft.

Perforations: Yes [ ] No [X]
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 [X]
Manufacturer's Name
Type ____ Model No.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes [ ] No [X] Size of gravel
Gravel placed from ____ ft. to ____ ft.

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

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

(8) WATER LEVELS: Land-surface elevation above mean sea level ____ ft.
Static level 54 ft. below top of well Date 7-9-92
Artesian pressure ____ lbs. per square inch Date
Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom?
Yield: 50 gal./min. with ____ ft. drawdown after ____ hrs.
"Estimated air lift 50 GPM"

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test ____ gal./min. with ____ ft drawdown after ____ hrs.
Airtest ____ gal./min. with stem set at ____ ft. for ____ hrs.
Artesian flow ____ g.p.m. Date
Temperature of water ____ Was a chemical analysis made? Yes [ ] No [ ]

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
Top soil brown soft	0	1
Clay brown	1	12
Clay & gravel dark brown medium	12	95
Clay tan w/sand & gravel soft	95	110 tra
Sandstone multi color medium	110	121 wat

JUL 20 1992

6" Drive shoe utilized

Work started 7-8-92, 19. Completed 7-9, 1992

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 Ponderosa Drilling & Development, Inc. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address E. 6010 Broadway Spokane, WA 99212
(Signed) Chris Hayes (WELL DRILLER) (Chris Hayes) License No. 1908
Contractor's Registration No. PO-ND-EI*248JE Date 7-13, 1992

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) **OWNER:** Name Raymond Andrews Address 2610 South 1st Avenue City

(2) **LOCATION OF WELL:** County Yakima — NW ¼ SE ¼ Sec 01 T 12 N., R 18 W.M.
Bearing and distance from section or subdivision corner

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

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

(5) **DIMENSIONS:** Diameter of well 5 inches.
Drilled ..... ft. Depth of completed well 57 ft.

(6) **CONSTRUCTION DETAILS:**
Casing installed: 5 " Diam. from 0 ft. to 48 3/4 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded XX ..... " Diam. from ..... ft. to ..... ft.

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

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

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

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

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

(8) **WATER LEVELS:** Land-surface elevation above mean sea level .... 1009 ft.
Static level 4 ft 10 in ft. below top of well Date 1-30-74
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No XX If yes, by whom? .....
Yield: 20 gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water 55 Was a chemical analysis made? Yes ☐ No ☐

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

MATERIAL	FROM	TO
Top Soil - Brown	0	12
Conglomerate & Loose Gravel Brown	12	16
Conglomerate - Very Hard Dark Brown	16	26
Sand With Conglomerate Light Brown	26	27
Conglomerate - Dark Brown	27	45½
Conglomerate - Extra Hard Drilling Brown	45½	48
Conglomerate - Light Brown	48	-

Work started 1/29 19 74 Completed 1/30 19 74

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 Jensens Well Drilling & Driving
(Person, firm, or corporation) (Type or print)

Address 1603 South 10th Avenue

[Signed] Chris B. Jensen Jr.
(Well Driller)

License No. 0217 Date 2/6 19 74

S. F. No. 7356—OS—(Rev. 4-71). 2/21/74 (USE ADDITIONAL SHEETS IF NECESSARY)

SW¼NW¼ Sec. 2 T12 R18

File Original and First Copy with Department of Ecology
2nd Copy—Owner's Copy
3rd Copy—Driller's Copy

WATER WELL REPORT

STATE OF WASHINGTON

3957

Start Card No. 36648

1) OWNER: Name GARY WILLOUGHBY Water Right Permit No. IS

Address 715 MEADOWBROOK YAKIMA WA.

2) LOCATION OF WELL: County YAKIMA NW ¼ NE ¼ Sec. 1 T. 12 N., R. 18 W.M.

STREET ADDDRESS OF WELL (or nearest address) 2406 S. 6TH AVE, YAKIMA WA. 98903

3) PROPOSED USE: [X] Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ] DeWater

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

[ ] Abandoned [ ] New well [X] Method: Dug [ ] Bored [ ] Deepened [ ] Cable [ ] Driven [ ] Reconditioned [ ] Rotary [X] Jetted [ ]

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

6) CONSTRUCTION DETAILS:

Casing installed: [X] Welded 6" Diam. from +2 ft. to 118 ft.
[ ] Threaded _____ Diam. from _____ ft. to _____ ft.

Perforations: Yes [ ] No [X]
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 [X]
Manufacturer's Name
Type Model No.
Diam. Slot size from ft. to ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes [ ] No [X] Size of gravel
Gravel placed from ft. to ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.
Material used in seal BENTONITE
Did any strata contain unusable water? Yes [ ] No [X]
Type of water? Depth of strata
Method of sealing strata off

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

8) WATER LEVELS: Land-surface elevation above mean sea level
Static level 14 ft. below top of well Date 10-1-90
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom?
gal./min. with ft. drawdown after hrs.
" " " "
" " " "
Recovery data (time taken as zero when pump turned off) (water level measured from top to water level)

Water Level	Time	Water Level	Time	Water Level

Date of test
0 gal./min. with ft. drawdown after hrs.
gal./min. with stem set at ft. for hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL		FROM	TO
TOP SOIL	S	0	2
SANDY CLAY	S	2	7
GRAVEL COBBLES & SAND	MH	7	27
GRAVEL COBBLES & CLAY	MH	27	33
SAND COBBLES & GRAVEL	MH	33	70
COBBLES GRAVEL WOOD, CLAY, SHALE	MH	70	108
GRAVEL CLAY	MH	108	110
GRAVEL SANDSTONE	MH	110	120

Work started 9-28-90, 19. Completed 10-1-90, 19.

WELL CONSTRUCTOR CERTIFICATION:

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

NAME RIEBE WELL DRILLING INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address POBOX 10866 YAK WA.

(Signed) WEATZ (WELL DRILLER) License No. 1828

Contractor's Registration No. 132K1 Date 10-6-90, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

-1329-

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. ....

(1) OWNER: Name Robert E. Palmer Address 102 Market St. Union Gap Wn

(2) LOCATION OF WELL: County Yakima ¼ ¼ Sec 6 T 12 N., R 19E W.M.

and distance from section or subdivision corner Lot 1 Devoe Addition

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled ..... ft. Depth of completed well 20 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2 " Diam. from 0 ft. to 20 ft.
Threaded [ ] ..... " Diam. from ..... ft. to ..... ft.
Welded [ ] ..... " Diam. from ..... ft. to ..... ft.

Perforations: Yes [ ] No [ ]
Type of perforator used .....
SIZE of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

Screens: Yes [ ] No [ ]
Manufacturer's Name .....
Type ..... Model No .....
Diam. ..... Slot size ..... from ..... ft. to ..... ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

Gravel packed: Yes [ ] No [ ] Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

Surface seal: Yes [X] 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 .....
Type: 8ft 4 inches H.P .....

(8) WATER LEVELS: Land-surface elevation above mean sea level .... 980 ft.
Static level 8ft 4 inches ft. below top of well Date 5/18/74
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [ ] If yes, by whom? .....
Yield: 20 gal./min. with ft. drawdown after hrs.
" " " "
" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water 54 Was a chemical analysis made? Yes [ ] No [ ]

(10) WELL LOG:

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

MATERIAL	FROM	TO
Top Soil	0	2
Conglomerate	2	-

RECEIVED
JUN 20 1974
DEPARTMENT OF ECOLOGY
SPOKANE REGIONAL OFFICE

RECEIVED
JUL 2 1974
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 5/18 74 Completed 5/18 74

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 Jensens Well Drilling & Driving
(Person, firm, or corporation) (Type or print)

Address 1603 South 10th Avenue

[Signed] Florence M. Jensen (Well Driller)

License No. 0218 Date 6/19 74

6/21/74

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71).

4254

SOIL SAMPLING SERVICE, INC.

1415 MERIDIAN EAST, PUYALLUP, WA 98371-1399

FEDERAL ID #: 91-0762274 WA CONT. #SOIL SS*344LO

(206) 927-3173
TELEX: 466762
FAX: (206) 927-3478

Geotechnical, Engineering & Mineral Exploration Drilling • Instrumentation • Horizontal Drains

Ground Water Monitoring • Hazardous Waste Identification • Well Abandonments

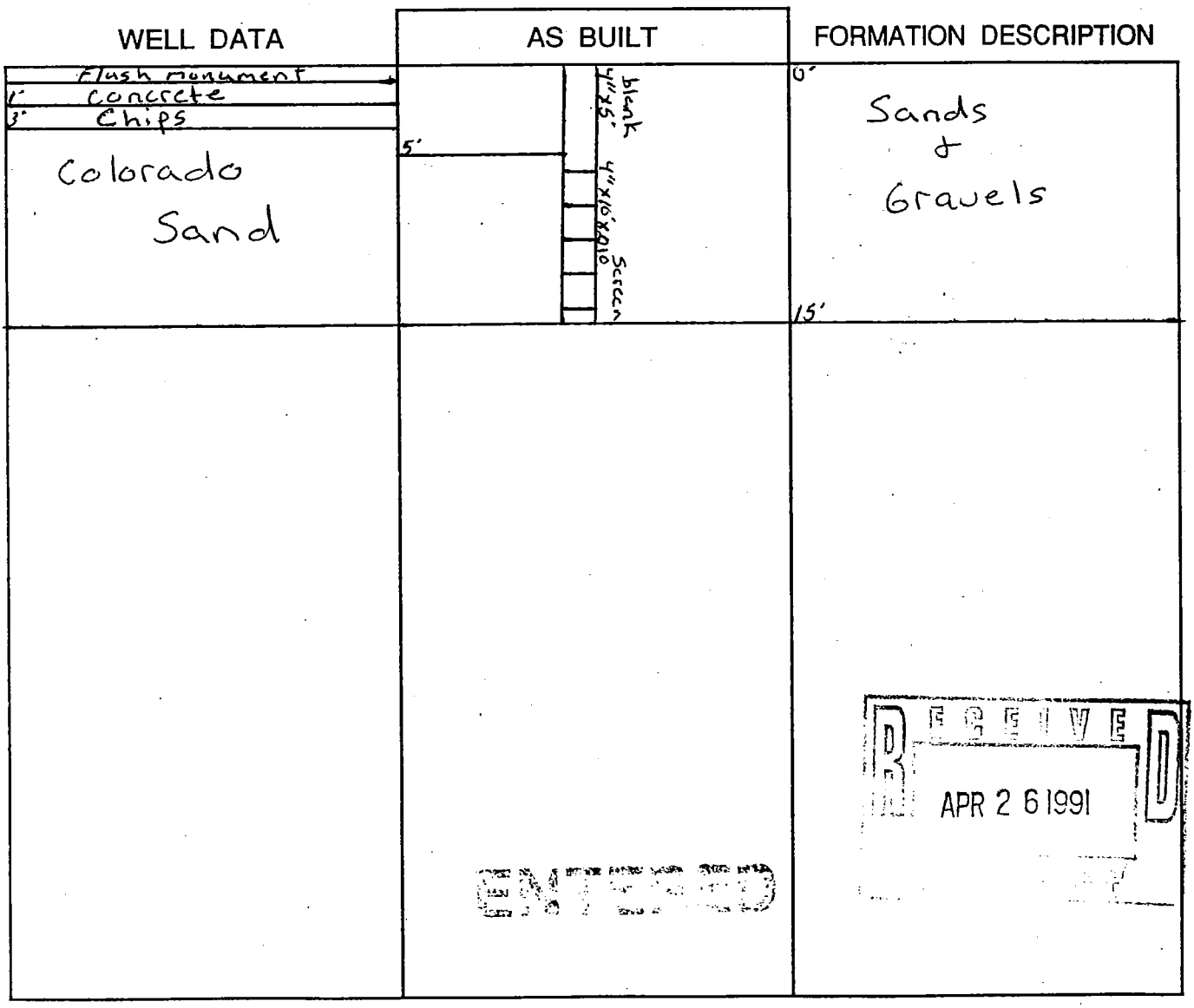
RESOURCE PROTECTION WELL REPORT

A

PROJECT NAME: North West Truck
WELL IDENTIFICATION NO.: MW-1
DRILLING METHOD: Air Rotary
DRILLER: Harold Niswander

SIGNATURE: Harold Niswander
CONSULTING FIRM: SAIC
REPRESENTATIVE: Barbara Blackburn

JOB #: W29415 START CARD NO.: 062464
COUNTY: Yakima CITY: Union Gap
LOCATION: NE 1/4 NE 1/4 ____ 1/4
SEC.: 6 TOWN: 12N RANGE: 19E
DATUM: ____
WATER LEVEL ELEVATION: ____
INSTALLED: 4-15-91
DEVELOPED: ____



SCALE: 1" = _____

PAGE _____ OF _____

File Original and First Copy with Department of Ecology
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WATER WELL REPORT

STATE OF WASHINGTON

Application No. /

Permit No. ....

(1) OWNER: Name Lucienne Easley Address ~~[illegible]~~

LOCATION OF WELL: County YAKIMA — NW¼ NW¼ Sec. 6 T. 12N N., R. 19W W.M.

Bearing and distance from section or subdivision corner

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

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

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

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 76 ft.
Threaded ☐ " Diam. from ... ft. to ... ft.
Welded ☑ " Diam. from ... ft. to ... ft.

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

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

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

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

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

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

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? Air Lift
Yield: 15 gal./min. with ... ft. drawdown after ... hrs.
" " " "
" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG: D

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

MATERIAL	FROM	TO
Top Soil Brown	0	16
Sand & Gravel	16	47
Clay Lt Brown	47	76
& B Clay Broken	76	80

[illegible] - 5 1981

Work started 9/29, 19 81 Completed 9/30, 19 81

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

Address Rt 3 Bx 3356

[Signed] Rick Pool
(Well Driller)

License No. 942 Date 9/30, 19 81

(USE ADDITIONAL SHEETS IF NECESSARY) EP 11-9-81

ECY 050-1-20

le Origi... First Copy with
ep:.tment of Ecology
econd Copy — Owner's Copy
hird Copy — Driller's Copy

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) **OWNER:** Name Marvin Yancey Address Moxee Utah

(2) **LOCATION OF WELL:** County Yakima SE ¼ SW ¼ Sec. 6 T. 12 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

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

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 96 ft. Depth of completed well 96 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 " Diam. from 0 ft. to 54 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

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

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

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

Surface seal: Yes ☒ No ☐ To what depth? 52 ft.
Material used in seal Bentonite
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

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

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 14 ft. below top of well Date 8-27-76
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☐ If yes, by whom? .....
Yield: 50 gal./min. with ..... ft. drawdown after ..... hrs.
" Pumped with Air " "
" " " "

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 .....
...er test ..... gal./min. with ..... ft. drawdown after ..... hrs.
...an flow ..... g.p.m. Date .....
...emperature of water ..... Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

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

MATERIAL	FROM	TO
Clay	0	6
Black Mud	6	35
Sandstone & Rock layers	35	50
Gumbo Clay	50	65
Sandstone layers + Water	65	90
Gravel + Water	90	96

RECEIVED
OCT 15 1976
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 8-27, 19 76. Completed 8-27, 19 76

WELL DRILLER'S STATEMENT:

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

NAME Eastwood Drilling Inc
(Person, firm, or corporation) (Type or print)
Address 2202 River Rd. Yakima Wa
[Signed] Chester A Eastwood
(Well Driller)
License No. 0112 Date 8-28, 19 76

(USE ADDITIONAL SHEETS IF NECESSARY)

S. F. No. 7356—OS—(Rev. 4-71)
ECY-070-28

WWM

3

1693

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

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 25601

Water Right Permit No. _____

(1) OWNER: Name United Builders Address PO Box 9488, Yak 98909

(2) LOCATION OF WELL: County Yakima NE ¼ SE ¼ Sec 6 T. 12 N., R. 19 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) ~~REGINA~~ KATEE NAH Way Union Gap

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

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

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☒ Bored ☐ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 6 feet. Depth of completed well 58 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +3 ft. to 57 ft.
Welded ☐ Liner installed ☐ Threaded ☐ " Diam. from ____ ft. to ____ ft.

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

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

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

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

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

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level 8' 6" ft. below top of well Date 5-
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL		FROM	TO
Top Soil Gravel	m	0	4
Sand Gravel	m H	4	9
Silt Sand Gravel Cobbles, Trace	H	9	28
Silt Sand Gravel Cobbles - Trace		28	58
42-54 GPM			

RECEIVED
MAY 15 1989
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 5-9-89, 19. Completed 5-10-89, 19

WELL CONSTRUCTOR CERTIFICATION:

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

NAME Riebe Well Drilling Inc (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address P.O. Box 10866 Yakima Wa. 98909

(Signed) Steve Mills (WELL DRILLER) License No. 1335

Contractor's Registration No. 132K1 Date 5-10-89, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

624

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) OWNER: Name Don Mittleider Address 3405 3rd St., Union Gap

(2) LOCATION OF WELL: County Yakima — SW ¼ SW ¼ Sec. 6 T. 12 N., R. 19 W.M.

ing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 6 inches.
Drilled 43 ft. Depth of completed well 43 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 41 ft.
Threaded [ ] " Diam. from ... ft. to ... ft.
Welded [X] " Diam. from ... ft. to ... ft.

Perforations: Yes [ ] No [X]
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 [X]
Manufacturer's Name ...
Type ... Model No. ...
Diam. ... Slot size ... from ... ft. to ... ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes [ ] No [X] Size of gravel: ...
Gravel placed from ... ft. to ... ft.

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

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

(8) WATER LEVELS: Land-surface elevation above mean sea level .... ft.
Static level 14 ft. below top of well Date 3-20-88
Artesian pressure ... lbs. per square inch Date ...
Artesian water is controlled by ... (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ...
Bailer test 42 gal./min. with ... ft. drawdown after ... hrs.
Artesian flow ... g.p.m. Date ...
Temperature of water ... Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG:

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

MATERIAL	FROM	TO
Topsoil	0	3
small gravel & large gravel & overburden & sand	3	23
small gravel & large gravel & sand & water	23	43

RECEIVED
MAY 25 1988

Work started 3-20 19 88 Completed 3-20 19 88

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 Water Wells Drilling
(Person, firm, or corporation) (Type or print)

Address 5503 Ahtanum Rd.

[Signed] ... (Well Driller)

License No. 1435 Date 3-21 19 88

(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 WASHINGTON

Application No. R
Permit No. G4-29872

(1) **OWNER:** Name Union Gap West Mobile Ct. Address 408 W. Pine, Union Gap, Wa.

(2) **LOCATION OF WELL:** County Yakima — SE ¼ SE ¼ Sec. 6 T. 12 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

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

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

(5) DIMENSIONS: Diameter of well 8 inches.
Drilled 80 ft. Depth of completed well 80 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 8 " Diam. from +1 ft. to 76 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

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

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

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

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

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

(8) WATER LEVELS: Land-surface elevation above mean sea level.... ft.
Static level 17 ft. below top of well Date 11/15/86
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test
Bailer test 200 gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

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

MATERIAL	FROM	TO
Topsoil	0	8
Soil, silt, Lg. Gravel	8	28
Brown clay & gravel	28	58
Sand, gravel, & water	58	80

RECEIVED
JAN 12 1987

Work started 11/12/86, 19 Completed 11/15/86, 19

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 Rd. Yakima, Wa. 98903

[Signed] Vernon L. Rank
(Well Driller)

License No. 0854 Date 11/16/86, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY-050-1-80 3

187

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. G1105706 011506

Permit No. ....

(1) **OWNER:** Name HL FRANK Address DAMES & MOORE P.O 4405

(2) **LOCATION OF WELL:** County YAKIMA — ¼ SE ¼ Sec 31 T 13 N., R 19 W.M.

Bearing and distance from section or subdivision corner 1ST ST. & WASHINGTON

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

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

(5) **DIMENSIONS:** Diameter of well 2 inches.
Drilled 20 ft. Depth of completed well 18 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6 " Diam. from +3 ft. to 20 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☐ " Diam. from ft. to ft.

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

Screens: Yes ☒ No ☐
Manufacturer's Name PVC HYDROPHILIC
Type PVC Model No
Diam. 2 Slot size .010 from 8 ft. to 18 ft.
Diam. 2 Slot size □ from +3 ft. to 8 ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: #8
Gravel placed from -5 ft. to -20 ft.

Surface seal: Yes ☒ No ☐ To what depth? 270 ft.
Material used in seal BENTONITE + CEMENT
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? NA Depth of strata
Method of sealing strata off

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

(8) **WATER LEVELS:** Land-surface elevation above mean sea level.... ft.
Static level 10.6' ft. below top of well Date 3/17/88
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

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

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

(10) **WELL LOG:**

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

MATERIAL	FROM	TO
TOP SOIL	0	1
GRAVEL SAND River Rock	1	5
BRN SAND & GRAVEL	5	6
GRAVEL	6	7
SILT SAND & GRAVEL	7	9
" " "	9	11
SILTY GRAVEL	11	14
SILT SAND & GRAVEL TR WATER	14	15
SILTY SAND ROCKY GRAVEL WATER	15	19
SILT SAND GRAVEL MORE WATER	19	20

RECEIVED
APR 13 1988
DEPARTMENT OF ECOLOGY

Work started 3/17/88 19 Completed 3/17/88 19

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 RIEBE WELL DRILLING INC
(Person, firm, or corporation) (Type or print)

Address P.O. BOX 10866 YAKIMA 98909-1866

[Signed] John A. Riebe
(Well Driller)

License No. 0422 Date 3/18/88 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

WATER WELL REPORT

STATE OF WASHINGTON

1851
K T
Q R
Start Card No. 25607

Water Right Permit No. _____

OWNER: Name LONGVIEW FIBER Address LONGFIBER RD - POBOX 9069, YAK. 98

(1) LOCATION OF WELL: County YAKIMA ¼ SE ¼ Sec 31 T 13 N., R 19 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) _____

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

(4) TYPE OF WORK: Owner's number of well (if more than one) 3

Abandoned ☐ New well ☒ Method: Dug ☐ Bored ☒
Deepened ☐ Cable ☐ Driven ☐
Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled 10 feet. Depth of completed well 10 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to -4 ft.
Welded ☐
Liner installed ☐ " Diam. from _____ ft. to _____ ft.
Threaded ☒ 2 " Diam. from +1 ft. to 5 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 TRI LOCK
Type PVC Model No. _____
Diam. _____ Slot size _____ from _____ ft. to _____ ft.
Diam. 2 Slot size .020 from 5 ft. to 10 ft.

Gravel packed: Yes ☒ No ☐ Size of gravel 10-30 COLORADO
Gravel placed from 4 ft. to 10 ft.

Surface seal: Yes ☒ No ☐ To what depth? 4 ft.
Material used in seal BENTONITE CEMENT TO SURFACE
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

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

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level _____ ft. below top of well Date 5-10-89
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.))

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

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
SILTY SOIL	0	5
GRAVEL COBBLES SAND	5	10

RECEIVED
DEPARTMENT OF ECOLOGY
CENTRAL REGION OFFICE

Work started 5-10-89, 19. Completed 5-10-89, 19

WELL CONSTRUCTOR CERTIFICATION:

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

NAME RIEBE WELL DRILLING INC.
(PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address POBOX 10866 YAKIMA WA.

(Signed) John Riebe (WELL DRILLER) License No. 0422

Contractor's Registration No. 132K1 Date 5-10-89, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

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

WATER WELL REPORT

STATE OF WASHINGTON

1850 KJ QR

Start Card No. 25607

Water Right Permit No. _____

OWNER: Name LONGVIEW FIBER Address POBOX 9069 YAKIMA WA. 98909

(1) LOCATION OF WELL: County YAKIMA ¼ SE ¼ Sec 31 T 13 N., R 19 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) LONG FIBER ROAD

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

(4) TYPE OF WORK: Owner's number of well (if more than one) 3

Abandoned ☐ | New well ☒ | Deepened ☐ | Reconditioned ☐ | Method: Dug ☐ Cable ☐ Rotary ☐ | Bored ☒ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled 10'6" feet. Depth of completed well 10'6" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to 4 ft.
Welded ☐ Liner installed ☐ Threaded ☒ 2 " Diam. from +1 ft. to 5 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 TRILOCK
Type PVC Model No. _____
Diam. 2 Slot size 20 from 5 ft. to 10 ft.
Diam. _____ Slot size _____ from _____ ft. to _____ ft.

Gravel packed: Yes ☒ No ☐ Size of gravel 10-20 COLORADO
Gravel placed from 4 ft. to 10 ft.

Surface seal: Yes ☒ No ☐ To what depth? _____ ft.
Material used in seal BENTONITE 3'-4' CEMENT TO SURFACE
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

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

(8) WATER LEVELS: Land-surface elevation above mean sea level _____ ft.
Static level _____ ft. below top of well Date 5-10-89
Artesian pressure _____ lbs. per square inch Date _____
Artesian water is controlled by _____ (Cap, valve, etc.))

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

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
COBBLES, SANDY SILT	0	10.6"

RECEIVED
MAY 1989
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 5-10-89, 19. Completed 5-10-89, 19.

WELL CONSTRUCTOR CERTIFICATION:

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

NAME RIEBE WELL DRILLING INC (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)
Address POBOX 10866 YAKIMA WA 98909
(Signed) _____ (WELL DRILLER) License No. 0422
Contractor's Registration No. 132K1 Date 5-10-89, 19

(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 WASHINGTON

1849

Start Card No. 25607

Water Right Permit No.

OWNER: Name LONGVIEW FIBER Address PO BOX 9069, YAKIMA WA. 98909

(1) LOCATION OF WELL: County YAKIMA ¼ SE ¼ Sec. 31 T. 13 N., R. 19 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) LONG FIBER ROAD

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

(4) TYPE OF WORK: Owner's number of well (if more than one) 3

Abandoned ☐ New well ☒ Deepened ☐ Reconditioned ☐ Method: Dug ☐ Cable ☐ Rotary ☐ Bored ☒ Driven ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled 10'6" feet. Depth of completed well 10'6" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +2 ft. to 4 ft.
Welded ☐ Liner installed ☐ Threaded ☒ 2 " Diam. from +1 ft. to 5 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 TRILOCK
Type PVC Model No.
Diam. 2 Slot size 20 from 5 ft. to 10 ft.
Diam. Slot size from ft. to ft.

Gravel packed: Yes ☐ No ☐ Size of gravel 10-20 Colorado
Gravel placed from 4 ft. to 10 ft.

Surface seal: Yes ☒ No ☐ To what depth? ft.
Material used in seal BENTONITE 3'-4'-CEMENT TO SURFACE
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? Depth of strata
Method of sealing strata off

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

(8) WATER LEVELS: Land-surface elevation above mean sea level ft.
Static level ft. below top of well Date 5-10-89
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
BLACK SOIL & WATER	0	10.6'

RECEIVED

Work started 5-10-89, 19. Completed 5-10-89, 19

WELL CONSTRUCTOR CERTIFICATION:

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

NAME RIEBE WELL DRILLING INC. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address PO BOX 10866 YAKIMA WA. 98909

(Signed) (WELL DRILLER) License No. 0422

Contractor's Registration No. 132K1 Date 5-10-89, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) -1329- 3

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. 011506

Permit No. ....

(1) **OWNER:** Name AL FRANK Address DAMES + MOORE P.O. # SA4405

(2) **LOCATION OF WELL:** County YAKIMA — ¼ SE ¼ Sec. 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

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

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

(5) **DIMENSIONS:** Diameter of well 2 inches.
Drilled 20 ft. Depth of completed well 20'6" ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 6" Diam. from +2 ft. to 20 ft.
Threaded ☐ ." Diam. from ft. to ft.
Welded ☒ ." Diam. from ft. to ft.

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

Screens: Yes ☒ No ☐
Manufacturer's Name Hydrophilic
Type PVC Model No.
Diam. 2 Slot size .010 from 7 ft. to 17 ft.
Diam. 2 Slot size .0 from +2 ft. to 7 ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: # 8
Gravel placed from 5 ft. to 20 ft.

Surface seal: Yes ☒ No ☐ To what depth? ft.
Material used in seal BENTONITE + CEMENT
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? N/A Depth of strata
Method of sealing strata off

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

(8) **WATER LEVELS:** Land-surface elevation above mean sea level .... ft.
Static level 9' ft. below top of well Date 3/18/88
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) **WELL LOG:**

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

MATERIAL	FROM	TO
SANDY CLAYSOIL GRAVEL	0	1
GRAVEL SAND	1	2
COBBLES GRAVEL SAND	2	5
SAND GRAVEL	5	7
GRAVEL LITTLE SAND	7	9
GRAVEL SAND SILT	9	11
GRAVEL SAND PACK SILT	11	14
SILT SAND GRAVEL	14	15'6"
SILTY GRAVEL COBBLES	15'6"	18
GRAVEL SAND SILT	18	19
GRAVEL SAND SILT	19	19'6"
GRAVEL SAND	19'6"	20'6"
GRAVEL SAND	20'	

Work started 3/18 19 88 Completed 3/18 19 88

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 RIEBE WELL DRILLING INC
(Person, firm, or corporation) (Type or print)

Address P.O. BOX 10866, YAKIMA 98909-1866

[Signed] John M. Riebe
(Well Driller)

License No. 0427 Date 3/18 19 88

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

40F

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No 011506
Permit No. ....

(1) **OWNER:** Name A/L FRANK Address DAMES + Moore PO#SA4405

(2) **LOCATION OF WELL:** County YAKIMA — ¼ SE ¼ Sec 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

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

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

(5) **DIMENSIONS:** Diameter of well 2 inches.
Drilled 20 ft. Depth of completed well 17 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 2 " Diam. from +3 ft. to 20 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☐ ..... " Diam. from ..... ft. to ..... ft.

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

Screens: Yes ☒ No ☐
Manufacturer's Name HYDROPHILIC
Type PVC Model No.....
Diam. 2 Slot size 010 from 7 ft. to 17 ft.
Diam. 2 Slot size 0 from +2 ft. to 7 ft.

Gravel packed: Yes ☒ No ☐ Size of gravel: 8
Gravel placed from -5 ft. to -20 ft.

Surface seal: Yes ☒ No ☐ To what depth? ..... ft.
Material used in seal BENTONITE + CEMENT
Did any strata contain unusable water? Yes ☐ No ☒
Type of water? N/A Depth of strata.....
Method of sealing strata off.....

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

(8) **WATER LEVELS:** Land-surface elevation above mean sea level.... ..... ft.
Static level 8' 6" ft. below top of well Date 3/17/88
Artesian pressure ..... lbs. per square inch Date.....
Artesian water is controlled by ..... (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) **WELL LOG:**

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

MATERIAL	FROM	TO
TOP SOIL	0	1
GRAVEL SAND RIVER ROCK	1	2
SAND CLAY GRAVEL (BRN)	2	4
GRAVEL SAND (BLK)	4	6
SILT SAND GRAVEL	6	9
SILT SAND GRAVEL	9	15
GRAVEL	15	19
GRAVEL SAND BOULDER	19	20'5"

APR 13 1988

Work started 3/17 19 88 Completed 3/17 19 88

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 RIEBE WELL DRILLING INC
(Person, firm, or corporation) (Type or print)

Address P.O. Box 10866 YAKIMA 98909-18

[Signed] John A. Riebe
(Well Driller)

License No. 0422 Date 3/18 19 88

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

Please fill in Red X's & send in

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name DR. A.D.KINZEL Address 1412 WEST YAKIMA, AVE.98902

LOCATION OF WELL: County YAKIMA (Property tax) NW ¼ of SW ¼ Sec. 31 TWP-13 N W.M.

Bearing and distance from section or subdivision corner Range - 19 EWM [illegible] Road

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

(4) TYPE OF WORK: Owner's number of well (if more than one) 2

ABANDONDED OLD WELL — New well ☒ Method: Dug ☐ Bored ☐ Deepened ☐ Cable ☐ Driven ☐ Reconditioned ☐ Rotary ☒ Jetted ☐

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 130 ft. Depth of completed well 130 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 120 ft.
Threaded ☐ " Diam. from ft. to ft.
Welded ☒ " Diam. from ft. to ft.

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

Screens: Yes ☐ No ☒
Manufacturer's Name
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? 30 ft.
Material used in seal BENTONITE & CEMENT
Did any strata contain unusable water? Yes ☒ No ☐
Type of water? POLLUTED Depth of strata 30-45'
Method of sealing strata off SEALED & CASED

(7) PUMP: Manufacturer's Name Red Jacket
Type: Grundlos Submersible H.P. 1 SP4-10

(8) WATER LEVELS: Land-surface elevation above mean sea level .... 1030 ft.
Static level 15 ft. below top of well Date 1/20/83
Artesian pressure lbs. per square inch Date
Artesian water is controlled by (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
Red Jet Pump 50 G.P.M. " "
" " " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) WELL LOG: K

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

MATERIAL	FROM	TO
TOP SOIL	0	8
SAND,GRAVEL & BOULDERS (WATER)	8	45
CEMENTED GRAVEL & BOULDERS	45	110
DECOMPOSED ROCK SMALL AMT WTR		
SAND,GRAVEL & BOULDERS & WATER	110	130

Work started 1/14/83 19 Completed 1/18/83 19

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 RIEBE WELL DRILLING (TAYLOR & TATE)
(Person, firm, or corporation) (Type or print)

Address 1503 E. NOB HILL BLVD.YAKIMA,WA. 98901

[Signed] John A. Riebe (Well Driller)

License No. 421 Date 1/30/83, 19

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

3

Total 5

8/35

RESOURCE PROTECTION WELL REPORT

JAN 2 _ 1993

START CARD NO. 208508 L

(PROJ)ECT NAME: Yakima Ryder Rents

COUNTY: YAKIMA

WELL IDENTIFICATION NO. BORING G

LOCATION: NE 1/4 SW 1/4 Sec 31 Twn 13N R 19E

DRILLING METHOD: H S A

STREET ADDRESS OF WELL: 19 W. WASHINGTON AVE

DRILLER: Scott

FIRM: Cascade Drilling, Inc.

WATER LEVEL ELEVATION: N/A

SIGNATURE: Scott Kruger

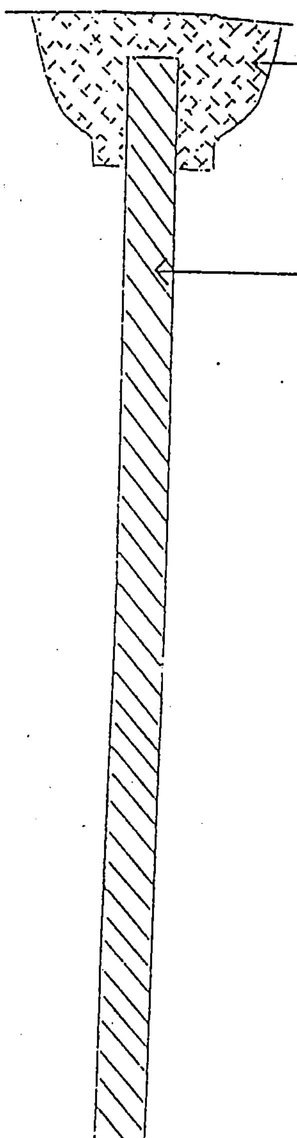
GROUND SURFACE ELEVATION: N/A

CONSULTING FIRM: HYDRO ENVIRON.

INSTALLED: 1-14-93

REPRESENTATIVE: BRIAN GWINN

DEVELOPED:

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	CONCRETE SURFACE SEAL BACKFILL Bent. Chip DEPTH OF BORING 12'	0 - 12' ft. Silty gravels + cobbles, light brown - ft. - ft.

SCALE: 1" =

PAGE ___ OF ___

ECY 050-12 (Rev. 11/90)

8/36 Total 5

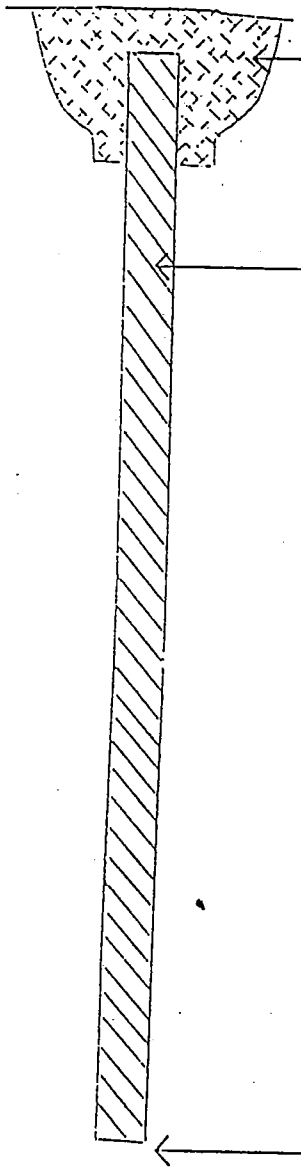
RESOURCE PROTECTION WELL REPORT

START CARD NO. 208508

PROJECT NAME: Yakima Ryder Rent
WELL IDENTIFICATION NO. BORING
DRILLING METHOD: HSA
DRILLER: Scott
FIRM: Cascade Drilling, Inc.
SIGNATURE: Scott Kuneyr
CONSULTING FIRM: HYDRO ENVIRON.
REPRESENTATIVE: BRIAN GWINN

COUNTY: YAKIMA
LOCATION: NE¼ SW¼ Soc 31 Twnl 3N R 19E
STREET ADDRESS OF WELL: 19 W. WASHINGTON AVE

WATER LEVEL ELEVATION: N/A
GROUND SURFACE ELEVATION: N/A
INSTALLED: 1-14-93
DEVELOPED:

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	CONCRETE SURFACE SEAL BACKFILL Bent. Chip DEPTH OF BORING 12 ' "	0 - 12' ft. Silty gravels + cobbles; light brown - ft. - ft.

SCALE: 1" = _____ PAGE _____ OF _____

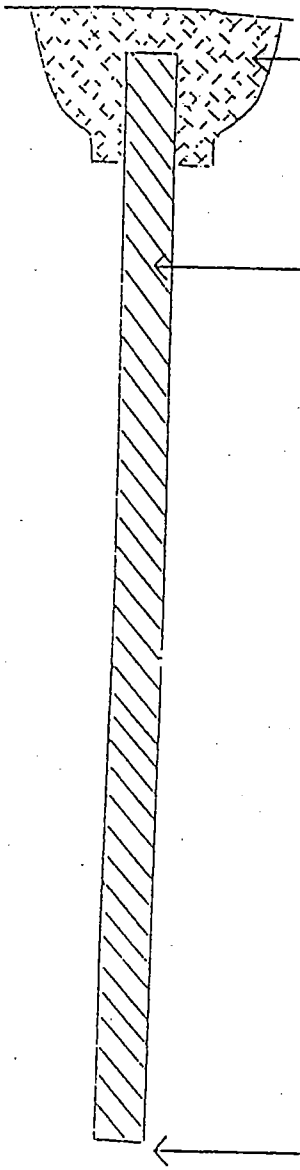
8137 Total 5

RESOURCE PROTECTION WELL REPORT

START CARD NO. 208508

PROJECT NAME: Yakima Ryder Rents
WELL IDENTIFICATION NO. BORING
DRILLING METHOD: HSA
DRILLER: Scott
FIRM: Cascade Drilling, Inc.
SIGNATURE: Scott Kuveyr
CONSULTING FIRM: HYDRO ENVIRON.
REPRESENTATIVE: BRIAN GWINN

COUNTY: YAKIMA
LOCATION: NE¼ SW¼ Sec 31 Twn 13N R 19E L
STREET ADDRESS OF WELL: 19 W. WASHINGTON AVE
WATER LEVEL ELEVATION: N/A
GROUND SURFACE ELEVATION: N/A
INSTALLED: 1-14-93
DEVELOPED:

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	CONCRETE SURFACE SEAL BACKFILL Bent. Chip DEPTH OF BORING 12 ' "	0 - 12' ft. Silty gravels + cobbles, light brown - ft. - ft.

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-10 (Rev. 11/92)

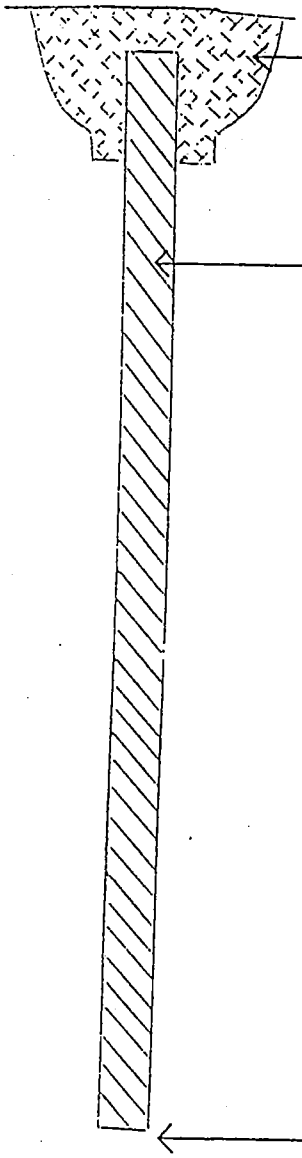
8/38 Total 5

RESOURCE PROTECTION WELL REPORT

START CARD NO. 208508

PROJECT NAME: Yakima Ryder Rentals
WELL IDENTIFICATION NO. BORING G
DRILLING METHOD: HSA
DRILLER: Scott
FIRM: Cascade Drilling, Inc.
SIGNATURE: Scott Kuney
CONSULTING FIRM: HYDRO ENVIRON.
REPRESENTATIVE: BRIAN GWINN

COUNTY: YAKIMA
LOCATION: NE¼ SW¼ Sec 31 Twn 13N R 19E
STREET ADDRESS OF WELL: 19 W. WASHINGTON AVE
WATER LEVEL ELEVATION: N/A
GROUND SURFACE ELEVATION: N/A
INSTALLED: 1-14-93
DEVELOPED:

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	CONCRETE SURFACE SEAL	0 - 12' ft. Silty gravels + cobbles, light brown
	BACKFILL Bent. Chip	- ft.
		- ft.
	DEPTH OF BORING 12 ' "	

SCALE: 1" = _____ PAGE _____ OF _____

ECY 050-12 (Rev. 11/00)

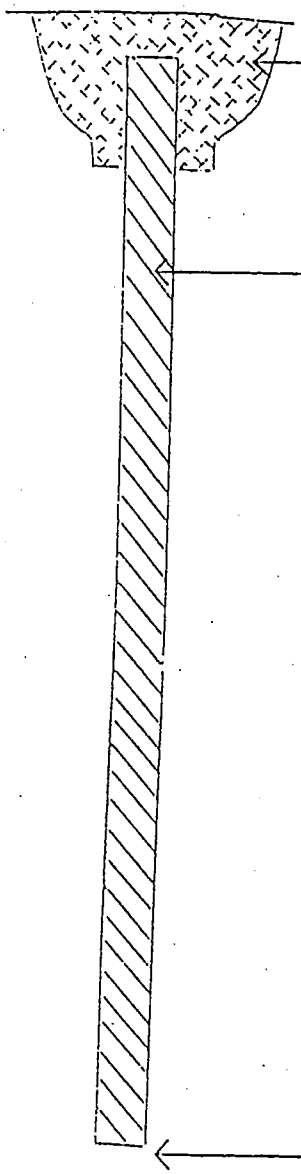
8839 Total 5

RESOURCE PROTECTION WELL REPORT

START CARD NO. 208508

IECT NAME: Yakima Ryder Rent
WELL IDENTIFICATION NO. BORING
DRILLING METHOD: HSA
DRILLER: Scott
FIRM: Cascade Drilling, Inc.
SIGNATURE: Scott Kuneyo
CONSULTING FIRM: HYDRO ENVIRON.
REPRESENTATIVE: BRIAN GWINN

COUNTY: YAKIMA
LOCATION: NE¼ SW¼ Soc 31 Twn 13N R 19E L
STREET ADDRESS OF WELL: 19 W. WASHINGTON AVE
WATER LEVEL ELEVATION: N/A
GROUND SURFACE ELEVATION: N/A
INSTALLED: 1-14-93
DEVELOPED:

AS-BUILT	WELL DATA	FORMATION DESCRIPTION
	CONCRETE SURFACE SEAL	0 - 12' ft. Silty gravels + cobbles, light brown
	BACKFILL Bent. Chip	- ft.
		- ft.
	DEPTH OF BORING 12' "	

SCALE: 1" = _____ PAGE _____ OF _____

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. .....
Permit No. ....

(1) **OWNER:** Name Broadmoor Mobile Home Park Address 55 W. Washington Ave

(2) **LOCATION OF WELL:** County Yakima NE ¼ SW ¼ Sec. 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner Next to U.S. Post Office

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

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

(5) **DIMENSIONS:** Diameter of well 8 inches.
Drilled 90 ft. Depth of completed well ..... ft.

(6) **CONSTRUCTION DETAILS:**
Casing installed: 7 " Diam. from 0 ft. to 85 ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

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

Screens: Yes ☒ No ☐ UOP Johnson
Manufacturer's Name .....
Type 5/5 telescope size Model No. .....
Diam. 6 Slot size 35 from 80 ft. to 84 ft.
Diam. ..... Slot size ..... from ..... ft. to ..... ft.

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

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

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

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

(9) **WELL TESTS:** Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☒ No ☐ If yes, by whom? .....
Yield: 150 gal./min. with 20 ft. drawdown after 1 hrs.
" ACKLUND " " "
" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

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

(10) **WELL LOG:**

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

MATERIAL	FROM	TO
Ran tools in to hole, hole was 80 ft.		
Tried to drill on but hole was caving.		
Sandstone gry S	80	85
Sandstone, gravel, boulders	85	90
caving back to 80 ft.		
Well fluctuates from 100 to 125 gpm		
Figure 90 to 100 gpm.		
Set 90'8" of 7inch pipe and #35 slot		
screen. Drilled and sand pumped hole.		
Sand gravel and boulders	80	83
Boulders and round cobbles		
and silt brn	83	84
Bottom of 7 inch pipe at ~~84'~~ 79' ~~10"~~		
5 ft of 35 slot screen 79' ~~84'~~ 84'		

Work started 7/10/85, 19..... Completed 7/15/85, 19.....

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 RIEBE WELL DRILLING
(Person, firm, or corporation) (Type or print)
Address 1503 E. Nob Hill Blvd.

[Signed] John M. Riebe
(Well Driller)

License No. 0422 Date 7/16/85, 19.....

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 3

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. .....

(1) OWNER: Name Bart Wentz Address 2016 So. 1st Ave. Yakima, Wash.

LOCATION OF WELL: County Yakima — NW ¼ SW ¼ Sec. 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

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

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

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled ..... ft. Depth of completed well 25' 6" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2" Diam. from 0 ft. to 25' 6" ft.
Threaded ☒ ..." Diam. from ... ft. to ... ft.
Welded ☒ ..." Diam. from ... ft. to ... ft.

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

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

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

Surface seal: Yes ☒ No ☐ To what depth? 6 ft.
Material used in seal Bentonite + Cement
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ... Depth of strata ...
Method of sealing strata off .....

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

(8) WATER LEVELS: Land-surface elevation above mean sea level 1020 ft.
Static level 7 ft. below top of well Date 5-17-82
Artesian pressure ... lbs. per square inch Date ...
Artesian water is controlled by ... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? ...
Yield: 10 gal./min. with ... ft. drawdown after ... hrs.
" Well pitcher pump. " "
" " " "

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

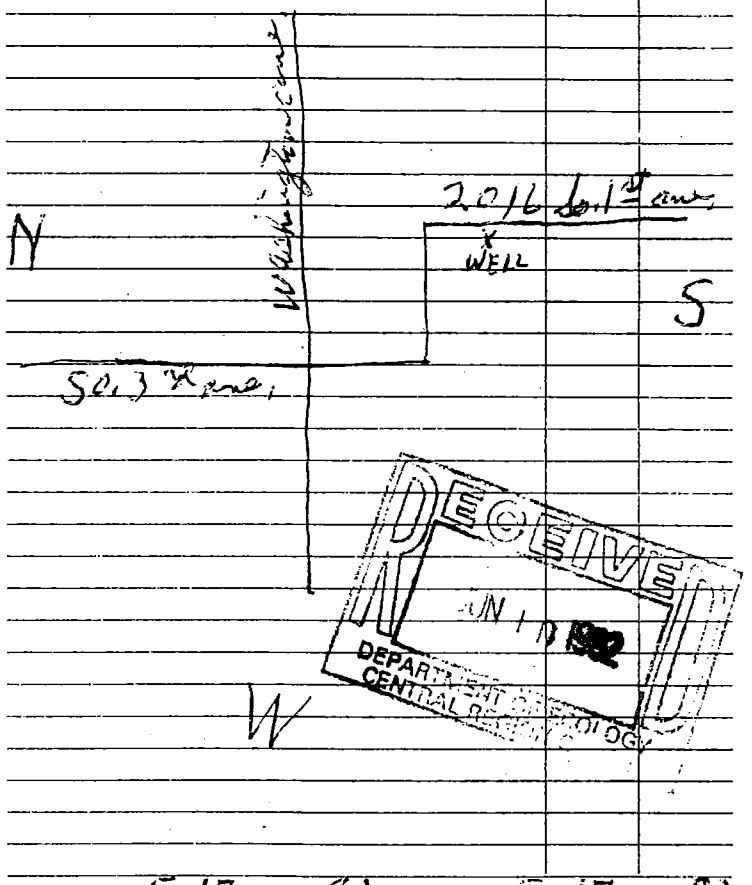
Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ... gal./min. with ... ft. drawdown after ... hrs.
Artesian flow ... g.p.m. Date ...
Temperature of water 53 Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG: M

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

MATERIAL	FROM	TO
Top soil - Dark Brown.	0	6' 6"
Conglomerate - Dark Brown	6' 6"	28' 6"
Farmers Well.		



Work started 5-17 19 82 Completed 5-17 19 82

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 JENSEN'S WELL DRILLING & DRIVING,
(Person, firm, or corporation) (Type or print)

Address 1603 So. 10th Ave. Yakima, Wash. 98902

[Signed] Chris B. Jensen Jr.
(Well Driller)

License No. 0217 Date 6-9, 1982

PJF 6-11-82

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. ____

Permit No. ____

(1) OWNER: Name L. M. Schmidt Address 1220 So. 8th Ave, Yakima, Washington

LOCATION OF WELL: County Yakima NW ¼ SW ¼ Sec 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled ____ ft. Depth of completed well 30 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2 " Diam. from 0 ft. to 31 ft.
Threaded [X] " Diam. from ____ ft. to ____ ft.
Welded [X] " Diam. from ____ ft. to ____ ft.

Perforations: Yes [ ] No [X]
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 [X]
Manufacturer's Name ____
Type ____ Model No ____
Diam. ____ Slot size ____ from ____ ft. to ____ ft.
Diam. ____ Slot size ____ from ____ ft. to ____ ft.

Gravel packed: Yes [ ] No [X] Size of gravel: ____
Gravel placed from ____ ft. to ____ ft.

Surface seal: Yes [X] No [ ] To what depth? 6 ft.
Material used in seal Bentonite + Cement
Did any strata contain unusable water? Yes [ ] No [ ]
Type of water? ____ Depth of strata ____
Method of sealing strata off ____

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

(8) WATER LEVELS: Land-surface elevation above mean sea level 1020 ft.
Static level 9 ft. below top of well Date 3-6-84 (ground level)
Artesian pressure ____ lbs. per square inch Date ____
Artesian water is controlled by ____ (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom? ____
Yield: 10 gal./min. with ____ ft. drawdown after ____ hrs.
" With pitcher Pump. " "
" " " "

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

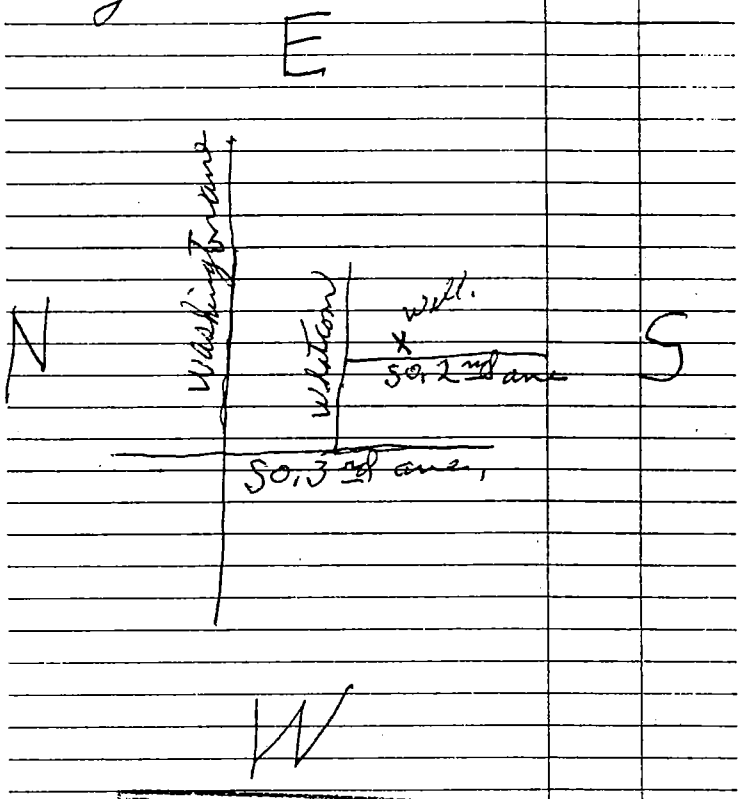
Time	Water Level	Time	Water Level	Time	Water Level

Date of test ____
Bailer test ____ gal./min. with ____ ft. drawdown after ____ hrs.
Artesian flow ____ g.p.m. Date ____
Temperature of water 58 Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG:

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

MATERIAL	FROM	TO
Top Soil	0	7
Conglomerate.	7	30



Work started 3-6, 19 84 Completed 3-6, 19 84

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 CHRIS B. JENSEN Sr.
(Person, firm, or corporation) (Type or print)

Address 1603 So. 10th Ave; Yakima, Wash. 98902

[Signed] Chris B. Jensen Sr.
(Well Driller)

License No. 0217 Date 4-4, 19 84

(USE ADDITIONAL SHEETS IF NECESSARY) XA 4-16-84

ECY 050-1-20

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

WATER WELL REPORT

STATE OF WASHINGTON

2772 Start Card No. 036402

Water Right Permit No. _____

OWNER: Name Lela Rants Address 2014 S. 2nd Ave., Yakima

(2) LOCATION OF WELL: County Yakima NW ¼ SW ¼ Sec 31 T. 13 N., R. 19 W.M.

(2a) STREET ADDRESS OF WELL (or nearest address) 2014 S. 2nd Ave., Yakima

(3) PROPOSED USE: [X] Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ] DeWater

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

Abandoned [X] New well [X] Method: Dug [ ] Bored [ ] Deepened [ ] Cable [ ] Driven [ ] Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches.

Drilled 50 feet. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Diam. from +1 ft. to 49 ft.

Welded [X] Liner installed [ ] Threaded [ ] _____ " Diam. from _____ ft. to _____ ft.

_____ " Diam. from _____ ft. to _____ ft.

Perforations: Yes [ ] No [X]

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 [X]

Manufacturer's Name _____

Type _____ Model No. _____

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

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

Gravel packed: Yes [ ] No [X] Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.

Material used in seal Bentonite

Did any strata contain unusable water? Yes [ ] No [X]

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

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

Static level 12 ft. below top of well Date 1-8-90

Artesian pressure _____ lbs. per square inch Date _____

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

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

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

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

" " " "

" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

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

Airtest 25 gal./min. with stem set at 50 ft. for 1 hrs.

Artesian flow _____ g.p.m. Date 1-8-90

Temperature of water _____ Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
Topsoil	0	3
Br. Clay	3	10
Br. Clay & Small Gravel	10	17
Br. Clay & Small Gravel & Water & Sand	17	20
Consaladated Rock	20	28
Br. Clay & Small Gravel & Sand & Water	28	50
Abandoned Well		
Keep casing full of bentonite as the casing was pulled out of the ground.		
Bentonite	50	9
Cement Plug	9	3
Soil	3	0

RECEIVED

Work started 1-4-90, 19. Completed 1-8-, 1990

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 Water Wells Drilling INC. (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 5503 Ahtanum Rd., Yakima 98903

(Signed) Jerry L. Rank (WELL DRILLER) License No. 1435

Contractor's Registration No. WATER WD112QB Date 1-11-, 1990

(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 WASHINGTON

Application No. .....
Permit No. .....

(1) OWNER: Name ELDON F. BILLS Address 2003 SO. 3RD AVE.

LOCATION OF WELL: County YAKIMA — NW¼ SW¼ Sec 31 T 13 N., R 19 W.M.

...ing and distance from section or subdivision corner

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

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

(5) DIMENSIONS: Diameter of well 2" inches.
Drilled ..... ft. Depth of completed well 30' ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2" Diam. from 0 ft. to 30' ft.
Threaded ☐ ..." Diam. from ... ft. to ... ft.
Welded ☒ ..." Diam. from ... ft. to ... ft.

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

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

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

Surface seal: Yes ☒ No ☐ To what depth? 6 ft.
Material used in seal BENTONITE & 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 ....
Type: ... H.P ....

(8) WATER LEVELS: Land-surface elevation above mean sea level APP 1025 ft.
Static level 9' ft. below top of well Date 4-14-77
Artesian pressure ... lbs. per square inch Date ....
Artesian water is controlled by ... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? ....
Yield: 10 gal./min. with ... ft. drawdown after ... hrs.
" " " "
" " " "

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

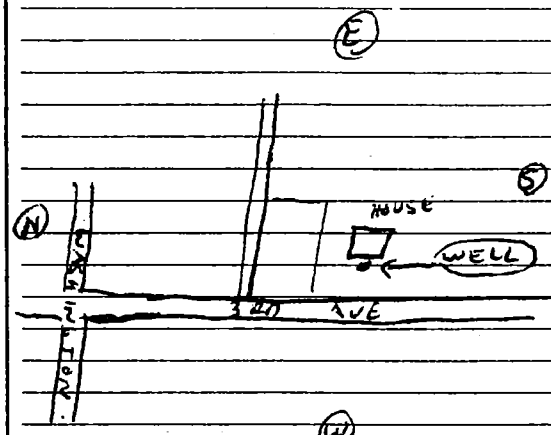
Time	Water Level	Time	Water Level	Time	Water Level

Date of test ....
Bailer test ... gal./min. with ... ft. drawdown after ... hrs.
Artesian flow ... g.p.m. Date ....
Temperature of water 58° Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

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

MATERIAL	FROM	TO
TOP SOIL	0	8
CONGLOMERATE	8	30



RECEIVED
MAY 3 1977
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 4-14 19 77 Completed 4-14 19 77

WELL DRILLER'S STATEMENT:

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

NAME JENSEN'S WELL DRILLING & PUMP
(Person, firm, or corporation) (Type or print)

Address 1603 SO. 10TH AVE.

[Signed] Clarence Jensen
(Well Driller)

License No. 0218 Date 4-18 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .... /

Permit No. .... /

(1) OWNER: Name *Darlene Hale.* Address *113 Whitcom ave; yakima, Wash.*

LOCATION OF WELL: County *yakima.* *NW* ¼ [illegible] ¼ Sec. [illegible] T. *13* N., R. *19* W.M.

...ng and distance from section or subdivision corner *SW* *31*

(3) PROPOSED USE: Domestic [X] Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

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

New well [X] Method: Dug ☐ Bored ☐
Deepened ☐ Cable ☐ Driven [X]
Reconditioned ☐ Rotary ☐ Jetted ☐

(5) DIMENSIONS: Diameter of well *2* inches.
Drilled .... ft. Depth of completed well *30* ft.

(6) CONSTRUCTION DETAILS:

Casing installed: *2* " Diam. from *0* ft. to *30' 10"* ft.
Threaded [X] .... " Diam. from .... ft. to .... ft.
Welded [X] .... " Diam. from .... ft. to .... ft.

Perforations: Yes ☐ No [X]
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 [X]
Manufacturer's Name ....
Type .... Model No. ....
Diam. .... Slot size .... from .... ft. to .... ft.
Diam. .... Slot size .... from .... ft. to .... ft.

Gravel packed: Yes ☐ No [X] Size of gravel: ....
Gravel placed from .... ft. to .... ft.

Surface seal: Yes [X] No ☐ To what depth? *6* ft.
Material used in seal *Bentonite + Cement.*
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? .... Depth of strata ....
Method of sealing strata off ....

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

(8) WATER LEVELS: Land-surface elevation above mean sea level *app. 1020* ft.
Static level *4' 5"* ft. below top of well Date *12-1-82*
Artesian pressure .... lbs. per square inch Date ....
Artesian water is controlled by .... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No [X] If yes, by whom? ....
Yield: *10* gal./min. with .... ft. drawdown after .... hrs.
" *With pitcher pump.* " "
" " " "

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

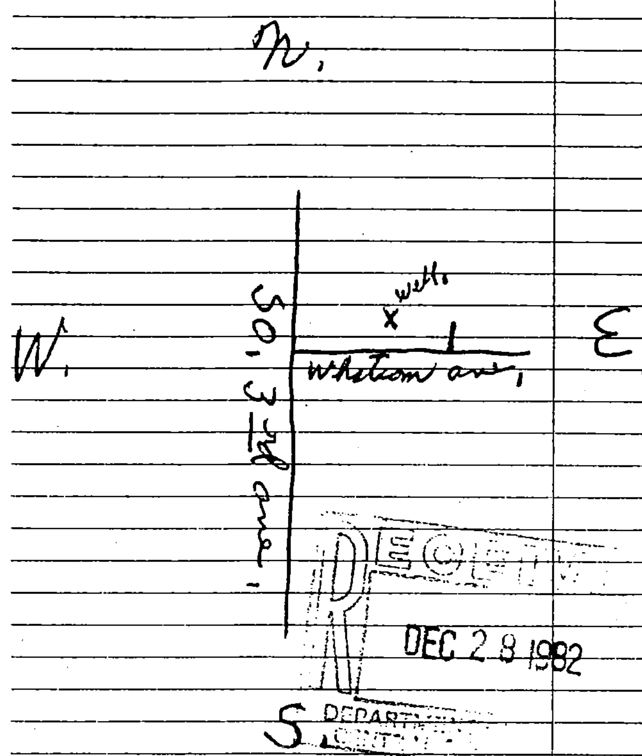
Time	Water Level	Time	Water Level	Time	Water Level

Date of test ....
Bailer test .... gal./min. with .... ft. drawdown after .... hrs.
Artesian flow .... g.p.m. Date ....
Temperature of water *56* Was a chemical analysis made? Yes ☐ No [X]

(10) WELL LOG: *M*

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

MATERIAL	FROM	TO
Top Soil : Dark Brown.	*0*	*8*
Conglomite. Light "	*8*	*30*



DEC 28 1982

Work started *12-1*, 19*82* Completed *12-1*, 19*82*

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 *JENSENS Well DRILLING + DRIVING.* (Person, firm, or corporation) (Type or print)

Address *1603 So. 10th ave; yakima, Wash. 98902*

[Signed] *Chris B. Jensen Sr.* (Well Driller)

License No. *0217* Date *12-27*, 19*82*

(USE ADDITIONAL SHEETS IF NECESSARY) *EP 12/29/82*

ECY 050-1-20

1678

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

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 026066

Water Right Permit No. _____

OWNER: Name STEVE NUNLEY Address Rt. 4 Box 4289, Wapato

LOCATION OF WELL: County Yakima SW ¼ SW ¼ Sec. 31 T. 13 N., R. 19 W.M.

(2a) STREET ADDDRESS OF WELL (or nearest address) 2106 S. 2nd. Ave., Yakima

(3) PROPOSED USE: [X] Domestic [ ] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ] DeWater

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

Abandoned [ ] New well [X] Method: Dug [ ] Bored [ ] Deepened [ ] Cable [ ] Driven [ ] Reconditioned [ ] Rotary [X] Jetted [ ]

(5) DIMENSIONS: Diameter of well 6 inches. Drilled 68 feet. Depth of completed well 68 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6" Diam. from +1 ft. to 55 ft.

Welded [X] Liner installed [ ] Threaded [ ] _____" Diam. from _____ ft. to _____ ft.

Perforations: Yes [ ] No [X]

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 [X]

Manufacturer's Name _____

Type _____ Model No. _____

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

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

Gravel packed: Yes [ ] No [X] Size of gravel _____

Gravel placed from _____ ft. to _____ ft.

Surface seal: Yes [X] No [ ] To what depth? 20 ft.

Material used in seal BENTONITE

Did any strata contain unusable water? Yes [ ] No [X]

Type of water? _____ Depth of strata _____

Method of sealing strata off _____

(7) PUMP: Manufacturer's Name _____

Type: _____ H.P. _____

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

Static level 12 ft. below top of well Date 5-2-89

Artesian pressure _____ lbs. per square inch Date _____

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

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

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

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

" " " "

" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____

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

Airtest 22 gal./min. with stem set at 66 ft. for 1 hrs.

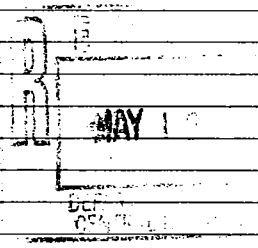
Artesian flow _____ g.p.m. Date _____

Temperature of water 60 Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG or ABANDONMENT PROCEDURE DESCRIPTION

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

MATERIAL	FROM	TO
Topsoil	0	8
Br. Clay & gravel	8	18
Br. Clay & gravel & sand & water	18	32
cemented gravel	32	50
gravel & sand & water	50	56
Br. Clay & gravel	56	65
cemented gravel & sand	65	68



Work started 5-1, 19 89 completed 5-2 OR, 19 89

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 Water Wells Drilling (PERSON, FIRM, OR CORPORATION) (TYPE OR PRINT)

Address 5503 Ahtanum Rd.

(Signed) _____ (WELL DRILLER) License No. 1435

Contractor's Registration No. WATER W 131N8 Date 5-2, 19 89

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20 (10/87) 1220

3404

HOLT DRILLING, INC.

Resource Protection Well Report

Project Name UNION GAP WATER SYSTEM EXPANSION Date 3-8-13

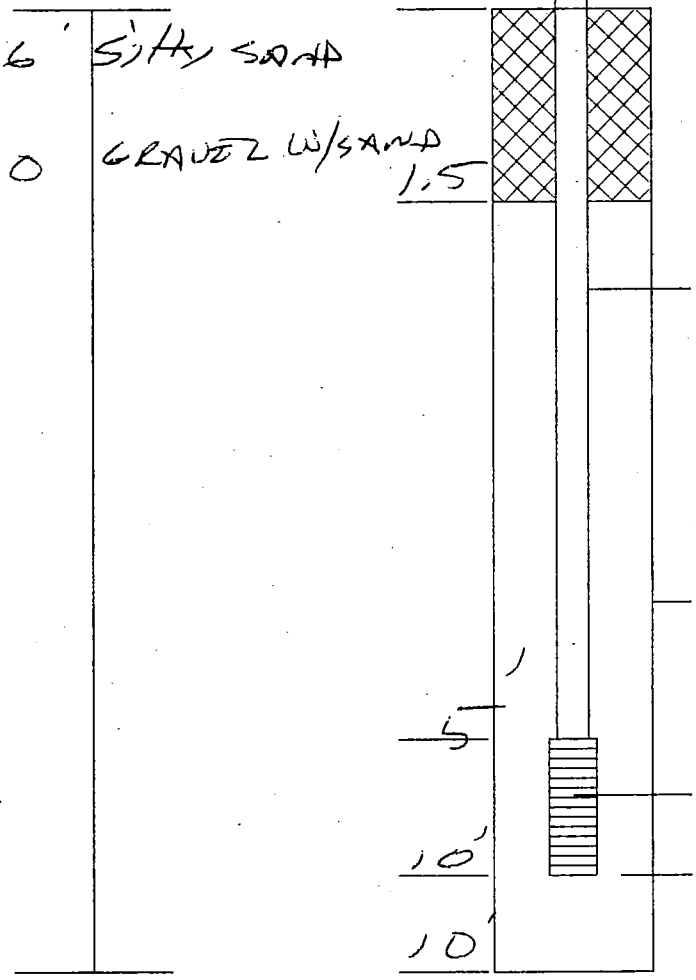
Well Identification # MW-W4 County YAKIMA, SW¼ SW¼

Drilling Method HSA Section 31 T. 13N R. 19E

Driller STEVE NAUMAN Start Card 213490

License # 1678 Consulting Firm HONG WEST

Soil Log / Depth of Components in Feet



Stick up Ø on Monument Casing

Type of Surface Seal CEMENT

Amount Ø 1.5

ID of Riser Pipe 2"

Type of Riser Pipe PVC

Amount 5'

Type of Connection THREAD

Type of Backfill around Riser Benton #2

Amount 2.5

Diameter of Borehole 8"

Screen Size or Type .020

Type of Filter Material 10/20 SAND

Amount 6

Remarks:

Signature Steve Nauman

5405

HOLT DRILLING, INC.

Resource Protection Well Report

Project Name UNION GAP WATER SYSTEM EXPANSION Date 3-8-93

Well Identification # MW-W3 County YAKIMA, SW¼ SW¼

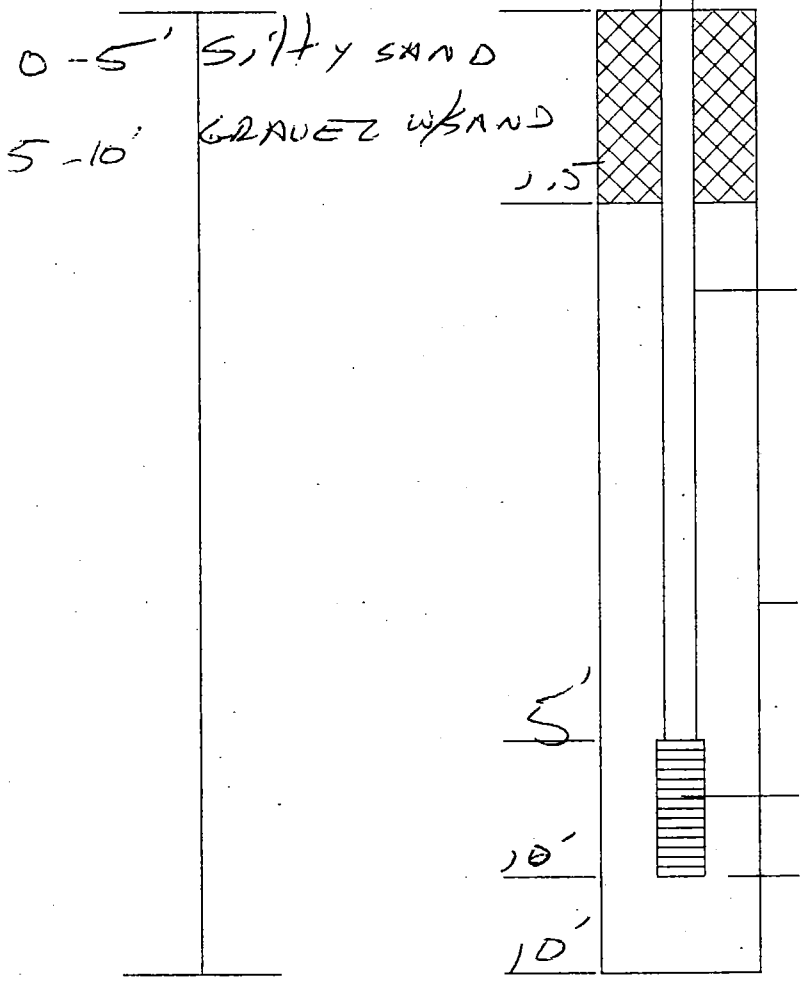
Drilling Method HSA Section 31 T. 13 N R. 19 E

Driller STEVE HARMAN Start Card 213490

License # 1888 Consulting Firm HONO WEST

Stick up Ø on Monument Casing

Soil Log / Depth of Components in Feet



Type of Surface Seal CEMENT

Amount 1.5

ID of Riser Pipe 2"

Type of Riser Pipe PVC

Amount 5'

Type of Connection THREAD

Type of Backfill around Riser Bentonite

Amount 2.5

Diameter of Borehole 8"

Screen Size or Type .020

Type of Filter Material 10/20 SAND

Amount 6'

Remarks:

Signature Steve Harman

HOLT DRILLING, INC.

Resource Protection Well Report

Project Name: UNION GAP WATER SYSTEM EXPANSION

Date: 3-8-93

Well Identification #: MW - W2

County: YAKIMA, SW ¼ SW ¼

Drilling Method: HSA

Section: 31 T. 13N R. 19E

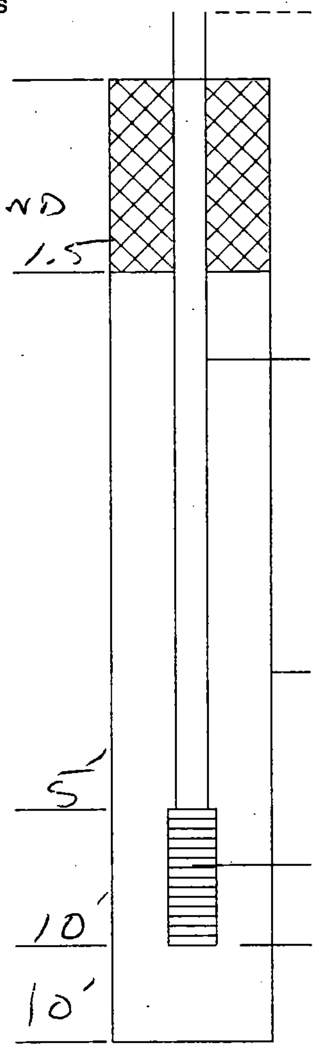
Driller: STEVE HAUMAN

Start Card:

License #: 1888

Consulting Firm: HONG WEST

Soil Log		Depth of Components in Feet
0 - 4	Silty SAND	
4 - 10	GRAVEL w/SAND	



Stick up: Ø on Monument Casing

Type of Surface Seal: CEMENT
Amount: 1.5

ID of Riser Pipe: 2"
Type of Riser Pipe: PVC
Amount: 5'
Type of Connection: THREAD

Type of Backfill around Riser: Bentonite
Amount: 2.5

Diameter of Borehole: 8"

Screen Size or Type: .020

Type of Filter Material: 10/20 SAND
Amount: 6'

Remarks:

Signature: Steve Hauman

HOLT DRILLING, INC.

Resource Protection Well Report

Project Name UNION GAP WATER SYSTEM EXPANSION Date 3-5-93

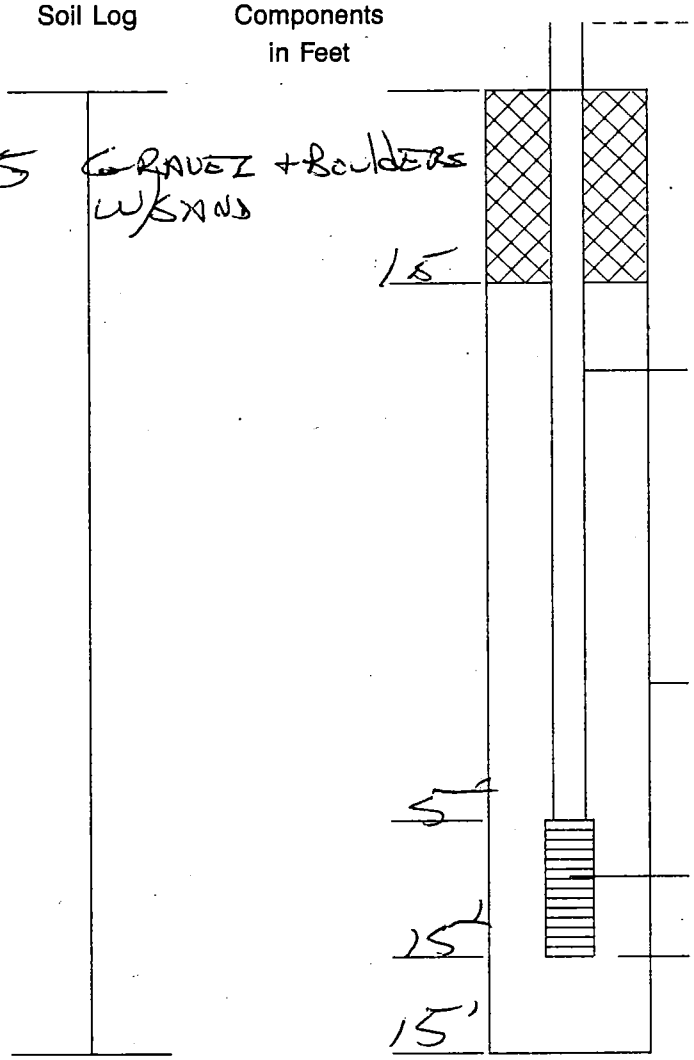
Well Identification # MW-W1 County YAKIMA, SW ¼ SW ¼

Drilling Method HSA Section 31 T. 13N R. 19E

Driller STEVE HAUMAN Start Card 213490

License # 1888 Consulting Firm HONG WEST

Stick up 0 on Monument Casing



Type of Surface Seal CEMENT

Amount 15

ID of Riser Pipe 2"

Type of Riser Pipe PVC

Amount 5'

Type of Connection THREAD

Type of Backfill around Riser BENTONITE

Amount 3'

Diameter of Borehole 8"

Screen Size or Type .020

Type of Filter Material 10/20 SAND

Amount 11.5'

Remarks:

Signature Steve Hauman

HOLT DRILLING, INC.

Resource Protection Well Report

Project Name UNION GAP WATER SYSTEM EXPANSION Date 3-3-93

Well Identification # MW-S1 County YAKIMA, SW ¼ SW ¼

Drilling Method HSA Section 31 T. 13N R. 19E

Driller STEVE HAUMAN Start Card 213490

License # 1888 Consulting Firm HONG WEST

Soil Log | Depth of Components in Feet

Stick up 3' on Monument Casing

0-5 Silty SAND

5-10' GRAVEL w/SAND

Type of Surface Seal CEMENT

Amount 1.5

ID of Riser Pipe 2"

Type of Riser Pipe PVC

Amount 5'

Type of Connection THREAD

Type of Backfill around Riser BENTONITE

Amount 3.5'

Diameter of Borehole 8"

5'

Screen Size or Type .020

10'

Type of Filter Material 10/20 SAND

Amount 6

10'

Remarks:

Signature Steve Hauman

8409

HOLT DRILLING, INC.

Resource Protection Well Report

Project Name UNION GAP WATER SYSTEM EXPANSION Date 3-3-93

Well Identification # MW-52 County YAKIMA, SW 1/4 SW 1/4

Drilling Method HSA Section 31 T. 13N R. 19E

Driller STEVE HAUMANN Start Card 213490

License # 1888 Consulting Firm HONG WEST

Stick up 3' on Monument Casing

Soil Log	Depth of Components in Feet
0-7' SILTY SAND	
7-10 GRAVEL W/SAND	1.5
	5'
	10'
	10'

Type of Surface Seal CEMENT

Amount 1.5'

ID of Riser Pipe 2"

Type of Riser Pipe PVC

Amount 7'

Type of Connection THREAD

Type of Backfill around Riser Bentonite

Amount 3.5

Diameter of Borehole 8"

Screen Size or Type .020

Type of Filter Material 10/20 SAND

Amount 6'

Remarks:

Signature Steve Haumann

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. ....
Permit No. ..... /

(1) OWNER: Name [illegible] Address [illegible]

(2) LOCATION OF WELL: County [illegible] SW ¼ SW ¼ Sec. 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐ [illegible]

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

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled ..... ft. Depth of completed well 30 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2" Diam. from 0 ft. to 30 ft.
Threaded ☐ ....." Diam. from ..... ft. to ..... ft.
Welded ☒ ....." Diam. from ..... ft. to ..... ft.

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

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

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

Surface seal: Yes ☒ No ☐ To what depth? 6 ft.
Material used in seal Bentonite + Cement
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ..... Depth of strata .....
Method of sealing strata off .....

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

(8) WATER LEVELS: Land-surface elevation above mean sea level app 1020 ft.
Static level [illegible] ft. below top of well Date [illegible]
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water [illegible] Was a chemical analysis made? Yes ☐ No ☐

(10) WELL LOG: N

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

MATERIAL	FROM	TO
Top Soil	0	8
Conglomerate	8	30

RECEIVED
OCT 0 1980
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 10-[illegible], 19 80 Completed 10-30, 19 80

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 JENSEN'S WELL DRILLING + DRIVING (Person, firm, or corporation) (Type or print)

Address [illegible]

[Signed] [signature] (Well Driller)

License No. [illegible] Date 10-27, 19 80

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. /
Permit No. ....

(1) OWNER: Name O. M. Mortimore, Address 2008 So. 1st ave. Yakima, Wash. 98903

(2) LOCATION OF WELL: County Yakima, — SW ¼ SW ¼ Sec 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial [ ] Municipal [ ]
Irrigation [ ] Test Well [ ] Other [ ]

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

(5) DIMENSIONS: Diameter of well 5 inches.
Drilled ..... ft. Depth of completed well 50 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 5" Diam. from 0 ft. to 48' 2½" ft.
Threaded [ ] ..." Diam. from ... ft. to ... ft.
Welded [X] ..." Diam. from ... ft. to ... ft.

Perforations: Yes [ ] No [X]
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 [X]
Manufacturer's Name ....
Type ... Model No ....
Diam. ... Slot size ... from ... ft. to ... ft.
Diam. ... Slot size ... from ... ft. to ... ft.

Gravel packed: Yes [ ] No [X] Size of gravel: ....
Gravel placed from ... ft. to ... ft.

Surface seal: Yes [X] No [ ] To what depth? 18 ft.
Material used in seal Bentonite,
Did any strata contain unusable water? Yes [ ] No [ ]
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 1020 ft.
Static level 8' 6" ft. below top of well Date 8-9-83 (from ground level)
Artesian pressure ... lbs. per square inch Date ....
Artesian water is controlled by ... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes [ ] No [X] If yes, by whom? ....
Yield: 10 gal./min. with ... ft. drawdown after ... hrs.
" With air " " " "
" " " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ....
Bailer test ... gal./min. with ... ft. drawdown after ... hrs.
Artesian flow ... g.p.m. Date ....
Temperature of water 60 Was a chemical analysis made? Yes [ ] No [X]

(10) WELL LOG: N

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

MATERIAL	FROM	TO
Top Soil - Light Brown,	0	8
Conglomate - " "	8	32
Clay with little sand - " "	32	34
Conglomate - " "	34	50
2008 So. 1st ave. Yakima,		

Work started 8-8, 1983 Completed 8-9, 1983

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 JENSEN'S WELL DRILLING & DRIVING, (Person, firm, or corporation) (Type or print)

Address 1603 So. 10th ave, Yakima, Wash. 9890

[Signed] Chris B. Jensen Jr. (Well Driller)

License No. 0217 Date 9-6, 1983

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

3

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

WATER WELL REPORT
STATE OF WASHINGTON

Application No. /
Permit No. /

(1) OWNER: Name P. W. Gifford Address 2006 So. 1st ave., Yakima, Wash.

(2) LOCATION OF WELL: County Yakima — SW ¼ SW ¼ Sec. 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

(3) PROPOSED USE: Domestic [X] Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other ☐

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

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled .... ft. Depth of completed well 29' 3½" ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2 " Diam. from 0 ft. to 30' 2½" ft.
Threaded [X] ...... " Diam. from ...... ft. to ...... ft.
Welded [X] ...... " Diam. from ...... ft. to ...... ft.

Perforations: Yes ☐ No [X]
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 [X]
Manufacturer's Name ......
Type ...... Model No. ......
Diam. ...... Slot size ...... from ...... ft. to ...... ft.
Diam. ...... Slot size ...... from ...... ft. to ...... ft.

Gravel packed: Yes ☐ No [X] Size of gravel: ......
Gravel placed from ...... ft. to ...... ft.

Surface seal: Yes [X] No ☐ To what depth? 6 ft.
Material used in seal Bentonite + Cement.
Did any strata contain unusable water? Yes ☐ No ☐
Type of water? ...... Depth of strata ......
Method of sealing strata off ......

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

(8) WATER LEVELS: Land-surface elevation above mean sea level app. 1020 ft.
Static level from Ground Level 6' 3" ft. below top of well Date 8-11-83
Artesian pressure ...... lbs. per square inch Date ......
Artesian water is controlled by ...... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No [X] If yes, by whom? ......
Yield: 10 gal./min. with ...... ft. drawdown after ...... hrs.
" With pitcher pump. " "
" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test ......
Bailer test ...... gal./min. with ...... ft. drawdown after ...... hrs.
Artesian flow ...... g.p.m. Date ......
Temperature of water 58 Was a chemical analysis made? Yes ☐ No [X]

(10) WELL LOG: N

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

MATERIAL	FROM	TO
Top Soil — Light Brown,	0	6
Conglomate — " "	6	29' 3½"

2006 So. 1st ave.,
Yakima.

Work started 8-11, 1983 Completed 8-11, 1983

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 JENSEN'S WELL DRILLING + DRIVING
(Person, firm, or corporation) (Type or print)

Address 1603 So. 10th ave., Yakima, Wash. 98902

[Signed] Chris B. Jensen Sr.
(Well Driller)

License No. 0217 Date 9-6, 1983

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

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

WATER WELL REPORT

STATE OF WASHINGTON

Application No. .....

Permit No. ....

(1) OWNER: Name RAY SHUEL Address 2109 SOUTH 3RD AVE YAKIMA

(2) LOCATION OF WELL: County YAKIMA SW ¼ SW ¼ Sec. 31 T. 13 N., R. 19 W.M.

Bearing and distance from section or subdivision corner

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

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

(5) DIMENSIONS: Diameter of well 2 inches.
Drilled ..... ft. Depth of completed well 31 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 2 " Diam. from 0 ft. to 31' ft.
Threaded ☐ ..... " Diam. from ..... ft. to ..... ft.
Welded ☒ ..... " Diam. from ..... ft. to ..... ft.

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

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

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

Surface seal: Yes ☒ No ☐ To what depth? 6 ft.
Material used in seal BENTONITE & 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 .....
Type: ..... H.P. .....

(8) WATER LEVELS: Land-surface elevation above mean sea level APP. 1020 ft.
Static level 8' ft. below top of well Date 4-6-77
Artesian pressure ..... lbs. per square inch Date .....
Artesian water is controlled by ..... (Cap, valve, etc.)

(9) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes ☐ No ☒ If yes, by whom? .....
Yield: 10 gal./min. with ..... ft. drawdown after ..... hrs.
" " " "
" " " "

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test .....
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m. Date .....
Temperature of water 59° Was a chemical analysis made? Yes ☐ No ☒

(10) WELL LOG:

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

MATERIAL	FROM	TO
TOP SOIL	0	8
CONGLOMERATE (LIGHT B)	8	31

RECEIVED
MAY 3 1977
DEPARTMENT OF ECOLOGY
CENTRAL REGIONAL OFFICE

Work started 4-6, 19 77 Completed 4-6, 19 77

WELL DRILLER'S STATEMENT:

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

NAME JENSEN'S WELL DRILLING & DRIVING
(Person, firm, or corporation) (Type or print)

Address 1603 SO. 10TH AVE.

[Signed] .....
(Well Driller)

License No. 0218 Date 4-7, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

ECY 050-1-20

3

APPENDIX IV

SITE ASSESSMENT CHECKLIST

CAYUSE ENVIRONMENTAL
60 Olden Way
Toppenish, WA 98948
(509) 865-5086

Post-it™ brand fax transmittal memo 7671 | # of pages ▸
To BRAD CARD | From DAVE STINER
Co. | Co.
Dept. WILL THIS SUFFICE | Phone # AS A
Fax # MANIFEST | Fax #

April 8, 1994

Mr. Dave Stiner
Washington Beef
Goodman Rd.
Union Gap, WA 98903

Dear Mr. Stiner:

In answer to your questions concerning the two 1,000 gallon tanks removed from Washington Beef on Ahtanum Road, I provide you the following explanation:

First, the product remaining in the tanks was removed with a Vacu-Max, then dry-iced, cut open and scrapped and cleaned with solzall to remove all remaining product. This product was then removed with the Vacu-Max again.

Next, the tanks were taken to Douglas Wrecking (which is a licensed facility) in Wapato, Washington for disposal.

The tanks were removed from the property in November, 1993.

If you have any further questions, please don't hesitate to contact me.

Sincerely,

CAYUSE ENVIRONMENTAL

Bryan Mull-RH

Bryan Mull
Project Manager
BM:BC/rh

UNDERGROUND STORAGE TANK
Site Check/Site Assessment Checklist

For Office Use Only
Owner # 40008744
Site # 002577

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.

SITE INFORMATION: 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.

TANK INFORMATION: 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.

SITE ASSESSOR INFORMATION: 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

SITE INFORMATION

Site ID Number (on invoice or available from Ecology if the tanks are registered): 002577

Site/Business Name: Washington Beef

Site Address: 2709 Goodman Road (Street) Telephone: (509) 248-3350

Union Gap (City) WA (State) 98903 (ZIP-Code)

TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
1	1,000 gallon	Unleaded gasoline
2	1,000 gallon	Unleaded gasoline

REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

____ 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.
X 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): _____

RECEIVED
FEB 09 1995
ECOLOGY

CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

		YES	NO
1.	The location of the UST site is shown on a vicinity map.		
2.	A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)		
3.	A summary of UST system data is provided. (see Section 3.1)		
4.	The soils characteristics at the UST site are described. (see Section 5.2)		
5.	Is there any apparent groundwater in the tank excavation?		
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.		
8.	A sketch or sketches showing the following items is provided:		
	- location and ID number for all field samples collected		
	- groundwater samples distinguished from soil samples (if applicable)		
	- samples collected from stockpiled excavated soil		
	- tank and piping locations and limits of excavation pit		
	- adjacent structures and streets		
	- approximate locations of any on-site and nearby utilities		
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)	N/A	
10.	A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.		
11.	Any factors that may have compromised the quality of the data or validity of the results are described.		
12.	The results of this site check/site assessment indicate that a confirmed release of a regulated substance has **not** occurred.		

SITE ASSESSOR INFORMATION

Douglas P. D'Hondt — Person registered with Ecology

PLSA Engineering & Surveying — Firm Affiliated with

Business Address: 1120 West Lincoln Avenue (Street)

Telephone: (509) 575-6990

Yakima (City) WA (State) 98902 (ZIP+Code)

I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.

2/1/94
Date

Signature of Person Registered with Ecology

APPENDIX V

INDEPENDENT REMEDIAL ACTION REPORT SUMMARY

Independent Remedial Action Report Summary

This report summary is an important part of the Independent Remedial Action Report. Please complete the summary and submit it with your Independent Remedial Action Report. If this document does not accompany your cleanup report, or if it is not fully completed, your report cannot enter the review process necessary for Ecology to provide you with a "no further action" determination, or to remove your site from the hazardous sites lists.

FOR ECOLOGY USE ONLY			
ERTS No.	TCP I.D. No.	Date Received	☐ NFA ☐ SHA Referral ☐ Interim Action ☐ Emergency Action
Reviewed by		Initial Investigation (Date)	

PLEASE PRINT CLEARLY OR TYPE

Complete all of the following:

GENERAL INFORMATION

Name of Site Owner Washington Beef	Phone 509-248-3350
Address 2709 Goodman Road, Union Gap, WA	98903
Authorized Contact Dave Stiner	Phone same
Name of Facility Operator	Phone
Address	
Authorized Contact	Phone
Name of Consultant Bradley J. Card	Phone 509-575-6990
Name of Firm PLSA Engineering & Surveying	
Address 1120 West Lincoln Avenue, Yakima, WA 98902	

Please indicate which of the above persons completed this report. If the report was completed by someone other than listed above, please provide their name, address, and a daytime phone.

Douglas P. D'Hondt 509-575-6990
PLSA Engineering & Surveying
1120 West Lincoln Avenue, Yakima, WA 98902

REPORT INFORMATION

Type of Report (*check one*)	Is this a Leaking Underground Storage Tank (LUST) report? Yes ☒ No ☐
☐ Combined release and independent remedial action report ☐ Independent remedial action report ☒ Interim Action Report ☐ Final Cleanup Action Report	Date release was reported to Ecology Date cleanup was completed to be completed

FACILITY INFORMATION

Site Name

Washington Beef

Other Names (*the site may be known as*)

NA

Site Contact Person If Other Than Owner/Operator *(This must be a person who is on-site during normal working hours and is authorized and qualified to answer questions about the site, or a person who is available during normal business hours and has knowledge about the site and the remediation.)*

Name Dave Stiner Phone _____

Site Mailing Address (*or site contact mailing address)*

Same

Site Location Address (*including zip code*)

Closest City	County (*where site is located*)
Union Gap, WA	Yakima

Township_____ Range_____ Section_____ Quarter-Quarter_____ Meridian_____

Longitude: Degree_____ Minute_____ Second_____

Latitude: Degree_____ Minute_____ Second_____

Ownership and Operator Type Complete the table below by checking the appropriate box to identify the type of owner and operator for the facility. *(For example, if the property owner is a port district and the operator a private individual, then check the boxes under owner identification column in the municipal, code #2 row, and under the operator identification column in the private party, code #1 row.)*

Ownership/OperatorType	Code #	Owner Identification	Operator Identification
Private Party	1	X	X
Municipal (Public)	2		
County	3		
Federal	4		
State	5		
Tribal	6		
Mixed	7		
Other	8		
Unknown	9		
Public Entity Acquisition through Bankruptcy	10		
Financial Institution Acquisition through Bankruptcy	11		

Standard Industrial Classification (SIC) Codes. List all that apply. If none apply, or if you don't know your SIC code, list activities conducted at the site, e.g., automotive repair and maintenance, construction equipment storage, etc.

_____

_____

Hazardous Substance Management Practice(s). The hazardous substance(s) cleaned up from the site was the result of which of the following sources, activities, or actions? Please **circle** all that apply to the facility.

1 = Drug Lab
2 = Drum
3 = A Leaking Impoundment
4 = Improper Handling
5 = Landfill
6 = Land application
7 = Pesticide application
8 = Pesticide Disposal
9 = A Spill
10 = Storm Drain
11 = Leaking Tank:
a - below ground; b - above ground
12 = Unknown

RELEASE INFORMATION

Date of Release *(if known)*	Date of Discovery	Are there any drinking water systems affected?
Unknown	11/16/93	Yes ☐ No ☒ Unknown ☐

If drinking water systems are affected, are the systems **public**, **private**, or **both**? *(circle one)*	If drinking water systems are affected, has alternate drinking water been provided? Yes ☐ No ☐ Unknown ☐

General Hazardous Substance Categories Using the contaminants listed below, complete the table. *(A more detailed description of the contaminants can be found in Appendix A of the guidance.)*

Contaminants. For each of the applicable contaminants, enter the appropriate letter designating the status of the contaminants: **C** = Confirmed or **S** = Suspected *(Contaminant status definitions are defined in Appendix A of the guidance.)*

Affected Media	Halogenated Organic Compounds	Metals - Priority Pollutants	Metals - Other	Polychlorinated Bi-Phenyls (PCBs)	Pesticides/Herbicides	Petroleum Products	Phenolic Compounds	Non-Halogenated Solvents	Dioxins	Polynuclear Aromatic Hydrocarbons (PAH)	Reactive Wastes	Corrosive Wastes	Radioactive Wastes	Conventional Contaminants - Organics	Conventional Contaminants - Inorganic	Base/Neutral Organic Compounds	Asbestos
Ground Water						C											
Surface Water																	
Drinking Water																	
Soil						C											
Air																	

CLEANUP INFORMATION

Indicate cleanup level methods used by completing Table 5-A below. *(Check all that apply)*

TABLE 5-A

	Soil	Ground Water	Air	Surface Water
Method A	✓	✓		
B				
C				
Have these levels been met throughout the site? *(circle only one)*	YES (NO)	(YES) NO	YES NO	YES NO

CLEANUP INFORMATION (continued)

Indicate the treatment methods used by completing Tables 5-B through 5-D below. *(Check all that apply)*

TABLE 5-B

	Destruction or Detoxification				Media Transfer		
	Carbon Adsorption[1]	Biological Treatment	Chemical Destruction	Incineration	Air Stripping/ Air Sparging	Aeration/Vapor Extraction	Thermal Desorption
Soil	-NA-	X			-NA-		
Ground Water		X		-NA-		-NA-	-NA-
Surface Water				-NA-		-NA-	-NA-
Air		-NA-				-NA-	
Wastes	-NA-				-NA-	-NA-	-NA-

[1]Carbon followed by regeneration; use of granular activated carbon followed by landfilling would be classified in these tables as volume reduction and off-site landfill.

TABLE 5-C

	Immobilization		Reuse/Recycling[2]	Separation/Volume Reduction		
	Vitrification	Solidification/ Stabilization		Solvent Extraction	Soil Washing	Physical Separation[3]
Soil						
Ground Water	-NA-	-NA-		-NA-	-NA-	
Surface Water	-NA-	-NA-		-NA-	-NA-	
Wastes						

[2]For example, reuse of free petroleum product recovered in a pump and treat system.
[3]For example, oil/water separators.

TABLE 5-D

	Land Disposal/Containment		Institutional Controls	Others
	Containment or On-site Landfill	Off-site Landfill		Specify treatment method
Soil		X		
Ground Water		-NA-		
Surface Water	-NA-	-NA-		
Wastes				

LUST SITE INFORMATION

Type of product released *(check one)*
Leaded Gas ☐ Diesel ☒ Waste Oil ☐
Unleaded Gas ☒ Heating Oil ☐ Other ☐ (Identify _____)

Approx. Tank Size: 1,000 gals

Was free product encountered?
Yes ☒ No ☐

ENVIRONMENTAL INDICATORS

Answer the following questions as they are applicable to your site:

How many cubic yards of soil have been treated? 3112

Where soil treatment was conducted, was it done on-site, off-site, or both? *(circle one)*

How many cubic yards of soil have been disposed of off-site? _____ *(Calculate these quantities of soil while the soil is in place, prior to any excavation and/or treatment.)*

Identify the off-site location(s) where soil was disposed. Anderson Rock & Demolition Pit

If ground water pump and treatment was conducted, how many gallons of ground water have been treated to date? 20,000 gals.

How many years is the ground water extraction system expected to continue in operation? 0 yrs.