



STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

15 West Yakima Avenue, Suite 200 • Yakima, Washington 98902-3452 • (509) 575-2490

May 17, 2001

Gerrit Schinkelshoek
117808 W Kuhlman Rd
Prosser WA 99350-8676

Re: Emergency Drought Permit G4-32966

In accordance with the provisions of RCW 43.83B.405, on March 14, 2001, it was ordered and determined by the Director of the Department of Ecology that the State of Washington is under drought conditions. In accordance with the provisions of WAC 176-166-060, the Department of Ecology is under the terms of this Order, issuing an EMERGENCY DROUGHT PERMIT. The intent of this authorization is to alleviate hardships and reduce the burdens on water users arising from the drought conditions.

The applicant submitted an Emergency Drought application which is the subject of this report and assigned second application No. G4-32966. The applicant has an initial water right from the Rosa Irrigation District (RID) to irrigate 80 acres of juice grapes. After the 2001 drought use of the well, the applicant proposes to use the well as an exempt well under RCW 90.44.050.

THIS AUTHORIZATION SHALL IN NO MANNER BE CONSTRUED TO GUARANTEE OR IMPLY THAT A FINAL (REGULAR) PERMIT WILL ISSUE FOR THE FUTURE USE OF THE WATER USE HEREIN AUTHORIZED.

The Department of Ecology has agreed to fund the cost of the mitigation or offsets for the impacts associated with the drought emergency authorizations. Ecology is attempting to meet the essential irrigation needs of farmers growing orchard crops, grapes and hops where the loss of irrigation water would permanently damage trees and vines. Essential needs have been defined as 75% to 80% of a usual irrigation water duty delivered by the irrigation districts.

This authorization is conditioned by the following provisions and limitations:

This authorization is for a new well located within the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 6, T. 9 N., R. 25 E.W.M.



The well must comply with the following construction requirements and restrictions:

- (a) The casing shall be set or placed (not driven) twenty (20 feet into the first solid, un-fractured, nonporous, non-vesicular basalt flow occurring at or below 100 feet, whichever is greater;
- (b) The well annulus shall be pressure grouted utilizing cement grout as a sealing agent from the bottom of the casing to the land surface;
- (c) The well annulus shall be at least four (4) inches greater in diameter than the permanent casing and;
- (d) The well depth shall terminate at or above a depth corresponding to the top of the Mabton sedimentary interbed, which should be encountered at a depth of approximately 540 feet.
- (e) Installation of an airline and access port for water level measurement is required.

All water wells constructed within the state shall meet the minimum standards for construction and maintenance as provided under RCW 18.104 (Washington Water Well Construction Act of 1971) and Chapter 173-160 WAC (Minimum Standards for Construction and Maintenance of Water Wells).

The quantity of water to be withdrawn is limited to 100 gallons per minute(gpm) and 100 acre-feet per year to irrigate 80 acres of juice grapes. This is based upon the instantaneous quantity requested and an annual quantity of 1.25 acre-feet per acre for juice grapes.

Water is to be used for supplemental irrigation of juice 80 acres of juice grapes from May 1 to October 31, 2001. The place of use is described as follows:

The E $\frac{1}{2}$ NW $\frac{1}{4}$, less .90 acres for road right of way (Lot 3 and the SE $\frac{1}{4}$ NW $\frac{1}{4}$) less road right of way 2-19-64, together with easement 12-13-68, 12-18-53, joint driveway easement 11-29-68, Benton County.

A suitable flow meter approved by the Department of Ecology shall be installed and maintained in accordance with WAC 508-64-020 through WAC 508-64-040.
(Installation, operation and maintenance requirements attached hereto.)

Whenever water is being diverted, bi-weekly (every two weeks) readings of the flow meter shall be recorded and maintained by the permittee. These readings shall be documented by time, date, withdrawal rate, and the person conducting the measurements. Copies of these records shall be submitted to the Department of Ecology at the end of the 2001 irrigation season.

Withdrawal of water under this authorization may be limited or otherwise regulated in favor of senior rights.

Department of Ecology personnel, upon presentation of proper credentials, shall have access at reasonable times, to the records of water use that are kept to meet the above conditions, and to inspect at reasonable times any measuring device used to meet the above conditions.

This drought emergency authorization expires on October 31, 2001.

This Order may be appealed pursuant to RCW Chapter 43.21B. The person to whom this Order is issued must file an appeal with the Pollution Control Hearings Board **within thirty (30) days of receipt of this Order**. Send the appeal to: Pollution Control Hearings Board, P.O. Box 40903, Olympia, Washington 98504-0903. At the same time, a copy of the appeal **must** be sent to: Department of Ecology, Fiscal Office, P.O. Box 47615, Olympia, Washington 98504-7615. All others receiving notice of this Order must file an appeal with the Pollution Control Hearings Board **within thirty (30) days of the date the Order was mailed** in the same manner described above.

Sincerely,



Robert F Barwin, Section Manager
Water Resources Program

RFB:PNK:gg
010579

Enclosures: Flow Meter Requirements
cc: Yakama Nation

G4-32966

GERRIT SCHINKELSHOEK

SEC 4 T9N R25E

TRP
20 APR 01

- APP ACCEPTED AND ENTERED INTO COMPUTER
- DROUGHT LETTER: N/A.
- REQUEST 160 ACRES @ ≤ 450 gpm @ ≤ 2 ACRE-FT./YR.
 - CALCULATE AT LEAST 149.8 ACRES, NOT INCLUDING THOSE NEBULOUS AREAS ADJOINING THE ROZA CANAL.
- FROM X-SECTION J-J', WANAPUM FM. LIES $\sim 550'$ ABOVE MSL; $\sim 700'$ BELOW GRADE IN THE VICINITY OF THE PROPOSED WELL LOCATION.
 - ROBUST DATA: X-SECTION J-J' TRAVELS THROUGH SCHINKELSHOEK'S P.O.U.
- NEW WELL PROPOSED WITH 7 DROUGHT WELLS IN SAME SECTION - SEE CARDEX PRINTOUT.

applicant reduced his
request to 100 gpm, 1 acre/yr,
80 acres
↓ well location Section #
5-11-2001

Central Regional Office

WRATS REPORT BY TRS

G4-32966 GERRIT SCHINKELSHOEK

CONTROL NUMBER	TYPE/STAT	BUSINESS/PERSON NAME	PRIORITY DATE	WRIA CODE	COUNTY NAME	Q1	ACRE FT/YR	ACRES IRR	DOM UNITS	PURPOSES	SOURCE	TRS	QUAD
G4-32062	AP	O'BRIEN, PATRICIA	5/24/94	37	BENTON	283.000		73		IR-HE-FP.	WELL	T 9W/R25E-4	W/2NW/4
G4-24860TRIS	PE/CAN	OLSEN BROTHERS FARMS	2/28/77	37	BENTON	750.000	270.00	75		IR.	WELL	T 9W/R25E-4	NW/4NW/4
G4-25064TRIS	PE/CAN	SCHINKELSHOEK G,	3/25/77	37	BENTON	800.000	288.00	80		IR-DS.	WELL	T 9W/R25E-4	
G4-32966	AP	SCHINKELSHOEK, GERRI	4/16/2001	37	BENTON	450.000		160		IR.	WELL	T 9W/R25E-4	NW/4SW/4
G4-25000PWRIS	PE/CAN	WYCKOFF FARMS INC,	3/16/77	37	BENTON	1200.000	1129.00	400		IR.	WELL	T 9W/R25E-4	NE/4NE/4
G4-31297	PE	WYCKOFF FARMS INC,	6/15/92	37	BENTON	2000.000	160.00	200		IR.	WELL	T 9W/R25E-4	NW/4NE/4
G4-32965	AP	WYCKOFF FARMS INC,	4/12/2001	37	BENTON	2000.000		187		IR.	WELL	T 9W/R25E-4	NW/4NE/4
G4-32036	AP	WYCKOFF FARMS INC, W	6/14/94	37	BENTON	2000.000		300		IR.	WELL	T 9W/R25E-4	
G4-111023CL	CL[L]	WYCKOFF, CLIFFORD D	0/0/1950	37	BENTON					DG	WELL	T 9W/R25E-4	

THIS IS THE ONLY WELL SHOWN IN GWIS: NE1/4 NW1/4 NE1/4 Sec. 4.
 G4-28918P - LOCATED ON BORDER OF Sec 4 & 5, BUT IN Sec. 5. (FROM GWIS).

WATER WELL REPORT

STATE OF WASHINGTON

Start Card No. 216774

UNIQUE WELL I.D. # _____

Water Right Permit No. _____

(1) OWNER: Name Donald W. Lewis Address _____

LOCATION OF WELL: County _____ 1/4 _____ 1/4 Sec 1 T. 9 N. R. 24 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) _____
 Abandoned New well Method: Dug Bored
 Deepened Cable Driven
 Reconditioned Rotary Jetted

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

(6) CONSTRUCTION DETAILS:
 Casing installed: _____" Diam. from _____ ft. to _____ ft.
 Welded _____" Diam. from _____ ft. to _____ ft.
 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 _____
 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 _____
 Artesian pressure _____ lbs. per square inch Date _____
 Artesian water is controlled by _____ (Cap, valve, etc.)

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

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

Time	Water Level	Time	Water Level	Time	Water Level

Date of test _____
 Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
 Airstest _____ 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
Hard Gray Basalt	718	723
Broken Basalt H20 723	723	743
Wood	743	748
Green Clay	748	750
Gray Basalt	750	770
Broken Gray Basalt	770	786
Gray Basalt	786	793
Black Basalt	793	860
Broken Basalt	860	862
Soft Brown Basalt	862	873
Gray Basalt	873	905
Gray and Black Basalt	905	909
Broken Basalt	909	914
Black Basalt	914	918
Broken Basalt	918	920
Gray Basalt	920	930
Black Basalt	930	936
Broken Gray Basalt	936	943
Black Basalt	943	947
Broken Basalt	947	949
Gray/Black Basalt	949	952
Broken Black Basalt	952	968
Porous Brown/Black Basalt	968	973
Brown/Black Basalt	973	994
Porous Broken Black Basalt	994	1027
Broken Gray Basalt	1027	1064
Gray Basalt	1064	1077
Broken Gray Basalt	1077	1085
Porous Gray Basalt (soft)	1085	1115
Broken Gray Basalt	1115	1141
Porous Brown/Black Basalt	1141	1144
Brown/Black Basalt (med)	1144	1175
Broken Black Basalt	1175	1205
Broken Gray Basalt	1205	1227

Work started _____, 19. Completed _____, 19.

WELL CONSTRUCTOR CERTIFICATION: **RECEIVED**

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 knowledge and belief.

NAME LK Drilling Corp Inc (PERSON, FIRM, OR CORPORATION)

Address 320 Lucerne Road Homer City, PA 15748

(Signed) Leo Kay License No. 0751 (WELL DRILLER)

Contractor's Registration No. LKDRIC1077KP Date July 26, 19 93

(USE ADDITIONAL SHEETS IF NECESSARY)



WATER WELL REPORT

Application No. 0425096
Permit No.

STATE OF WASHINGTON

Department of Ecology

(1) **OWNER:** Name Washington State University Address Prosser, Washington

(2) **LOCATION OF WELL:** County Benton - NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 6 T. 9 N., R. 25 W. K

Bearing and distance from section or subdivision corner Prosser Experimental Station

(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 17-1/2" & 14-3/4" inches.
Drilled 1200 ft. Depth of completed well 1200 ft.

(6) **CONSTRUCTION DETAILS:**

Casing installed: 20" Diam. from ± 1 ft. to 25 ft.
Threaded 16" Diam. from ± 1 ft. to 750 ft.
Welded 12-3/4 Diam. from 730 ft. to 1200 ft.

Perforations: Yes No
Type of perforator used factory cut
SIZE of perforations 1/8 in. by 2-1/2 in.
perforations from 730 ft. to 1200 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? 25 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 Layne & Bowler
Type: Electric HP. 400

(8) **WATER LEVELS:** Land-surface elevation above mean sea level 1200 ft.
Static level 533 ft. below top of well Date 7-16-77
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? Luhdorff
Yield: 1500 gal./min. with 26 ft. drawdown after 10 minutes
" 1500 " " 30 " " 100 min."
" 1500 " " 26 " " 390 min."

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
30 min	531	120 min	533	360 min	533
60 min	533	150 min	533	420 min	533
90 min	533	180 min	533	480 min	533

Date of test 7-15-77
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m. Date _____
Temperature of water 78° 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	6
Boulders & sand	6	21
Black basalt	21	36
Basalt & sandy clay	36	39
Black basalt	39	46
Black & brown basalt	46	70
Black & gray basalt	70	78
Black basalt with Clay and sand	78	102
Blue clay and sand	102	137
Black & gray basalt	137	166
Brown & red basalt	166	186
Black & gray basalt	186	370
Black basalt with clay	370	408
Black & green	408	420
Black & brown basalt	420	437
Black & gray basalt	437	614
Black basalt with brown clay	614	630
Black basalt with brown & gray clay	630	648
Gray gumbo	648	670
Gray gumbo with brown clay	670	690
Brown & gray clay with wood	690	700
Black & gray basalt	700	790
Black basalt	790	825
Black brown basalt	825	900
Black & gray basalt	900	930
Black basalt	930	951
Black & gray basalt	951	1000
Black basalt	1000	1026
Black & gray basalt with sand	1026	1048
Black & gray basalt	1048	1073
Basalt, Black, fractured, W.B.	1073	1081
Basalt, black, medium hard	1081	1200

Work started June 1, 19 77 Completed July 16, 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.

E. E. Luhdorff Company
NAME Division of Layne-Western Co., Inc.
(Person, firm, or corporation) (Type or print)

Address P.O. Box 336, Moses Lake, Wash. 98837

[Signed] John P. Goodell
(Well Driller)

License No. 0162 Date September 7, 1977