



# Oregon

John A. Kitzhaber, M.D., Governor

Vern

## Water Resources Department

Commerce Building  
158 12th Street NE  
Salem, OR 97301-4172  
(503) 378-3739  
FAX (503) 378-8130

### INTEROFFICE MEMO

FORWARD TO: Salem Transfer Section  
FIELD PROCESSOR WORKING ON THIS TRANSFER

DATE: 8-11-05

FROM: \_\_\_\_\_ WATERMASTER, DISTRICT # \_\_\_\_\_  
X \_\_\_\_\_ GROUNDWATER SECTION

(SIGNATURE) Michael Zwart *signed by injury reviewer* date signed 1/6/07

SUBJECT: WATER RIGHT TRANSFER # 9986

A change in: POU POD APOA USE of water.

In the name(s) of Lakeview Water Users/Harvey + Vickie Childress

In my opinion (assuming the right is valid), the proposed change

MAY BE MADE WITHOUT INJURY  WOULD RESULT IN INJURY\* to an existing water right.

\*The approval of this transfer application would result in injury to other water rights because \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The existing right may not be valid because \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Headgate notices HAVE HAVE NOT Been issued for diversion from the source(s) which serve(s) this right.

If for change in point of diversion, is there any intervening point(s) for diversion between the authorized and proposed points of diversion? (Yes or No) \_\_\_\_\_

In my opinion, the order approving the subject transfer application should include the following in regard to the appropriator installing suitable measuring devices in the diversion works:

\_\_\_\_\_ (1) PRIOR to the diverting of water at the new point of diversion . . .

\_\_\_\_\_ (2) WHEN IN the judgement of the watermaster it becomes necessary . . .

The enclosed copy of the transfer application and map(s) is for your records.

# Memorandum

**To:** Transfer File T-9986 Lakeview Water Users/Harvey and Vickie Childress  
**From:** Ivan Gall/Mike Zwart - Hydrogeologists  
**Date:** 02/07/2007  
**Re:** Groundwater Review of Transfer T-9986

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The groundwater portion of this transfer involves Certificates 22861 and 40196. The applicant is proposing to transfer some of the place of use and add an additional POA for Certificate 22861. For Certificate 40196, the applicant is changing some of the place of use. This groundwater review addresses the proposed additional POA to ensure the source is the same as that permitted under Certificate 22861.

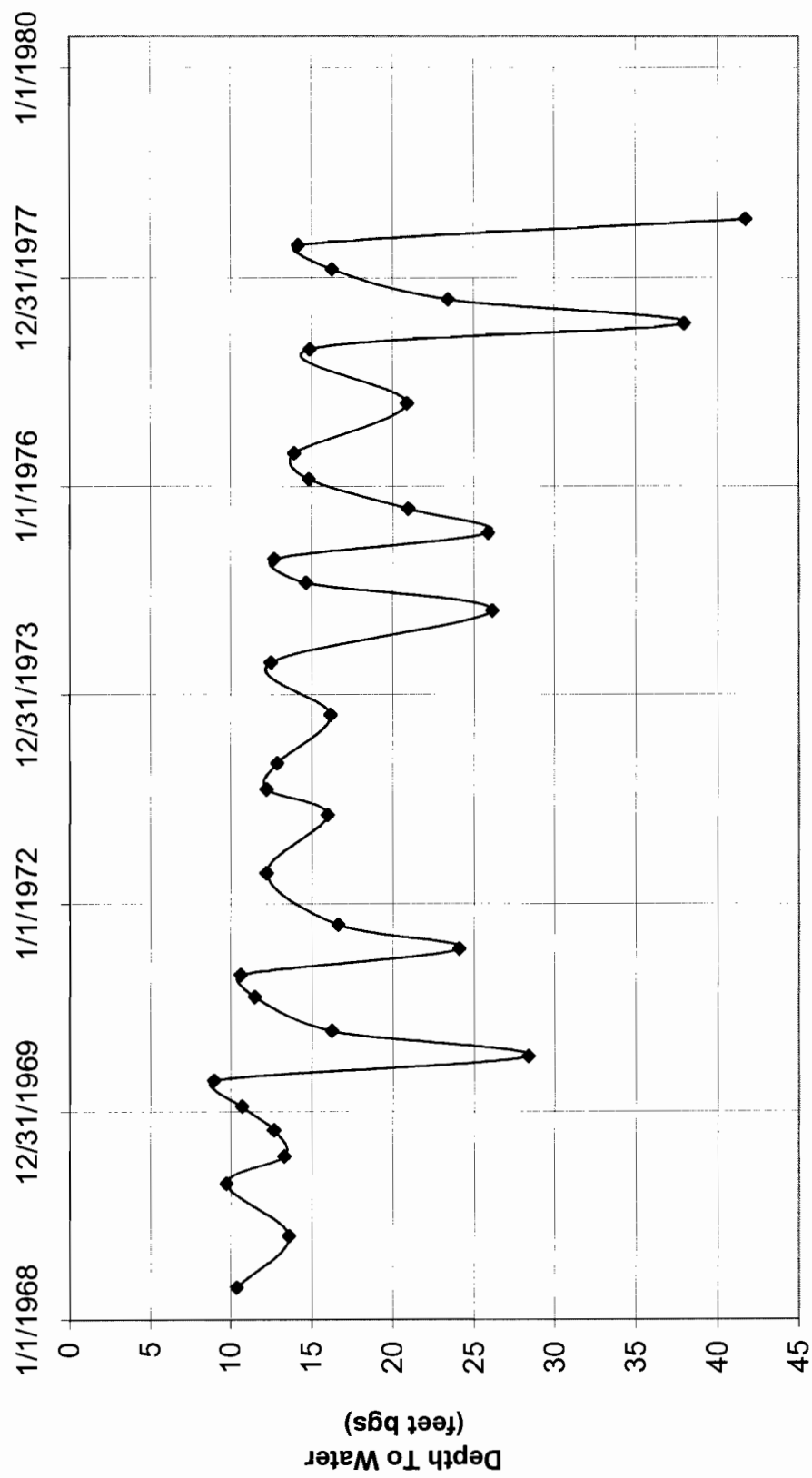
The proposed additional POA is a drilled well with no well log. Information supplied by the applicant indicates 12-inch casing and unknown depth of the additional POA. The applicant supplied well log LAKE 2202 for the approved POA. LAKE 2202 is 370 feet deep, 14-inch casing, and completed in unconsolidated sediment (clay to gravel in size). LAKE 2202 is an old state observation well, measured from 1968 to 1978 (hydrograph attached).

The aquifer is composed of unconsolidated sediments ranging from clay to gravel in size. The multiple permeable zones separated by lower permeability clay layers suggest some degree of confinement, with the permeable zones being progressively more confined with depth. A few nearby well logs report clay layers of up to 48 feet in thickness, but where they are described at all, they are not correlated easily from well to well.

Water level data for the area are sparse. Data are available for LAKE 2424, located ~ 3.5 miles to the northeast, and LAKE 2320, located ~ 3 miles to the southwest. The hydrographs are attached. Seasonal high water level elevations do not indicate any long-term declines, although an apparent decline in LAKE 2424 from the 60's to the 90's was reversed in 1990-91.

No injury is likely to result from approval of this transfer.

# LAKE 2202 HYDROGRAPH



Well Location **39.00S20.00E90A0X**  
 Oregon Water Resources Department Well Log ID **LAKE 2424**  
 Oregon Water Resources Department State Observation Well Number **381**  
 Well depth, in feet below land surface **800**  
 Land surface elevation, in feet above mean sea level **not determined**  
 Primary use of well **not determined**

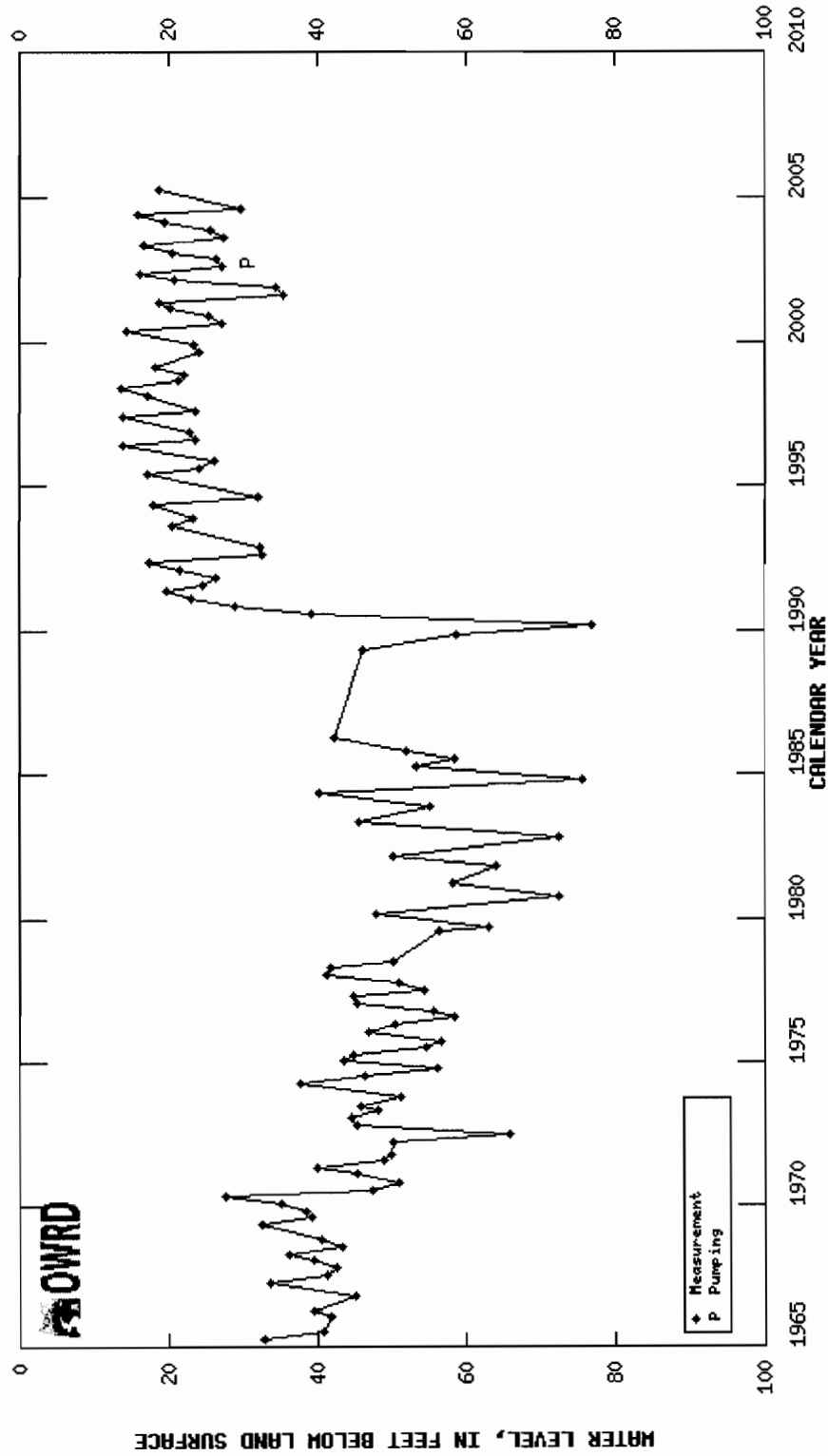


Table showing water-level data for State Well LAKE 2424, State Observation Well # 381

STATE ENGINEER  
Salem, Oregon

WATER LEVEL MEASUREMENTS

Measuring Point TOC @ S.S.D.

DATE	TAPE READING AT-		DEPTH TO WATER	Water Level Feet (above/below) Land Surface	MEAS. BY	REMARKS
	Meas. Point	Water Level				
4-23-74	10	+2.50	12.50	12.50	DG	3701
7-23	PPG				DG	
10-22	30	-3.85	26.15	26.15	DG	
1-28-74	31	-16.35	14.65	14.65	DG EHD	
4-22	20	-7.31	12.69	12.69	DG	
7-22	31	-5.10	25.90	25.90	DG	
10-19	30	-9.03	20.97	20.97	DG	
1-27-76	20	-5.16	14.84	14.84	DG	
4-27	20	-6.07	13.93	13.93	DG	
8-3	100	-15.15	84.85	84.85	DG	OFF - PUMP STILL WARM - ENOUGH HOT
10-19	30	-9.11	20.89	20.89	DG	
1-25-77	PUMP HOUSE DENT FROZEN SHUT					
4-26	25	-10.11	14.89	14.89	DG	
7-26	40	-2.01	37.89	37.89	DG	
10-18	40	-16.57	23.43	23.43	DG	
1-31-78	15	+1.27	16.27	16.27	DG MA	
4-25	15	-0.81	14.19	14.19	MA	
7-25	40	41.73	41.73	41.73	MA	

COUNTY L.A.K.E. STATE WELL NO. 39/19-13.00  
IN-3-4 PULL PLATE ON CASING ASIDE TO MEASURE

ELMO ANGELE

STATE ENGINEER  
Salem, Oregon

WATER LEVEL MEASUREMENTS

Measuring Point T.O.S. AT L.S.D.

DATE	TAPE READING AT—		DEPTH TO WATER	Water Level Feet (below) Land Surface	MEAS. BY	REMARKS
	Meas. Point	Water Level				
4-23-68	11.00	0.62	10.38	10.38	RD	370'
7-23	PP9				RD	
10-21	15	1.41	13.59	13.59	RD	
4-23-69	14	4.26	9.74	9.74	RD	
7-28	15	1.70	13.30	13.30	RD	
10-28	14	1.32	12.68	12.68	RD	
1-20-70	14	3.29	10.71	10.71	RD	
4-21	10	1.03	8.97	8.97	RD	
7-14	35	6.60	28.40	28.40	RD	
10-12	18	1.76	16.24	16.24	AD	
2-9-71	12	0.50	11.50	11.50	AD	
4/27	11	1.37	10.63	10.63	MG	
7/27	32	7.91	24.09	24.09	MG	
10/20	20	3.37	16.63	16.63	MG	
4-12-72	31	12.70	12.23	12.23	MG	
7-17	PP9				J.F.	
11-7	25	9.01	15.99	15.99	J.F.	
2-5-73	16	3.78	12.22	12.22	J.F.	
5-1	80	2.12	12.88	12.88	J.F.	
7-17	PPA				J.F.	
10-2	28	11.84	16.16	16.16	J.F.	

Elevation of Measuring Point Land Surface

COUNTY LAKE STATE WELL NO. 39/19-130(1)

FLMO ANGELES

RECEIVED  
9ET 3-0 1958

OBSERVATION WELL

WATER WELL REPORT

STATE ENGINEER  
SALEM, OREGON

STATE OF OREGON

State Well No. 39/20-9A(1)  
State Permit No. G787 G-8599

File Original and First Copy with the STATE ENGINEER, SALEM, OREGON

(1) OWNER:

Name Lakeview Mining  
Address Lakeview, Oregon

(2) LOCATION OF WELL:

County Lake Owner's number, if any— #1  
NE 1/4 NE 1/4 Section 9 T. 39S R. 20E W.M.  
Bearing and distance from section or subdivision corner  
S20°39'W 790 ft. from NEC Sec. 9 T39S, R20E

(3) TYPE OF WORK (check):

New Well  Deepening  Reconditioning  Abandon   
Abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic  Industrial  Municipal   
Irrigation  Test Well  Other

(5) TYPE OF WELL:

Rotary  Driven   
Cable  Jetted   
Dug  Bored

(6) CASING INSTALLED:

Threaded  Welded   
12 3/4" Diam. from 1 ft. to 800 ft. Gage 1/4"  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

(7) PERFORATIONS:

Perforated?  Yes  No

Type of perforator used Mills Knife  
SIZE of perforations 1/4 in. by 3 in.  
90 perforations from 100 ft. to 100 ft.  
111 perforations from 132 ft. to 155 ft.  
16 perforations from 160 ft. to 165 ft.  
94 perforations from 450 ft. to 460 ft.  
68 perforations from 500 ft. to 515 ft.

(8) SCREENS:

Well screen installed  Yes  No

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

(9) CONSTRUCTION:

Was well gravel packed?  Yes  No Size of gravel: 1/4 x 3/4  
Gravel placed from 0 ft. to 3 ft.  
Was a surface seal provided?  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 \_\_\_\_\_

(10) WATER LEVELS:

Static level 428 ft. below land surface Date 7/30/58  
Artesian pressure \_\_\_\_\_ lbs. per square inch Date \_\_\_\_\_

Log Accepted by:

[Signed] Howard G. Autho Date 10/29, 1958  
(Owner)

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made?  Yes  No If yes, by whom? Interstate Pump  
Yield: 600 gal./min. with 183 ft. drawdown after 10 hrs.

Ballor test gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

Artesian flow g.p.m. Date \_\_\_\_\_

Temperature of water 98 Was a chemical analysis made?  Yes  No

(12) WELL LOG:

Diameter of well 12 3/4 inches.

Depth drilled 800 ft. Depth of completed well \_\_\_\_\_ ft.

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	10
Hard pan	10	20
Cinders and sand	20	40
Sandstone	40	45
Brown clay and gravel	45	110
Blue clay and sand	110	142
Brown clay and gravel	142	200
Blue clay (sticky)	200	245
Brown sand and clay	245	258
Green sticky clay	258	263
Quick sand	263	275
Gray sticky clay	275	305
Sandstone	305	322
Gray sticky shale	322	395
Sandstone	395	418
Gray sticky shale	418	438
Sandstone	438	445
Gravel	445	460
Gray shale	460	485
Blue shale (sticky)	485	495
Gravel	495	501
Shale and gravel	501	521
Gray shale (sticky)	521	549
Gravel, little clay	549	551
Gravel	551	570

Work started 4/28 1958 Completed 7/26 1958

(13) PUMP:

Manufacturer's Name Fairbanks-Morse  
Type: 6927 H.P. 50

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 L. E. Storey Well Drilling  
(Person, firm, or corporation) (Type or print)

Address 4237 Summers Lane Klamath Falls, Ore.

Driller's well number \_\_\_\_\_

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

License No. 74 Date 8/20, 1958

OBSERVATION WELL

39/20 - 9 A(1)

100 Perforations from 545 feet to 580  
88 " " 645 " " 685

Total Perforations - - - - - 567

MATERIAL	FROM	TO
Sand, little clay	570	576
Gravel	576	578
Fine blue sand	578	601
Shale and gravel (sticky)	601	618
Gravel and fine blue sand	618	630
Quick sand	630	638
Gravel with sand	638	687
Sandstone with gravel	687	705
Blue clay and gravel	705	720
Sand and gravel	720	777
Coarse sandstone	777	790
Coarse gravel and clay	790	793
Brown and black sandstone	793	800



Well Location **39.00S19.00E34RD**  
 Oregon Water Resources Department Well Log ID **LAKE 2320**  
 Oregon Water Resources Department State Observation Well Number **380**  
 Well depth, in feet below land surface **110**  
 Land surface elevation, in feet above mean sea level  
 Primary use of well **not determined**

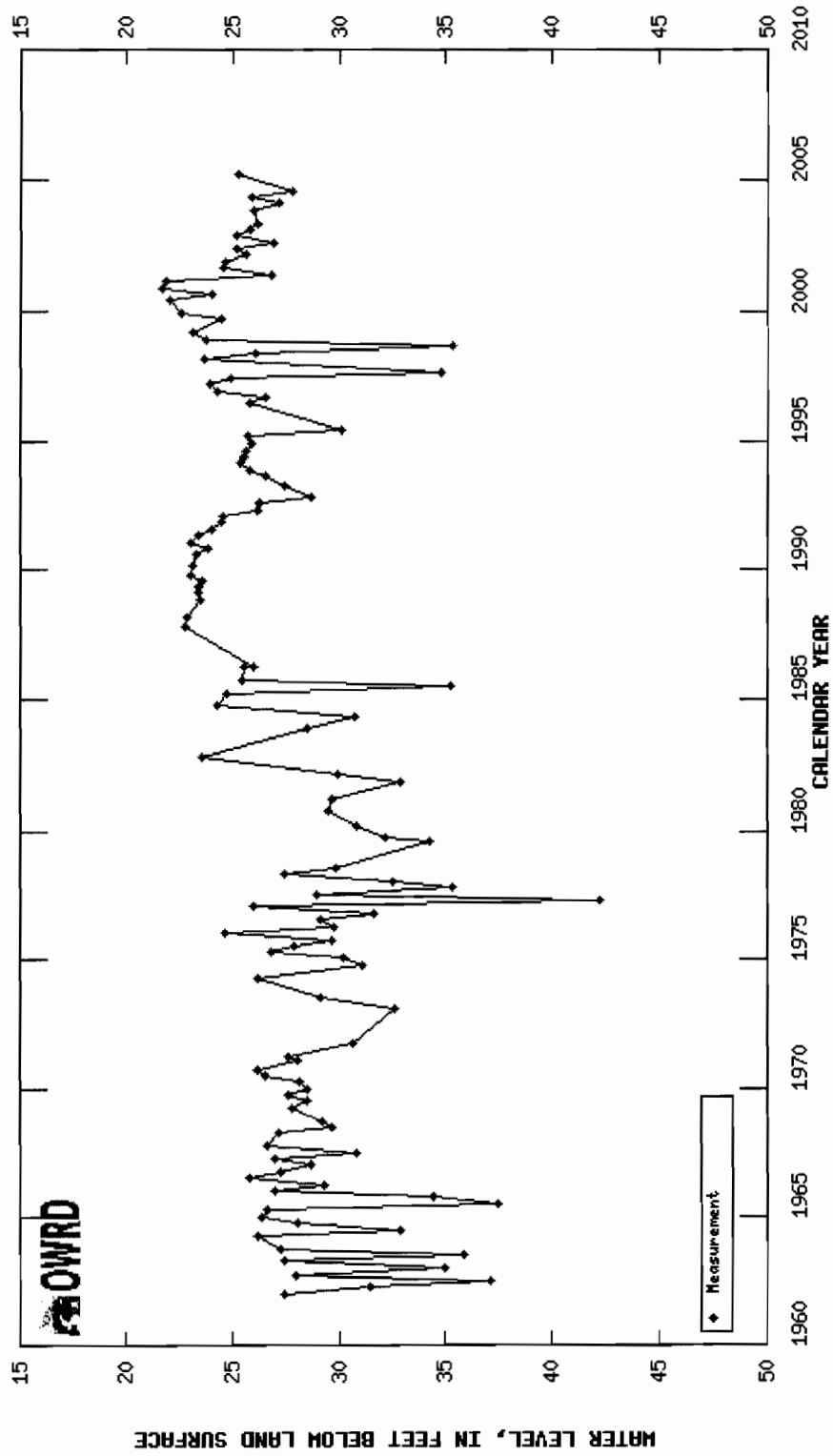


Table showing water-level data for State Well LAKE 2320, State Observation Well # 380