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**GROUND WATER LEVELS  
UPPER BIG SANDY  
DESIGNATED GROUND WATER BASIN**

**2000**



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State Engineer

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Project Manager

Bill Owens  
Governor

This report contains the basic ground water level data collected in the Upper Big Sandy Designated Ground Water Basin during the period from February 1991 through February 2000. Acquisition and publication of this information is a cooperative effort between the Upper Big Sandy Ground Water Management District and the Colorado Division of Water Resources. The project is part of a statewide ground water level monitoring program funded by Senate Bill 200 (1987 legislative session). This legislation directed that a portion of the fees collected for water well permits shall be used for the establishment of a program to monitor water level trends throughout the state.

The wells in this report are listed by township, range, and section, beginning at the north end of the basin and proceeding south. The division is in the process of verifying the location of all of the wells measured with a satellite based global positioning system (GPS). That location information in UTM grid format has been included where available. All wells in the next year's report will show locations by UTM grid coordinates.

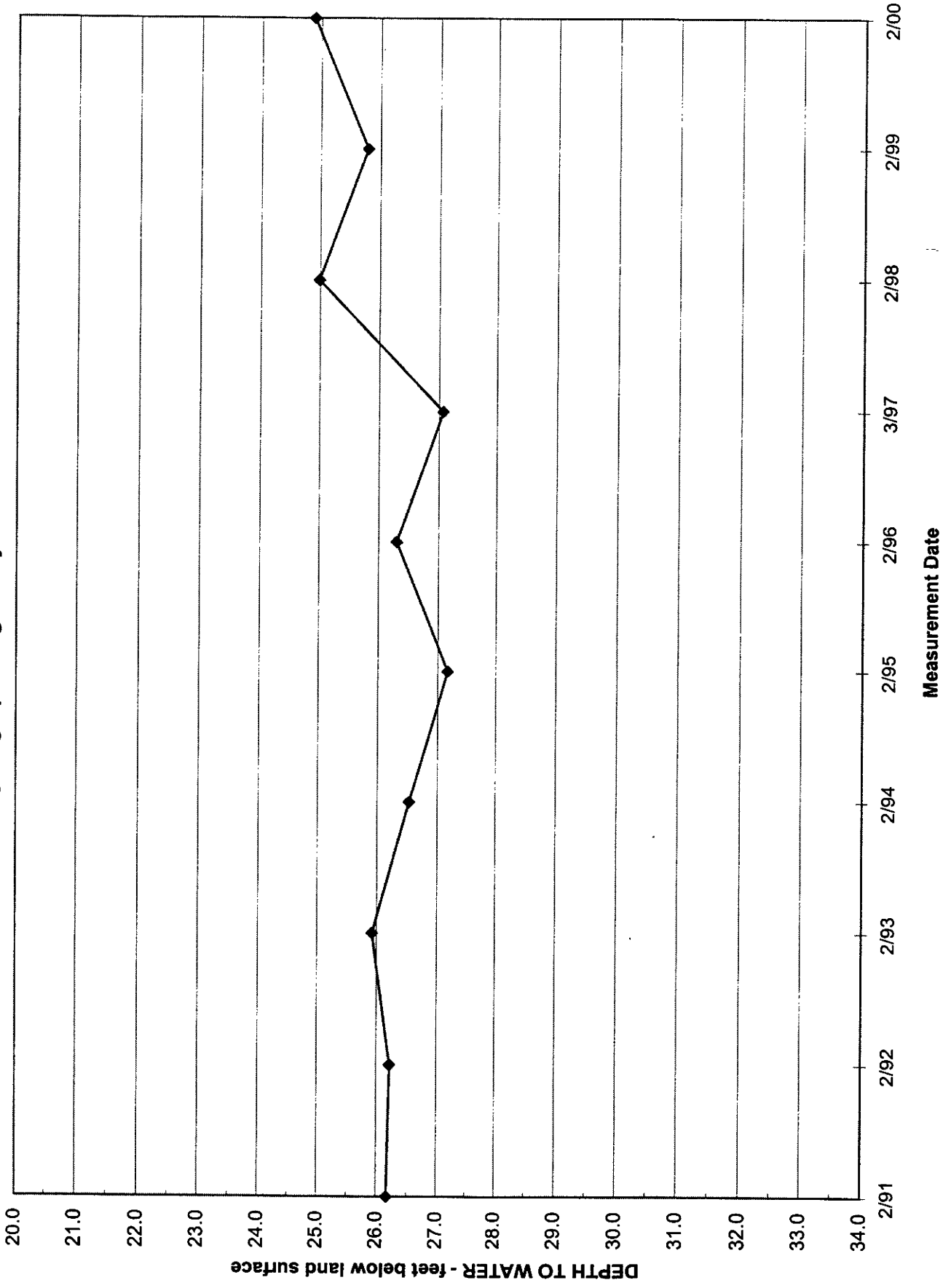
Included in the report are water level measurements and hydrographs of 24 wells monitored on a regular basis. Mr. Glenn Graham of this office took water level measurements in these wells during February 1999. Additional wells in the town of Ramah and in the town of Limon's Christopher Well Filed will also be added to next year's report.

23 wells were measured for this year's report; 1 well was pumping and was not measured. Only one of these wells showed a water level decline of 0.97 of a foot from last year. The remaining 22 wells measured showed increases in water levels from last year ranging from 0.03 of a foot to 3.32 feet. The average change in water level for the 23 wells measured was an increase of 1.51 feet. Water levels in 22 of the 24 wells are currently higher than they were when monitoring began in the Upper Big Sandy Management District in 1991. The overall trend from 1991 to 2000 shows an average increase of 2.52 feet, or approximately 0.28 of a foot per year. Although fall and winter of 1998 was relatively dry, a wetter than normal summer of 1997 and the heavy snow fall in October 1997 coupled with heavy rains in the late summer of 1999 have resulted in the overall rise in water levels since 1991.

The information in this report was compiled, edited, and prepared for publication by Glenn Graham.

Copies of this report are made available to well owners and the District free of charge. Additional copies may be obtained from the Colorado Division of Water Resources, Public Records Section for \$1.50 each. The Records Section can be contacted at 1313 Sherman Street, Room 818, Denver CO 80203, or by phone at 303/866-3581 or 303/866-3447.

# Hydrograph - Big Sandy No. 1

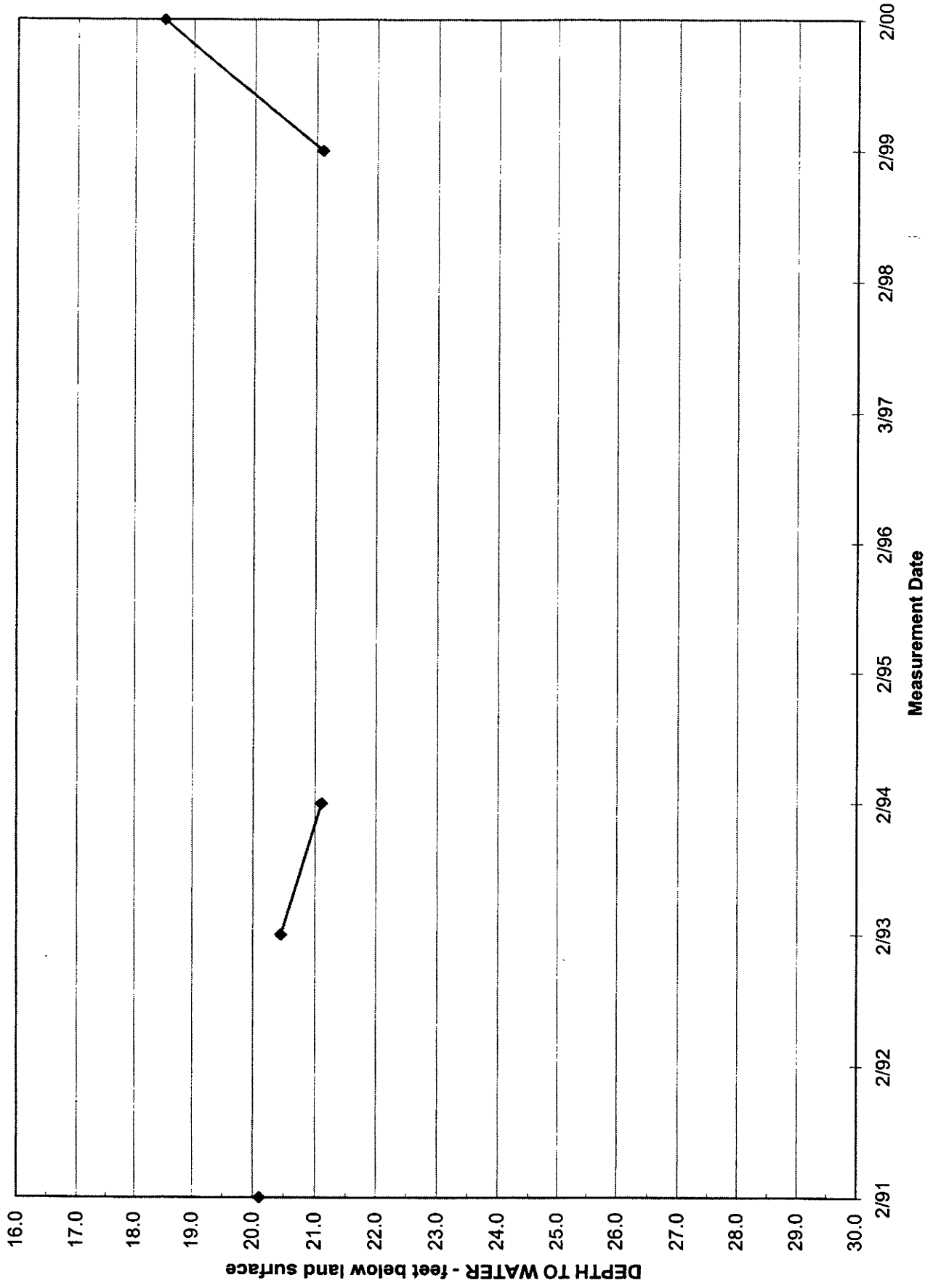


**MONITORING WELL DATA SHEET**

Well I.D.:	BIG SANDY - 1	Well Owner:	UPPER BIG SANDY GWMD
Permit #:		UTM Coordinates:	E
County:	ELBERT	Zone 13	N
Location:	NW/NW/SE SEC. 6, T9S, R57W, 6TH P.M.,		
Aquifer:	ALLUVIUM		
Well Depth (ft):	UKN		
Surface Elev. (ft):	5,500		

Date	Hold (ft)	Cut (ft)	Depth to Water (ft)	Meas. Pt. - Ft. Above Land Surf.	Depth to Water - Ft. Below Land Surf.	Elev. of Water Level (ft)	Change From Previous Level (ft)	Change From 1st Level (ft)	Field Data Rcrd By
02/05/91	30.00	-1.40	28.60	2.43	26.17	5473.8			SAJ
02/10/92	29.00	-0.35	28.65	2.43	26.22	5473.8	-0.05	-0.05	SAJ
02/08/93	38.00	-9.65	28.35	2.43	25.92	5474.1	0.30	0.25	RC
02/15/94	29.00	-0.04	28.96	2.43	26.53	5473.5	-0.61	-0.36	SAJ
02/22/95	30.00	-0.40	29.60	2.43	27.17	5472.8	-0.64	-1.00	LAH
02/20/96	28.00	0.73	28.73	2.43	26.30	5473.7	0.87	-0.13	LAH
03/07/97	29.00	0.50	29.50	2.43	27.07	5472.9	-0.77	-0.90	GRG
02/23/98	25.00	2.42	27.42	2.43	24.99	5475.0	2.08	1.18	GRG
02/10/99	25.00	3.22	28.22	2.43	25.79	5474.2	-0.80	0.38	GRG
02/03/00	27.00	0.32	27.32	2.43	24.89	5475.1	0.90	1.28	GRG

# Hydrograph - Big Sandy No. 4



### MONITORING WELL DATA SHEET

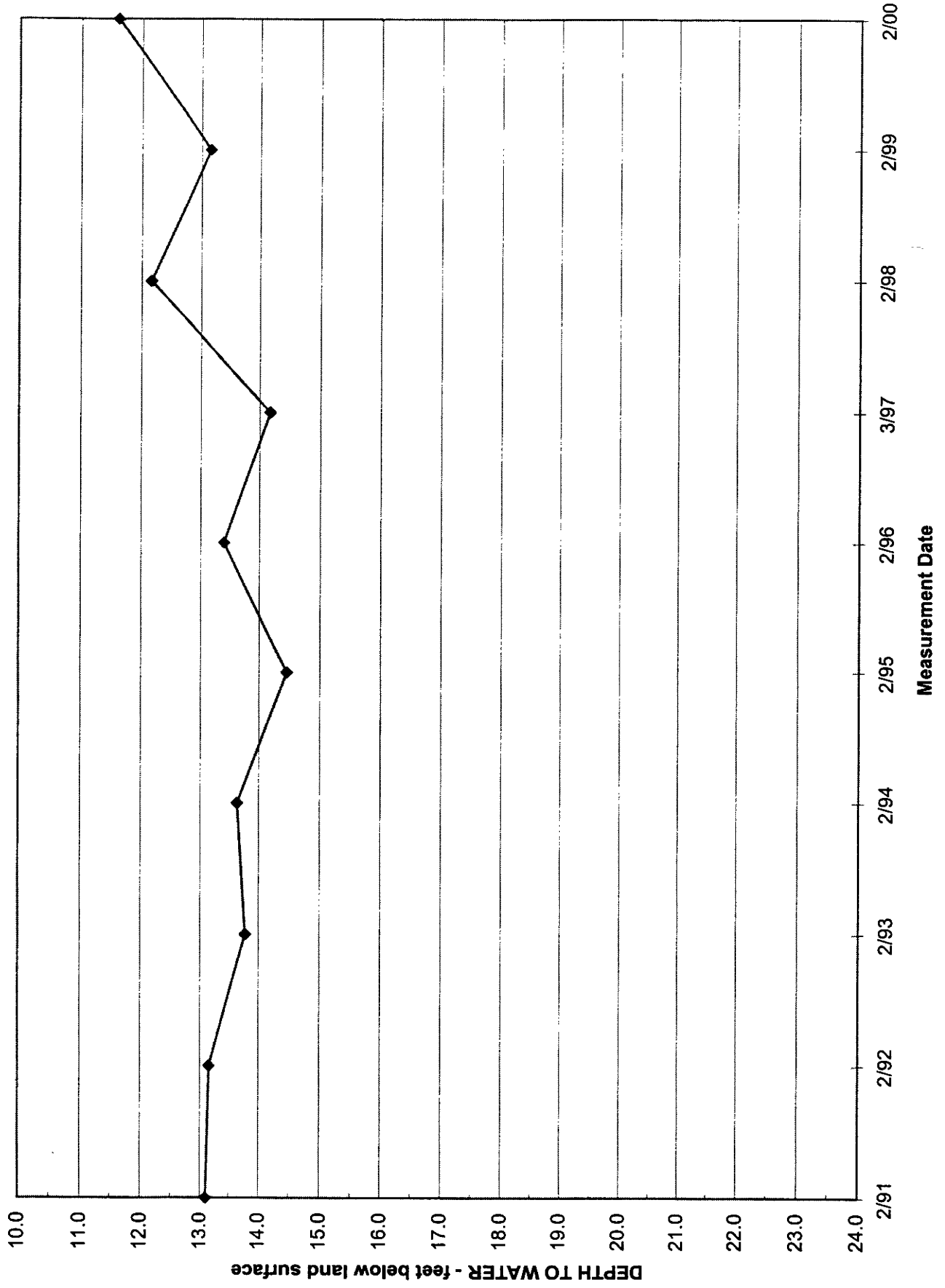
Well I.D.: **BIG SANDY - 4**  
 Permit #: **20007-RF**  
 County: **ELBERT**  
 Location: **SW/SW/SE SEC. 9, T9S, R57W, 6TH P.M.,**  
 Aquifer: **ALLUVIUM**  
 Well Depth (ft): **58**  
 Surface Elev. (ft): **5,458**

Well Owner: **TOWN OF LIMON**  
 UTM Coordinates: **E**  
 Zone 13 **N**

This well is frequently pumping. Water level data is infrequent.

Date	Hold (ft)	Cut (ft)	Depth to Water (ft)	Meas. Pt. - Ft. Above Land Surf.	Depth to Water - Ft. Below Land Surf.	Elev. of Water Level (ft)	Change From Previous Level (ft)	Change From 1st Level (ft)	Field Data Rcrd By
02/05/91	22.00	-0.65	21.35	1.25	20.10	5437.9			SAJ
02/10/92									SAJ
02/08/93	31.00	-9.30	21.70	1.25	20.45	5437.6	-0.17	-0.35	RC
02/15/94	22.00	0.35	22.35	1.25	21.10	5436.9	-0.65	-1.00	SAJ
02/22/95									LAH
02/20/96									LAH
03/07/97									GRG
02/23/98									GRG
02/10/99	22.00	0.35	22.35	1.25	21.10	5436.9	0	-1.00	GRG
02/03/00	20.00	-0.24	19.76	1.25	18.51	5439.5	2.59	1.59	GRG

# Hydrograph - Big Sandy No. 2



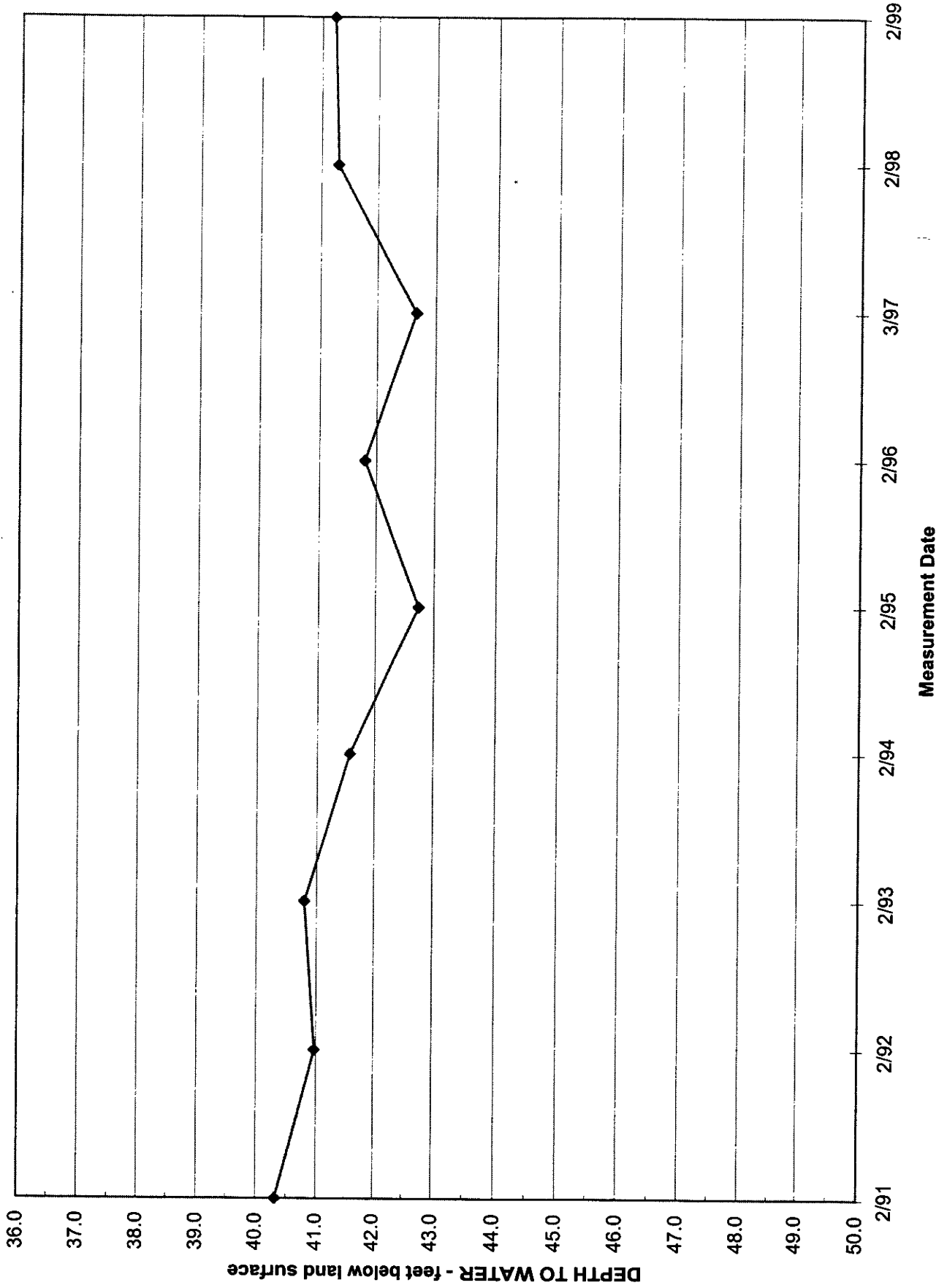
**MONITORING WELL DATA SHEET**

Well I.D.:	BIG SANDY - 2	Well Owner:	UPPER BIG SANDY GWMD
Permit #:		UTM Coordinates:	600,621 E
County:	ELBERT	Zone 13	4,349,823 N
Location:	NW/NW/SE SEC. 1, T9S, R58W, 6TH P.M.,		
Aquifer:	ALLUVIUM		
Well Depth (ft):	UKN		
Surface Elev. (ft):	5,520		

Date	Hold (ft)	Cut (ft)	Depth to Water (ft)	Meas. Pt. - Ft. Above Land Surf.	Depth to Water - Ft. Below Land Surf.	Elev. of Water Level (ft)	Change From Previous Level (ft)	Change From 1st Level (ft)	Field Data Rcrd By
02/05/91	18.00	-2.06	15.94	2.84	13.10	5506.9			SAJ
02/10/92	16.00	0.00	16.00	2.84	13.16	5506.8	-0.06	-0.06	SAJ
02/08/93	24.00	-7.38	16.62	2.84	13.78	5506.2	-0.62	-0.68	RC
02/15/94	16.00	0.48	16.48	2.84	13.64	5506.4	0.14	-0.54	SAJ
02/22/95	17.00	0.30	17.30	2.84	14.46	5505.5	-0.82	-1.36	LAH
02/20/96	17.00	-0.75	16.25	2.84	13.41	5506.6	1.05	-0.31	LAH
03/07/97	17.00	0.02	17.02	2.84	14.18	5505.8	-0.77	-1.08	GRG
02/23/98	17.00	-2.00	15.00	2.84	12.16	5507.8	2.02	0.94	GRG
02/10/99	16.00	0.00	16.00	2.84	13.16	5506.8	-1.00	-0.06	GRG
02/03/00	14.00	0.45	14.45	2.84	11.61	5508.4	1.55	1.49	GRG



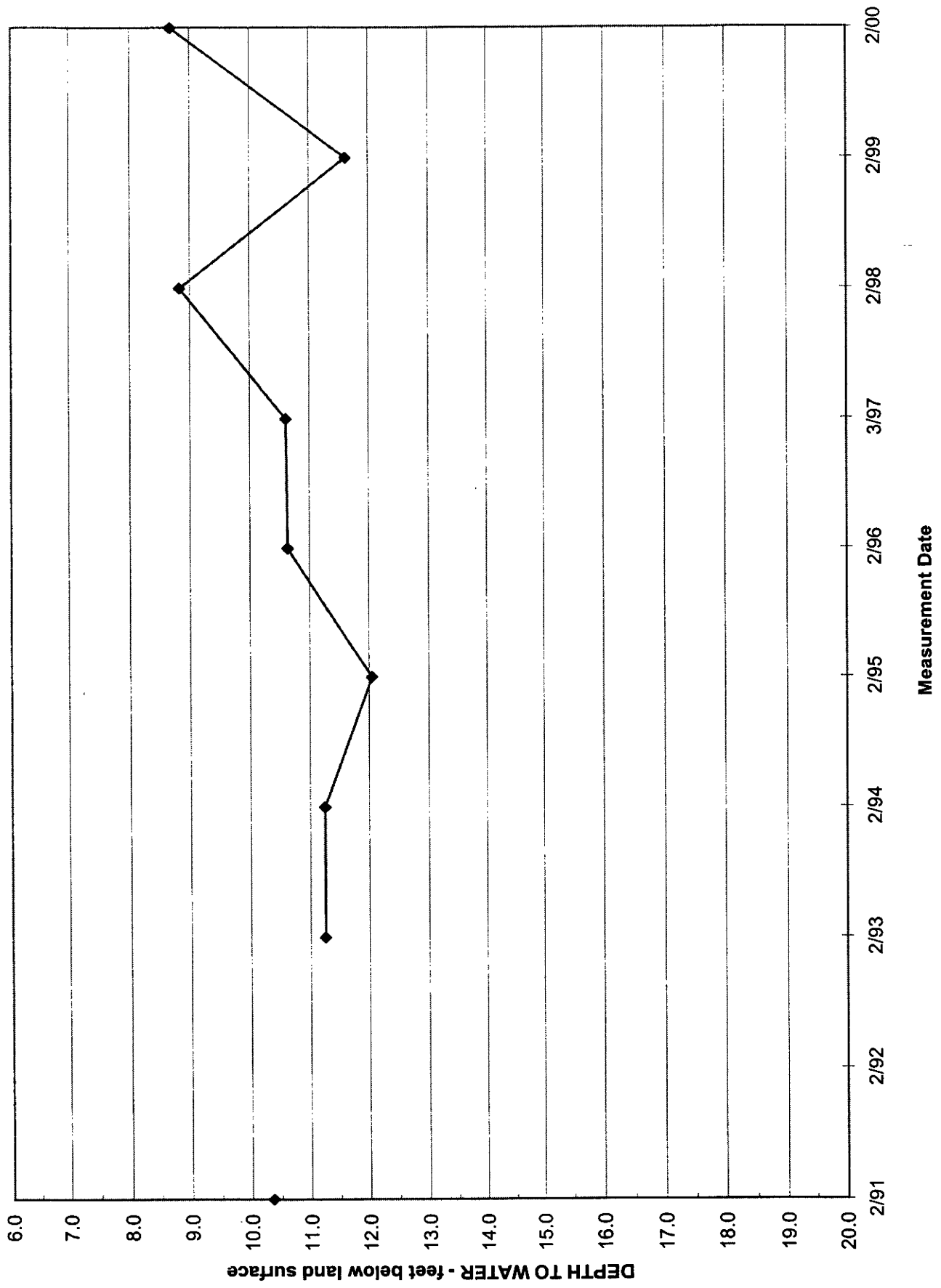
# Hydrograph - Big Sandy No. 13





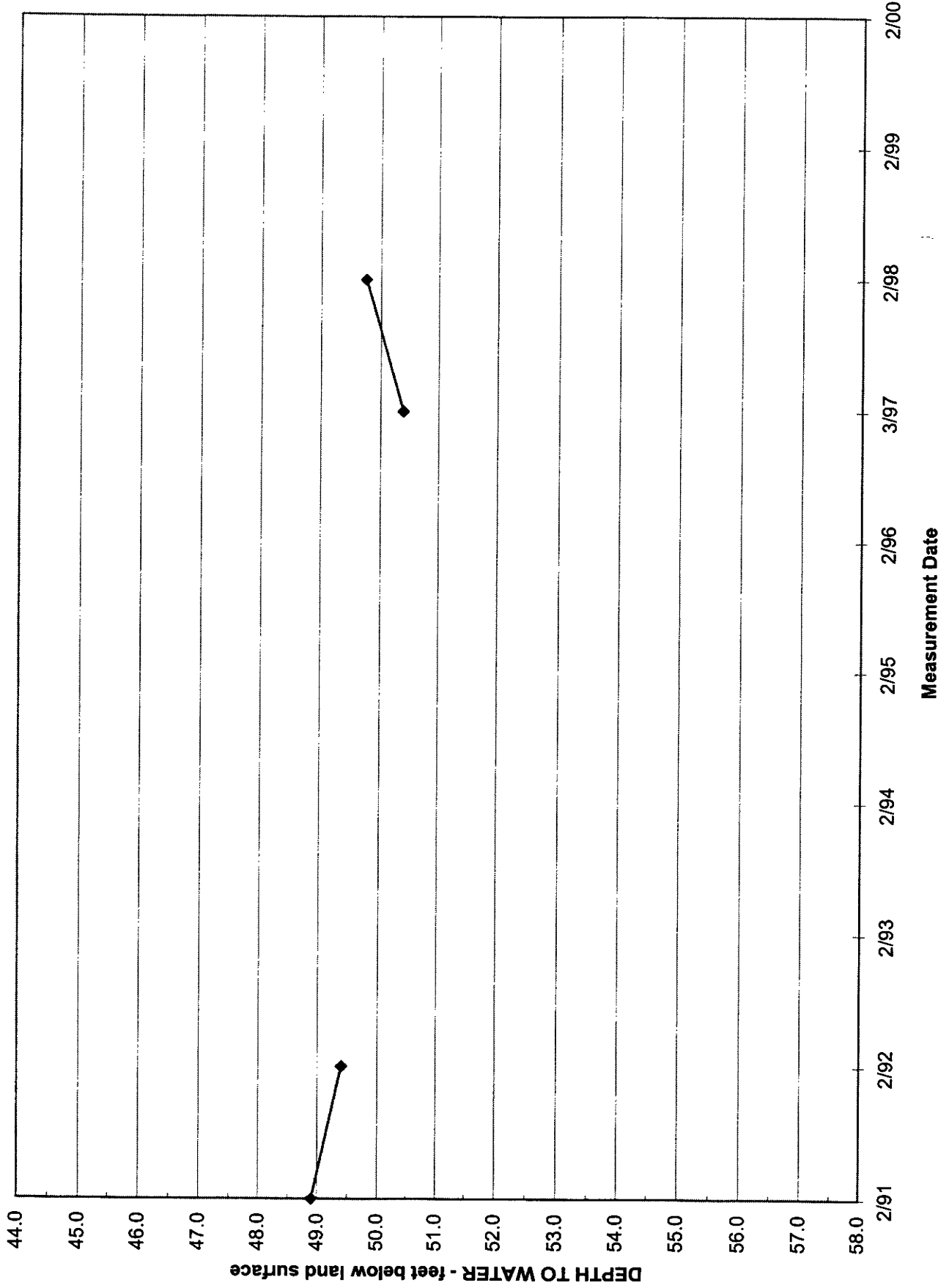


# Hydrograph - Big Sandy No. 14





# Hydrograph - Big Sandy No. 39

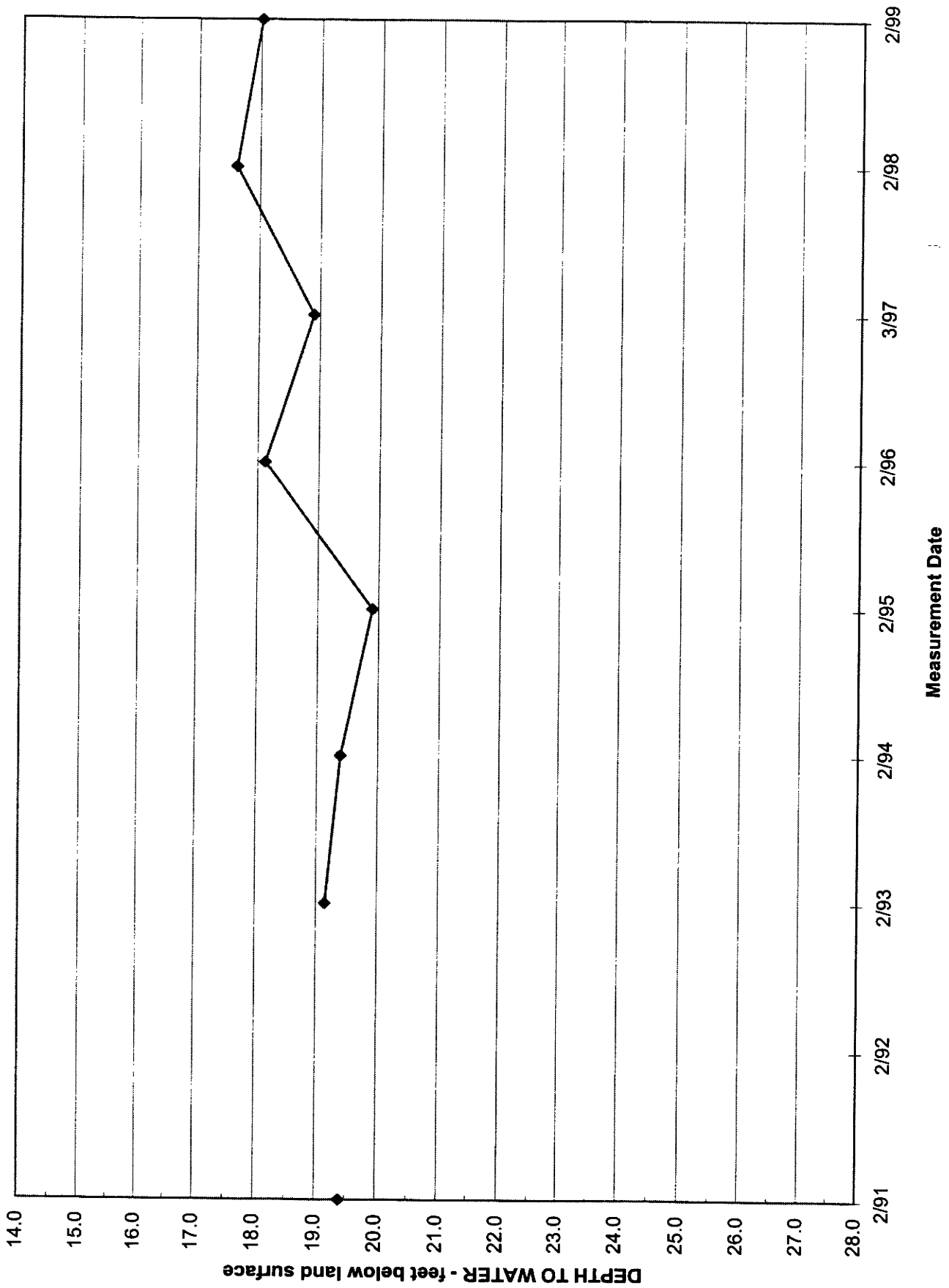


## MONITORING WELL DATA SHEET

Well I.D.:	BIG SANDY - 39	Well Owner:	LASATER RANCH
Permit #:		UTM Coordinates:	E
County:	ELBERT	Zone 13	N
Location:	SW/NW SEC. 3, T10S, R58W, 6TH P.M.,		
Aquifer:	ALLUVIUM	well pumping 2/8/93, 2/15/94, 2/22/95, 2/20/96, 2/10/99, & 2/3/00. No measurements taken.	
Well Depth (ft):	UKN		
Surface Elev. (ft):	5,688		

Date	Hold (ft)	Cut (ft)	Depth to Water (ft)	Meas. Pt. - Ft. Above Land Surf.	Depth to Water - Ft. Below Land Surf.	Elev. of Water Level (ft)	Change From Previous Level (ft)	Change From 1st Level (ft)	Field Data Rcrd By
02/08/91	55.00	-3.20	51.80	2.90	48.90	5639.1			SAJ
02/10/92	52.00	0.30	52.30	2.90	49.40	5638.6	-0.50	-0.50	SAJ
02/08/93									RC
02/15/94									SAJ
02/22/95									LAH
02/20/96									LAH
03/07/97	55.00	-1.70	53.30	2.90	50.40	5637.6	-1.00	-1.50	GRG
02/23/98	52.00	0.65	52.65	2.90	49.75	5638.3	0.65	-0.85	GRG
02/10/99									GRG
02/03/00									GRG

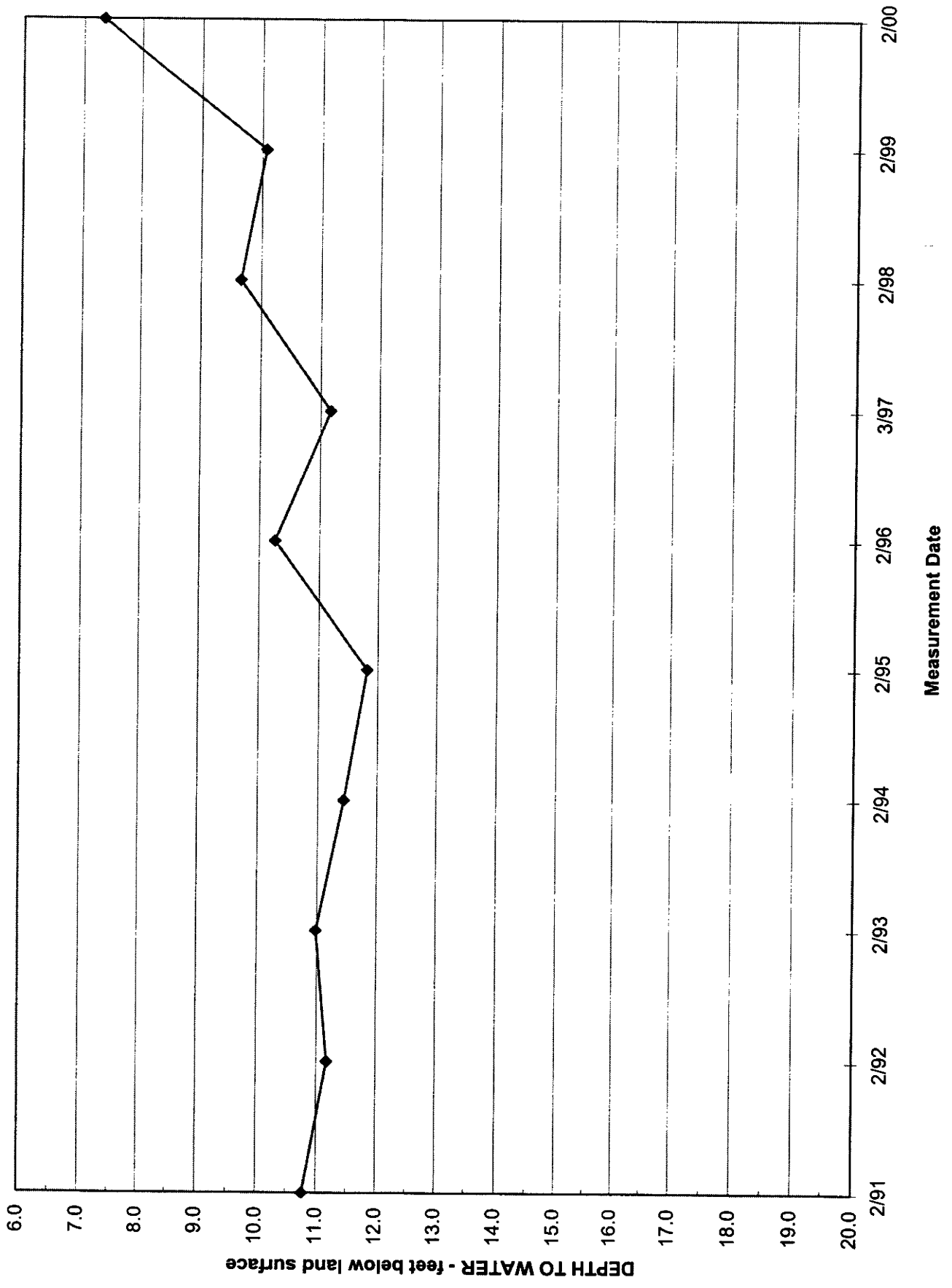
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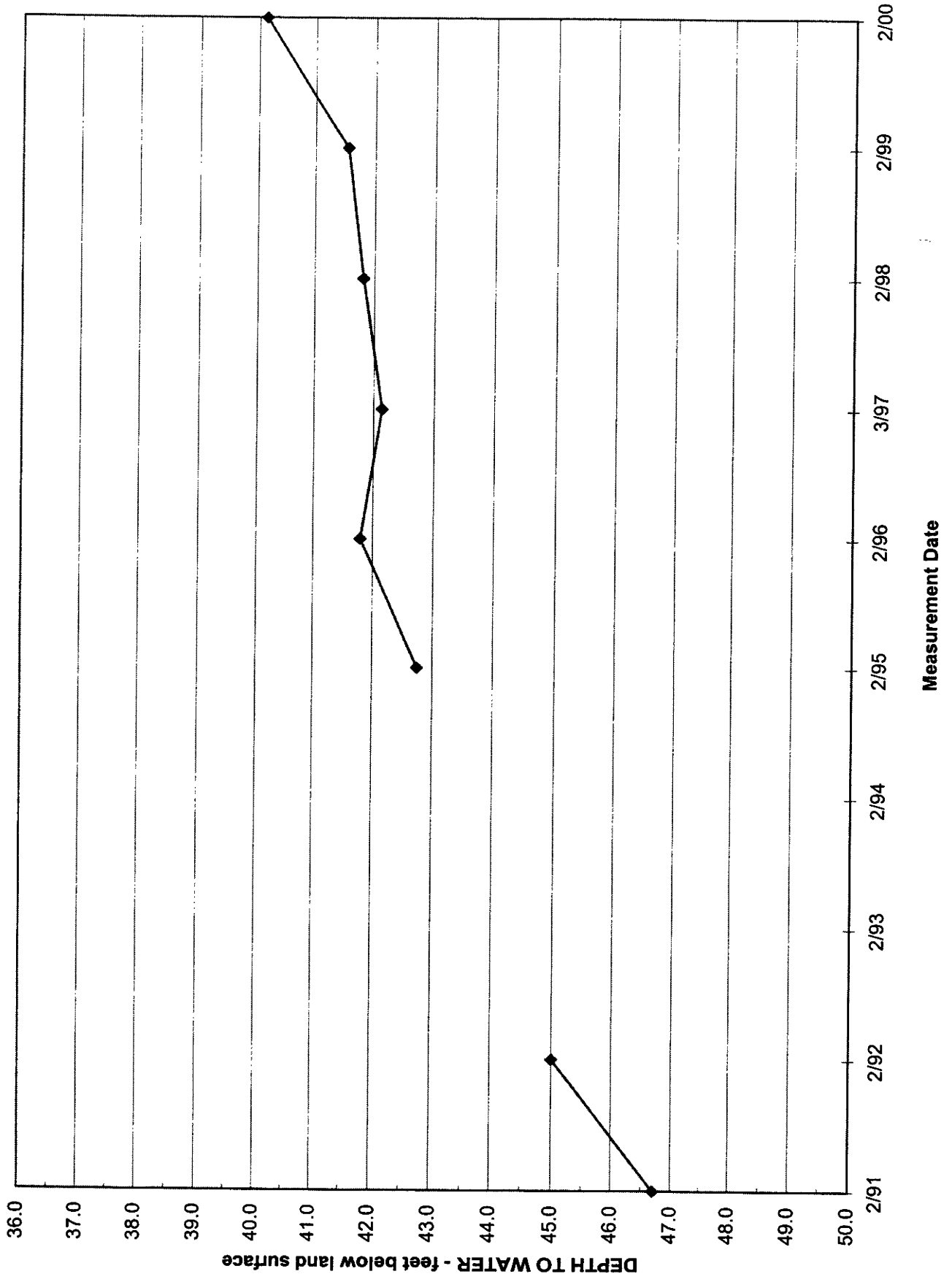


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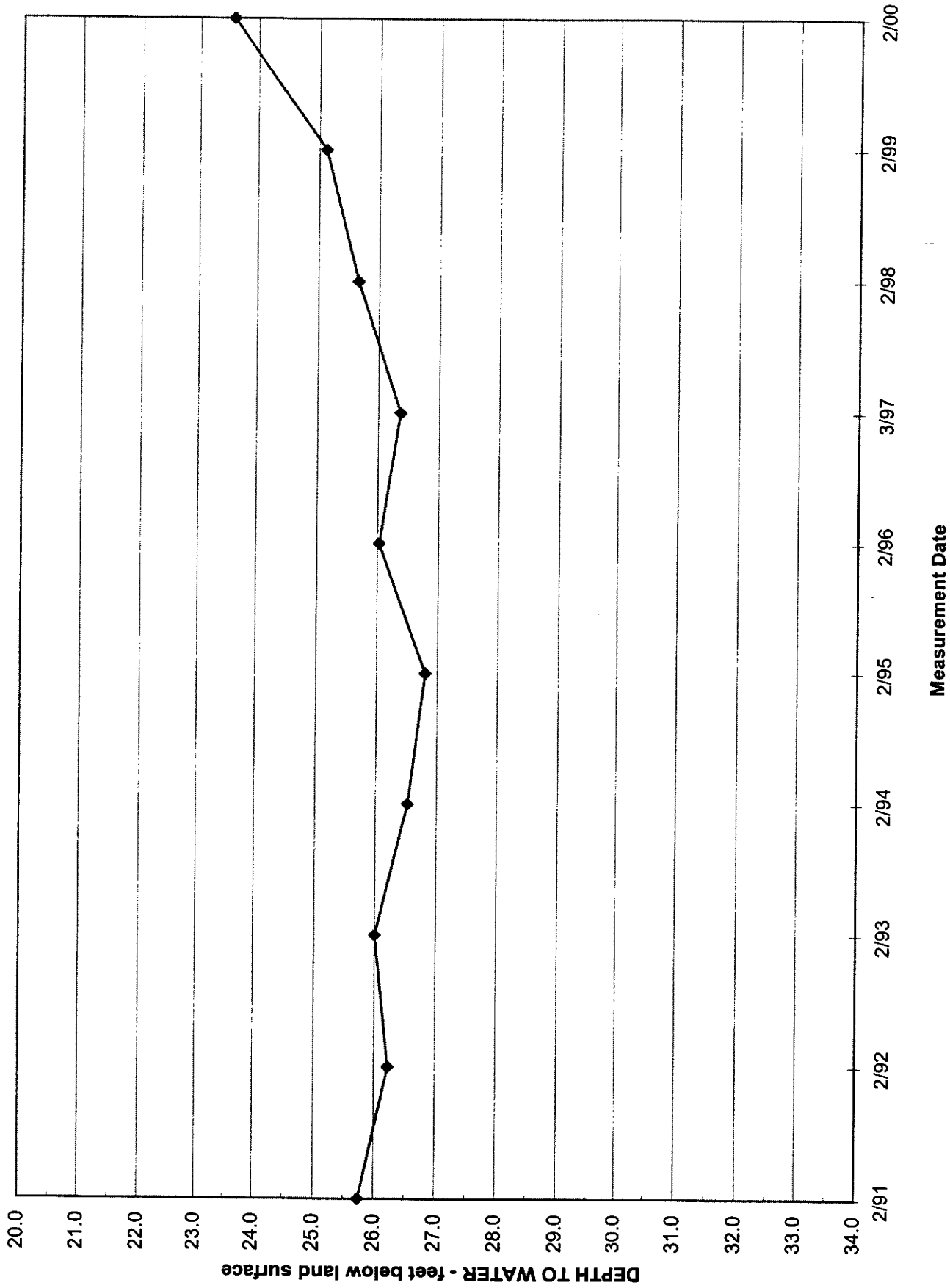


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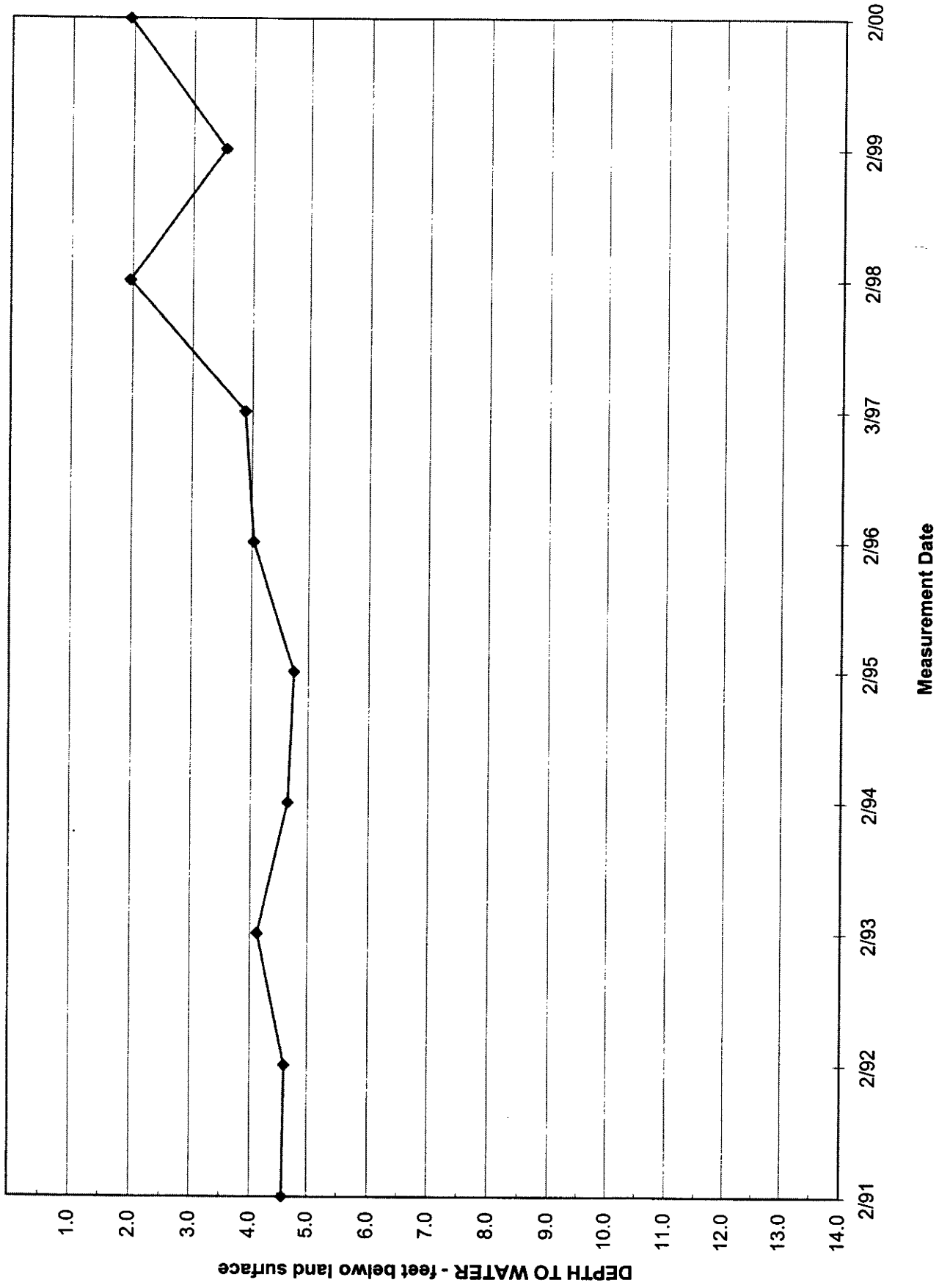


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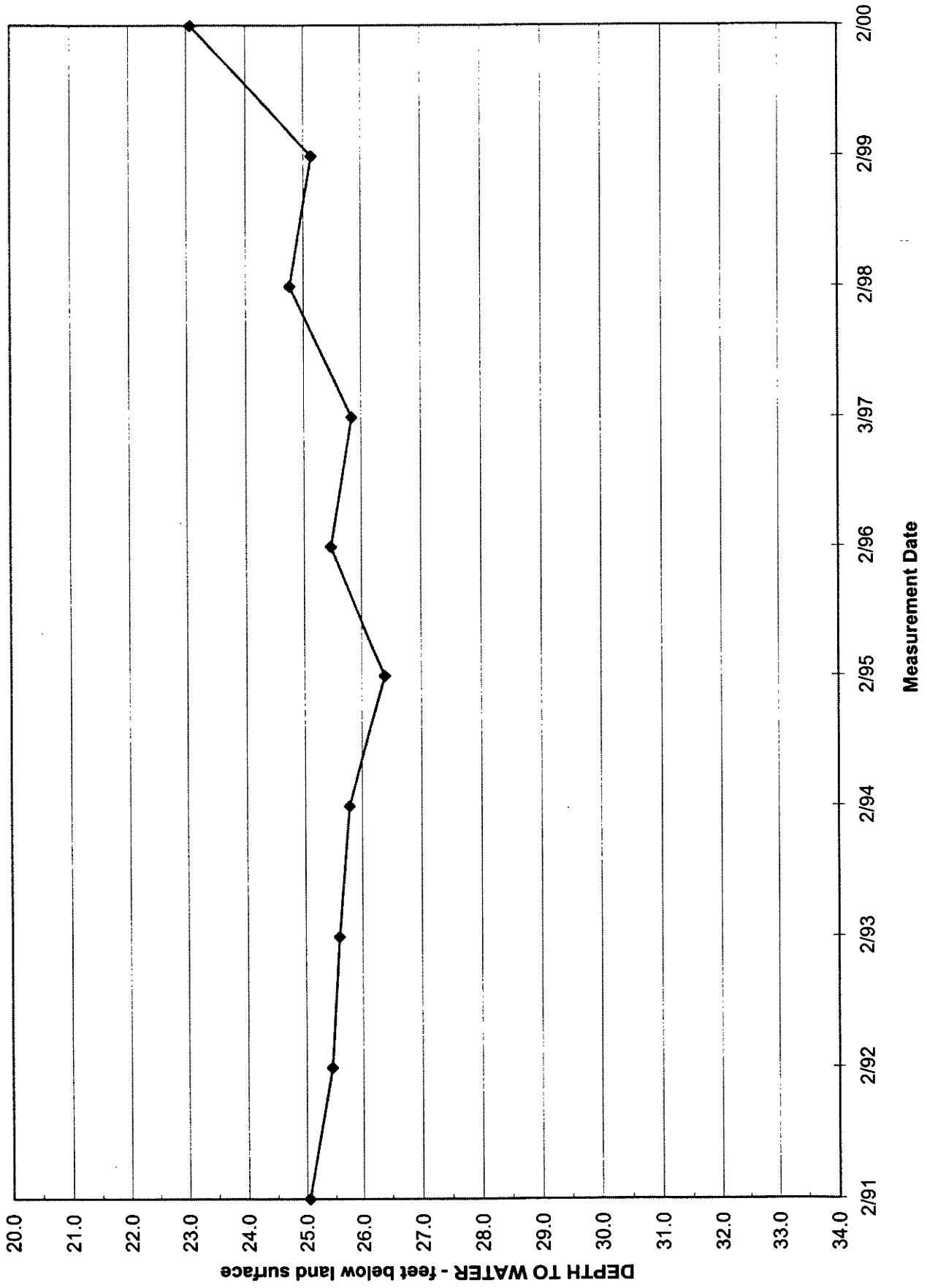
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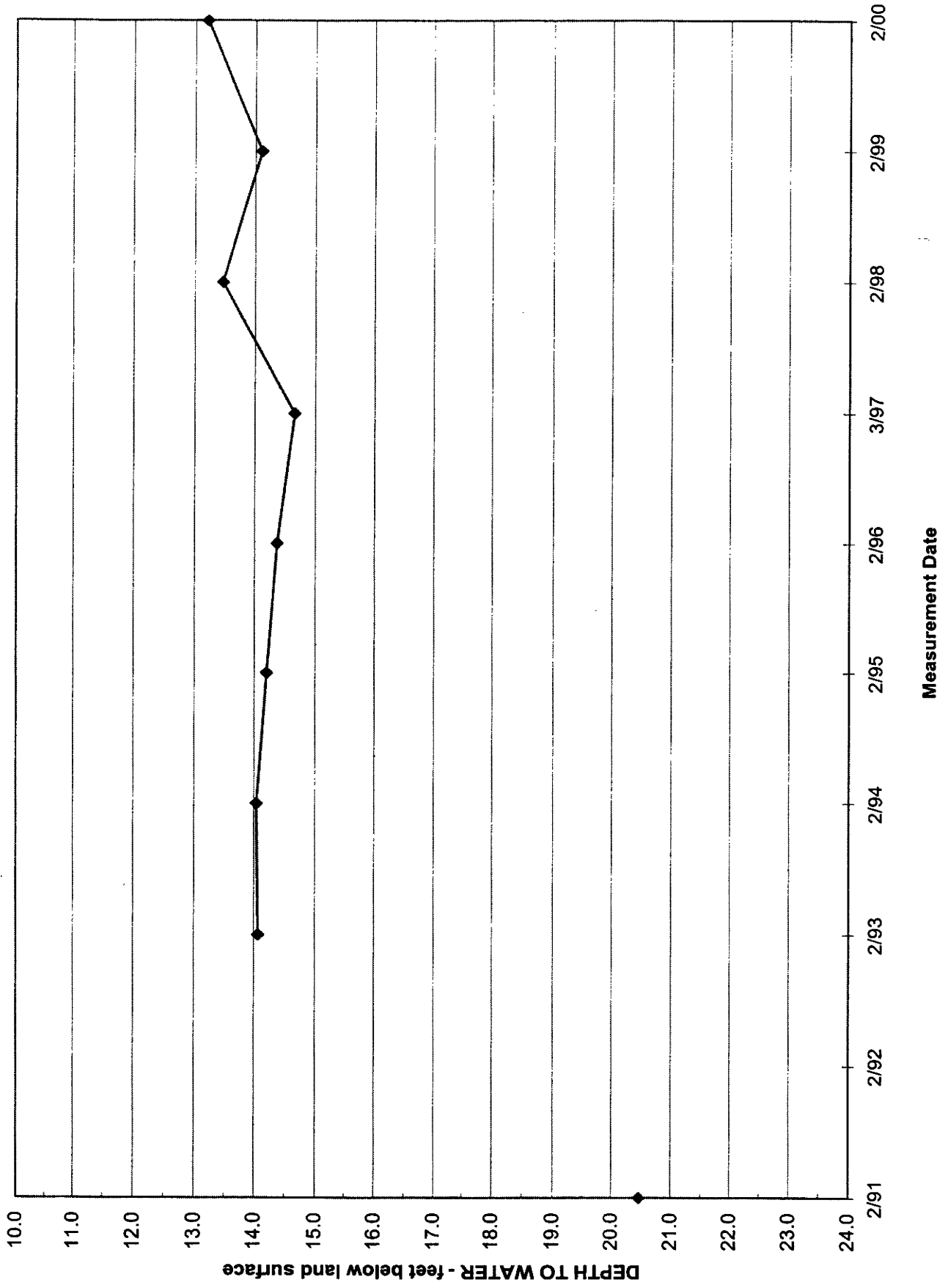


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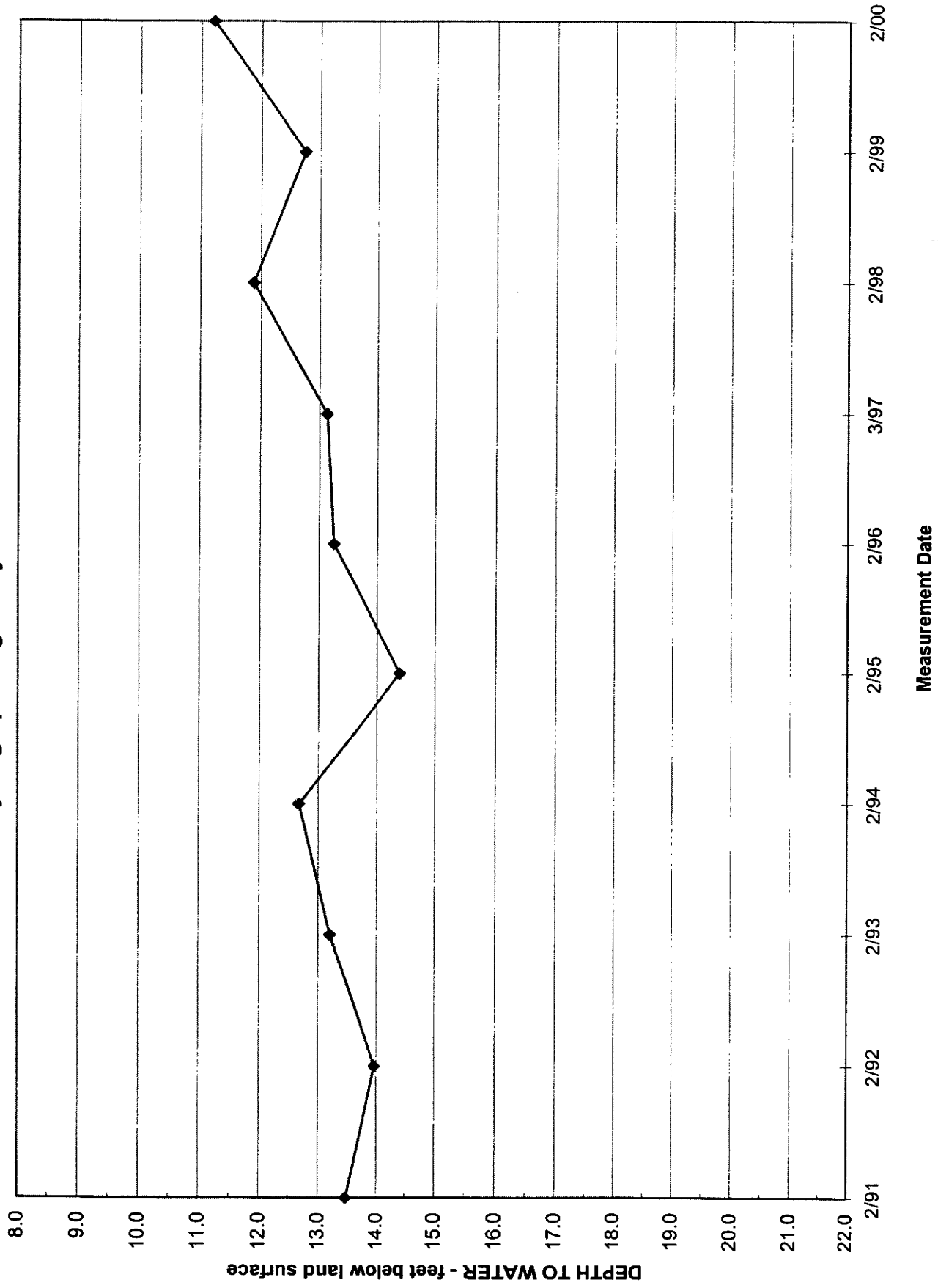


# Hydrograph - Big Sandy No. 26



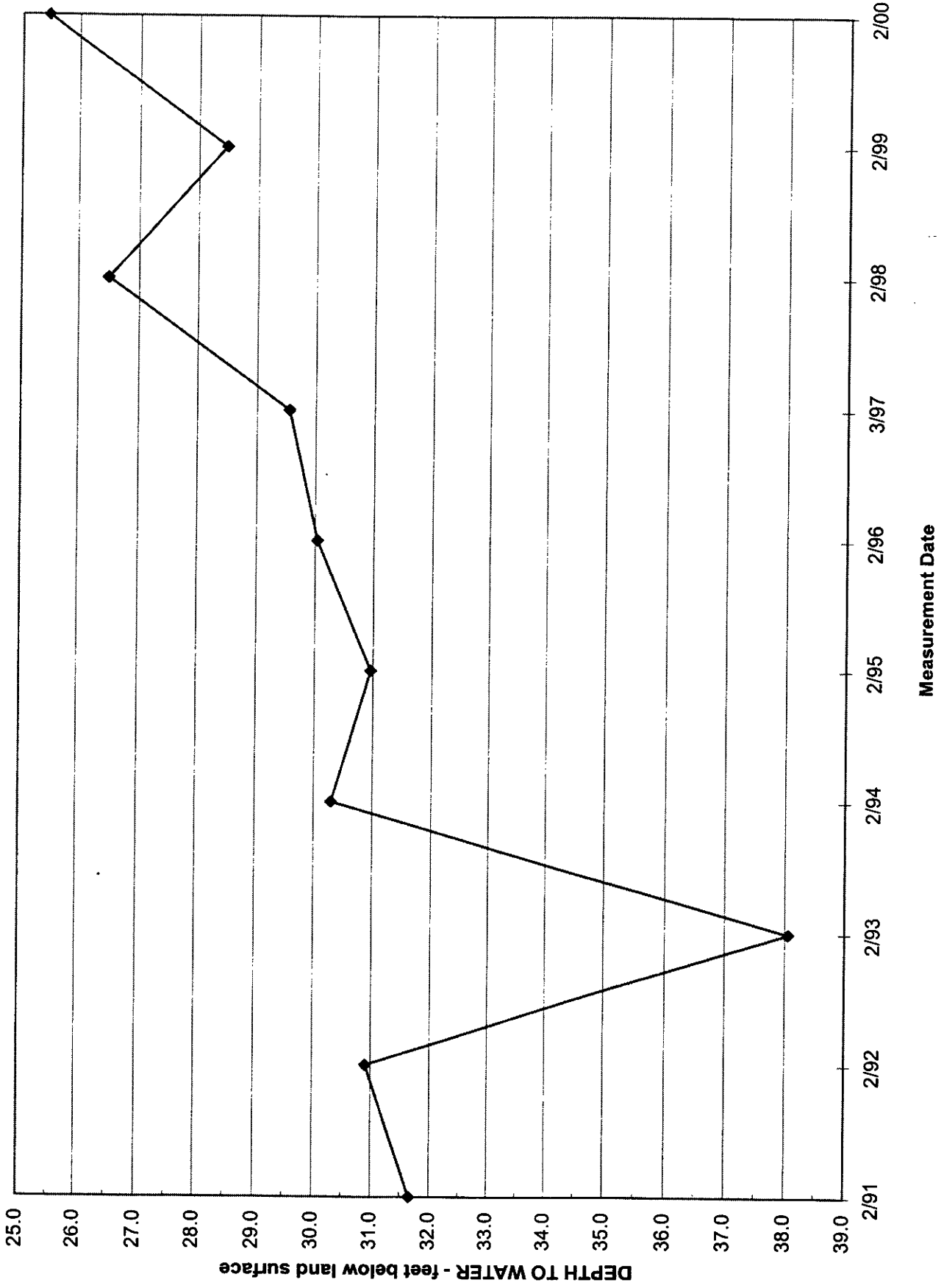


# Hydrograph - Big Sandy No. 16A





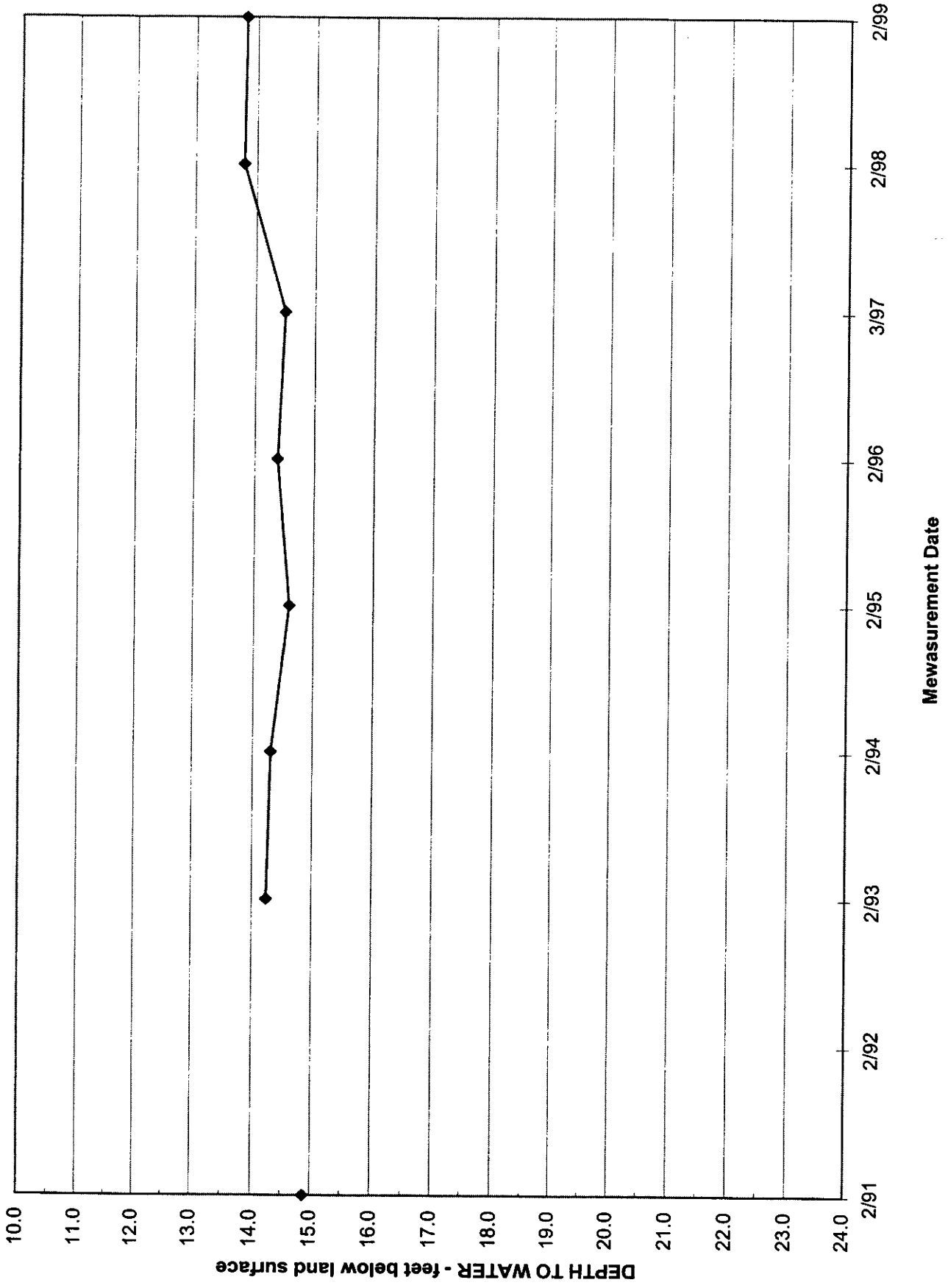
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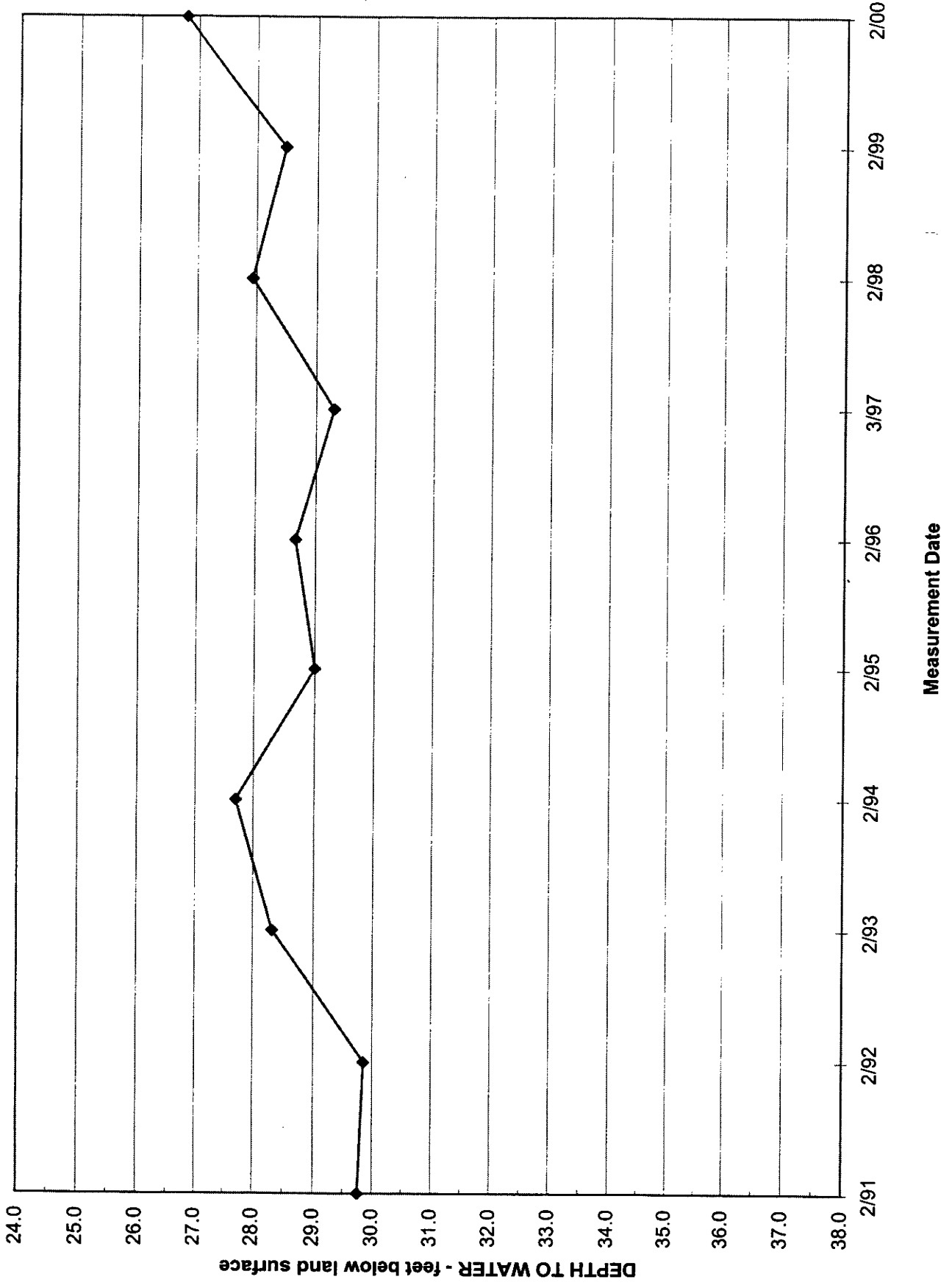


# Hydrograph - Big Sandy No. 21



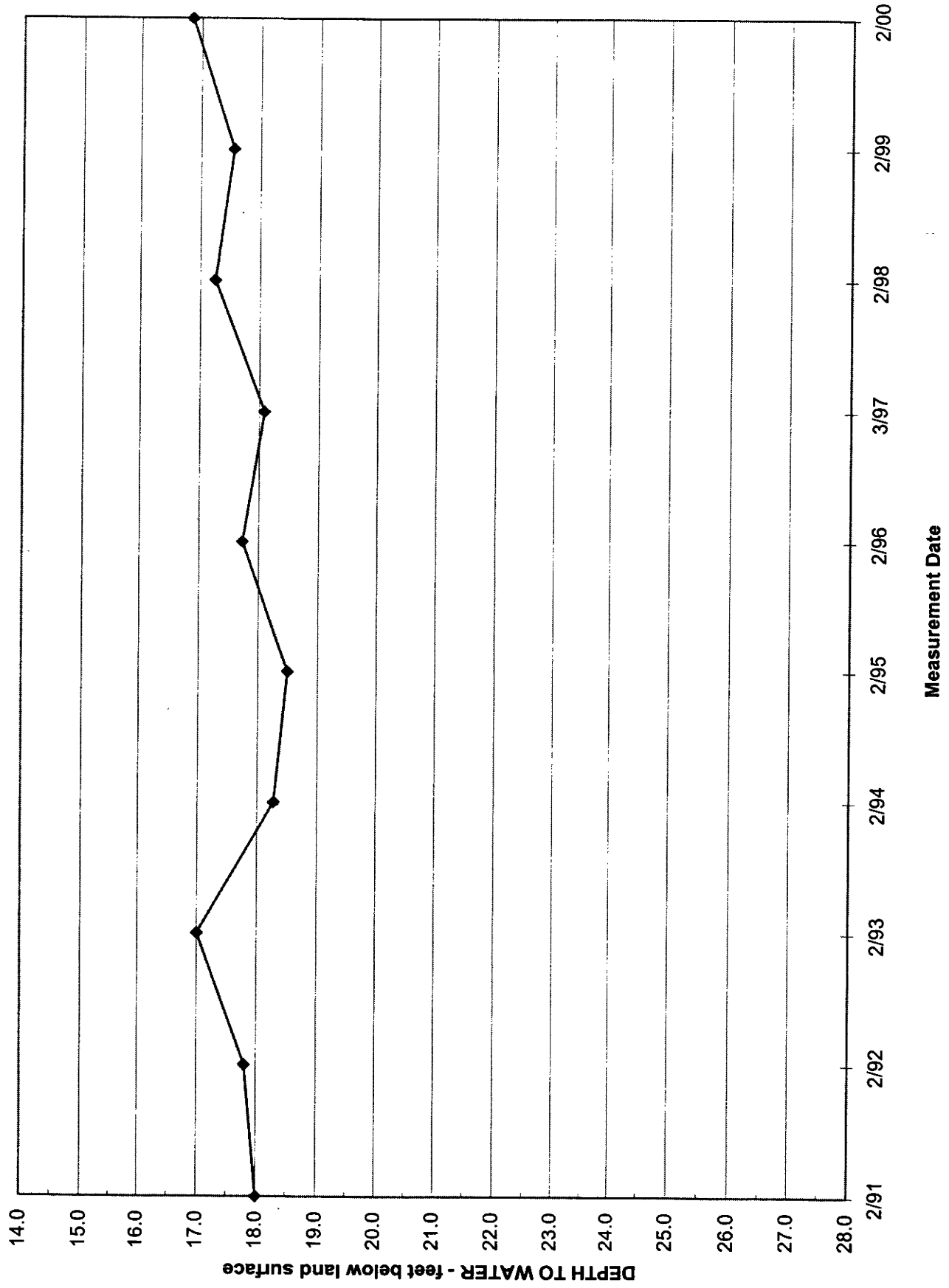


# Hydrograph - Big Sandy No. 22



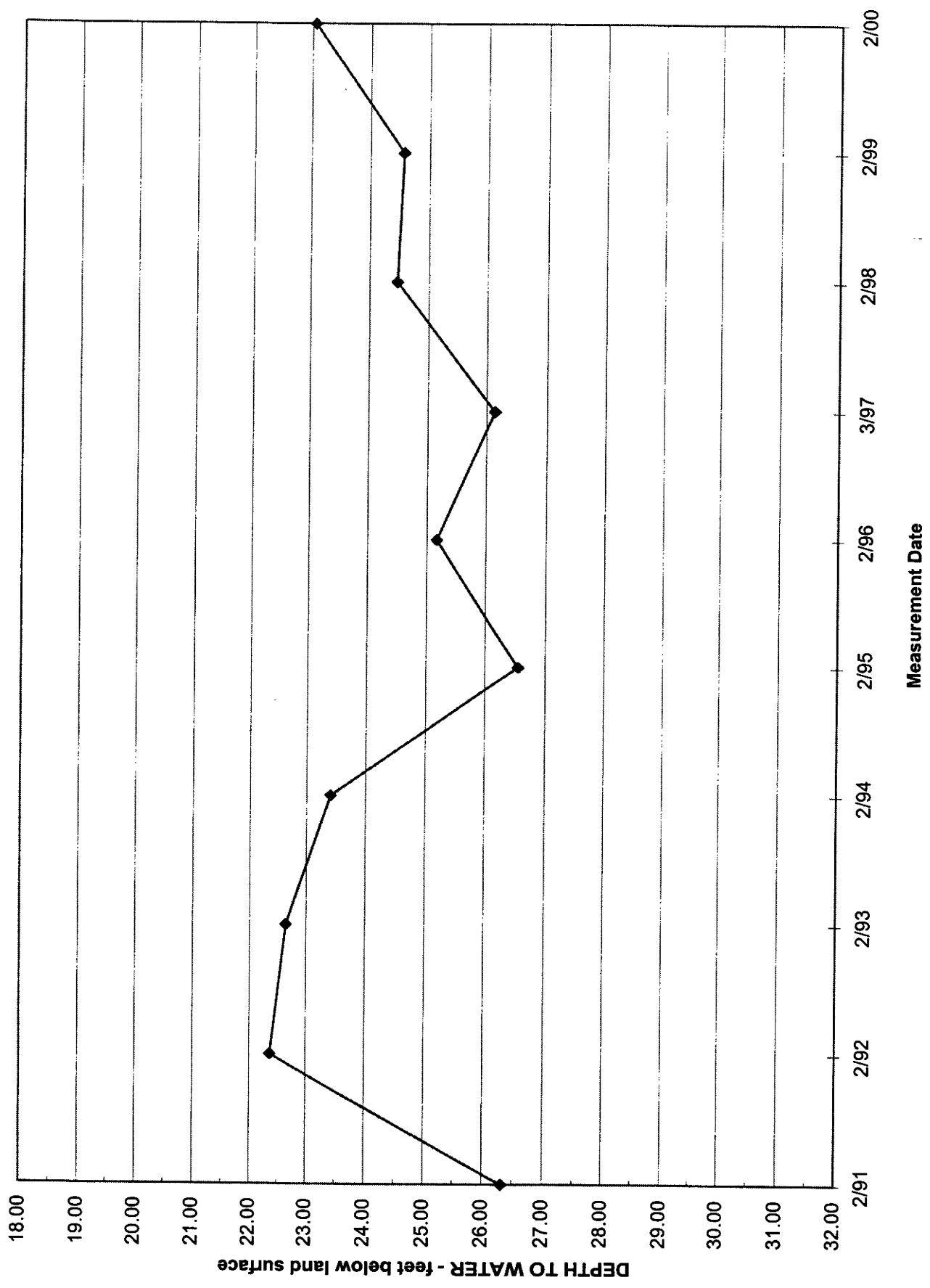


# Hydrograph - Big Sandy No. 29





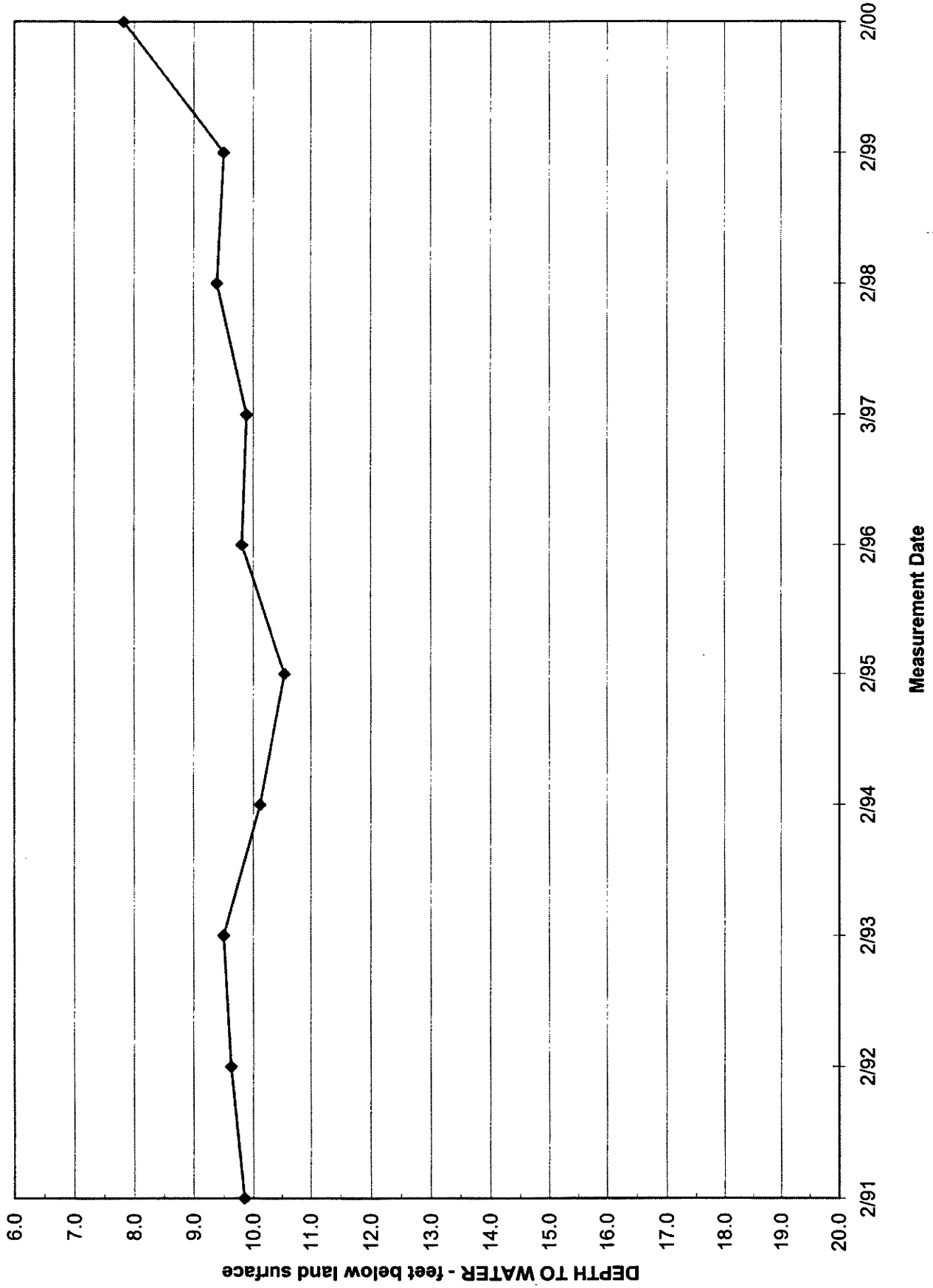
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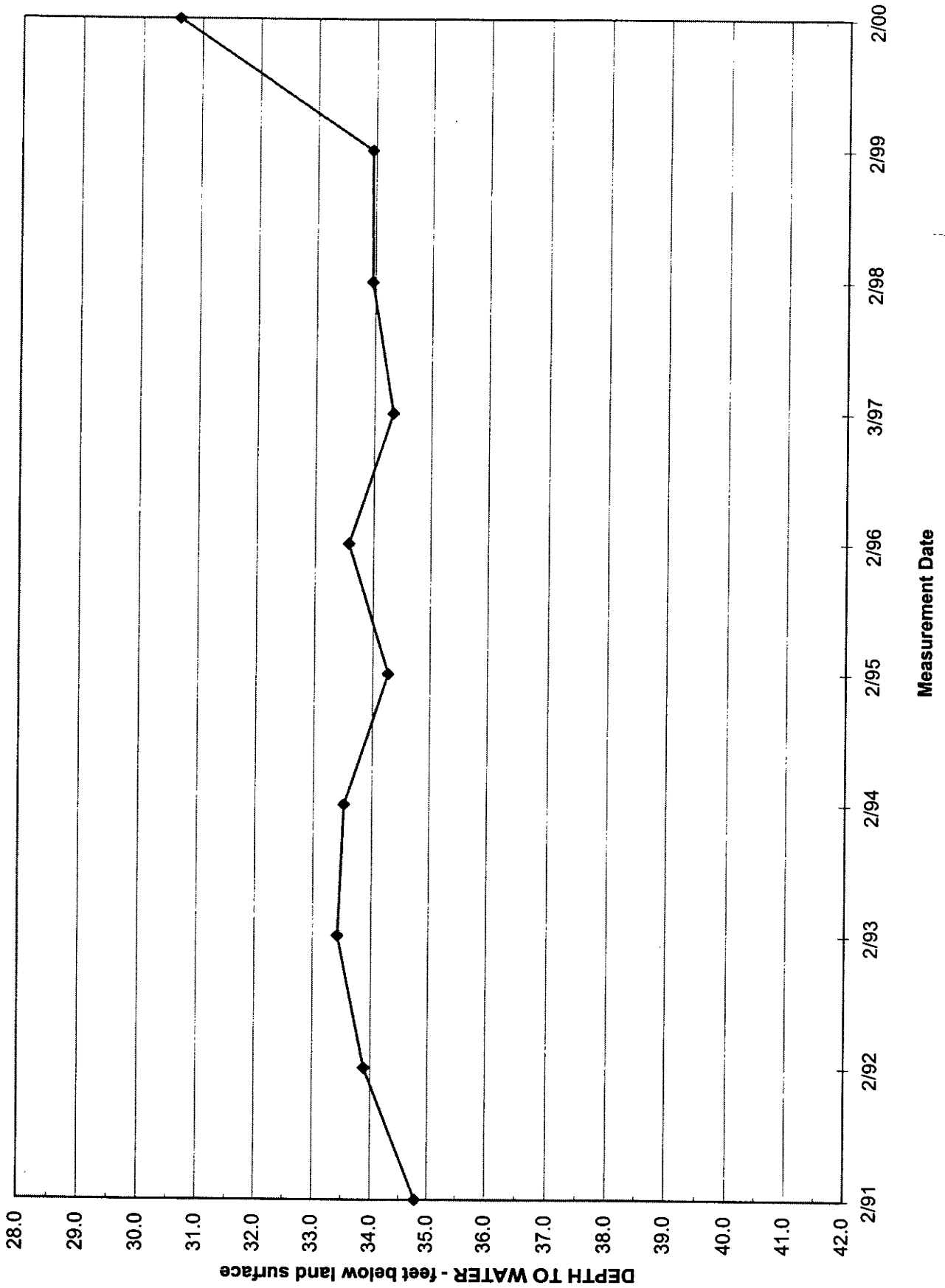


# Hydrograph - Big Sandy No. 18



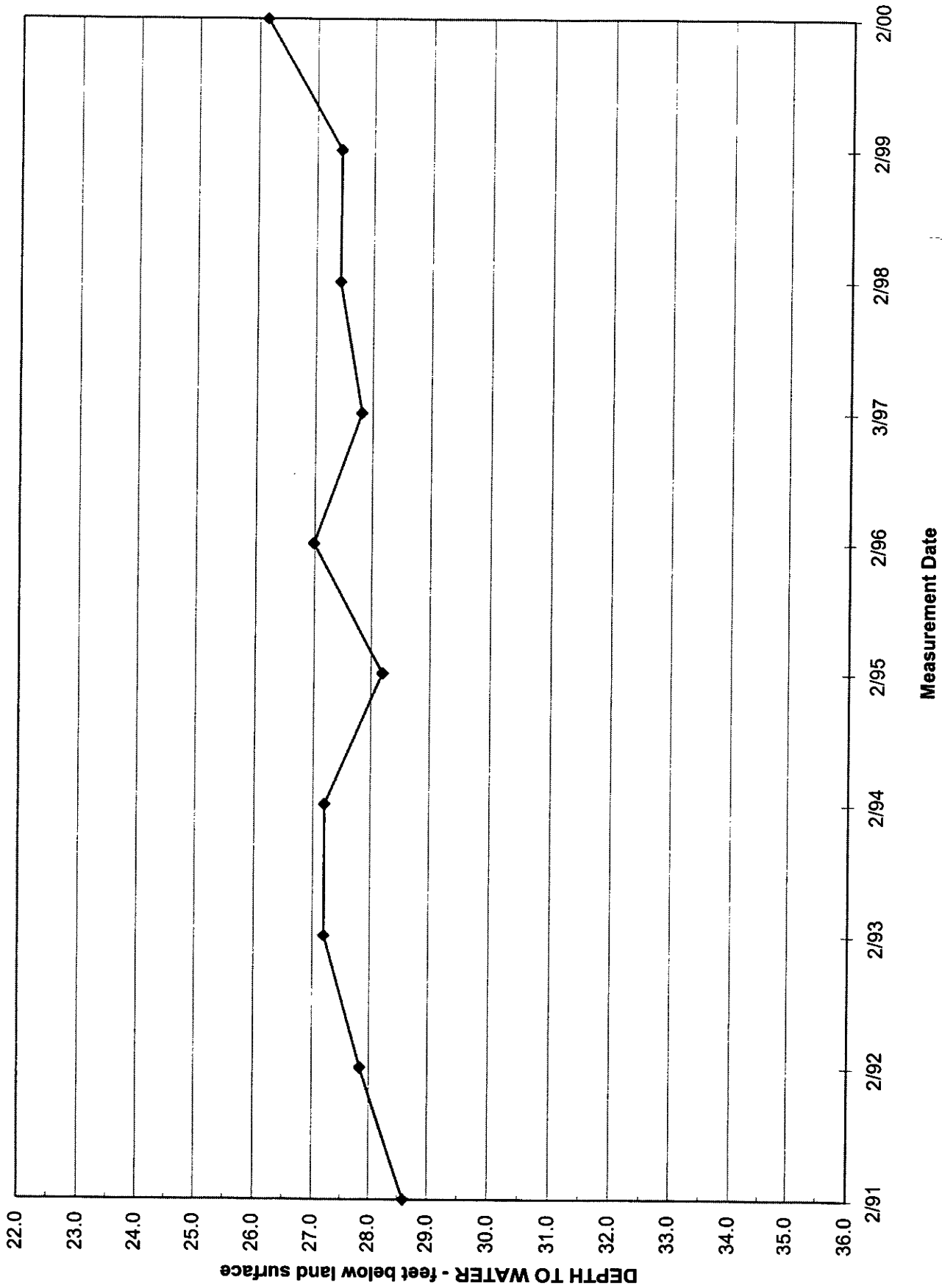


# Hydrograph - Big Sandy No. 17





# Hydrograph - Big Sandy No. 19





# Hydrograph - Big Sandy No. 30A

