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State of Utah

DEPARTMENT OF NATURAL RESOURCES
Division of Water Rights

ROBERT L. MORGAN
Executive Director

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State Engineer/Division Director

TO: Lee Sim

FROM: Gertrudys B. Adkins

DATE: October 12, 2004

SUBJECT: Water Level Report for Milford Valley Wells

Enclosed is a graphical analysis of trends in water levels in selected monitoring wells in the Milford Valley and a map showing the location of the observation wells. The period of study is from 1990 to 2004. Water level readings were gathered from the USGS. Water level readings are conducted in the spring (March) of each year.

The downward trend in water levels seen over the years continued at a rapid pace. This accelerated rate of decline indicates that groundwater pumping is exceeding natural recharge of the aquifer. This overdraft is resulting in an average drop in water levels of about 2 feet per year. All of the observation wells in this study for the year 2004 indicate a decrease in water levels from those of year 2003.

The area that registered the largest decrease (on a percentage basis) was the North end of the valley. The greatest single decrease in water level (4.56 ft) occurred at well number (C-20-10)28cdd-1, which is located at approximately 3 miles North of Milford. Overall, the 2004 water levels decreased an average of 2.83 feet from the year 2003 levels.

cc: Committee Members
Water Commissioner
Kerry Carpenter

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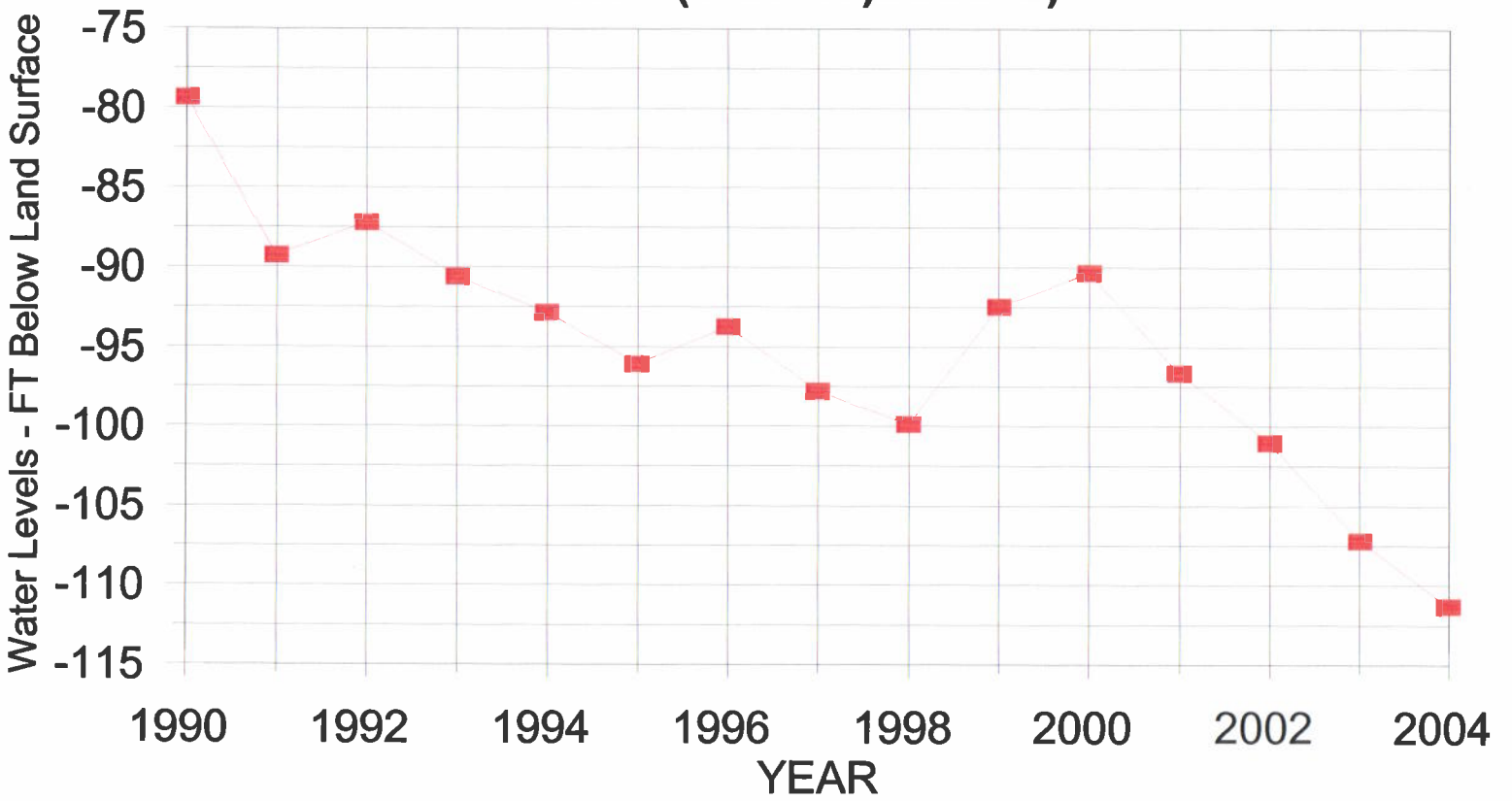
MILFORD GROUNDWATER LEVELS ANALYSIS

Wells	Water Level decline (%) 2001-2002	Water Level decline (%) 2002-2003	Water Level decline (%) 2003-2004
(C-29-10) 8ddd-2	4.51	6.13	3.83
(C-29-10) 35ccd-1	3.05	3.65	no data
(C-28-10)19add-3	6.70	8.89	5.23
(C-20-10)28cdd-1	12.53	11.54	6.92
(C-28-10)30cdc-2	6.53	7.00	2.47
(C-28-11)25dcd-1	5.11	6.55	4.35
(C-29-11)1add-2)	5.32	7.00	3.19
(C-29-11)13add-1)	3.12	3.36	2.27

MILFORD VALLEY GROUNDWATER LEVELS

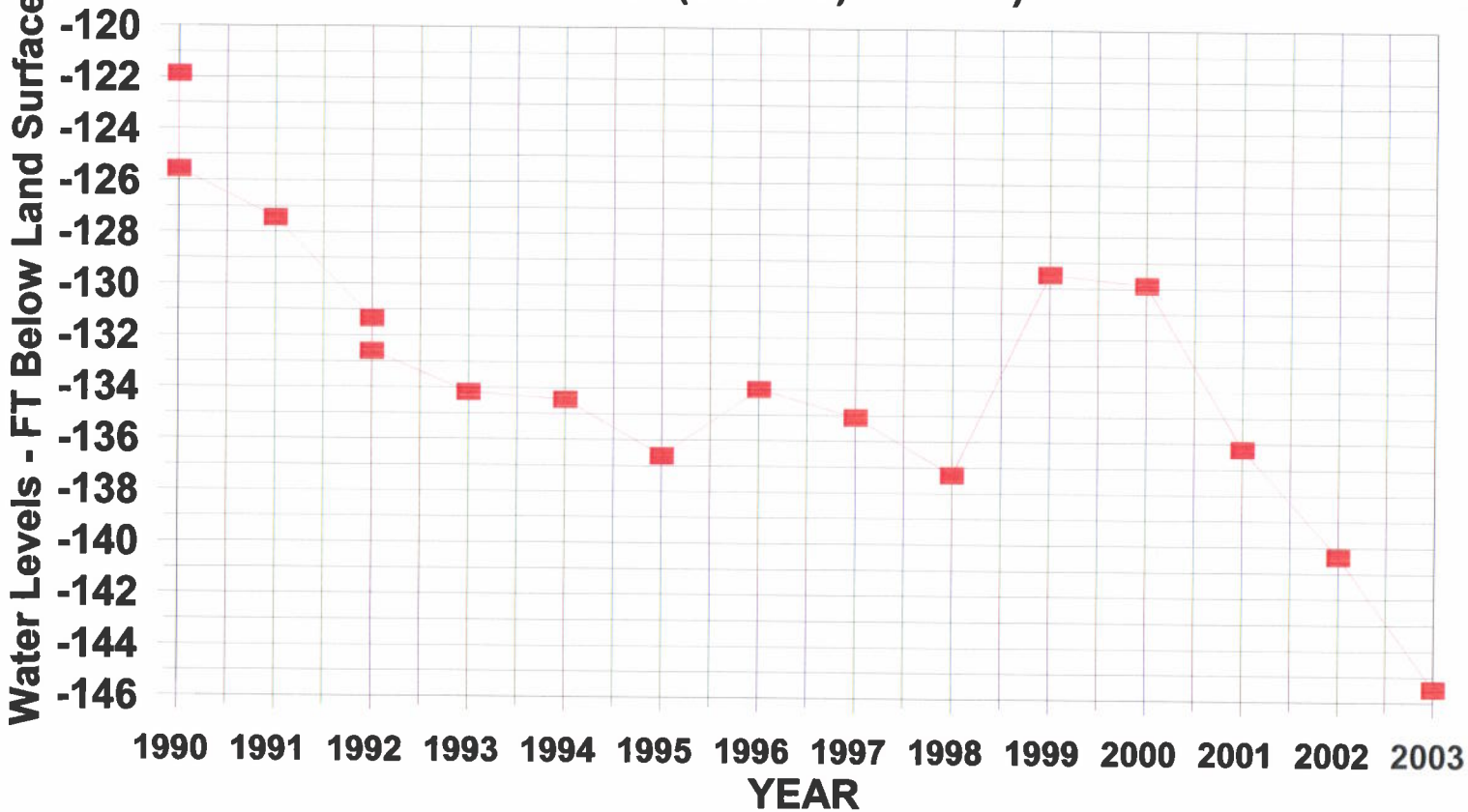
Well (C-29-10)8ddd- 2)



Water Level Decline (1990 - 2004) : 31.94 ft or 2.28 ft per year
WL% change from 2003 : Down 3.83% or 4.1 ft

MILFORD VALLEY GROUNDWATER LEVELS

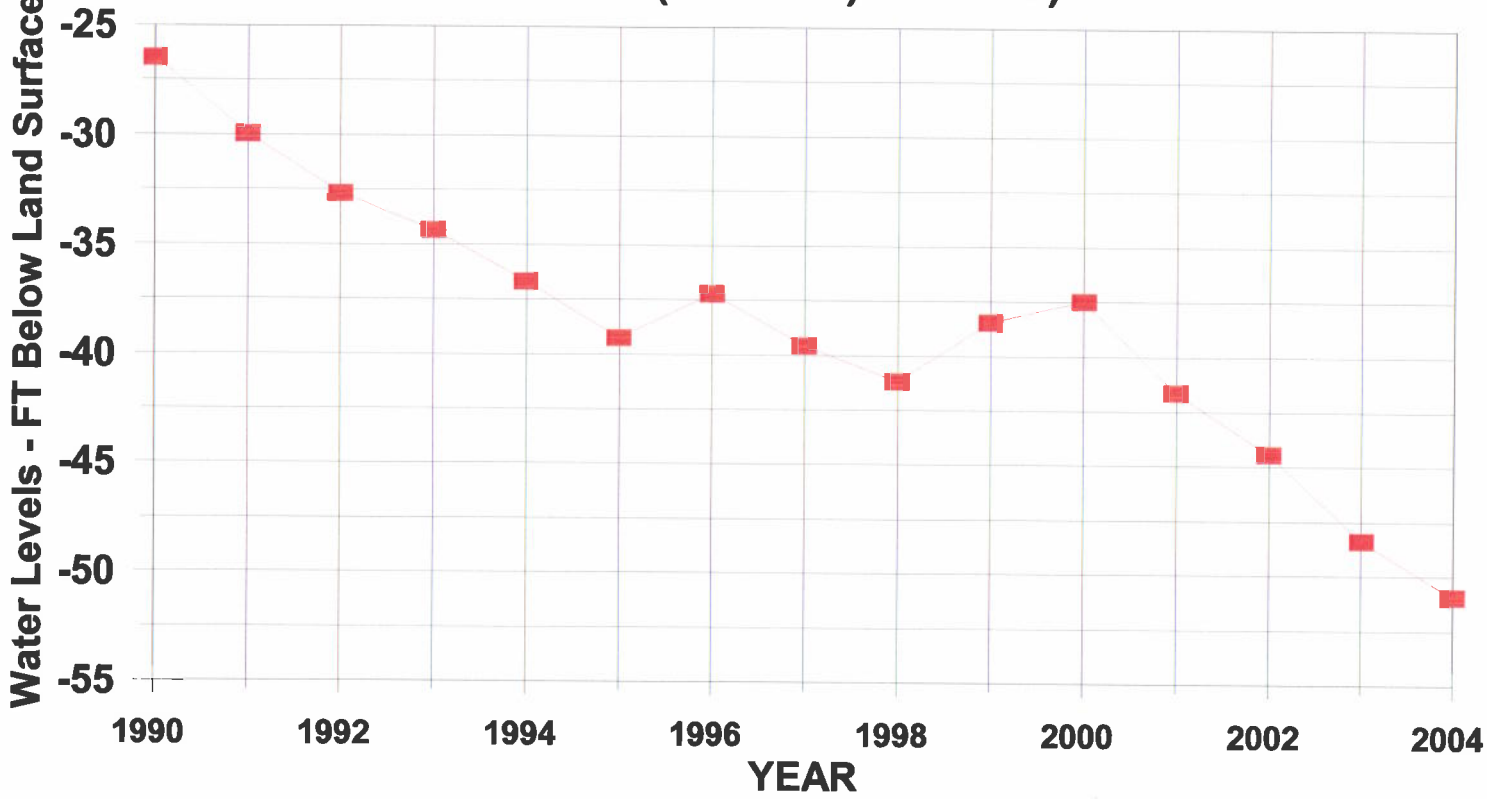
Well (C-29-10)35ccd- 1)



Water Level Decline (1990 -2003) : 23 ft or 1.57 ft per year
WL% change from 2002 : Down 3.65% or 5.12 ft
No data available for 2004

MILFORD VALLEY GROUNDWATER LEVELS

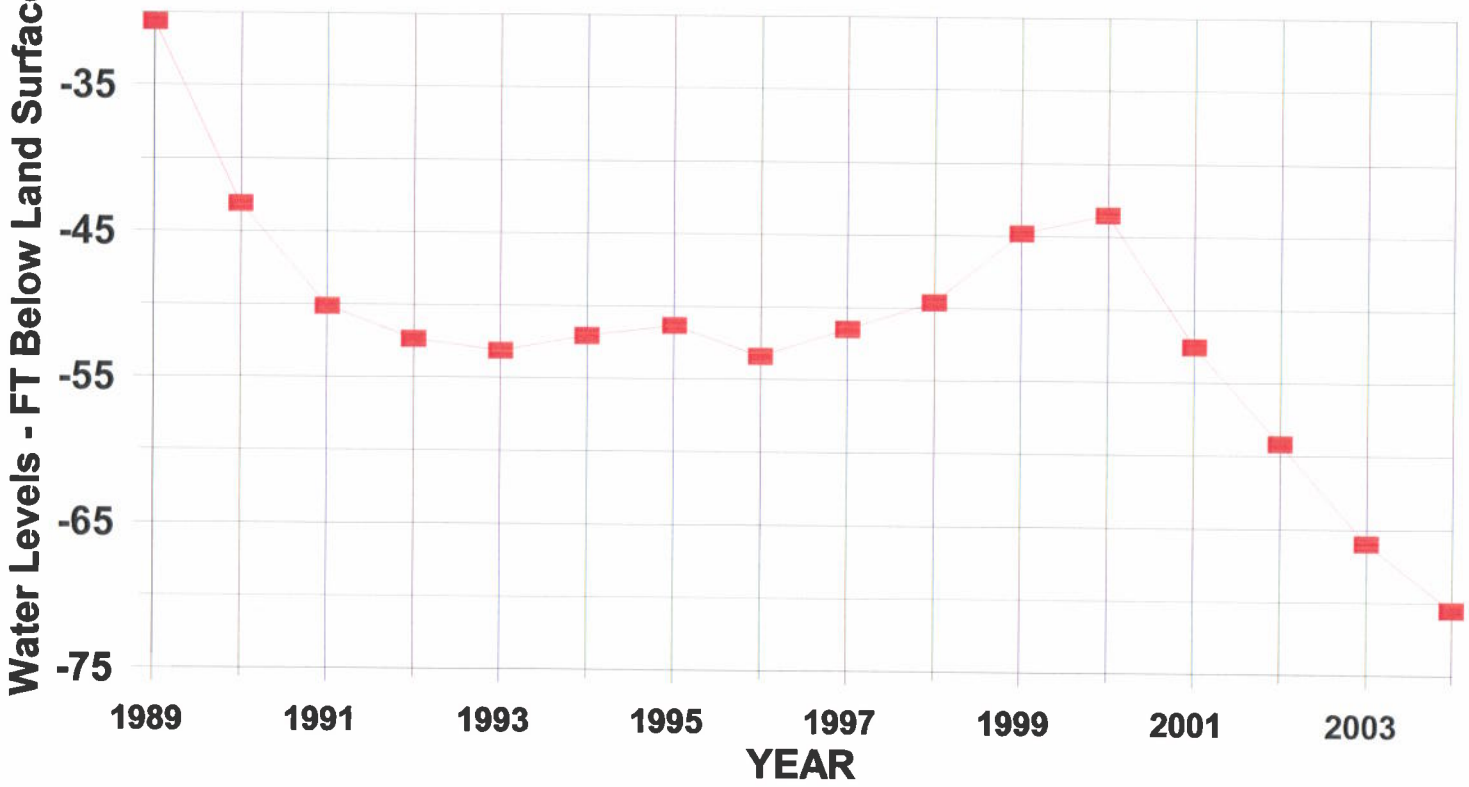
Well (C-28-10)19add-3)



Water Level Decline (1990 - 2004) : 24.441 ft or 1.75 ft per year
WL% change from 2003 : Down 5.23% or 2.53 ft

MILFORD VALLEY GROUNDWATER LEVELS

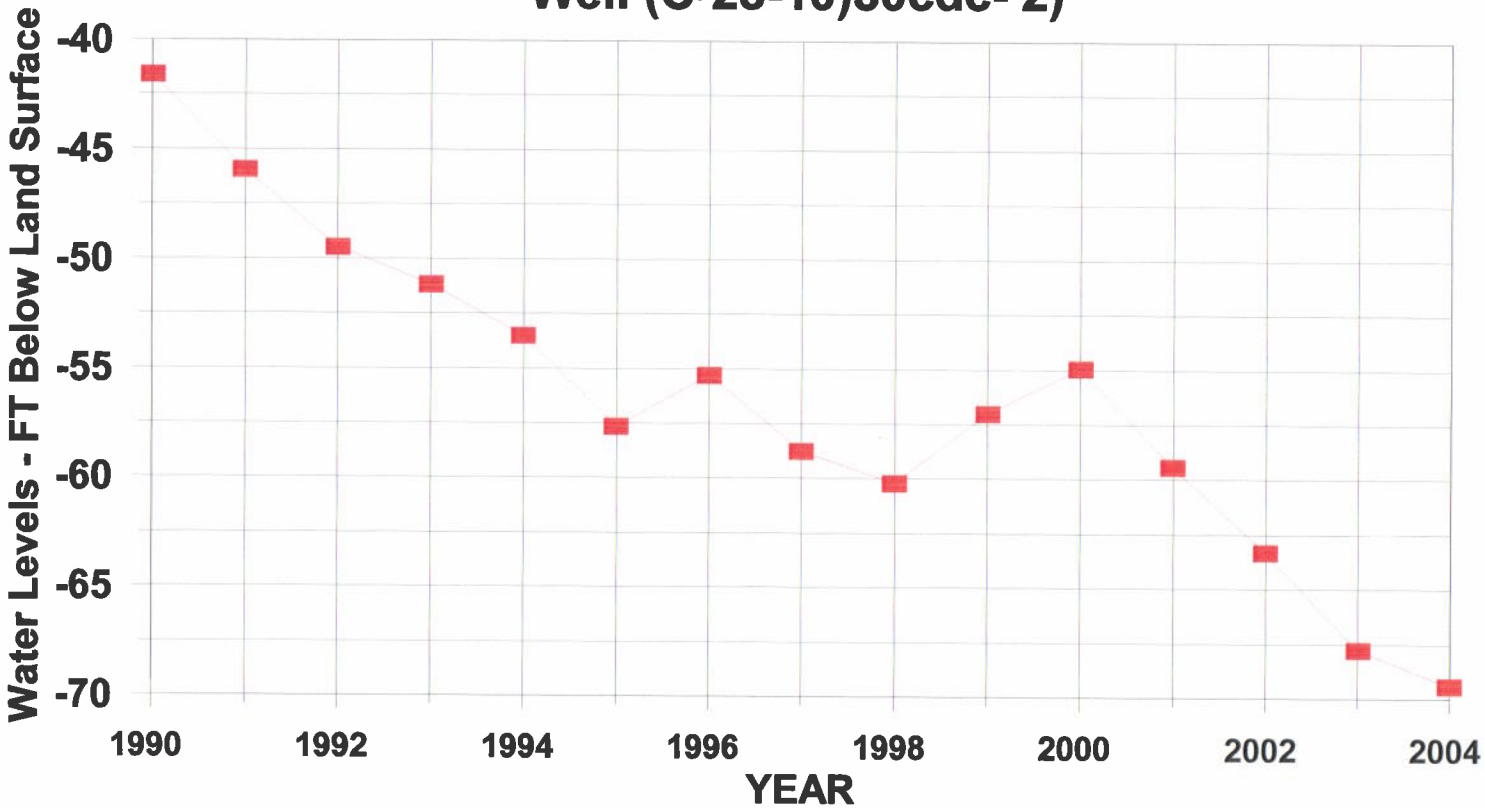
Well (C-28-10)28cdd- 1)



Water Level Decline (1989 - 2004) : 39.90 ft or 2.66 ft per year
WL% change from 2003 : Down 6.92 % or 4.56 ft

MILFORD VALLEY GROUNDWATER LEVELS

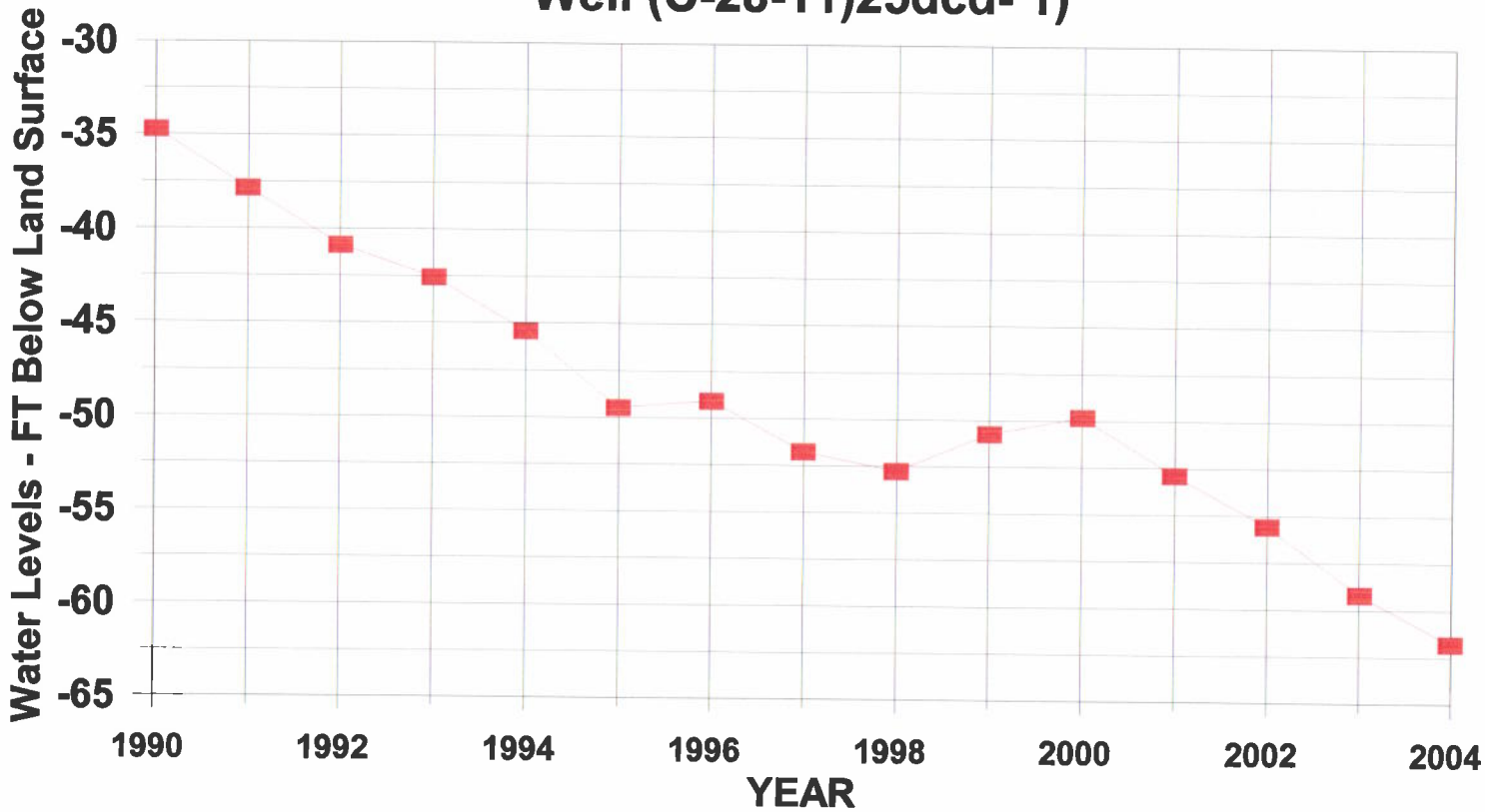
Well (C-28-10)30cdc- 2)



Water Level Decline (1990 - 2004) : 27.85 ft or 1.99 ft per year
WL% change from 2003 : Down 2.47% or 1.67 ft

MILFORD VALLEY GROUNDWATER LEVELS

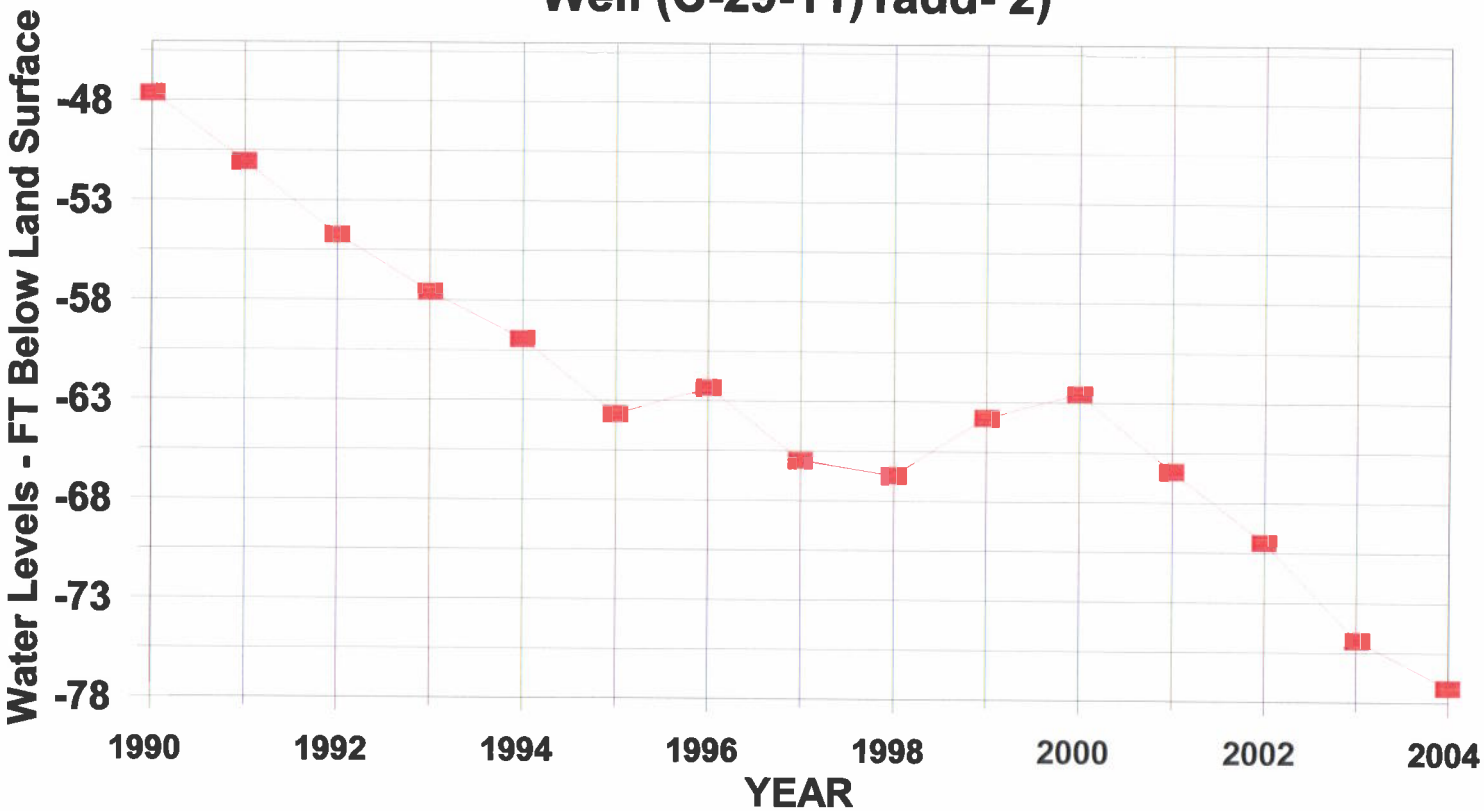
Well (C-28-11)25dcd- 1)



Water Level Decline (1990 - 2004) : 27.07 ft or 1.93 ft per year
WL% change from 2003 : Down 4.36% or 2.58 ft

MILFORD VALLEY GROUNDWATER LEVELS

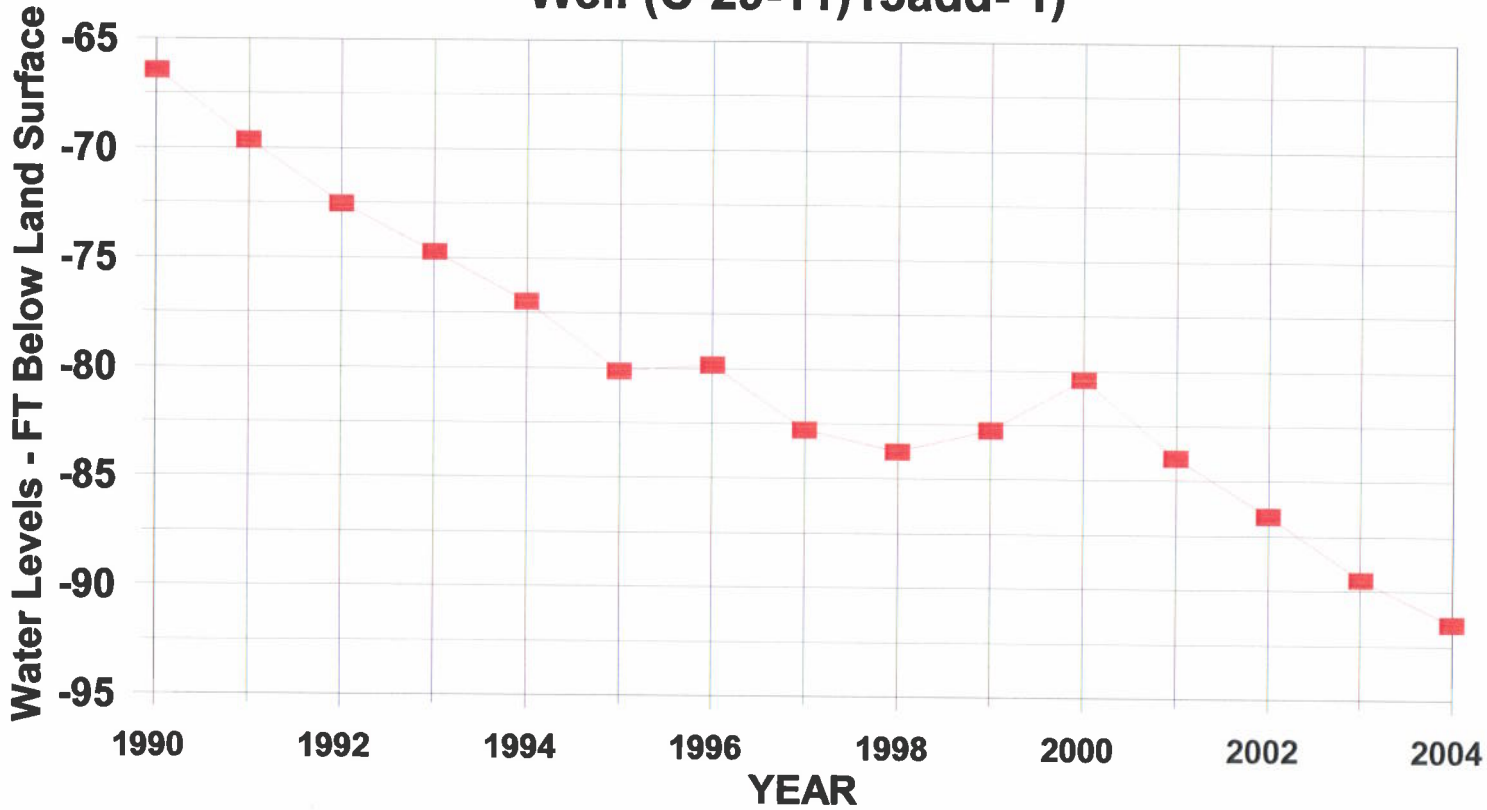
Well (C-29-11)1add- 2)



Water Level Decline (1990 - 2004) : 29.67 ft or 2.11 ft per year
WL% change from 2003 : Down 3.19% or 2.39ft

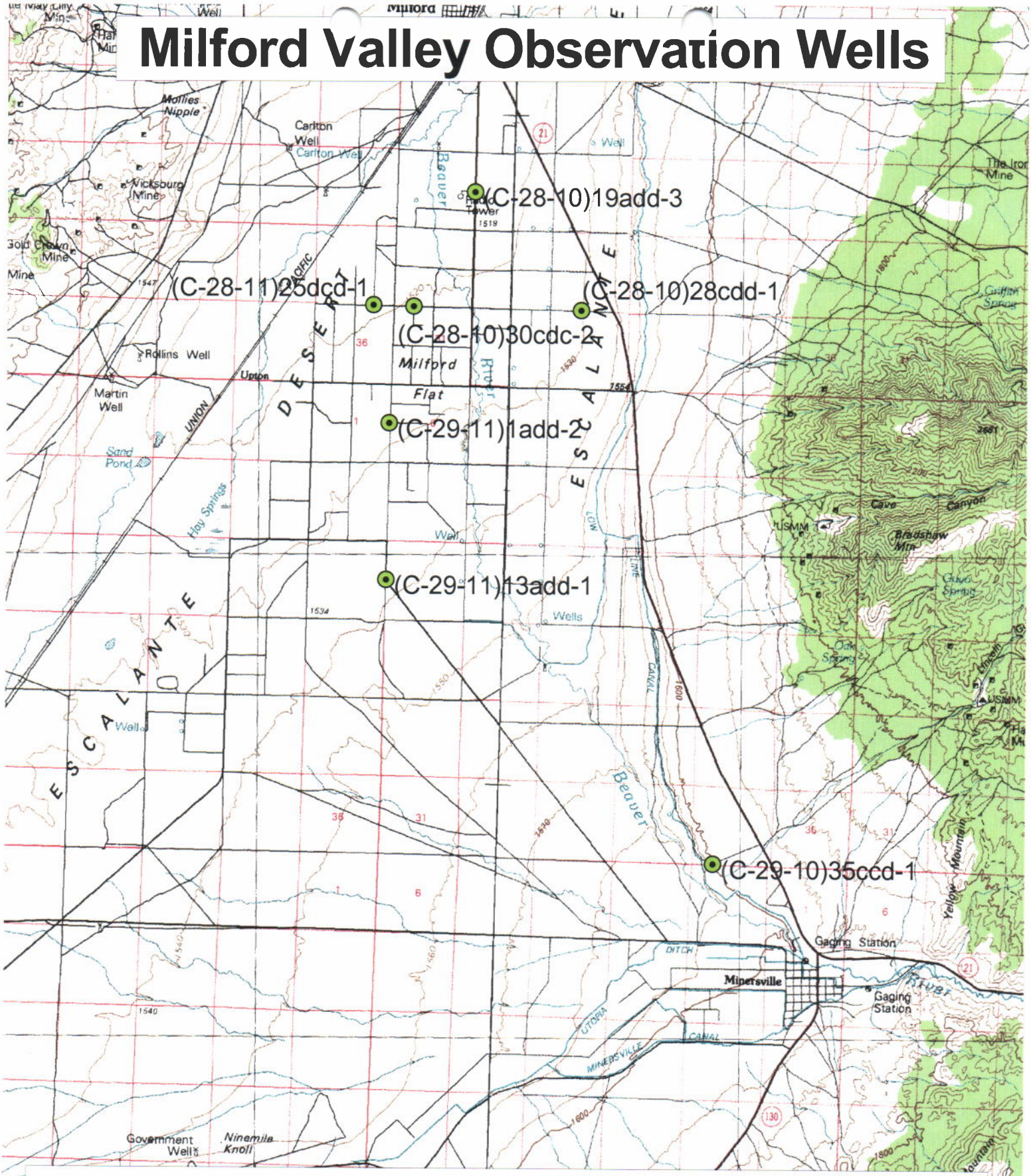
MILFORD VALLEY GROUNDWATER LEVELS

Well (C-29-11)13add- 1)



Water Level Decline (1990 - 2004) : 25.08 ft or 1.79 ft per year
WL% change from 2003 : Down 2.27% or 2.03 ft

Milford Valley Observation Wells



Milford Valley Observation Wells

0.5 0 0.5 1 1.5 2 Miles

N
W E
S

Basemap - USGS 1:24,000 DRG
Observation Wells - Projected from Lat/Lon file
g:\gert\gpsdata\Milford\Milford&beryl.apr