

Watermaster's Report Ground Water District 63-S (Stewart Gulch) February 22, 2006 to March 1, 2007

Summary of Watermaster Activities

The total geothermal withdrawal from WD63S wells for WY06 was 177.5 mgal (Figure 1), which was 19.4 million gallons less than in WY05...a change of about 10 percent (Table 1). The decrease in withdrawal was mainly the result of: 1) the Flora Silkey well being shut-in during construction at the Flora site, and 2) reduction in usage of the Quail Hollow Upper well (it was used more in 2005 when their cold water well was being serviced).

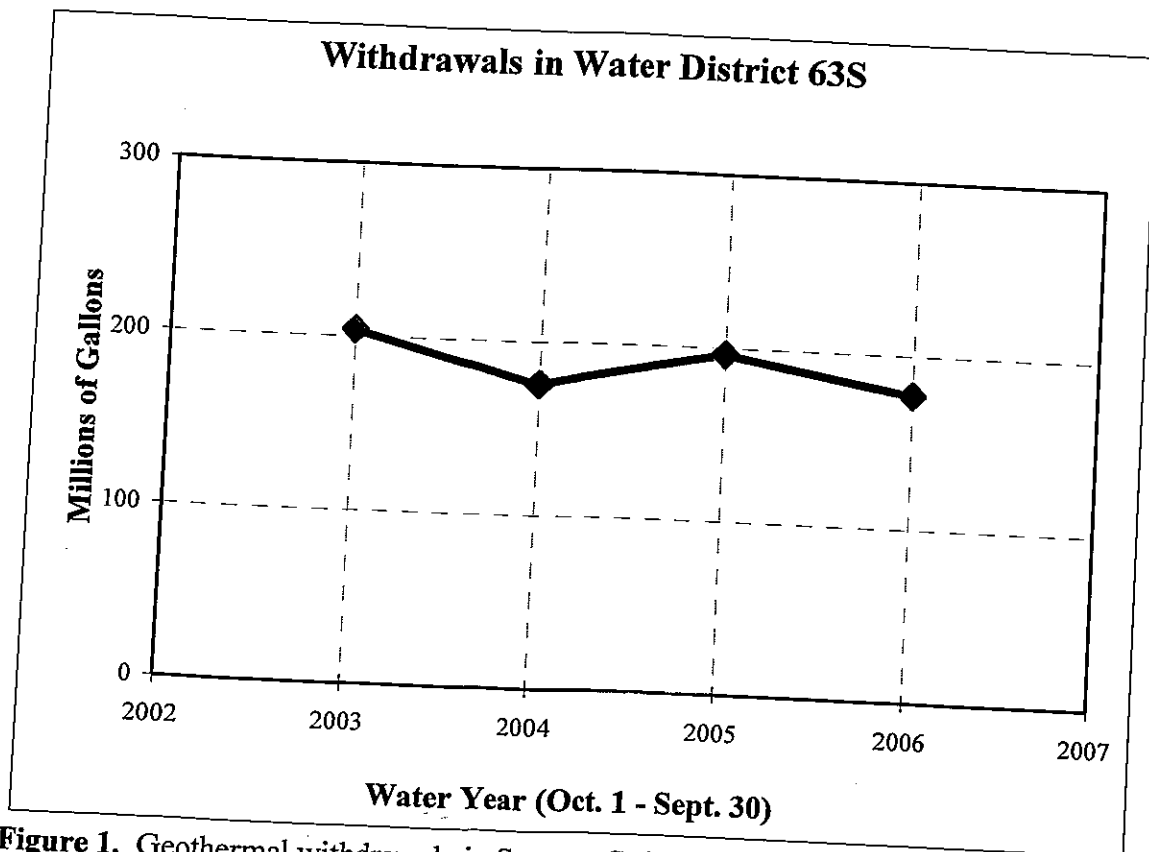


Figure 1. Geothermal withdrawals in Stewart Gulch Water District 63S for Water Years 2003-2005.

Table 1. Withdrawals from Stewart Gulch Water District 63S geothermal wells for Water Year 2006 (October 1, 2005 through September 30, 2006).

Well	Withdrawals in WY06 (gallons)	Change from WY05 (gallons)
Flora Company Tiegs (Triangle)	0	0
Flora Company Silkey (Shed)	11,286,667	-22,483,381
Flora Company House (Office)	2,760,933	-2,967,534
Edwards Greenhouse	43,927,688	+8,108,308
Terteling Ranch Windsock	88,822,555	+3,459,503
Terteling Ranch Pool	18,914,525	+1,658,305
Quail Hollow Golf Course Upper	6,917,200	-6,369,200
Quail Hollow Golf Course Lower	819,300	-159,400
Whitehead	4,052,645	-604,551
Total	177,501,513	-19,357,950

Water Levels

All of the wells in WD63S, with the exceptions of the Flora House and Silkey wells which did not have water level data for about six months due to a construction project, showed increases in the maximum water levels. Most of the wells showed decrease in the minimum values. This pattern was due to the responses of the water levels when the Flora House and Silkey wells were shut-in as of April 2006.

Edwards

The minimum value decreased 2.2 feet from January 2005 to December 2005 (Figure 2). However, the maximum value increased 7.7 feet from 2005 to 2006.

Whitehead

The minimum value decreased 3 feet, and the maximum value increased 8.2 feet (Figure 3).

Flora

The Tiegs (Triangle) well had the most complete hydrograph record of the three Flora wells. This is because measurements had to be discontinued at the House (Office) and Silkey (Shed) wells for about one half year due to construction at the Flora site. The Tiegs well showed a pattern very similar to the Edwards well (Figures 2 and 4); the maximum value increased 7.4 feet, and the minimum value decreased 3.8 feet. Because of the hiatus in measurements at the House and Silkey wells, only the minimum values can be evaluated; the House well was down 1.8 feet, and the Silkey well was down 4.3 feet (Figures 5 and 6).

Quail Hollow

Both Quail Hollow geothermal wells showed similar water level trends as the other wells in the District with the minimum readings decreasing and the maximum readings increasing. The Lower well's minimum reading decreased 3.2 feet and its maximum reading increased 3.5 feet (Figure 7). The Upper well's minimum reading decreased 2.6 feet and its maximum reading increased 8 feet (Figure 8).

Terteling Ranch

The maximum value for the Windssock well was up 6.2 feet, and the minimum value was up slightly in WY06 (Figure 9). The minimum value for the Pool well was down 3.2 feet and the maximum value was up 6.1 feet (Figure 10). The minimum value for the Motorcycle Club Hot well was down 5 feet and the maximum value was up 4.2 feet (Figure 11).

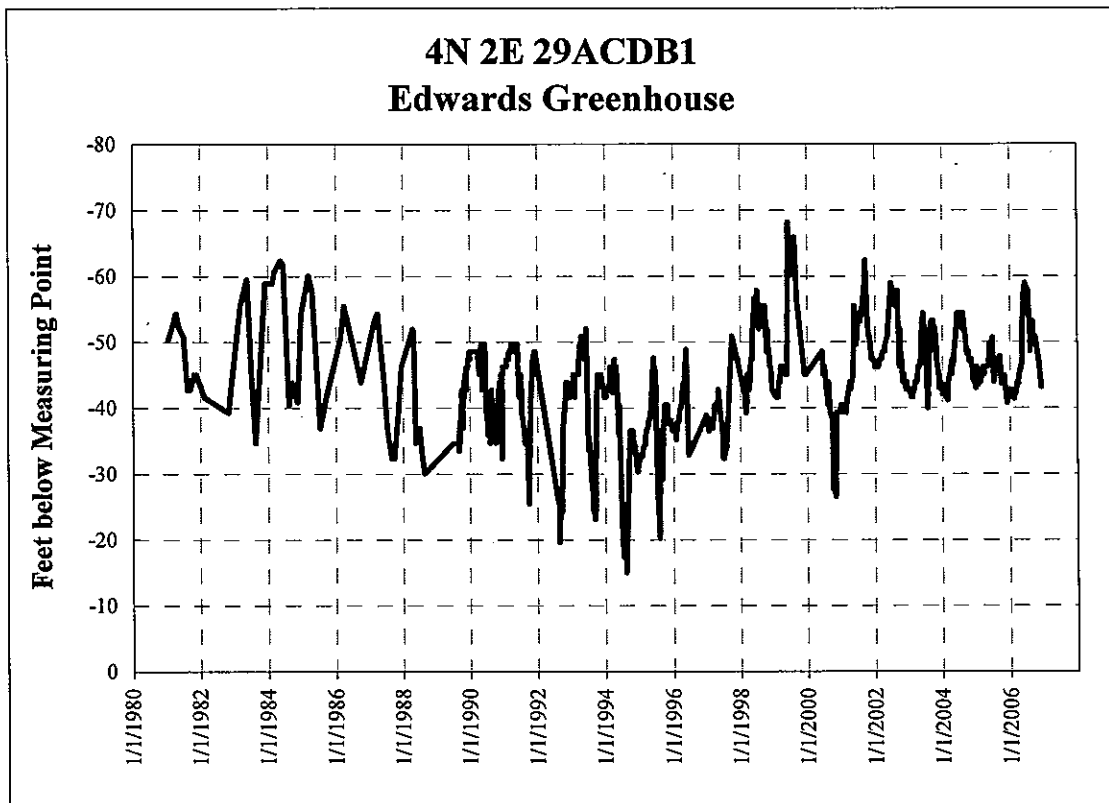


Figure 2. Water level hydrograph for the Edwards Greenhouse well.

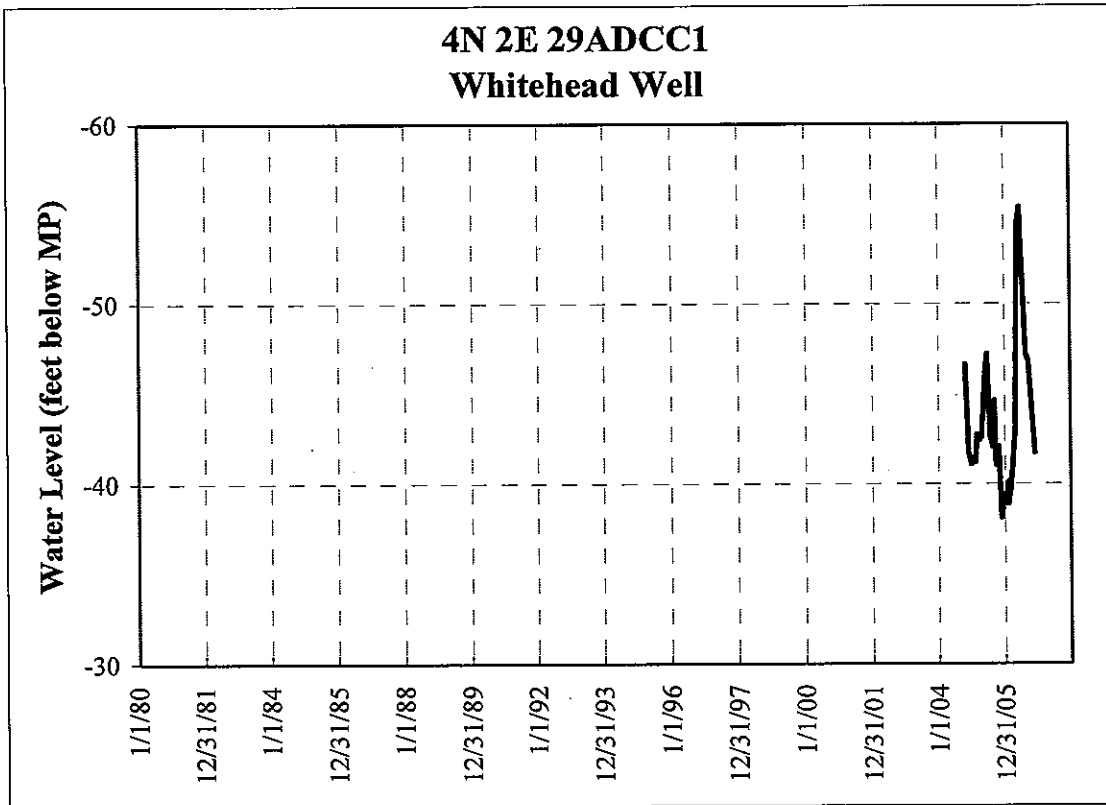


Figure 3. Water level hydrograph for the Whitehead well.

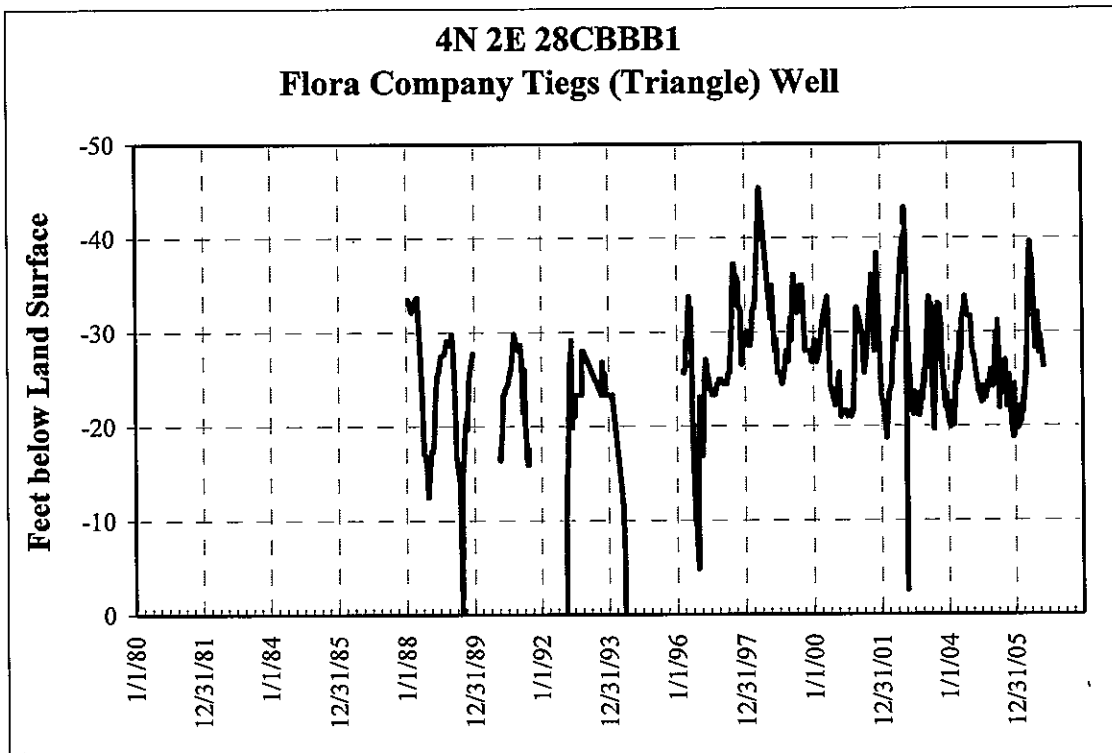


Figure 4. Water level hydrograph for the Flora Company Tieg's (Triangle) well.

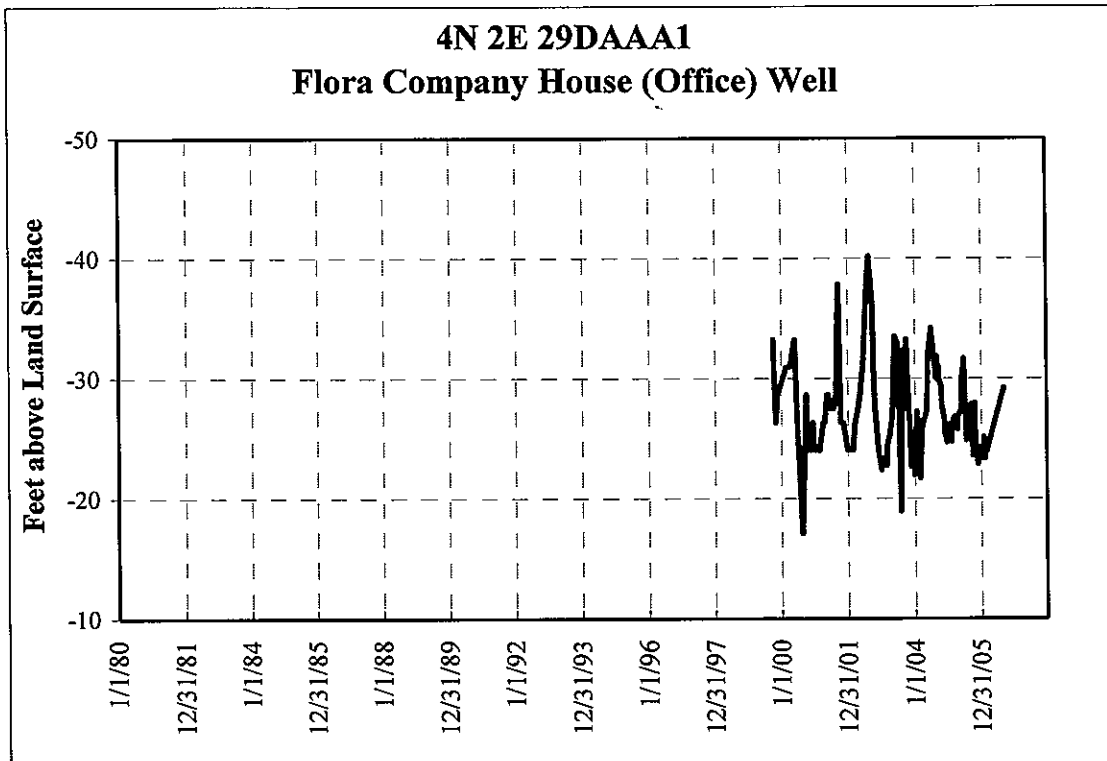


Figure 5. Water level hydrograph for the Flora Company House (Office) well.

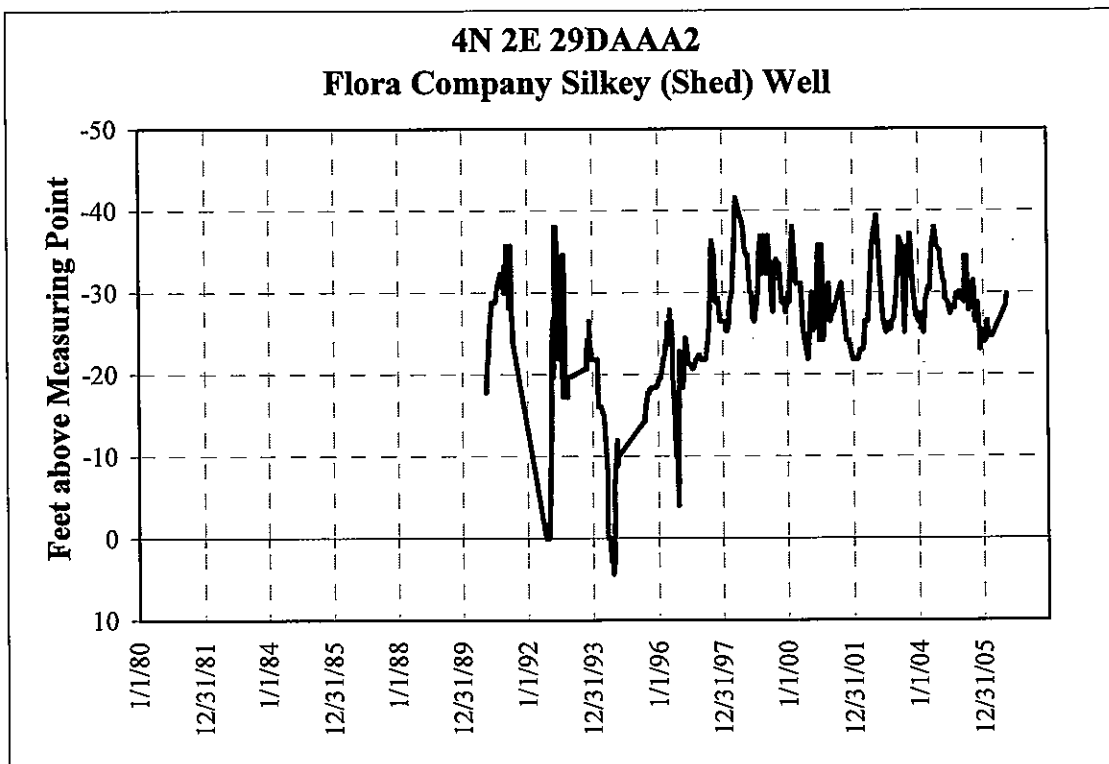


Figure 6. Water level hydrograph for the Flora Company Silkey (Shed) well.

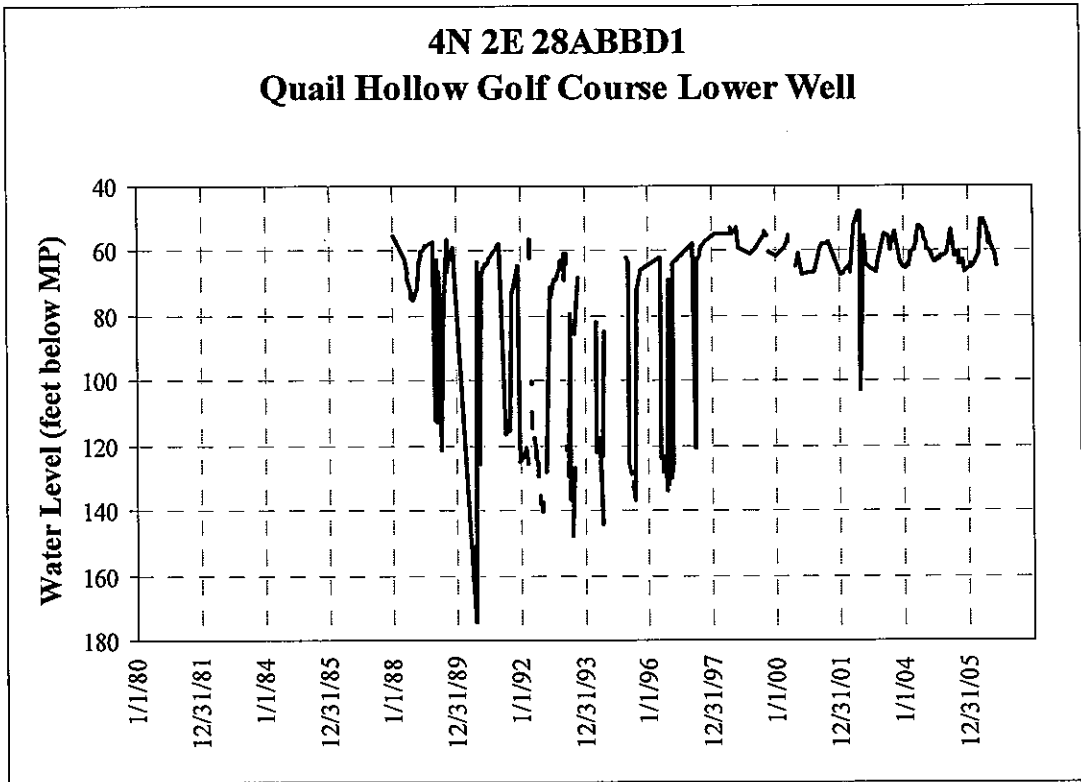


Figure 7. Water level hydrograph for the Quail Hollow Lower well.

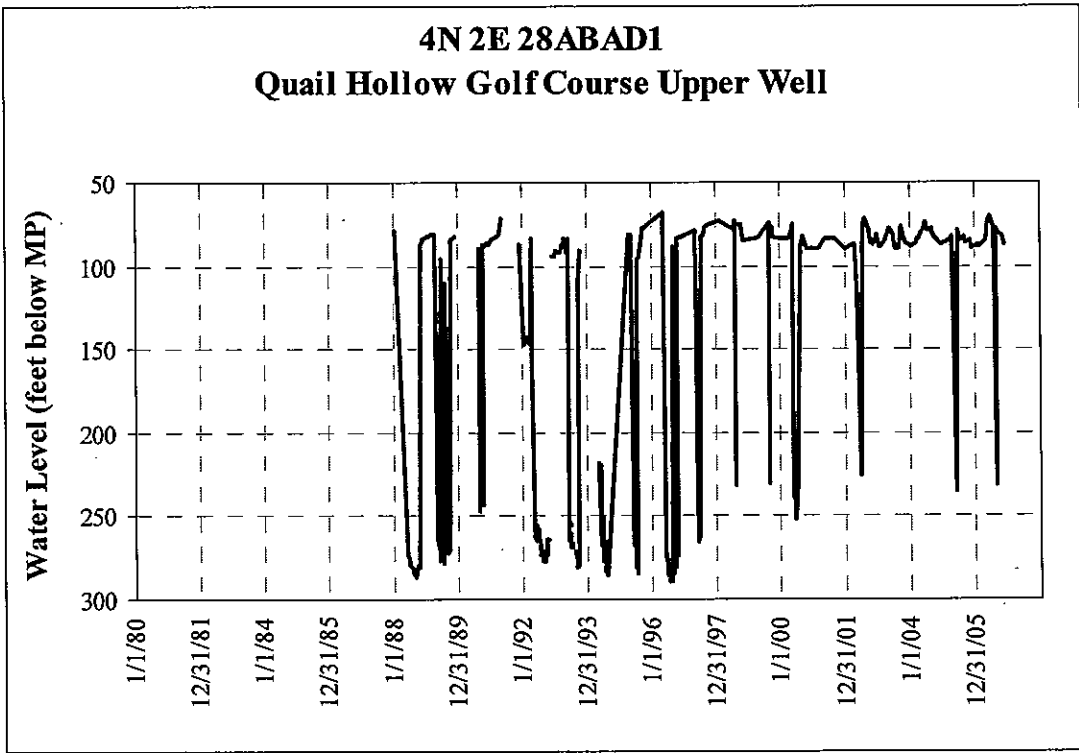


Figure 8. Water level hydrograph for the Quail Hollow Upper well.

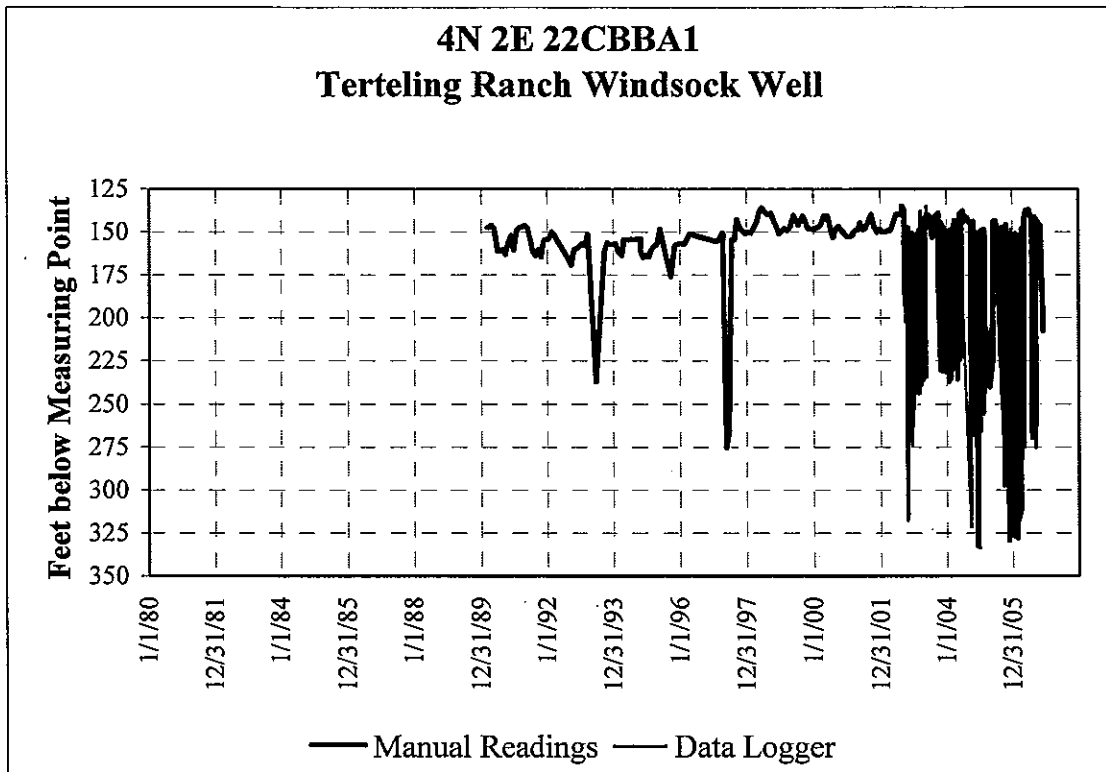


Figure 9. Water level hydrograph for the Terteling Ranch Windssock well.

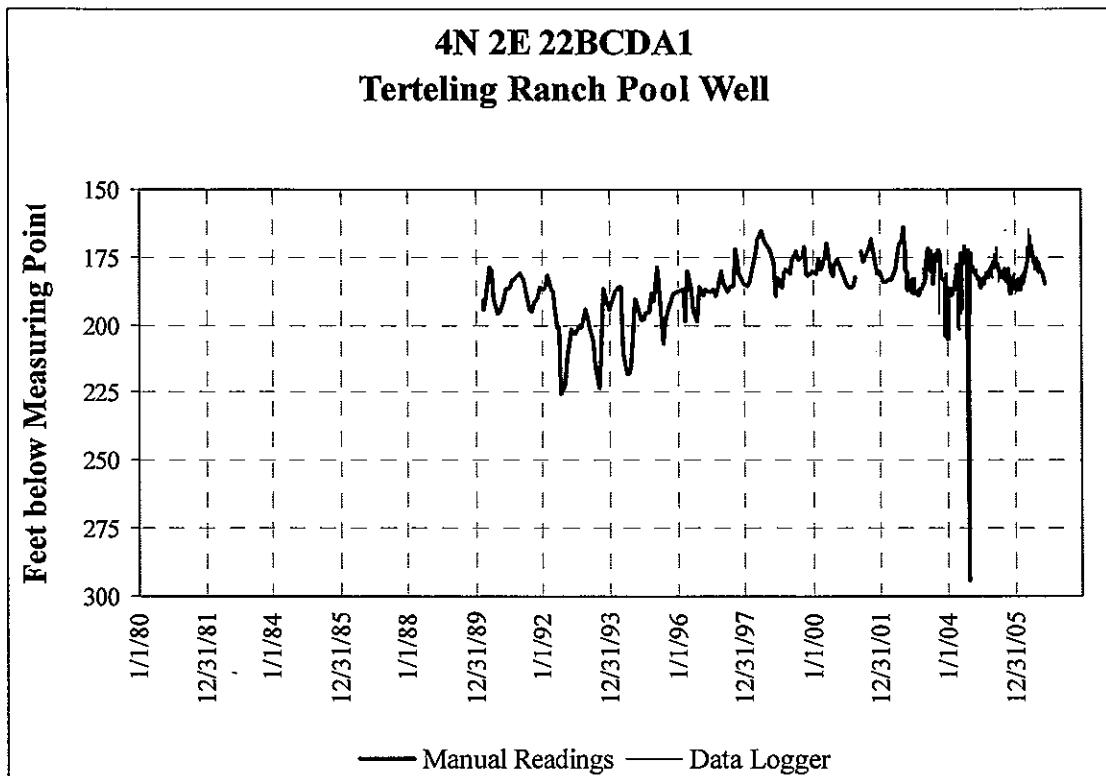


Figure 10. Water level hydrograph for the Terteling Ranch Pool well.

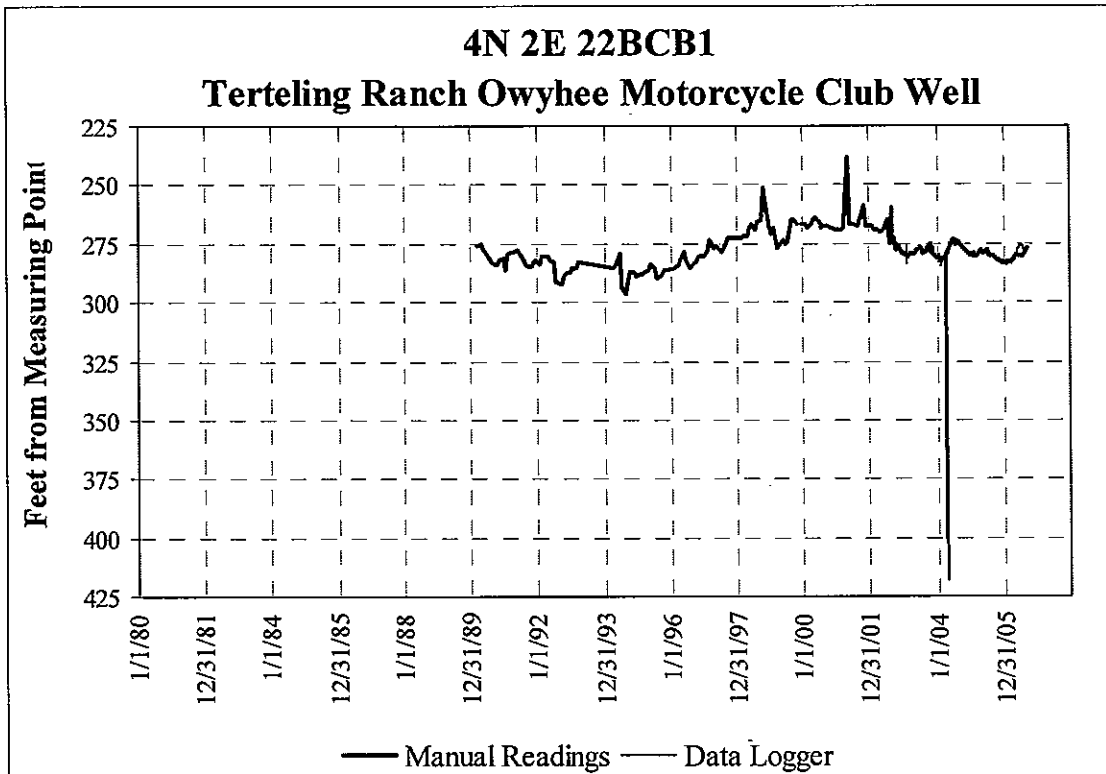


Figure 11. Water level hydrograph for the Terteling Ranch Motorcycle Club Hot well.

Table 2 shows the Watermaster's hours for the reported time period. The total charge for the Watermaster's services from February 22, 2006 to March 1, 2007 was \$2,801.37 (Figure 12). Table 3 shows the assessment based on the percentages determined at the 2004 Annual Water District 63S Meeting.

Table 2. Watermaster hours for Water District 63-S work, February 22, 2006 through March 1, 2007.

Payroll Reporting Date	Hours
3/24/2006	5.7
4/21/2006	3.5
5/5/2006	2
6/2/2006	3
6/30/2006	3
7/28/2006	3.5
8/25/2006	3.5
9/22/2006	3.5
10/6/2006	3
10/20/2006	6
12/1/2006	3.5
12/29/2006	4
1/26/2007	7.5
2/9/2007	5
2/23/2007	3.5
TOTAL	60.2

Water Master Fees	
February 22, 2006 thru March 1, 2007	
Salary	1460.65
Fringe	620.14
Supplies	2.01
Indirect	718.57
Total	2801.37
Total Hours: 60.2	

*does not = 2811.95 due to rounding
+ no Ryan hrs*

Figure 12. Financial accounting for the Watermaster's services to Water District 63S for the time period from February 22, 2006 to March 1, 2007.

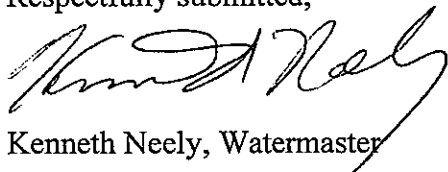
Table 3. Assessment for Watermaster's expenses for Water District 63S for February 22, 2006 through March 1, 2007.

Owner	Name	Volume in ac-ft for Water Year 2006 (%)	Percentage ¹	Assessment ²
Terteling Company	Flora Tiegs	0	0.000	\$0.00
Terteling Company	Flora Silkey	34.64 (6%)	20.723	\$580.53
Terteling Company	Flora House	8.47 (2%)	1.566	\$43.87
Edwards Greenhouses	Edwards	134.81 (25%)	22.864	\$640.51
Terteling Company	Terteling Windsock	272.59 (50%)	36.147	\$1012.61
Terteling Company	Terteling Pool	58.05 (11%)	9.714	\$272.13
Quail Hollow Golf Course	Quail Hollow Upper	21.23 (4%)	6.562	\$183.83
Quail Hollow Golf Course	Quail Hollow Lower	2.51 (<1%)	2.444	\$68.47
Rose and Mary Ryan	Ryan		-	\$10.00
David Niznik	Whitehead	12.44 (2%)	-	-
	Total	544.73 (100%)	100	\$2811.95

¹Percentages as determined at the 2004 Annual Meeting.

²Based on percentages in Column 4 times the Watermaster's Fees for this time period (\$2801.37).

Respectfully submitted,



Kenneth Neely, Watermaster