



Panhandle Water News

August 2004 **TEXAS STATE DOCUMENT**
UNIVERSITY OF TEXAS PAN AMERICAN
EDINBURG, TEXAS 78539-2999

RULES REVISIONS NOT YET COMPLETE

Despite the two public hearings that have been held since the last "Panhandle Water News" was mailed, the District Rules are still not completed. Following a public hearing on March 24, the Board of Directors adopted 15 of the 16 proposed operating rules and returned one to the rules committee. Those 15 adopted rules took effect immediately. The Depletion Rule, Rule 15, was returned to the rules committee to further clarify language. The new rules incorporated public comments made during a four-week comment period that ended on March 16 as well as comments and testimony from four public meetings.

On May 26, another public hearing was held on the proposed revisions, including an additional rule, Rule 16, to set the annual decline rate at 1.25%. Board members heard 2 1/2 hours of testimony on several issues of concern, including the 1.25 percent depletion rule, lack of metering being imposed on all users, and an emergency use provision. After spending some time in closed session to determine what course of action they would take, the Board decided to eliminate Rule 4.3(r), the emergency use clause, and send proposed Rule 16 back to the Rules committee, to include a provision for sun-setting of the rule and to address the acceptable decline rate. The staff was instructed to survey the effectiveness of the current voluntary metering program and bring a presentation to the Board regarding the feasibility of metering as many wells as possible with a cost-sharing program. The remaining proposed rules were adopted.

A revision of the Depletion Rule, Rule 15, was returned to the Board on August 18, 2004 and the Board approved the rule to be published for public comment.

A copy of the current rules and proposed changes are available on the District's website, www.panhandlegroundwater.org, or by calling the office, (806)883-2501.

SECOND ANNUAL GROUNDWATER SCHOLARSHIP WINNERS ANNOUNCED

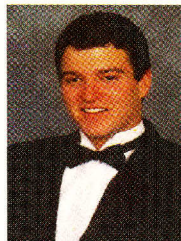
The Panhandle Groundwater Conservation District is proud to announce the winners of the second annual PGCD scholarship program. The District received essays from fifteen applicants, vying for scholarship monies. To be eligible, the applicants must be senior class students, graduating from schools within the District. Scholarship applicants are required to write a water-related essay on a topic chosen by the District. Scholarship recipients must enroll as a full-time student and attend college the fall semester immediately following selection.

The District is pleased to announce the following selections. Receiving first place, a \$4,000 scholarship, is Ms. Jennifer Hutchison, Miami High School.



Jennifer Hutchison
Miami High School

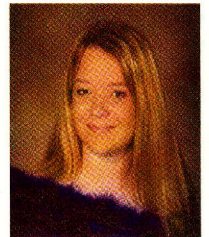
PLEASE NOTE: Ms. Hutchison's essay, explaining her views on whether water should be controlled by local groundwater districts or by the state, will be published in the next edition of "Panhandle Water News."



Jacob Hopkins
Pampa High School

Awarded second place, a \$3,000 scholarship, is Mr. Jacob Hopkins, Pampa High School.

Third place, a \$2,000 scholarship, was awarded to Ms. Courtney Martin, White Deer High School.



Courtney Martin
White Deer High

Due to the fact that each scholarship applicant was very worthy and each essay well written, competition was extremely tough. All of these applicants will

become assets to the university or college they choose.

Congratulations to the winners and to all those that applied. Good luck and best wishes on all of your future endeavors!

BOARD SETS TAX RATE AND BUDGET

WHITE DEER - The Panhandle Groundwater Conservation District board of directors set the 2004 tax rate at \$0.0152 per \$100 valuation.

According to C. E. Williams, general manager of the District, "This is a slight decrease from last year's tax rate of \$0.0154." The Board also lowered the 2004-2005 Budget by \$75,000.

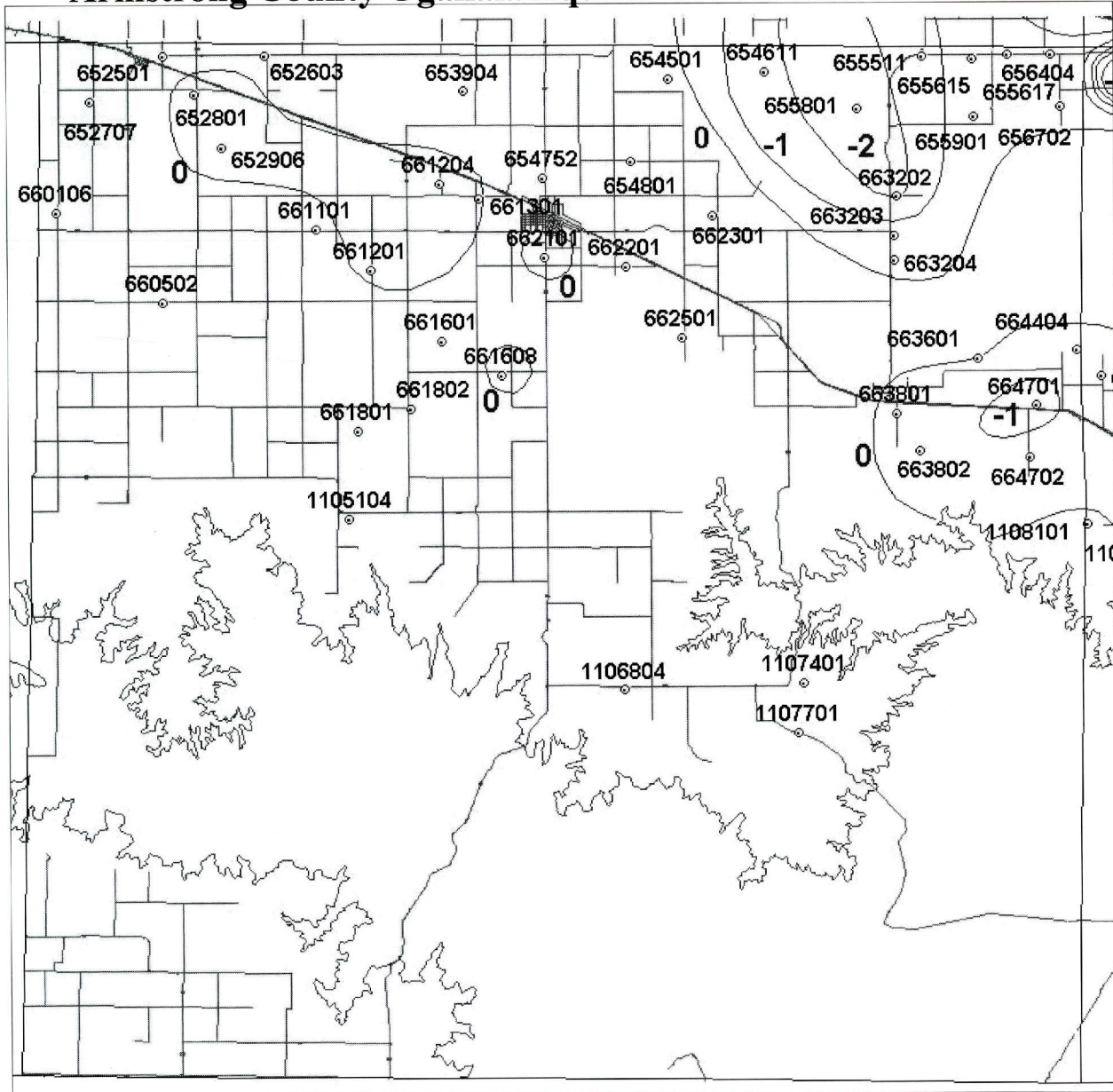
Mr. Williams said the final bill to property owners may vary from county to county, because of differences in valuations. Property appraisals are made by the individual counties in the District.

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Armstrong County Ogallala Aquifer *contour interval = 1 Foot*



WATER CONSERVATION EDUCATION WRAP-UP

During the 2003-2004 school year, education director Bart Wyatt, traveled approximately 4,274 miles to bring fifth grade students throughout the District the water conservation program. By the end of May, a total of 2,376 students, in 48 different schools, had been given the presentation and a waterwheel. All but one public school in the District received the program. This would not have been possible without the cooperation and dedication of outstanding school faculty. We hope to add parochial schools and the remaining public school to the program, soon.

Each year, PGCD tries to add something new to the program. This year, students had the opportunity to take home a water saver kit. The kit contains a high efficiency showerhead, kitchen and bathroom sink aerators, a leak gauge, and an assortment of other conservation tools for use around the home. The District feels that this program sends a message, to both students and parents, about the importance of water conservation and the part they can do to preserve our precious resource.

Along with school education, members of the PGCD personnel stayed very busy manning the District's informational booth at events throughout the District. We participated in the Tri-State Fair, farm and ranch shows, agriculture days, health fairs, and science fairs, providing information and answering questions.

Throughout the year, C. E. Williams, Ray Brady, and Bart Wyatt gave numerous presentations to various groups, civic clubs, and organizations, not only within the District but also around the state. These presentations covered a wide range of subjects including, District Information, Water Education and Conservation, Availability of Water, Initial Production Permits, and Rainfall Enhancement. They were also interviewed by local and state radio, television, and newspaper reporters.

Education is the key to awareness, and more and more persons are beginning to realize the importance of water, and what is at stake for the people of the Panhandle. By working together, everyone in the District can become better educated on water and its conservation methods. Future generations are counting on us!

Armstrong County Ogallala Wells (see map page 2)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
652501	97	-207.36	-204.2	-202.3	-202	5.36	2.2	0.3
652603	95			-168.6	-168.2			0.4
652707	101			-228.2	-218.8			9.4
652801	104	-169.8	-170.8	-171.8	-172.5	-2.7	-1.7	-0.7
652902	106	-162.86	-165.8	-174	-171.4	-8.54	-5.6	2.6
653904	112			-187.1	-186.8			0.3
654501	83			-254.6	-254.1			0.5
654611	196	-307.42	-304.2	-312.6	-313.3	-5.88	-9.1	-0.7
654752	154			-225.2	-184.6			40.6
654801	157	-296.69	-294.7	-294.2	-293	3.69	1.7	1.2
655511	132			-342.2	-350.8			-8.6
655615	88	-344.36	-349.1	-352.8	-353.2	-8.84	-4.1	-0.4
655617	100			-350.3	-350.6			-0.3
655801	154	-125.39	-125.9	-134.3	-136.8	-11.41	-10.9	-2.5
655901	101	-236.4	-241	-245.6	-243.5	-7.1	-2.5	2.1
656404	89	-332.52	-342.1	-343.7	-345.9	-13.38	-3.8	-2.2
656702	60		-332.5	-333.6	-333.6		-1.1	0
660106	13	-216.34	-212.8	-212	-211.8	4.54	1	0.2
660502	224	-152.86	-153.2	-152	-152.2	0.66	1	-0.2
661101	173	-159.75	-155.8	-164.5	-151.2	8.55	4.6	13.3
661201	211	-204.22	-191.3	-206.3	-191.6	12.62	-0.3	14.7
661204	151			-166	-166.7			-0.7
661301	168	-160.89	-158.5	-158.5	-158.5	2.39	0	0
661601	249	-180.77	-170.6	-169.4	-169.2	11.57	1.4	0.2
661608	273		-166	-165.2	-167.4		-1.4	-2.2
661801	292	-164.88	-163.9	-163.5	-163.6	1.28	0.3	-0.1
661802	290	-159.21	-159.7	-157	-147.4	11.81	12.3	9.6
662101	195	-208.06	-210.3	-218	-214.3	-6.24	-4	3.7
662201	204	-192.94	-186.4	-186.9	-186.4	6.54	0	0.5
662301	162	-282.14	-288.8	-285.4	-285.6	-3.46	3.2	-0.2
662501	243	-193.05	-190.9	-187.8	-187.4	5.65	3.5	0.4
663202	136	-173.53	-157.8	-164.8	-167.9	5.63	-10.1	-3.1
663203	137		-166	-166.2	-168.6		-2.6	-2.4
663204	137	-165.03	-165.4	-164.2	-166.8	-1.77	-1.4	-2.6
663401	170	-193.61	-194.3	-194.4	-194.6	-0.99	-0.3	-0.2
663601	108	-93.27	-92.8	-95.2	-92.8	0.47	0	2.4
663801	142	-192.23	-193.3	-194	-194.5	-2.27	-1.2	-0.5
663802	143	-195.47	-196.2	-197.5	-197.8	-2.33	-1.6	-0.3
664404	1	-107.34	-110.2	-112.8	-112.8	-5.46	-2.6	0
664701	69	-113.98	-122.2	-126.55	-128	-14.02	-5.8	-1.45
664702	71	-139.86	-139.1	-140.1	-141.8	-1.94	-2.7	-1.7
1105104				-174.6	-174.6			0
1106804	7			-231.5	-227			4.5
1107401	17	-116.21	-117.6	-117	-115.7	0.51	1.9	1.3
1107701	14	-119.06	-120.1	-122	-128.4	-9.3	-8.3	-6.4

2004 WINTER WATER LEVEL MEASUREMENTS

The information collected in the Water Level Measurement Program shows the hydrologic diversity within the Panhandle Groundwater Conservation District. There are five aquifer systems in the District: 1) the Ogallala aquifer, the most common aquifer in the District, and some Ogallala sand dune deposits; 2) the Dockum Group of aquifers, including the Santa Rosa Formation; 3) the Permian age formations including the Quartermaster formation and Whitehorse Group; 4) the Blaine Gypsum and associated Dog Creek Shale; and 5) the Seymour formation (in southeast Wheeler County).

Water level changes for previous years are discussed in the various charts in the newsletter. The Ogallala water levels in Carson and Gray counties continue to decline. Significant declines have developed in southwest Roberts County. The Ogallala aquifer in Donley, Wheeler and southeast Gray County continues to show mixed reaction to pumping and rainfall patterns. In southern Wheeler County, the measurements for the Seymour and Blaine aquifers were combined and analyzed as a unit. Studies of these aquifers in Collingsworth County and other areas to the southeast show an integrated relationship of these two units.

The District continued monthly water level monitoring activities in the southeast Roberts County area. Several wells in Gray and Roberts counties have been equipped with automatic recording devices. Installation of more of these types of recorders is planned for 2005.

In addition to measurements made by the District, water level measurements from the US Army Corps of Engineers, the City of Amarillo, CRMWA, USGS, and private contractors were used in developing the water level data. Their participation and assistance is appreciated.

“RULE OF CAPTURE” SYMPOSIUM

On June 15, 2004, the Texas Water Development Board (TWDB) held an all-day symposium, offering legal, social, and historical commentary on the “rule of capture.”

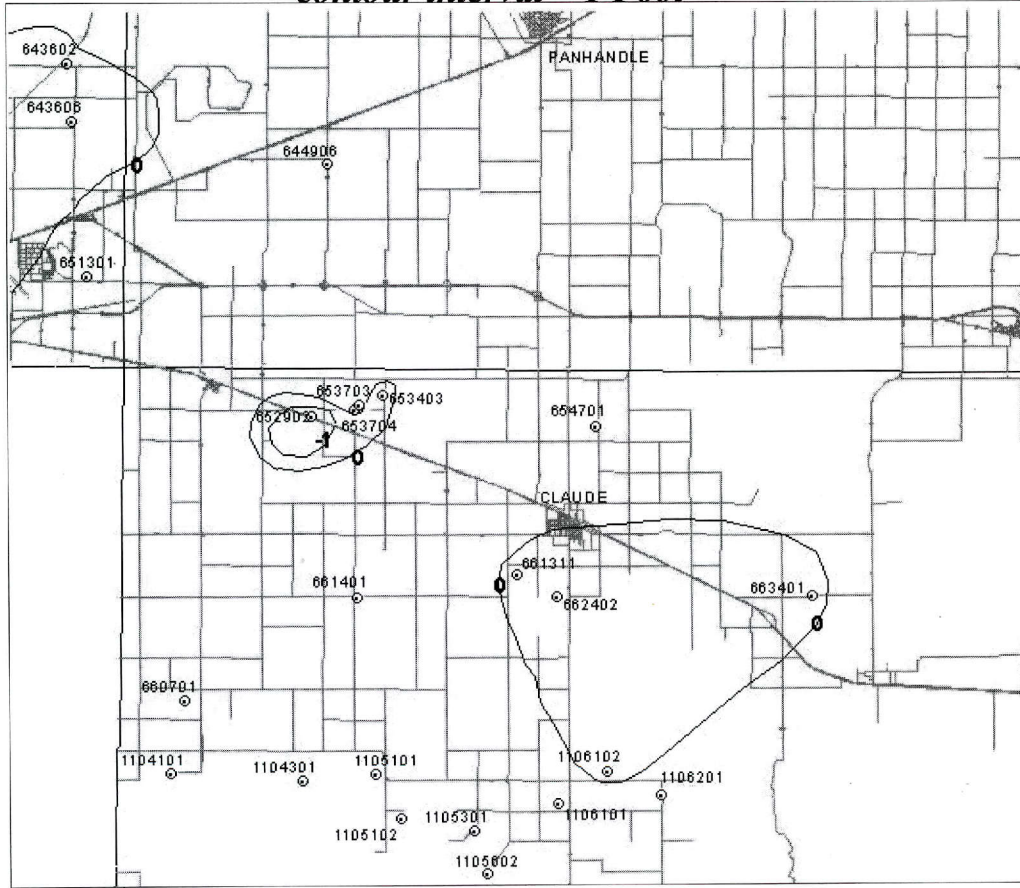
According to Mr. Bill Mullican, Deputy Executive Administrator of TWDB’s Office of Planning, “the conference was held almost 100 years to the day after the rule of capture became the law of Texas.” The rule of capture, a doctrine of private property rights to groundwater, was first enunciated by the Texas Supreme Court in the *Houston & Texas Central Railway Company v. East (East)* case, decided by the Court on June 13, 1904.

“Intense competition for our State’s groundwater resources has greatly amplified interest in the rule of capture and the role it has and will play in Texas. An important aspect of exploring the future of the rule of capture is to explore its past. The symposium looked in both direction --- one hundred years into the past and one hundred years into the future,” Mullican said.

General Manager, C. E. Williams, was invited to give a presentation at the symposium. In this presentation, Mr. Williams said, in his opinion, the rule of capture as modified by groundwater conservation districts is still the best way of managing groundwater in Texas, given the vast diversity of the State.

PGCD Director Kim Flowers also attended the meeting, which was held in the State Capitol building, in Austin.

Armstrong, S Carson, SE Potter Counties Dockum & Ogallala contour interval = 1 Foot



Armstrong County Ogallala/Dockum Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
652906	136	-109.06	-113	-118.2	-116.3	-7.24	-3.3	1.9
653403	92	-181.71	-181.1	-184.8	-181.4	0.31	-0.3	3.4
653703	93	-183.09		-195.4	-182.1	0.99		13.3
653704	93		-177.2	-179.5	-175.4		1.8	4.1
654701	115	-255.97	-253.1	-253.1	-253	2.97	0.1	0.1
660701	299	-191.01	-187	-187.2	-185.8	5.21	1.2	1.4
661311	208	-174.28	-174.4	-174.2	-175.1	-0.82	-0.7	-0.9
662402	234		-146.1	-146	-147		-0.9	-1
1104101	1	-201.53	-201.4	-200.2	-201	0.53	0.4	-0.8
1105102	8	-164.45	-161	-160.8	-160.9	3.55	0.1	-0.1
1105301	10	-159.82	-158.5	-157.2	-159.5	0.32	-1	-2.3
1105602	6	-177.69	-174.2	-173.7	-174.1	3.59	0.1	-0.4
1106101	10	-177.37	-176.3	-175.3	-175.9	1.47	0.4	-0.6
1106102	5	-162.62	-161.6	-161.9	-162.2	0.42	-0.6	-0.3
1106201	4	-165.99	-161.4	-160.6	-160.4	5.59	1	0.2

Carson County Ogallala/Dockum Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
1106201	4	-165.99	-161.4	-160.6	-160.4	5.59	1	0.2

Potter County Ogallala/Dockum Wells

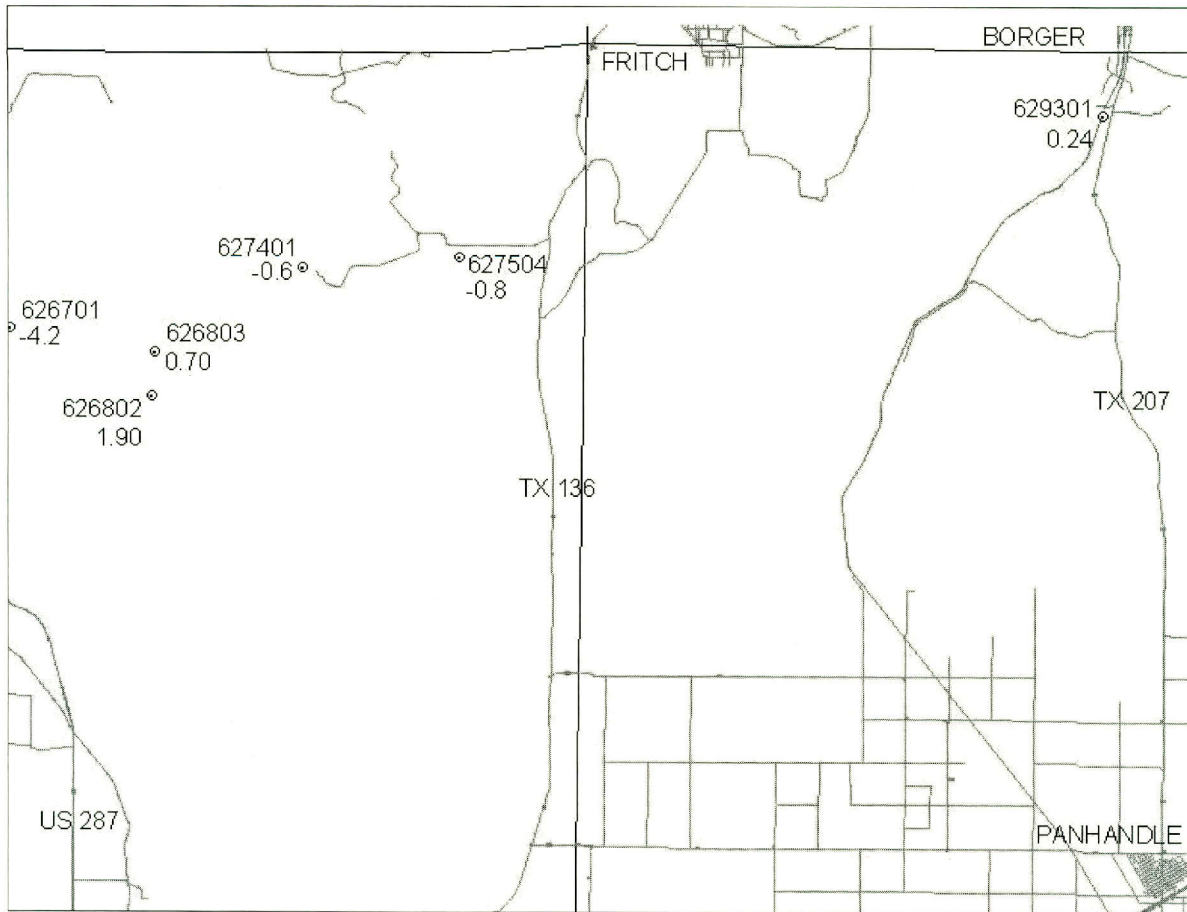
Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
633201	80			-88.2	-84.9			3.3
633301	77			-63.8	-65.3			-1.5
634703	207			-87.5	-87.6			-0.1
641803	56				-127.3			
643602	22			-320.4	-320.4			0
643606	23				-278.8			
650604	90			-201.7	-201.5			0.2
651301	17			-211	-210.9			0.1
732201	35			-160.1	-160.6			-0.5
732302	26			-52.1	-52.1			0
732501	28			-61.2	-60.6			0.6
732602	20			-40.8	-40.9			-0.1
748701	192			-81.7	-91.1			-9.4
748801	158			-40.4	-43.5			-3.1

Armstrong County Dockum Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
661401	228	-164.19	-162.6	-163.2	-162.4	1.79	0.2	0.8
1104301	7	-301.82	-304.5	-302	-303	-1.18	1.5	-1
1105101	5	-187.51	-187.3	-183.8	-184.2	3.31	3.1	-0.4

Potter & Carson Counties Whitehorse & Other Permian Aquifers

contour interval = 1 Foot



Potter County Whitehorse Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
626701	19			-36.5	-40.7			-4.2
626802	66			-51.9	-50			1.9
626803	16			-35.5	-34.8			0.7

Carson County Whitehorse Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
629301	105	-183.2	-180.6	-180.1	-179.4	3.8	1.2	0.7

Potter County Whitehorse/Ogallala Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
627504	30			-28.8	-29.6			-0.8

Potter County Quartermaster Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
627401	17			-116.2	-116.8			-0.6

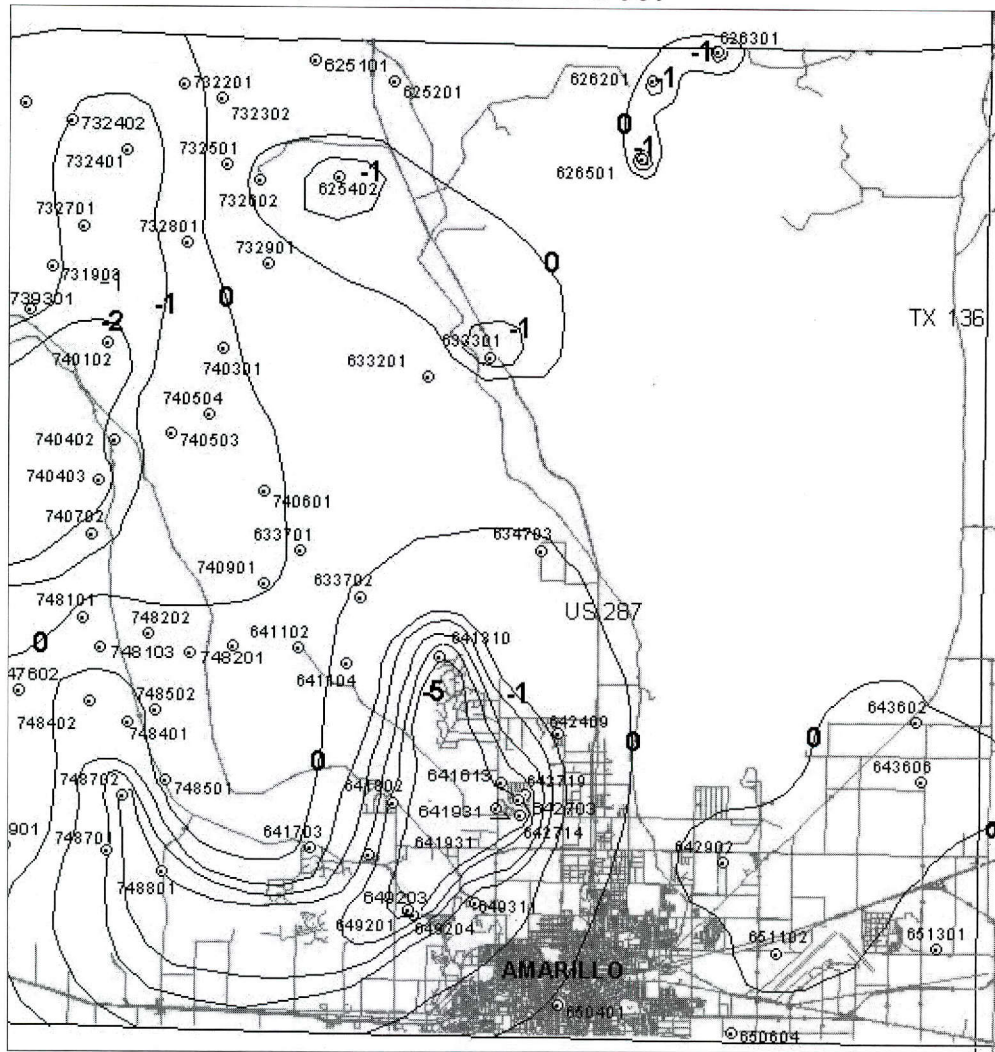
TWDB'S NEWEST MEMBER HAILS FROM THE PANHANDLE

Governor Rick Perry appointed James Herring to the Texas Water Development Board in January 2004. Mr. Herring is President and CEO of Friona Industries, L.P., the fifth largest cattle feeding operation in the United States. He and his seven partners own four feed yards in the Texas Panhandle, feeding 425,000 head of cattle each year.

A native Texan, Mr. Herring grew up in Amarillo, and earned a BBA in Finance from the University of Texas and an MBA from Harvard. Mr. Herring is pleased to join the TWDB where he can "be of service to the great State of Texas, where I was born and raised." His experience with agriculture makes him keenly interested in water. "The Ogallala Aquifer is directly tied to the cattle feeding business and is very important to the cattle industry and the people of the Panhandle," he notes. "I am fascinated with the complexity of water issues in Texas. Water is an important subject at an important juncture in an important State. People are going to have to be well versed in water issues and be wise in their approach to managing these issues. I hope to try to be a reasoned voice."

Potter County Dockum Aquifer

contour interval = 1 Foot



Potter County Dockum Wells

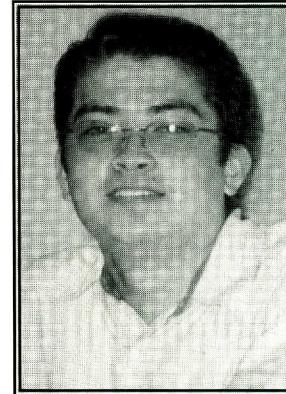
Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
625101	13			-262.4	-351.4			-89
625201	1			-262.5	-230.7			31.8
625402	5			-95.8	-96.9			-1.1
626201	88			-125.1	-108.6			16.5
626301	36			-62.5	-69.6			-7.1
626501	109			-21.7	-42.6			-20.9
633401	3			-67	-65.5			1.5
633701	21			-56.9	-55.6			1.3
633702	17			-99.5	-99.9			-0.4
641102	26			-103.1	-103.1			0
641104	19			-138.9	-139.1			-0.2
641310	7			-39.7	-44.6			-4.9
641613	219	-83.57	-102.53	-91.5	-97	-13.43	5.53	-5.5
641703	90			-306.8	-307.2			-0.4
641802	54			-96.7	-101.1			-4.4
641931				-57.1	-62.9			-5.8
642409	195			-64.2	-65			-0.8
642703	220			-90.8	-103.1			-12.3

Potter County Dockum Wells Cont'd

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
642714	220			-77.5	-82.5			-5
642719	220			-126.2	-128			-1.8
642902	102			-221.8	-223.6			-1.8
649201	46			-110.9	-121.4			-10.5
649203	46				-112			
649204	46				-130.5			
649311	12			-54.5	-55.7			-1.2
650401	187			-158.9	-161.3			-2.4
651102	73			-175.7	-175.8			-0.1
731301	48			-21.3	-21.4			-0.1
731903	103			-22.6	-23.4			-0.8
732401	55			-46.9	-29.9			17
732402	30			-16.7	-17.7			-1
732701	36			-36.41	-48.1			-11.69
732801	47			-131.8	-132.2			-0.4
732901	45			-171.1	-170.5			0.6
739301	58			-4.5	-4.8			-0.3
740102	99			-27	-28.7			-1.7

Potter County Dockum Wells Cont'd (see map on page 6)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
740301	42			-164.8	-164.9			-0.1
740402	89			-83.9	-85.5			-1.6
740403	10			-60.2	-62.4			-2.2
740503	53			-31	-31.4			-0.4
740504	93			-25.7	-26			-0.3
740601	2			-71.5	-71.6			-0.1
740702	8			-69.5	-71.5			-2
740901	4			-127.9	-128.2			-0.3
747602	14			-94.2	-93.1			1.1
747901	38			-114.8	-113.2			1.6
748101	6			-111.2	-110.5			0.7
748103				-42.1	-41.7			0.4
748201	10			-128.1	-72.4			55.7
748202	14			-8.6	-7.5			1.1
748301	3			-86.7	-83.7			3
748401	188			-43.9	-44.5			-0.6
748402	8			-25.9	-26.3			-0.4
748501	156			-61.1	-61.1			0
748502	16			-85.5	-35.7			49.8
748702	190			-45.2	-52.2			-7



BRUCE HO INTERNS WITH DISTRICT

Bruce Ho spent 12 weeks with the District this summer. Bruce was a great help with Geographic Information System (G.I.S.) mapping, Well Survey, and Data Analysis production. He also assisted with several Power Point presentations.

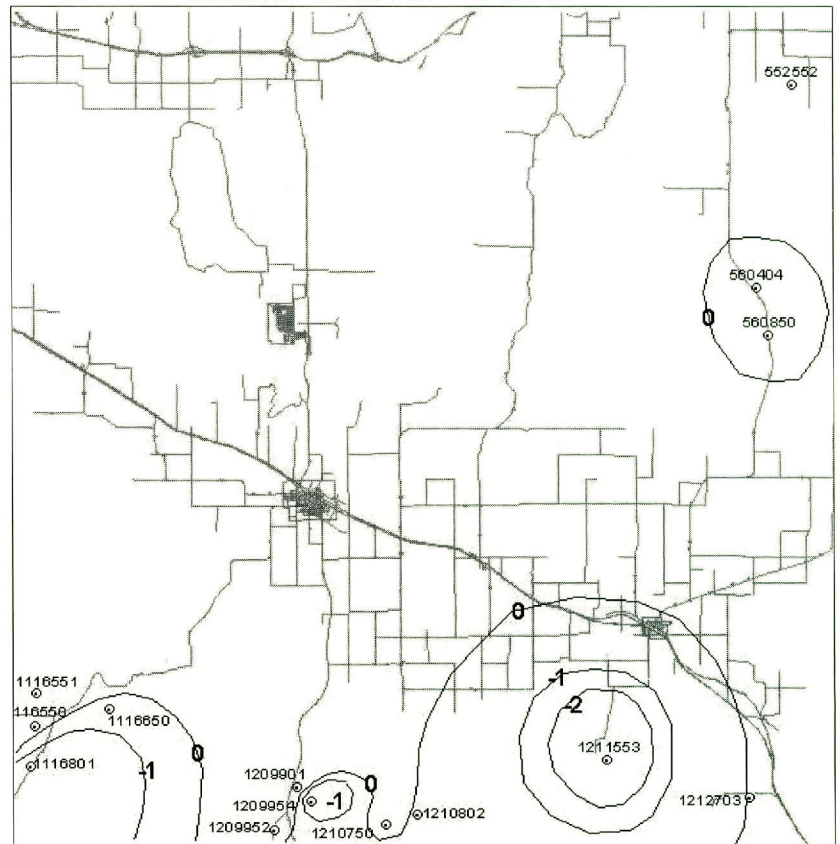
Bruce is currently attending Yale University in New Haven, Connecticut, and will receive his Masters' in Environmental Management in May 2005. He hopes to find employment with a government agency or a non-profit organization.

Bruce, a native of San Antonio, has a sister and two brothers. He attended the University of Texas at Austin, where he earned a Bachelor of Arts in History, with a minor in mathematics.

WATER QUALITY PROGRAM IN PROGRESS

The PGCD staff is currently taking water quality samples from wells throughout the nine counties in the District. This year, approximately 300 wells will be checked for mineral content.

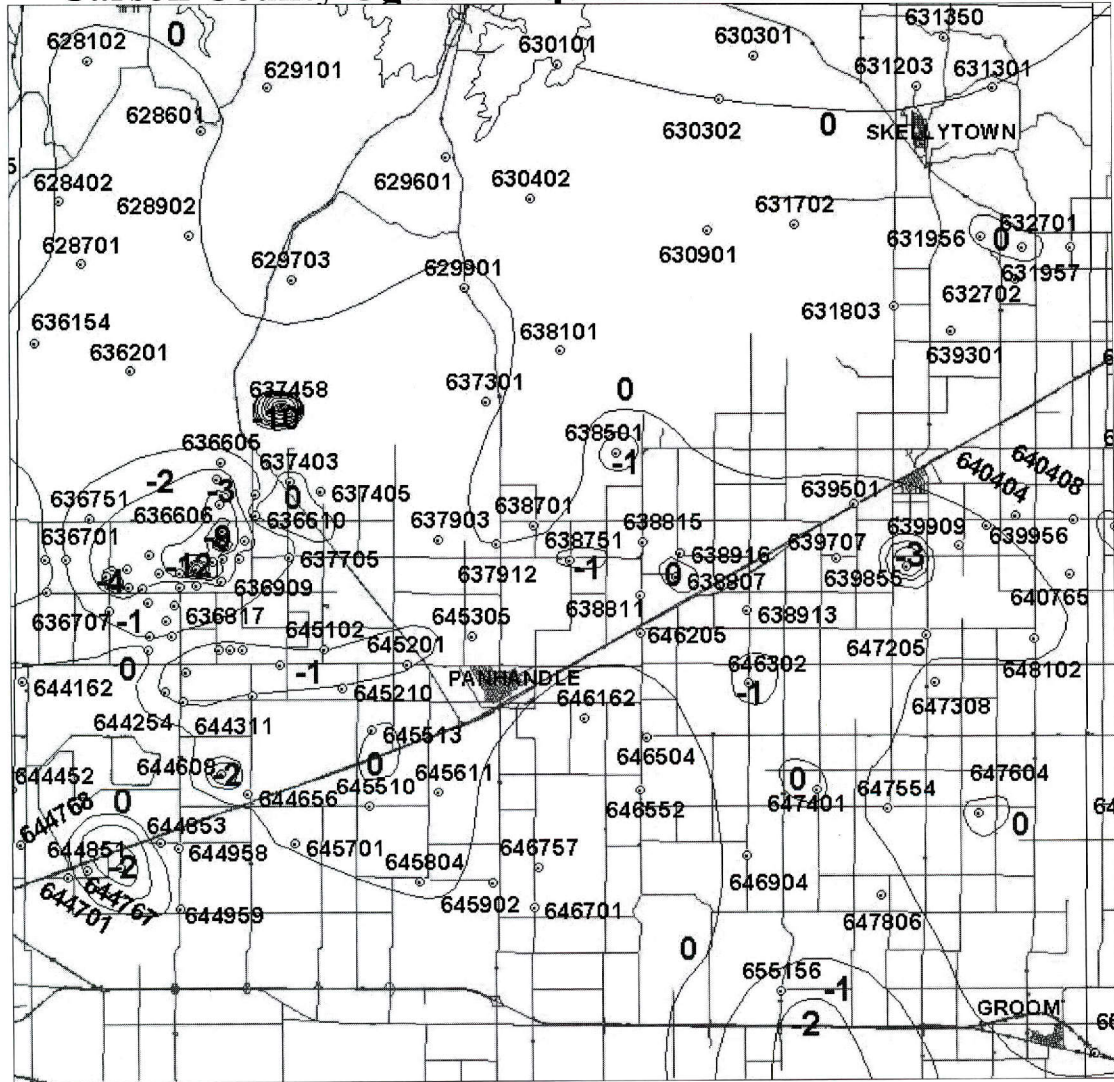
Donley Counties Whitehorse & Other Permian Aquifers
contour interval = 1 Foot



Donley County Whitehorse Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
552552	12			-94.7	-91.1			3.6
560404	40	-65.92			-54.7	11.22		
560850	14			-119.33	-119.5			-0.17
1116550	106			-123.1	-119.7			3.4
1116551	109			-130.7	-126.1			4.6
1116650	11			-5.6	-6.4			-0.8
1116801	104			-45.2	-51.1			-5.9
1209901	68	-51.67	-57.9	-52.6	-50.2	1.47	7.7	2.4
1209952	10			-29.1	-28.3			0.8
1209954	172			-154.9	-156.1			-1.2
1210750	1			-70.4	-69.6			0.8
1210802	30			-104.2	-104.7			-0.5
1211553	52			-22.2	-24.3			-2.1
1212703	37			-38.2	-38.2			0

Carson County Ogallala Aquifer contour interval = 1 Foot



Carson County Ogallala Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
628102	23	-205.8		-205.2	-203.7	2.1		1.5
628402	27		-194.3	-201.0	-194.5		-0.2	6.5
628601	13	-59.4	-59.8	-61.8	-62.2	-2.8	-2.4	-0.4
628701	8	-258.5	-250.4	-251.7	-250.9	7.6	-0.5	0.8
628902	6	-143.2	-135.8	-144.1	-144.6	-1.4	-8.8	-0.5
629101	99		-55.5	-56.0	-55.9		-0.4	0.1
629601	83	-49.3	-55.2	-49.7	-49.4	-0.1	5.8	0.3
629703	35			-286.6	-281.1			5.5
629901	40	-82.3	-82.8	-81.7	-82.5	-0.2	0.3	-0.8
630101				-53.4	-23.8			29.6
630301	103	-150.1	-153.7	-150.6	-150.7	-0.6	3.0	-0.1
630302				-236.3	-225.3			11.0
630402				-121.1	-118.8			2.3
630901	57			-333.3	-333.3			0.0
631203	107	-307.9	-297.9	-298.3	-298.5	9.4	-0.6	-0.2
631301	109			-122.6	-122.6			0.0

Carson County Ogallala Wells Cont'd

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
631350	5			-256.6	-256.8			-0.2
631702	60	-277.1	-282.0	-278.0	-277.6	-0.5	4.4	0.4
631803	26			-394.9	-395.0			-0.1
631956	46			-224.6	-225.1			-0.5
631957	45			-327.7	-328.1			-0.4
632701	186			-392.0	-392.1			-0.1
632702	44	-414.5	-403.0	-401.7	-401.5	13.0	1.5	0.2
636154	1			-316.1	-316.7			-0.6
636201	19	-344.9	-354.3	-354.9	-355.2	-10.3	-0.9	-0.3
636605	16			-481.1	-483.1			-2.0
636606	16		-473.0	-481.1	-483.1		-10.1	-2.0
636608	25		-488.4	-498.0	-499.6		-11.2	-1.6
636610	24			-426.0	-426.0			0.0
636701	50			-468.0	-468.0			0.0
636702	50			-492.2	-448.0			44.2
636707	50			-466.0	-463.0			3.0

Carson County Ogallala Wells Cont'd (see map on page 8)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
636751	29			-494.3	-495.8			-1.5
636801	49	-490.3		-512.2	-516.3	-26.0		-4.1
636807	34			-507.0	-507.0			0.0
636809	47			-525.0	-513.0			12.1
636810	48			-547.5	-548.0			-0.5
636811	48			-525.0	-524.0			1.0
636812	48			-535.7	-535.7			0.0
636815	53	-490.9		-512.1	-513.3	-22.4		-1.2
636816	54			-538.3	-536.0			2.3
636817	54			-534.8	-534.0			0.8
636907			-490.0	-501.3	-501.0		-11.0	0.3
636909	45		-480.0	-490.0	-492.3		-12.3	-2.3
636910	36			-473.7	-471.0			2.7
636912	46		-525.0	-528.5	-529.0		-4.0	-0.5
636913	46		-489.0	-510.0	-510.0		-21.0	0.0
636914	46		-504.0	-533.0	-525.0		-21.0	8.0
636915	46		-568.0	-524.8	-524.8		43.2	0.0
636916	46		-502.0	-564.5	-562.2		-60.2	2.3
636919	45	-483.3	-496.1	-504.2	-508.6	-25.3	-12.5	-4.4
636920	36			-500.0	-523.0			-23.0
636921	36			-526.1	-526.0			0.0
636922	24		-465.0	-455.0	-455.0		10.0	0.0
637301	5	-267.6	-272.9	-272.5	-271.5	-3.9	1.4	1.0
637403	18	-448.0	-471.8	-452.4	-455.2	-7.2	16.6	-2.8
637405	22	-430.0	-444.9	-439.1	-440.4	-10.4	4.5	-1.3
637458	10			-421.7	-432.1			-10.4
637705	43	-467.4	-451.8	-452.2	-458.3	9.1	-6.5	-6.1
637903	87	-415.0	-419.2	-428.6	-423.6	-8.6	-4.4	5.0
637912	64			-402.6	-402.6			0.0
638101				-74.1	-73.4			0.7
638501	2	-373.6	-375.6	-383.2	-383.5	-9.9	-7.9	-0.3
638701	34	-405.8	-419.9	-415.5	-414.8	-9.0	5.1	0.7
638751	26		-421.5	-425.5	-425.9		-4.4	-0.4
638807	54	-396.7		-405.1	-404.5	-7.8		0.6
638811	56	-418.8		-425.1	-427.7	-8.9		-2.6
638815	34		-415.4	-418.3	-418.8		-3.4	-0.5
638913	59			-403.3	-402.6			0.7
638916	35		-404.6	-406.2	-408.1		-3.5	-1.9
639301	21	-417.3	-398.3	-397.8	-397.7	19.6	0.6	0.1
639501	27		-367.0	-368.8	-369.4		-2.4	-0.6
639707	50			-382.1	-382.8			-0.7
639855	48			-392.8	-396.2			-3.4
639909	42			-353.7	-353.4			0.3
639956	43			-365.7	-365.7			0.0
640404	23		-370.0	-365.6	-366.0		4.0	-0.4

Carson County Ogallala Wells Cont'd (see map on page 8)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
640408	238	-360.9	-373.1	-375.6	-370.5	-9.6	2.6	5.1
640765	236		-345.9	-326.2	-342.6		3.3	-16.4
644162	7			-477.3	-476.8			0.5
644203	54			-582.0	-579.6			2.3
644204	68			-476.0	-476.0			0.0
644205	68			-522.9	-525.2			-2.3
644206	68			-541.1	-534.1			6.9
644254	34			-481.0	-481.0			0.0
644304	66			-506.4	-506.0			0.4
644305	66			-472.0	-473.0			-1.0
644306	66			-471.0	-468.8			2.2
644311	20	-470.8	-478.3	-486.5	-485.5	-14.7	-7.2	1.0
644312	19	-490.0	-495.0	-501.6	-501.3	-11.4	-6.3	0.3
644315	3		-440.2	-444.9	-445.3		-5.1	-0.4
644608	15	-447.4	-418.1	-424.0	-429.3	18.1	-11.2	-5.3
644656	15			-433.8	-434.8			-1.0
644701	59	-254.1	-253.1	-251.7	-251.4	2.7	1.7	0.3
644767	46			-264.2	-265.8			-1.6
644768	3			-272.0	-271.4			0.6
644851	41			-272.7	-275.4			-2.7
644853	30			-304.1	-302.9			1.2
644958	24			-297.8	-297.6			0.2
644959	25			-220.8	-220.6			0.2
645102	63	-430.0	-431.2	-435.8	-434.9	-4.9	-3.7	0.9
645104	65			-419.5	-421.1			-1.6
645201	61	-412.4	-419.5	-423.9	-428.4	-16.0	-8.9	-4.5
645210	16			-433.5	-434.6			-1.1
645305	67			-431.7	-431.8			-0.1
645510	13			-423.0	-423.2			-0.2
645513	15			-435.7	-435.7			0.0
645611	80	-409.8	-414.0	-415.9	-416.4	-6.6	-2.4	-0.5
645701	27	-385.1	-386.9	-387.6	-387.9	-2.8	-1.0	-0.3
645804	7	-323.1	-323.8	-324.4	-324.4	-1.3	-0.6	0.0
645902	74	-409.2		-392.1	-392.2	17.0		-0.1
646162	22			-376.7	-375.4			1.3
646205	77		-418.0	-419.5	-419.8		-1.8	-0.3
646302	81	-357.5	-365.2	-371.2	-371.8	-14.3	-6.6	-0.6
646504	100			-382.3	-382.1			0.2
646552	121			-354.2	-354.5			-0.3
646701	44	-373.2	-394.5	-378.5	-364.8	8.4	29.7	13.7
646757	43			-375.4	-374.4			1.0
646904	140			-361.8	-362.6			-0.8
647205	69	-373.0	-378.2	-377.8	-378.3	-5.3	-0.1	-0.5
647308	86	-299.5	-298.9	-298.6	-298.3	1.2	0.6	0.3
647401	116	-341.6	-346.7	-348.7	-352.7	-11.1	-6.0	-4.0

Carson County Ogallala Wells Cont'd (see map on page 8)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
647554	128			-320.9	-306.7			14.2
647604	131	-304.9	-315.9	-316.7	-317.5	-12.7	-1.6	-0.8
647806	150			-352.4	-353.0			-0.6
648102	247		-350.0	-351.6	-352.0		-2.0	-0.4
655156	191			-371.1	-373.0			-1.9

Donley County Ogallala Wells (see map on page 11)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
549604	21	-239.93	-237.5	-237.8	-237.3	2.63	0.2	0.5
549708	21		-316.8	-319.6	-318.3		-1.5	1.3
549953	2			-209.9	-213.6			-3.7
550502	25		-130.7	-131.5	-130		0.7	1.5
550701	2	-113.62	-119	-117.2	-112.9	0.72	6.1	4.3
550801	4			-107.6	-105.3			2.3
550903	30	-121.1	-120.7	-109.6	-116.5	4.6	4.2	-6.9
551715	9		-114.4	-112.6	-112.1		2.3	0.5
552851	12			-124.1	-120.4			3.7
557502	11	-95.85	-96.3	-98.2	-96.6	-0.75	-0.3	1.6
557512	13		-38.7	-47.6	-46.6		-7.9	1
557803	4	-88.74		-87.1	-87.4	1.34		-0.3
558101	37			-107	-107.6			-0.6
558303	19	-46.87	-32.5	-36.2	-33.9	12.97	-1.4	2.3
558403	22		-177	-153.1	-141.1		35.9	12
559403	15	-75.87	-75.9	-84.9	-85.6	-9.73	-9.7	-0.7
656506	41		-274	-346.6	-353.1		-79.1	-6.5
656603	32			-305.2	-306.1			-0.9
664501	1		-112.8	-112.8	-114.5		-1.7	-1.7
664811	2	-90.39	-95.2	-94.9	-96.3	-5.91	-1.1	-1.4
664951	3			-62.7	-63			-0.3
1108101	10			-100.4	-94.6			5.8
1108201	1	-108.27	-122.7	-125.2	-130.3	-22.03	-7.6	-5.1
1108203	38			-39.2	-37.2			2
1108308	3	-59.1	-63.2	-63.5	-66.1	-7	-2.9	-2.6
1108309	17			-78.3	-71.6			6.7
1108312	4		-67.9	-70.2	-70.2		-2.3	0
1108357	17			-99.5	-97.2			2.3
1201101	7	-91.54		-94.7	-95.5	-3.96		-0.8
1201102	13	-31.22	-34.2	-33.9	-33.6	-2.38	0.6	0.3
1201107	10			-46.5	-46.5			0
1201131	15	-44.94	-50.6	-60.2	-57.3	-12.36	-6.7	2.9
1201301	2		-40.3	-47.7	-39.2		1.1	8.5
1201306	25	-38.7	-40.4	-44.7	-46.3	-7.6	-5.9	-1.6

Donley County Ogallala Wells Cont'd (see map on page 11)

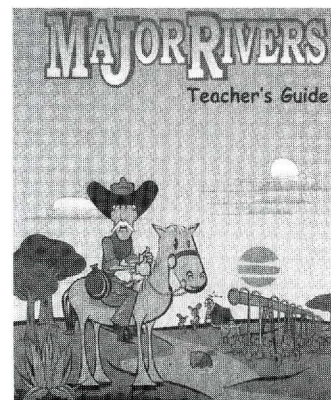
Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
1210307	89			-44.4	-40.5			3.9
1210310	90		-19	-24	-29.8		-10.8	-5.8
1210353	87		-14.9	-17.4	-19.6		-4.7	-2.2
1210401	166	-115.17	-115.9	-115.9	-116	-0.83	-0.1	-0.1
1210504	35	-87.01	-90.1	-100.6	-93	-5.99	-2.9	7.6
1210508	143			-25.1	-24.7			0.4
1210513	152			-116.2	-116.2			0
1211207	27	-86.54	-88.5	-101.6	-115	-28.46	-26.5	-13.4
1211310	95	-76.98	-72.45	-73.3	-77	-0.02	-4.55	-3.7
1211353	87		-103.9	-103.5	-103.6		0.3	-0.1
1211404	133	-190.75	-191.2	-195.3	-193.9	-3.15	-2.7	1.4
1211508	72	-166.73	-166.6	-167.6	-167.4	-0.67	-0.8	0.2
1212104	96		-189.9	-136.1	-122.9		67	13.2
1212203	83			-97	-98.6			-1.6
1212552	80			-60.4	-60.7			-0.3

PGCD OFFERS "MAJOR RIVERS" PROGRAM TO DISTRICT FOURTH GRADERS

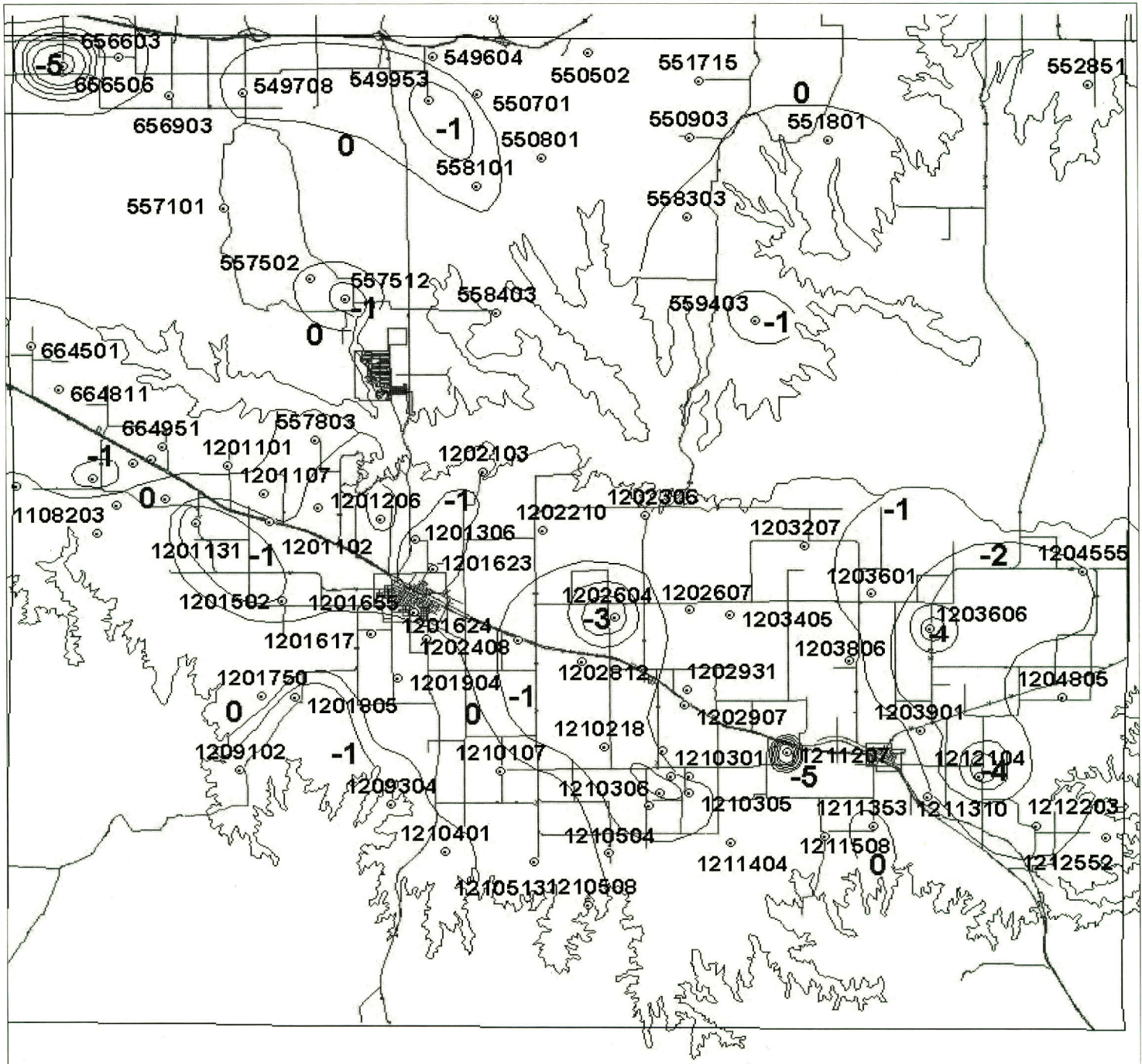
The Panhandle Groundwater Conservation District will be offering the "Major Rivers" program to schools throughout the District, this year. This study is designed to give fourth graders the opportunity to learn about our water. The program will compliment the fifth grade program, started back in 1999, to promote water education and conservation practices.

"Major Rivers" is a TEKS affiliated, two-week course that includes teacher lesson plans, student worksheets, and both fun and educational experiments to be taught by the homeroom teacher. "Major Rivers" and his horse, "Aquifer," will take students through seven lessons ranging from the explaining the water cycle to the importance of conserving our precious resource.

Bart Wyatt, Director of Education, will be sending fourth grade teachers throughout the District a letter further explaining the purpose of "Major Rivers" and how they can obtain a teacher's packet for their students. If you are an interested fourth grade teacher, please call our office at 806/883-2501.



Donley County Ogallala Aquifer *contour interval = 1 Foot*

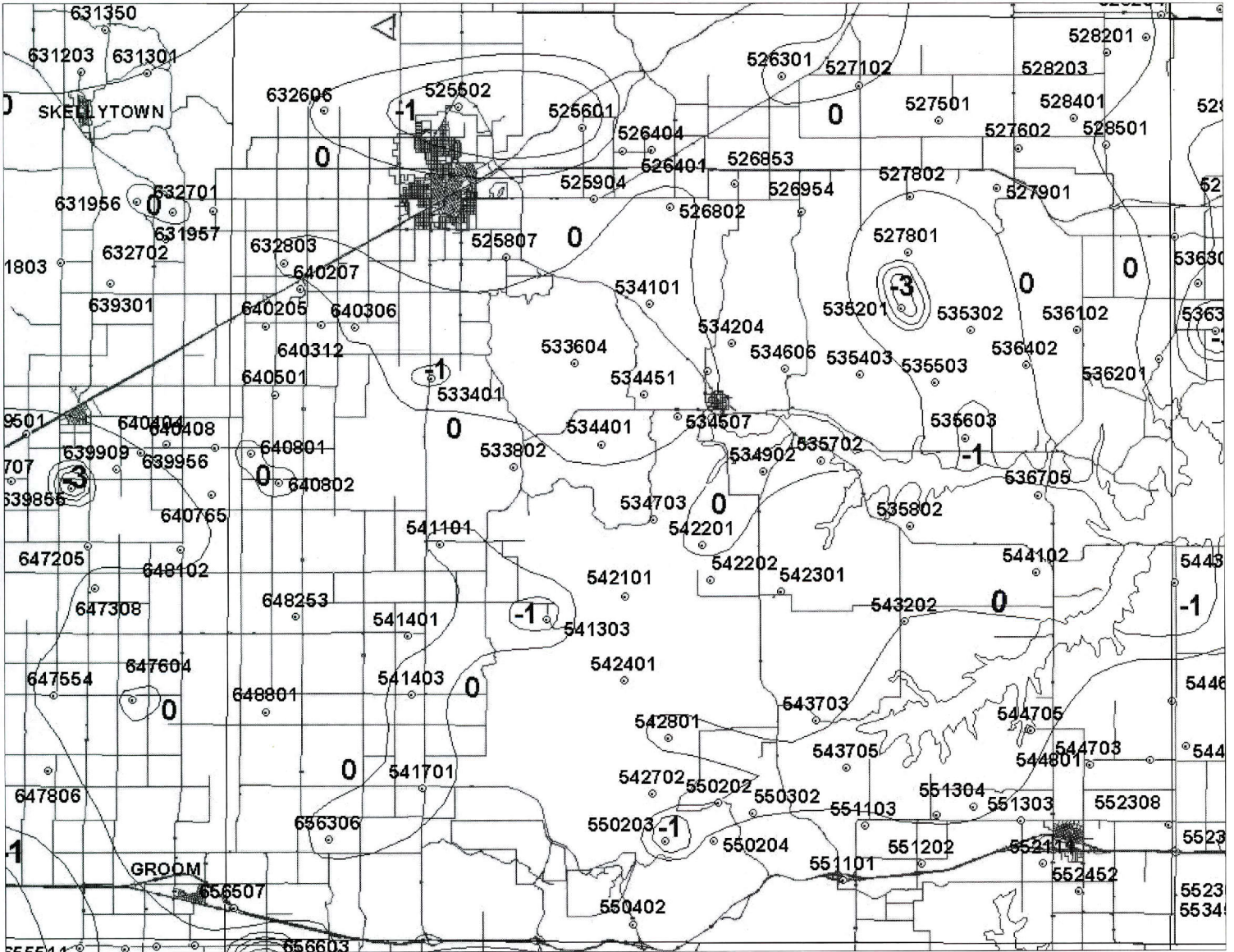


WATER CONSERVATION IMPLEMENTATION TASK FORCE ACTIVITIES

The Water Conservation Implementation Task Force (Task Force) members were appointed by the Texas Water Development Board (TWDB) in September 2003 to fulfill the mandate of Senate Bill 1094, 78th Legislature, to review, evaluate, and recommend optimum levels of water use and conservation for the State. The Task Force is developing a best management practices (BMP) guide and will create a draft legislative report by its November 1, 2004 deadline. The Task Force is accepting public comment through August 24, 2004, on the final draft BMPs. The Regional Water Planning Groups and political subdivisions responsible for water delivery will use this guidebook to plan water conservation efforts.

The Task Force has drafted a plan to establish a statewide public awareness program for water conservation, recommended a gallon per capita per day (GPCD) methodology, and has adopted recommendations regarding the task of establishing per capita water use targets and goals. It has also recommended that the Texas Legislature establish a Water Conservation Advisory Council to provide ongoing support of statewide conservation activities and updates to the BMP Guide. C. E. Williams, general manager of Panhandle Groundwater Conservation District, serves on the Task Force Committee. For more details on these recommendations, visit TWDB's website at <http://www.twdb.state.tx.us/assistance/consrvation/taskforce.as>.

Gray County Ogallala Aquifer *contour interval = 1 Foot*



Gray County Quartermaster Well

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
535705			-42.4	-39.1	-40		2.4	-0.9

Gray County Ogallala Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
525502	93	-348.02	-352.9	-349.2	-358.7	-10.68	-5.8	-9.5
525601	45			-368.7	-370.3			-1.6
525807	80			-370.6	-371.4			-0.8
525904	42		-364.7	-364.3	-363.9		0.8	0.4
526301	186		-358.7	-361	-361.6		-2.9	-0.6
526401	29		-372.1	-370.5	-370.5		1.6	0
526404	20		-367.4	-367.4	-367.4		0	0

Gray County Ogallala Wells Cont'd

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
526802	18		-355.2	-356.7	-355.4		-0.2	1.3
526853	217		-364.7	-363.8	-362.6		2.1	1.2
526954	146			-368	-366.7			1.3
527102	142	-357.22	-359.4	-360.1	-360.3	-3.08	-0.9	-0.2
527501	111	-348.95	-349.8	-349.5	-349.2	-0.25	0.6	0.3
527602	53	-337.47	-332.1	-331.9	-332	5.47	0.1	-0.1
527801	57		-131.5	-134	-136.1		-4.6	-2.1
527802	116	-355.32	-338.1	-337.1	-338.2	17.12	-0.1	-1.1
527901	81	-354.78	-340	-339.4	-339.4	15.38	0.6	0
528201	2	-352.18	-347	-344.8	-345.7	6.48	1.3	-0.9
528203	22			-342.6	-339.7			2.9
528401	24	-327.93	-329.7	-334.2	-329.3	-1.37	0.4	4.9
528501	2	-283.18	-282.95	-283.3	-283.6	-0.42	-0.65	-0.3

Gray County Ogallala Wells Cont'd (see map page 12)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
533401	108			-346.7	-347.5			-0.8
533604	60			-78.7	-78.6			0.1
533802	94	-206.63	-207.7	-208.4	-205.4	1.23	2.3	3
534101	15			-140.5	-140.7			-0.2
534204	2	-192.64	-198.3	-196.1	-194.4	-1.76	3.9	1.7
534401	57			-121.6	-119.3			2.3
534451	30			-109.2	-109.4			-0.2
534507	2			-32.9	-34.2			-1.3
534508	1	-59.16	-58.9	-59.1	-59.4	-0.24	-0.5	-0.3
534606	1	-73.67	-72.6	-72.4	-71.6	2.07	1	0.8
534703	25	-74.96	-76	-75	-75.1	-0.14	0.9	-0.1
534902	8	-71.17	-70.2	-70.5	-72.9	-1.73	-2.7	-2.4
535201	33		-118.2	-131.1	-133.6		-15.4	-2.5
535302	18	-16.01	-14.7	-15	-15.6	0.41	-0.9	-0.6
535403	11	-126.49	-125	-124.8	-123.7	2.79	1.3	1.1
535503	8	-76.92	-75.2	-76.4	-76	0.92	-0.8	0.4
535603	14	-77.48	-72.3	-75.8	-80.1	-2.62	-7.8	-4.3
535702	10	-24.49	-22.7	-23.9	-24.6	-0.11	-1.9	-0.7
535802	52	-120.27	-120.1	-123.9	-118.2	2.07	1.9	5.7
536102	21	-166.08	-165.6	-164	-164.4	1.68	1.2	-0.4
536201	24	-149.42	-147.7	-148	-147.9	1.52	-0.2	0.1
536402	5	-9.23	-8.7	-7.9	-8.8	0.43	-0.1	-0.9
536705	65	-5.99	-5.7	-4.8	-5.7	0.29	0	-0.9
541101	127	-366.77	-369.6	-370.2	-370.3	-3.53	-0.7	-0.1
541303	69	-339.17	-339.85	-348.1	-347.5	-8.33	-7.65	0.6
541401	141	-325.56	-331.9	-324.6	-323.7	1.86	8.2	0.9
541403	140	-293.48	-294.7	-298.1	-296.8	-3.32	-2.1	1.3
541701	135	-262.86	-263.4	-261.3	-263.9	-1.04	-0.5	-2.6
542101	38	-268	-281.6	-262.7	-262.6	5.4	19	0.1
542201	25	-134.69	-130.5	-134.8	-134.5	0.19	-4	0.3
542202	26	-272.29	-282.3	-252.4	-262	10.29	20.3	-9.6
542301	28	-140.52	-142.2	-139.4	-141.1	-0.58	1.1	-1.7
542401	41	-198.17	-208.7	-202.3	-199.5	-1.33	9.2	2.8
542702	16	-145.11	-148.9	-145.1	-145.7	-0.59	3.2	-0.6
542801	3	-81.68		-82	-82.1	-0.42		-0.1
543202	29	-112.88	-112.9	-116.6	-112.5	0.38	0.4	4.1
543703	4	-21.46	-16.8	-26.6	-16.3	5.16	0.5	10.3
543705	2	-105.8	-103.8	-107.4	-104	1.8	-0.2	3.4
544102	45	-140.02	-139.1	-143.6	-138.7	1.32	0.4	4.9
544610	120	-190.96	-184.9	-186.7	-182.3	8.66	2.6	4.4
544703	92	-129.58	-127.6	-131.3	-125.2	4.38	2.4	6.1
544705	12	-64.81	-62.6	-62.4	-62.9	1.91	-0.3	-0.5
544801	115	-114.4	-114.3	-111.4	-110.9	3.5	3.4	0.5
550202	24	-24.04	-25.7	-24.8	-25.7	-1.66	0	-0.9
550203	4	-57.77	-58.4	-59.8	-65.5	-7.73	-7.1	-5.7

Gray County Ogallala Wells Cont'd (see map page 12)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
550204	5	-53.13	-55.8	-49.4	-48.6	4.53	7.2	0.8
550302	8	-88.68	-86.1	-87.1	-87.3	1.38	-1.2	-0.2
550402	18		-146.2	-149.1	-144.1		2.1	5
551101	181	-218.04	-216.3	-218.4	-213.6	4.44	2.7	4.8
551103	29	-137.39	-134.7	-133.9	-134.4	2.99	0.3	-0.5
551202	37	-194.69	-191.7	-189.1	-188.9	5.79	2.8	0.2
551203	34	-149.69	-150.2	-150.4	-150.7	-1.01	-0.5	-0.3
551303	32	-118.02	-107.6	-105.3	-106.3	11.72	1.3	-1
551304	33	-76.89	-70.5	-71.25	-72.1	4.79	-1.6	-0.85
552111	189	-116.44	-116.3	-104.6	-104.3	12.14	12	0.3
552308	68	-98.57	-102.3	-100.4	-100.6	-2.03	1.7	-0.2
552452	49			-108.2	-105.9			2.3
632606	148	-364.91	-363.7	-362.6	-364.1	0.81	-0.4	-1.5
632803	160	-394.16	-393.7	-394.1	-394.3	-0.14	-0.6	-0.2
640205	179	-385.69	-389.8	-386.8	-387.1	-1.41	2.7	-0.3
640207	160			-393.6	-392.9			0.7
640306	134		-401.8	-402.2	-402.8		-1	-0.6
640312	155			-405	-404.7			0.3
640501	210	-367.98	-371.9	-371.6	-371.5	-3.52	0.4	0.1
640801	214		-367.2	-371.2	-370.9		-3.7	0.3
640802	206	-358.54	-356.8	-360.6	-361	-2.46	-4.2	-0.4
648253	202			-357.2	-355.9			1.3
648801	222	-281.57	-285.6	-284.8	-284.1	-2.53	1.5	0.7
656306	19	-276.79	-280.8	-278.4	-282.5	-5.71	-1.7	-4.1
656507	57	-299.44	-302.1	-297.7	-297.5	1.94	4.6	0.2

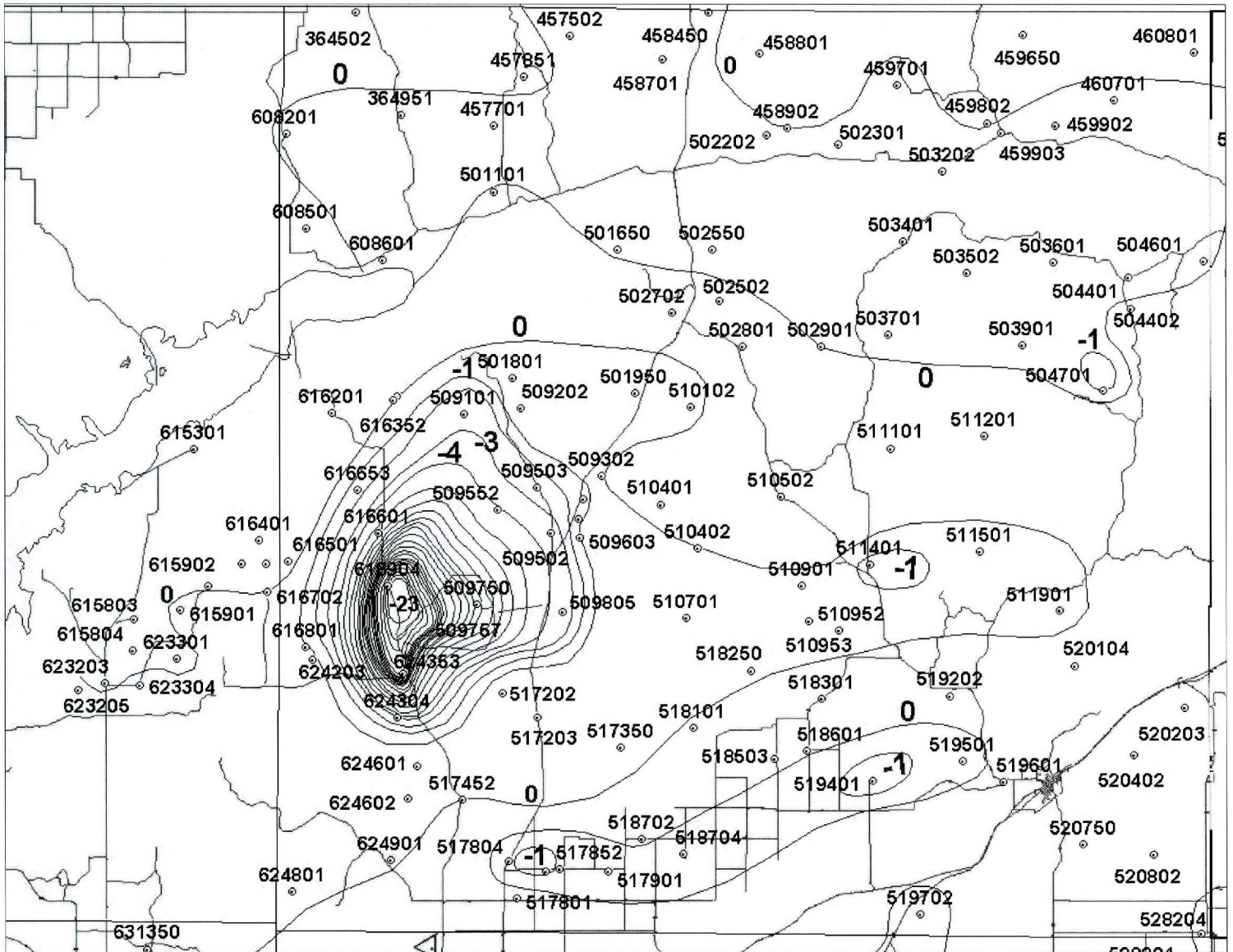
MASTER GARDENERS REALIZE IMPORTANCE OF CONSERVATION

Thanks to the help of Master Gardeners Maryon and Rosa Bilderback, the xeriscape garden at the Panhandle Groundwater Conservation District blossomed into a successful project. It was now time to return the favor. The Bilderbacks, members of the Master Gardeners of Amarillo, invited Bart Wyatt, Director of Education and Information, to speak about the District, its functions, and the importance of water conservation at the Master Gardeners' August meeting.

Around 45 members were present to see Bart's demonstrations and presentation of the programs and services provided to residents of the District. Not only was the audience shown the groundwater flow model and the amount of fresh water left in the world, but a few new slides of the District's rainwater harvesting system and xeriscape garden were included in the presentation. These new slides, along with slides of the precipitation enhancement program and an informational brochure on well registrations and permits, sparked many questions from the audience. This gave Bart a chance to delve into these areas of discussion with greater detail.

The Panhandle Groundwater Conservation District was happy to have the opportunity to speak at the Master Gardeners meeting and we wish this group much success.

Roberts/Hutchinson County Ogallala Aquifer *contour interval = 1 Foot*



Roberts County Alluvium Well

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
503202	188		-8.2	-9	-10.9		-2.7	-1.9

Roberts County Ogallala Wells Cont'd

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
458902	219			-117.3	-117.1			0.2
459650	36			-271.4	-270.7			0.7
459701	203	-52.31	-52.7	-53.8	-53.9	-1.59	-1.2	-0.1
459802	183	-77.45	-75	-76.1	-76.2	1.25	-1.2	-0.1
459902	171		-46.6	-47.5	-47.5		-0.9	0
459903	183		-39.7	-40.2	-40.5		-0.8	-0.3
460701	158		-96.2	-97	-97.3		-1.1	-0.3
460801	144	-186.81	-187.2	-186.9	-186.8	0.01	0.4	0.1
501101	23	-57.12	-58.05	-53.8	-54.3	2.82	3.75	-0.5
501650	8			-79.8	-80			-0.2
501801	16		-209	-209.3	-212.2		-3.2	-2.9
501950	1			-128.3	-128.1			0.2
502202	9			-68	-68.1			-0.1

Roberts County Ogallala Wells

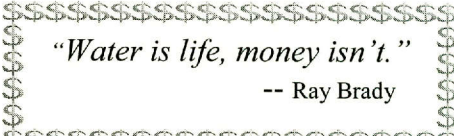
Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
364502	53	-432.2	-430.2	-413.6	-412.7	19.5	17.5	0.9
364951	30			-109.6	-110.1			-0.5
457502	154		-392.2	-395.1	-398		-5.8	-2.9
457701	19			-22	-22.6			-0.6
458450	159			-357.1	-357.5			-0.4
458701	133		-89.5	-96.6	-93.1		-3.6	3.5
458801	1		-397.8	-391.2	-391.7		6.1	-0.5

Roberts County Ogallala Wells Cont'd (see map page 14)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
502301	213			-58.5	-61			-2.5
502502	60		-108.2	-107.6	-107.8		0.4	-0.2
502550	4			-99.8	-100			-0.2
502702	4	-55.93	-54.1	-54.7	-55.9	0.03	-1.8	-1.2
502801	2			-6.7	-7.5			-0.8
502901		-132.83		-132.7	-133	-0.17		-0.3
503401	1			-99.1	-99.4			-0.3
503502	5		-29.5	-30	-30.5		-1	-0.5
503601	16		-84.6	-84.9	-85.4		-0.8	-0.5
503701		-85.52	-85.6	-85.9	-86.2	-0.68	-0.6	-0.3
503901	8		-64.7	-64.8	-65		-0.3	-0.2
504401	115		-99.5	-99.3	-99.3		0.2	0
504402	111		-166.9	-167.4	-166.5		0.4	0.9
504502			-115.1	-115.1	-115.6		-0.5	-0.5
504701	98	-320.78		-317.6	-324.1	-3.32		-6.5
509101	3	-43	-43.4	-53.8	-55	-12	-11.6	-1.2
509202	30		-240.2	-241.2	-243.2		-3	-2
509302	35		-184.5	-181.7	-181.1		3.4	0.6
509502				-282.6	-286.1			-3.5
509503				-251.4	-252.5			-1.1
509552	46			-83.2	-87.2			-4
509601	49			-231	-232.4			-1.4
509603	77	-185.62	-186.1	-186.3	-186.8	-1.18	-0.7	-0.5
509604	51			-180.2	-181.6			-1.4
509750	126		-283.49	-405	-414		-130.51	-9
509757	126		-283.33	-406.2	-415.3		-131.97	-9.1
509758	126		-279.03	-324.1	-330.9		-51.87	-6.8
509805			-302.25	-304.8	-308.1		-5.85	-3.3
510102	9		-129.4	-133	-129.5		-0.1	3.5
510401	56		-149.7	-148.2	-147.6		2.1	0.6
510402	25			-250.2	-251.4			-1.2
510502	68		-241.2	-242.1	-243.2		-2	-1.1
510701	27			-274.7	-274.7			0
510901	45	-155.6	-155.6	-155.7	-155.8	-0.2	-0.2	-0.1
510952	13			-344.6	-344.7			-0.1
510953	17			-184.5	-184.6			-0.1
511101	72	-283.09	-285.6	-285.3	-285.5	-2.41	0.1	-0.2
511201	88		-293.5	-292.5	-292.8		0.7	-0.3
511401	42		-339.3	-334.1	-346.3		-7	-12.2
511501	52		-306.8	-306.4	-306.5		0.3	-0.1
511901	25	-273.06	-276.2	-272.3	-272.5	0.56	3.7	-0.2
517202	108		-165.8	-167.2	-168.9		-3.1	-1.7
517203	97		-319.94	-321.1	-321.7		-1.76	-0.6
517350	69			-340	-340.5			-0.5
517452	137			-356.3	-356.4			-0.1

Roberts County Ogallala Wells Cont'd (see map page 14)

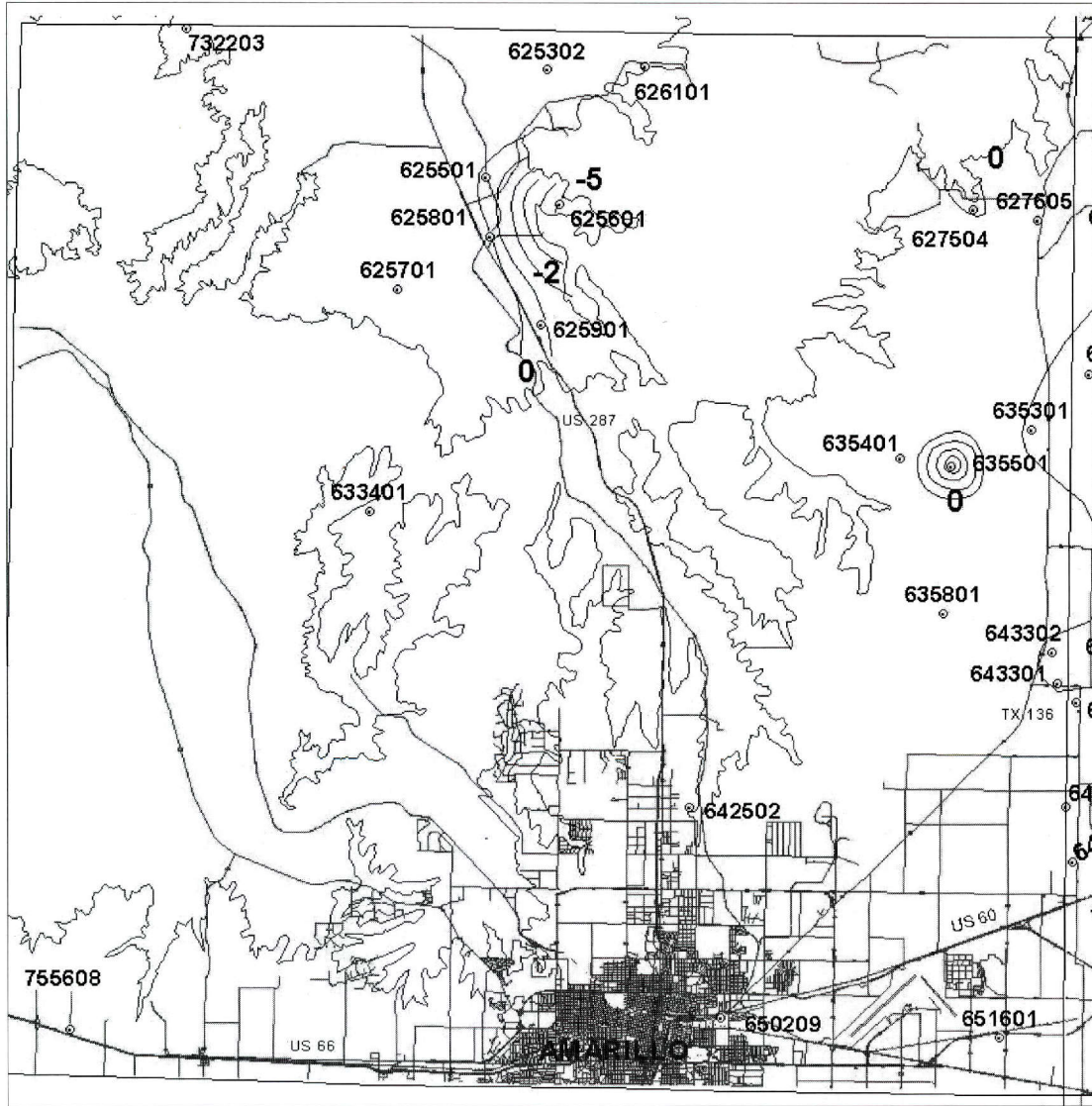
Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
517801	114		-394.9	-388.4	-388.9		6	-0.5
517802	91		-397.2	-400.7	-401.7		-4.5	-1
517804	113	-423.7	-395.1	-398.2	-399.2	24.5	-4.1	-1
517852	92			-406	-406.1			-0.1
517901	65		-391.1	-391.4	-394.4		-3.3	-3
518101	30		-324.2	-322.4	-322.1		2.1	0.3
518250	4			-334	-334.2			-0.2
518301	195	-363.18	-357.5	-358.1	-358	5.18	-0.5	0.1
518503	7		-386.2	-376	-375.6		10.6	0.4
518601	193	-366.95	-366.1	-364.3	-368.6	-1.65	-2.5	-4.3
518702	60	-387.61	-388.6	-388.8	-387.5	0.11	1.1	1.3
518704	35		-382	-385.6	-383		-1	2.6
519202	129		-377.2	-361.9	-361.3		15.9	0.6
519401	158		-325	-327.1	-328.5		-3.5	-1.4
519601	94	-117.98	-115.2	-113.5	-117.8	0.18	-2.6	-4.3
519702	139	-263.05	-257.4	-258.9	-259.5	3.55	-2.1	-0.6
520104	66	-142.23	-145.9	-141	-141.3	0.93	4.6	-0.3
520203	10	-112.83	-112.9	-110.6	-112	0.83	0.9	-1.4
520402	33		-285.6	-286.6	-286.5		-0.9	0.1
520750	43			-291.9	-291.8			0.1
520802	18		-251.1	-243.3	-243.2		7.9	0.1
528204	2		-347.9	-348.9	-349.5		-1.6	-0.6
608201	184	-167.74	-171.5	-173.8	-173	-5.26	-1.5	0.8
608501	3	-58.61	-63.8	-62.6	-62.8	-4.19	1	-0.2
608601	36	-7.78	-4.8	-6.2	-6	1.78	-1.2	0.2
616201	2			-144.5	-143.4			1.1
616301	7	-175.33	-176.7	-176.1	-178.5	-3.17	-1.8	-2.4
616352	7			-179.8	-179.2			0.6
616501	206			-216.5	-215			1.5
616601			-215.93	-222	-227.9		-11.97	-5.9
616653				-228.3	-229.2			-0.9
616801	203		-214.3	-219.5	-215.2		-0.9	4.3
616904	156		-224.7	-261.2	-291.5		-66.8	-30.3
624203	202		-240.4	-241	-241.3		-0.9	-0.3
624304	159		-279.28	-283.1	-287.2		-7.92	-4.1
624353			-295.11	-315.65	-362.1		-66.99	-46.45
624357	159		-294.96	-316.5	-362.7		-67.74	-46.2
624358	159		-292.98	-298	-304		-11.02	-6
624601	147		-200.5	-201.4	-201.8		-1.3	-0.4
624602	163			-323.4	-323.9			-0.5
624801	195		-110.3	-115	-111.1		-0.8	3.9
624901	165		-354.6	-355.5	-355.2		-0.6	0.3



"Water is life, money isn't."

 -- Ray Brady

Potter County Ogallala Aquifer *contour interval = 1 Foot*



Potter County Ogallala Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
625302	63			-91	-91			0
625501	10	-76.84	-78.47	-79.4	-79.5	-2.66	-1.03	-0.1
625601	108			-235.5	-241			-5.5
625701	56			-156.1	-153.4			2.7
625801	81	-87.48	-85.53	-86.9	-87.2	0.28	-1.67	-0.3
625901	12			-165.5	-166.5			-1
626101	90			-30.4	-30.7			-0.3
627605	37			-114.4	-111			3.4
635301	27		-295.4	-297.5	-298.2		-2.8	-0.7
635401	22			-282.1	-281.3			0.8
635501	22			-310.1	-310.5			-0.4
635801	18			-135.2	-133.5			1.7
642502	162			-78.4	-81.2			-2.8
643301	48			-489.6	-488.2			1.4
643302	48	-458.76		-467	-469	-10.24		-2

Potter County Ogallala Wells Cont'd

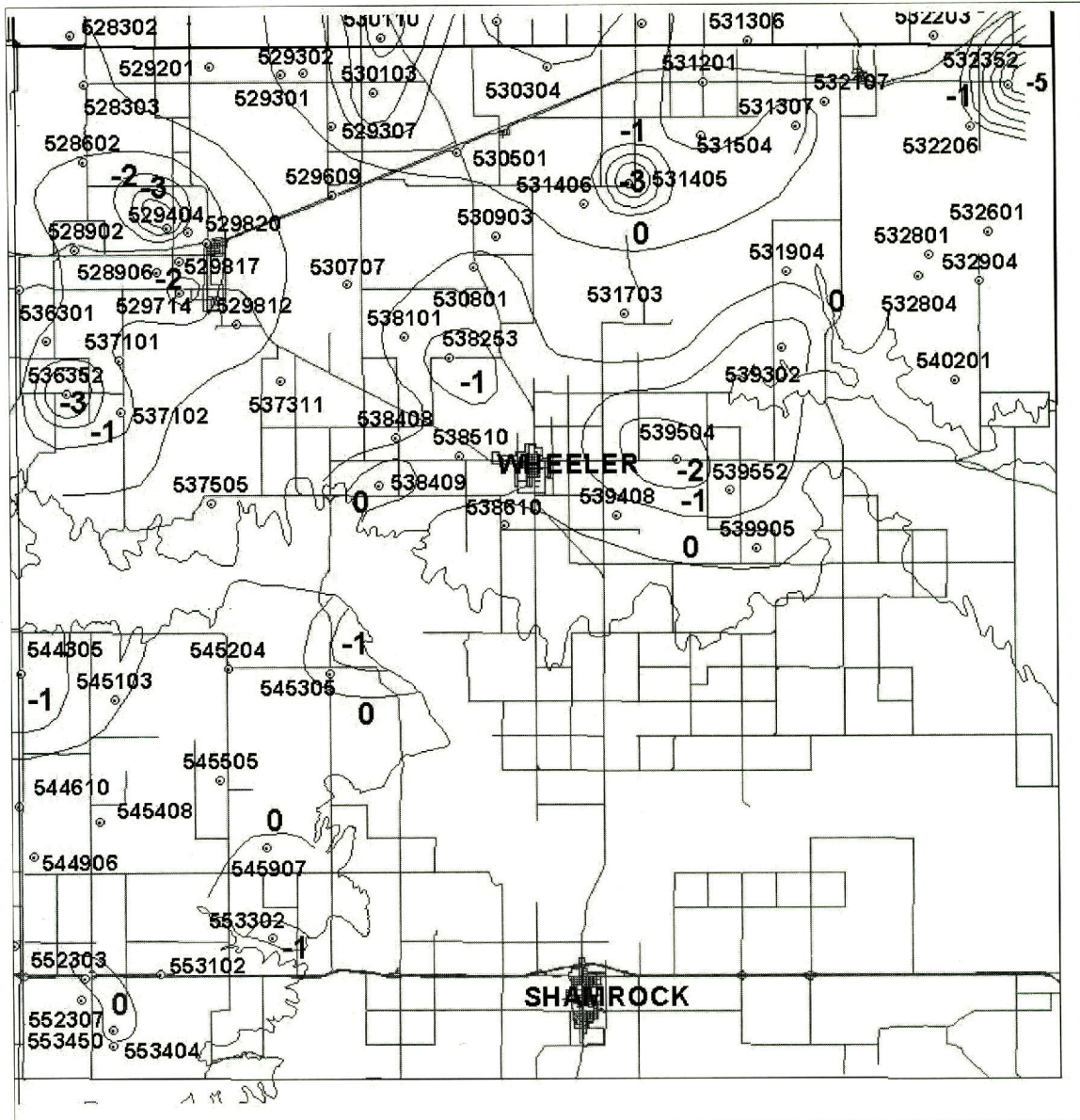
Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
644452	1			-301.7	-300.6			1.1
650209	137			-216	-232.6			-16.6
651601	30			-196.1	-196.1			0
755608	9			-254	-254.8			-0.8

Would you like to become a raingauge cooperater? We will provide the gauge, cards and postage.
We just need you to report the rainfall.

If you want to help, please contact Ray Brady at (806) 883-2501



Wheeler County Ogallala Aquifer *contour interval = 1 Foot*



Wheeler County Ogallala Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
528303	3			-297.3	-297.6			-0.3
528602	88	-107.49	-103.1	-107.6	-108.2	-0.71	-5.1	-0.6
528902	69	-27.1	-19.7	-27.2	-29	-1.9	-9.3	-1.8
528906	51			-167	-167.3			-0.3
529201	4	-143.63	-143.2	-141	-142.7	0.93	0.5	-1.7
529301	79	-121.9	-123.3	-123.1	-123.6	-1.7	-0.3	-0.5
529302	74		-131	-117.6	-110.8		20.2	6.8
529307	100	-120.12	-119.9	-118.6	-120.4	-0.28	-0.5	-1.8
529404	66			-60.7	-65.4			-4.7
529609	79		-57.9	-58.2	-57.5		0.4	0.7
529714	55		-2.9	-1.8	-4.4		-1.5	-2.6
529812	37		-21.6	-20.1	-24.3		-2.7	-4.2

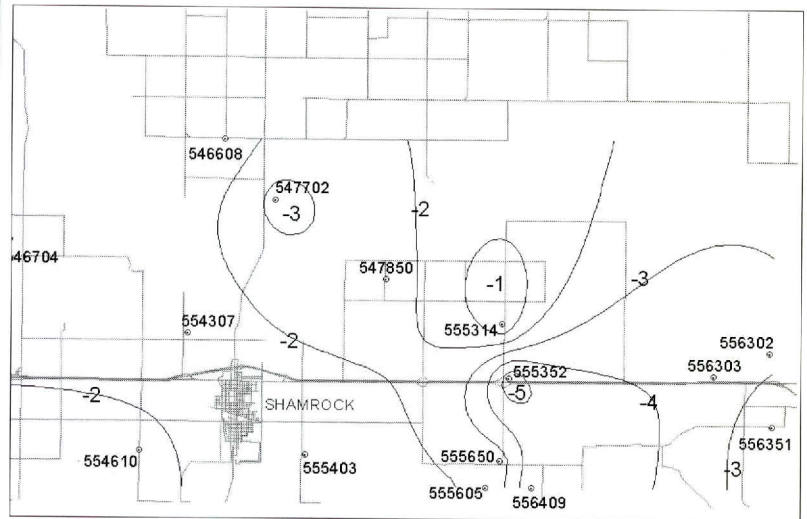
Wheeler County Ogallala Wells Cont'd

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
529817	55	-64	-67.7	-65.1	-68.6	-4.6	-0.9	-3.5
529818	46			-56.1	-61.8			-5.7
529820				-75.3	-75.3			0
529821	66		-66.6	-67.3	-70.5		-3.9	-3.2
530103	64			-73.4	-78			-4.6
530304	34			-86.8	-87.9			-1.1
530501				-107	-107.1			-0.1
530707	60			-12.6	-9.8			2.8
530801		-65.17	-64.6	-64.9	-65.1	0.07	-0.5	-0.2
530903	59			-75.1	-76.6			-1.5
531201		-110.1	-110.3	-108.3	-107.8	2.3	2.5	0.5
531307	25			-49.7	-50.3			-0.6

Wheeler County Ogallala Wells Cont'd (see map page 17)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
531405	11			-10.7	-14.4			-3.7
531406	9	-80.9		-78.6	-79.4	1.5		-0.8
531504	18			-33.2	-33.2			0
531703	43	-98.95	-99.3	-94.3	-94.4	4.55	4.9	-0.1
531904	4			-51.5	-50.4			1.1
532107	20		-50.8	-50	-50.5		0.3	-0.5
532206	29	-71.39	-69.6	-64.5	-64.4	6.99	5.2	0.1
532352	26			-98.4	-103.7			-5.3
532601	10			-65.7	-64.3			1.4
532801	44		0	-0.6	-0.2			0.4
532804	44		-18	-16.9	-16.6		1.4	0.3
532904	3			-70.8	-60.9			9.9
536301	31			-132.2	-133.6			-1.4
536352	12			-48.5	-52.1			-3.6
537101	28			-78.8	-80.2			-1.4
537102	13			-54.1	-55.6			-1.5
537311	23		-22.8	-21.6	-22.5		0.3	-0.9
537505	26	-61.96		-61.6	-59	2.96		2.6
538101	32		-4.5	-4.4	-5.7		-1.2	-1.3
538253	33			-92	-93.2			-1.2
538408	10	-91.3	-98.5	-95.2	-89.3	2	9.2	5.9
538409	56	-74.15	-71.6	-73.7	-80.4	-6.25	-8.8	-6.7
538510	8		-29.2	-28.2	-30.4		-1.2	-2.2
538610	51	-66.72	-63.4	-62.2	-61.9	4.82	1.5	0.3
539408	4	-6.51	-6.3	-5.2	-7.5	-0.99	-1.2	-2.3
539504				-40.8	-43.7			-2.9
539905	9	-34.15	-35.5	-33.2	-37.4	-3.25	-1.9	-4.2
540201	23		-7.3	-17.2	-5.9		1.4	11.3
544305	31	-86.5	-78.9	-84.7	-84.8	1.7	-5.9	-0.1
544906	114		-109.1	-106.7	-107		2.1	-0.3
545103	33		-6.7	-6.5	-7.3		-0.6	-0.8
545204	37	-115.62	-126.9	-114.3	-116.8	-1.18	10.1	-2.5
545305	40	-75.88	-72.6	-72	-77.4	-1.52	-4.8	-5.4
545408	123	-115.9	-110.3	-105.4	-106.1	9.8	4.2	-0.7
545505	5	-103.19	-100.6	-99.2	-98.5	4.69	2.1	0.7
545907	101		-42.5	-44.6	-44.1		-1.6	0.5
552303	61	-44.85	-39.7	-40.2	-41.3	3.55	-1.6	-1.1
552307	61	-77.67		-73	-72.7	4.97		0.3
553102	23	-63.91	-65.8	-58.2	-59.5	4.41	6.3	-1.3
553302	81		-16.6	-20.8	-22.2		-5.6	-1.4
553404	24		-36.4	-7.2	-7.9		28.5	-0.7
553450	45			-38.3	-38.7			-0.4

Seymour & Blaine Aquifers
contour interval = 1 Foot



Wheeler County Seymour Wells (see map above)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
555314	53		-78.9	-71.4	-73		5.9	-1.6
555352				-51.8	-57.5			-5.7
555650				-32.6	-35.1			-2.5
556409	27		-103	-44.9	-49.8		53.2	-4.9

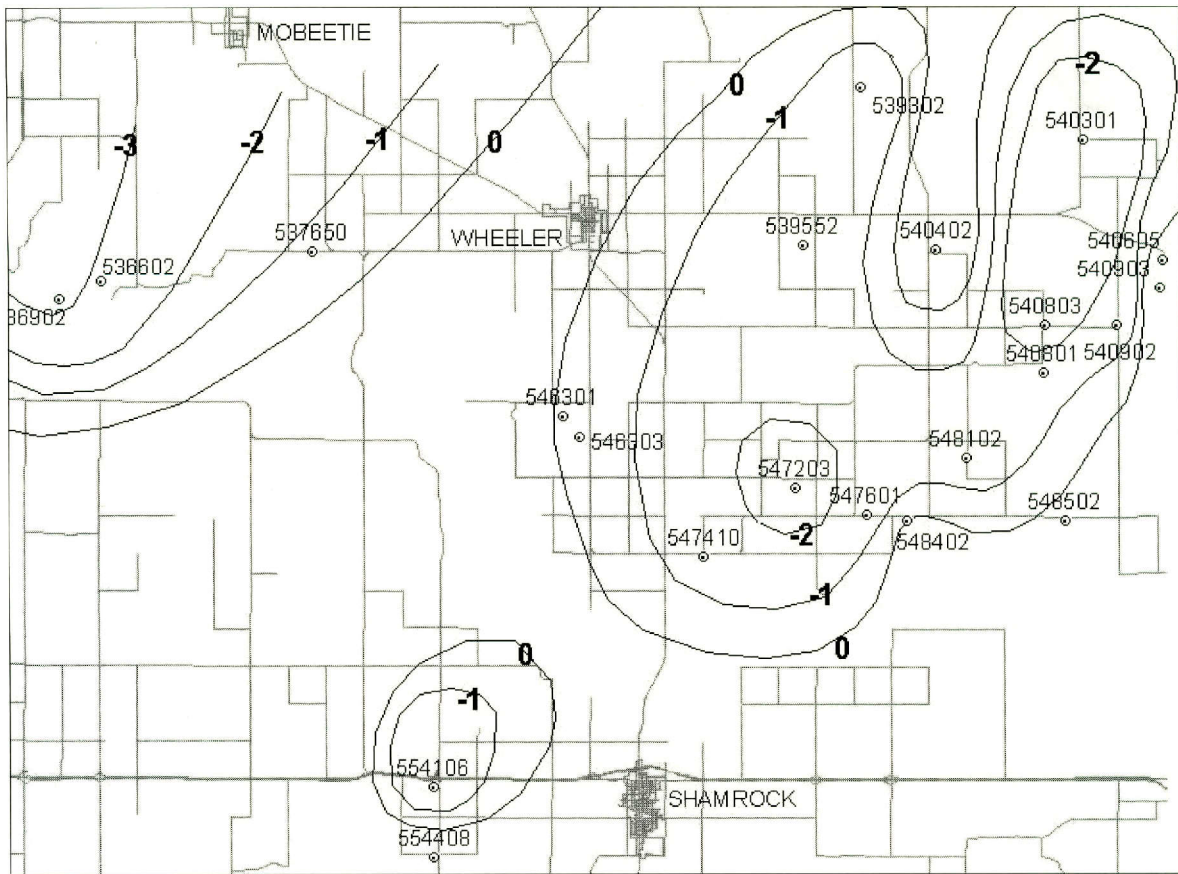
Wheeler County Blaine Wells (See map above)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
546704	90		-89.5	-94.5	-98.2		-8.7	-3.7
547850				-89.9	-92.5			-2.6

Wheeler County Seymour/Blaine Wells (See map above)

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
546608	4		-19.5	-23.6	-24.8		-5.3	-1.2
547702	98		-30.3	-37.8	-47.2		-16.9	-9.4
554307	65			-44.9	-46.1			-1.2
554610	35		-29.7	-42.5	-41.5		-11.8	1
555403	39		-74	-90.6	-79.6		-5.6	11
555605	28			-83.1	-85.3			-2.2
556302	60			-3.8	-7.1			-3.3
556303	59			-32.5	-36.3			-3.8
556351	41			-58.2	-60.2			-2

Whitehorse & Other Permian Aquifers *contour interval = 1 Foot*



Wheeler County Ogallala/Whitehorse Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
539302	33			-49.6	-51.3			-1.7
539552	2			-24.4	-26			-1.6

Wheeler County Ogallala/Whitehorse Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
547410	2		-21.1	-25.7	-27.6		-6.5	-1.9
547601	28			-49.7	-51.1			-1.4
548102	36		-40.2	-44.6	-46.9		-6.7	-2.3
548402	14		0	0	0			
548502	18		-31.1	-32.7	-32.7		-1.6	0
554106	50		-47.6	-55.3	-55.1		-7.5	0.2
554408	30		-85	-83.9	-83.1		1.9	0.8

Wheeler County Whitehorse Wells

Well #	Section	Depth to Water in Feet				Water Level Variation		
		1994	1999	2003	2004	10 Yr	5 Yr	1 Yr
536602	23		-9.5	-36.4	-38.2		-28.7	-1.8
536902	9			-5.6	-38.4			-32.8
537650	28		-7	-7.7	-7.9		-0.9	-0.2
540301	19		-34.7	-34.6	-47.2		-12.5	-12.6
540402	2			-29.5	-27.6			1.9
540605	21		-50.5	-43.8	-44.4		6.1	-0.6
540801	52			-19.1	-25.4			-6.3
540803	60			-9.1	-20.9			-11.8
540902	62			-35.2	-39.8			-4.6
540903	21		-68	-63.2	-61.6		6.4	1.6
546301	34		-7.5	-9.1	-11.1		-3.6	-2
546303	35		-8.9	-8.3	-10.1		-1.2	-1.8
547203	30	-18.49	-19.8	-23.2	-27.6	-9.11	-7.8	-4.4



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WATER WELL DRILLERS ATTEND INFORMATIONAL MEETING

Water well drillers operating within the boundaries of the Panhandle Groundwater Conservation District were treated to a barbeque lunch on July 7, 2004. The purpose of the luncheon was to promote knowledge and understanding of the changes to the District Rules, which were adopted on May 26, and to demonstrate the ease of compliance.

A portion of the changes addressed were new spacing rules, permits vs. registrations, the permit timeframe, and the basic reasons for changing the Rules. A question and answer period followed.

General Manager C. E. Williams said, "I think that this was a very productive meeting, fostering cooperation between the water well drillers and the District."



C.E. addressed water well drillers at Driller's Barbeque Luncheon July 7, 2004