

# **Results of Aquifer Test Analysis**

for the

## **Center Point Taylor**

### **Well No. 4 - Lower Trinity Aquifer**

**(HGCD Permit No. P0037; HGCD Well No. 1104)**

for

**Aqua Texas, Inc.**

512 Rodriguez Street

Kerrville, TX 78028

WRGS Project No. 006-008-09

March 17, 2010



**Wet Rock Groundwater Services, L.L.C.**

*Groundwater Specialists*

TBPG Firm No: 50038

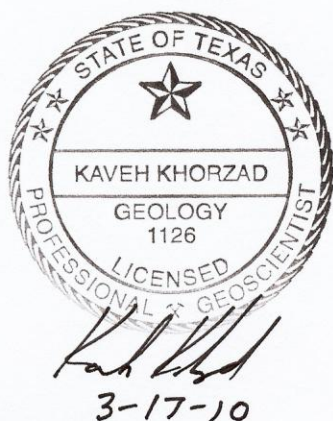
P.O. Box 163144

Austin, Texas 78716

Ph: 512-773-3226 Fax: 512-879-6809

[www.wetrockgs.com](http://www.wetrockgs.com)

The seal appearing on this document was authorized on March 17, 2010 by:



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Kaveh Khorzad, P.G.  
License No. 1126

Wet Rock Groundwater Services, LLC  
TBPG Firm Registration No. 50038



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**Aqua Texas, Inc.**

Center Point Taylor

Well No. 4 - Lower Trinity Aquifer

HGCD Permit No. P0037; HGCD Well No. 1104

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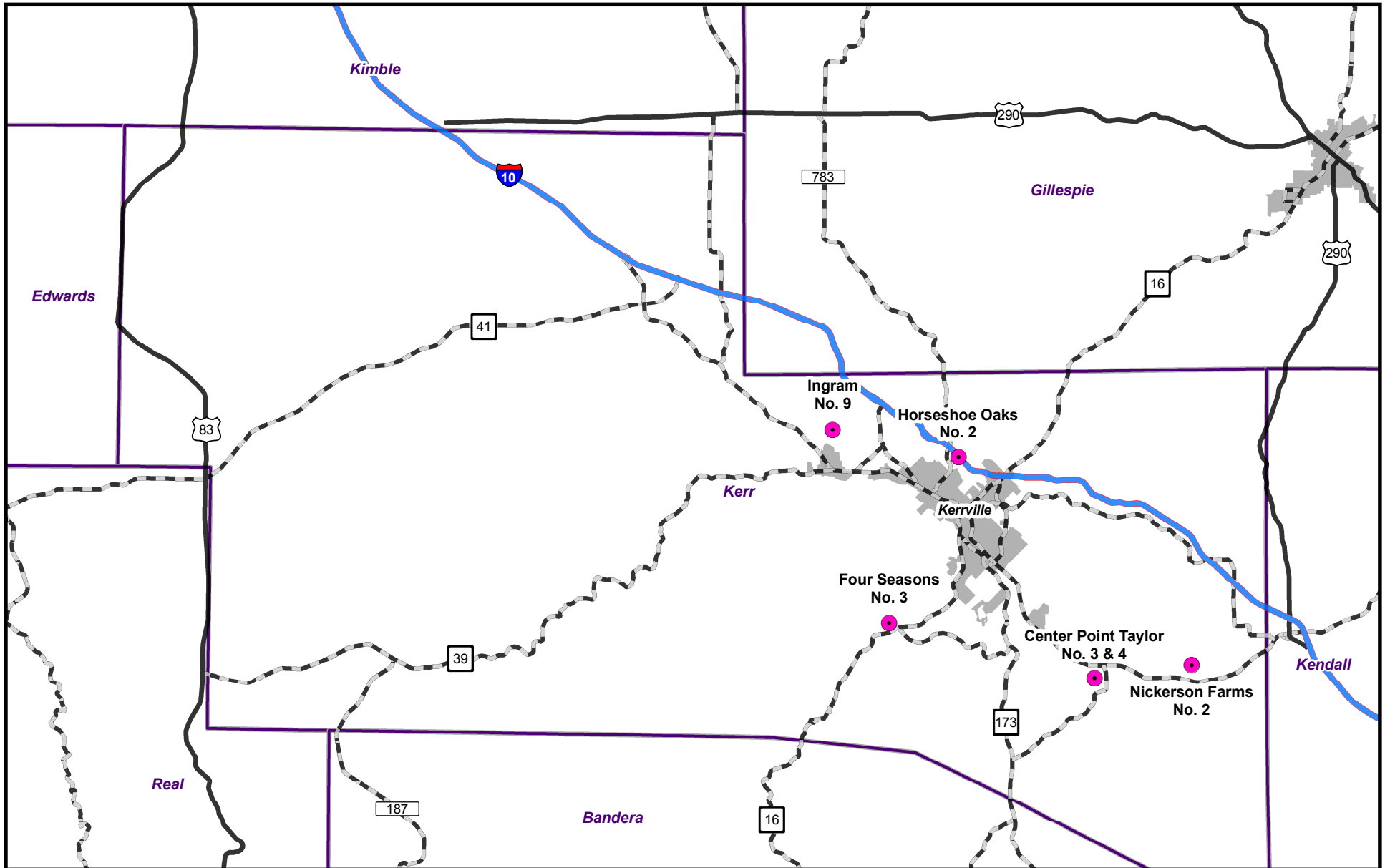




# **Attachment 1**

## Well Location Map





SCALE: 1 in = 6 miles

DRAWN BY: CAM DATE: 3/10

REVISED BY: DATE:

PROJECTION: UTM NAD 83 Zone 14

**Aqua Texas, Inc.**  
Kerr County, Texas

**Well Location Map**



**Wet Rock Groundwater Services, L.L.C.**  
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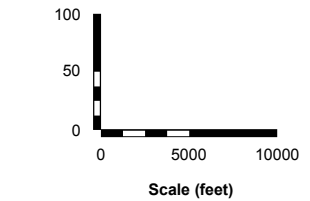
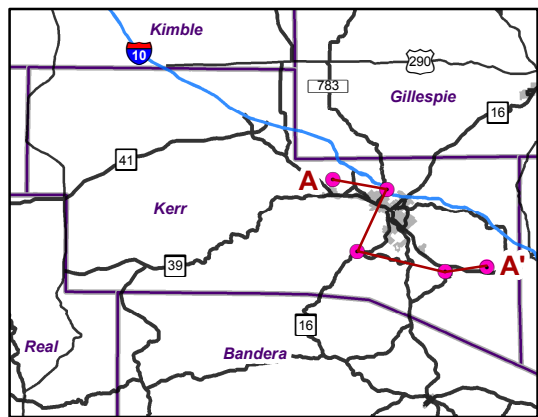
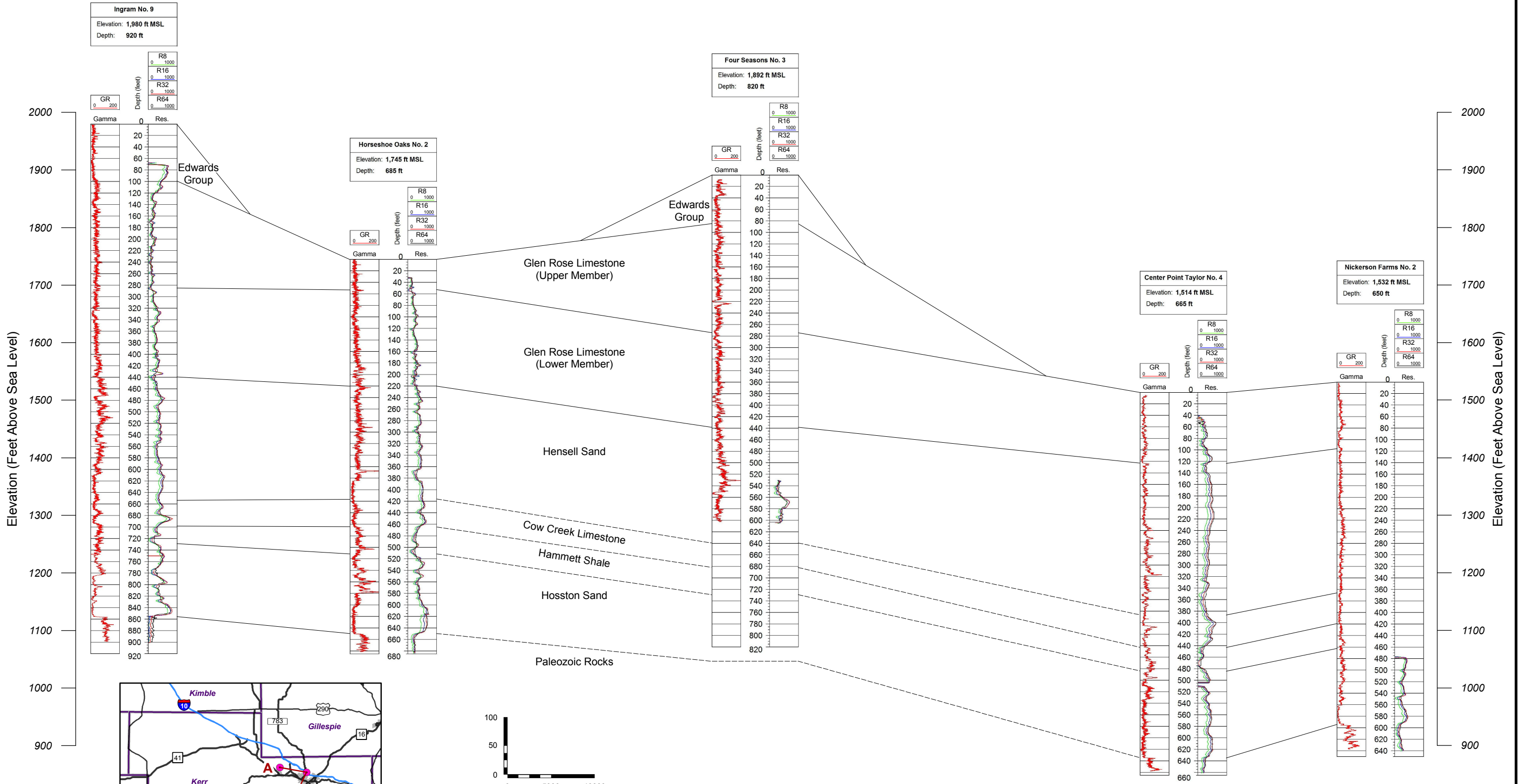
## **Attachment 2**

### Geological Cross Section



A

A'



**Geological Cross Section A-A'**

**DRAWN BY:** CAM **DATE:** 3/10  
**REVISED BY:** **DATE:**  
**PROJECTION:** UTM NAD 83 Zone 14

**Aqua Texas, Inc.**  
 Kerr County, Texas

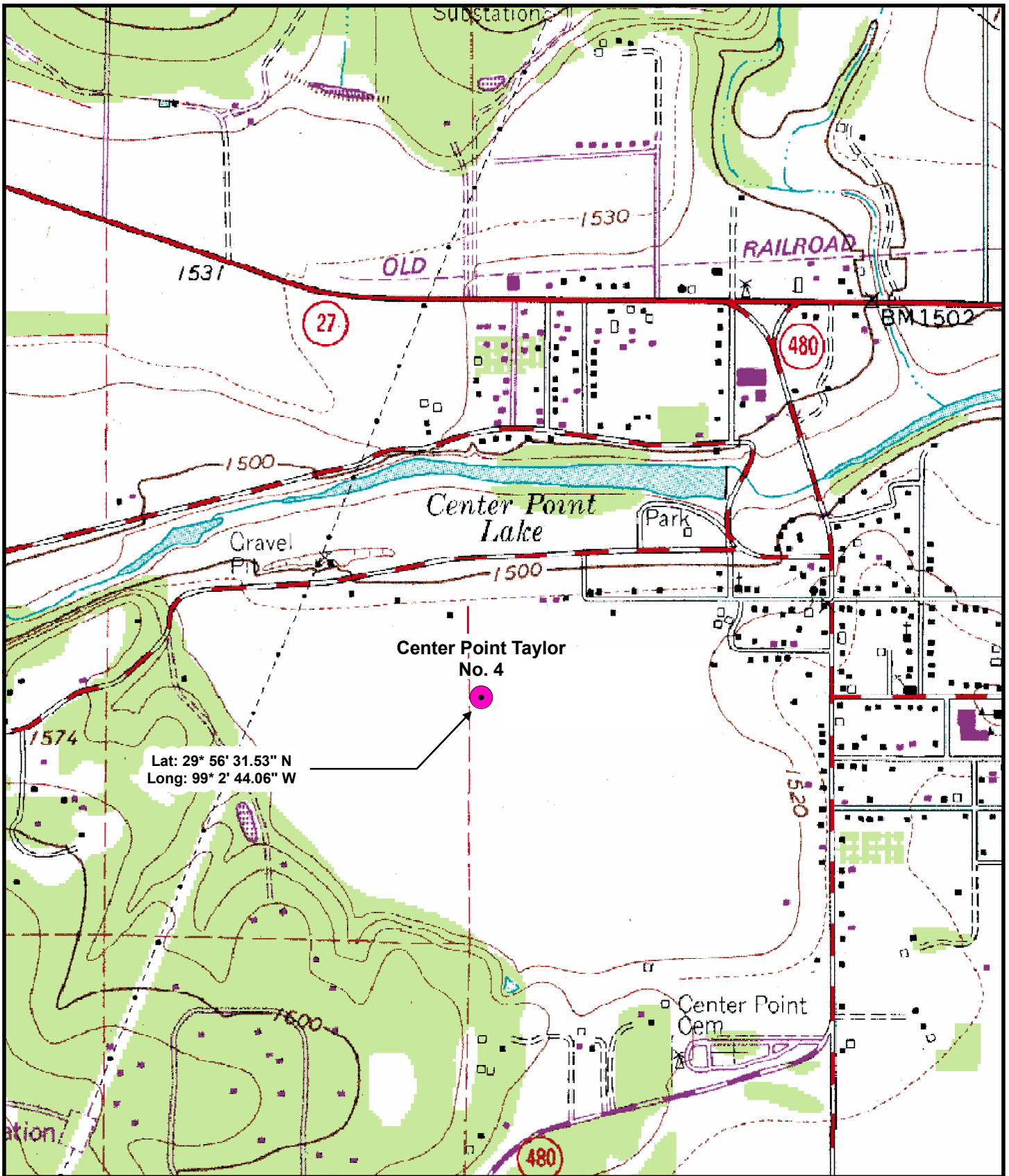


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## **Attachment 3**

U.S. Geological Survey Topographic Map





SCALE: 1 in = 1,000 ft

**Center Point Taylor No. 4 Topo Map**

DRAWN BY: CAM DATE: 3/10

REVISED BY: DATE:

PROJECTION: UTM NAD 83 Zone 14

**Aqua Texas, Inc.**  
**Center Point Taylor**  
**Well No. 4**  
**Kerr County, Texas**



**Wet Rock Groundwater Services, L.L.C.**  
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## **Attachment 4**

Log Plot: Center Point Taylor Well No. 4







**Wet Rock Groundwater Services, LLC**  
*Groundwater Specialists*

P.O. Box 163144 Austin, TX 78716  
 Ph: 512.799.5875 Fax: 512.879.6809  
 www.wetrockgs.com

**Center Point Taylor No. 4 (Lower Trinity)**

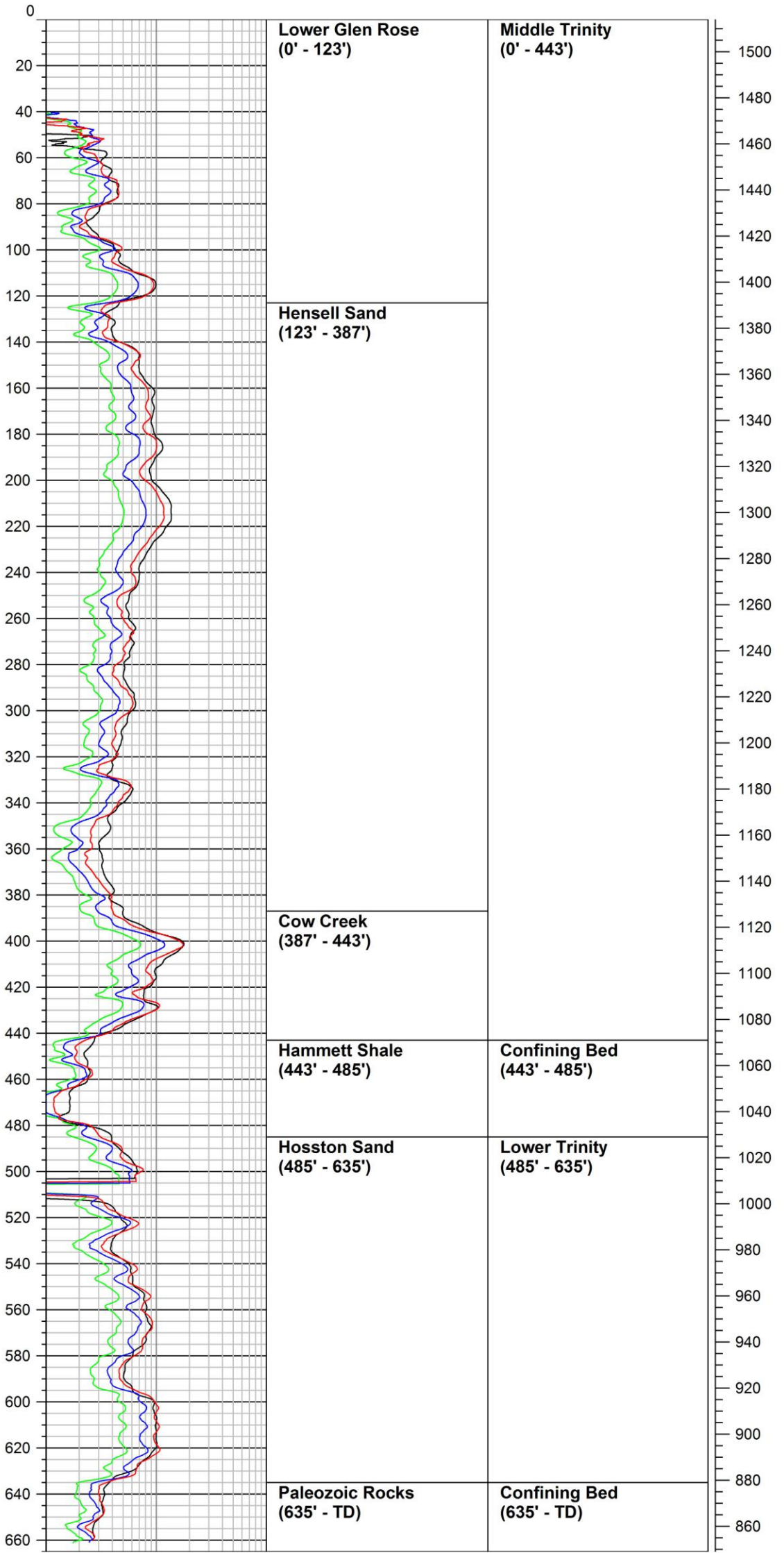
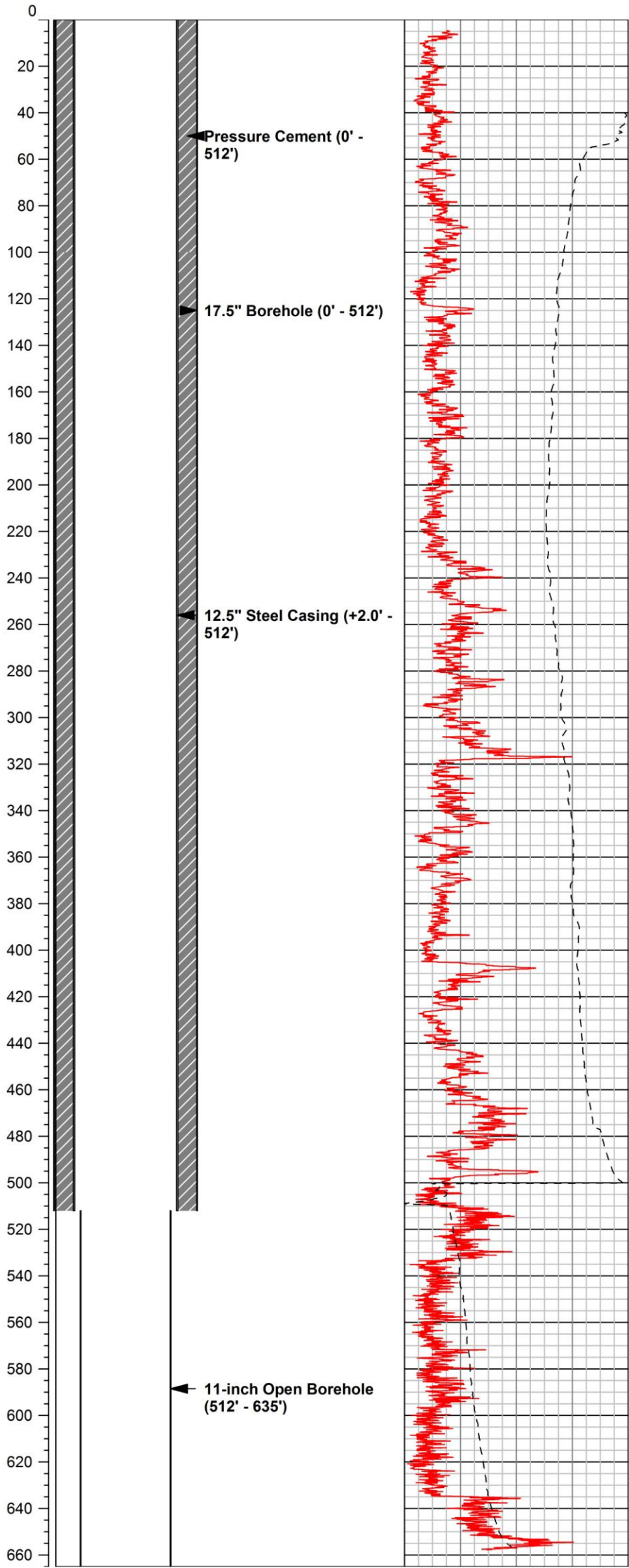
Client: **Aqua Texas, Inc.**  
 Date Started: **12/5/2005**  
 Date Completed: **8/8/2006**  
 Drilled By: **Davenport Drilling & Pump Service**  
 Drilling Type: **Air Rotary**

Location: **Kerr County, TX**  
 Elevation: **1,514 ft MSL**  
 Total Depth: **665 ft**  
 Latitude: **29.942083 (WGS84)**  
 Longitude: **-99.045556 (WGS84)**

	-150	<b>SP</b> mV	450
	-----		
	0	<b>SPR</b> ohm	100
	-----		
	0	<b>Gamma Ray</b> API	200
	-----		

10	<b>R8</b> ohm-m	1000
-----		
10	<b>R16</b> ohm-m	1000
-----		
10	<b>R32</b> ohm-m	1000
-----		
10	<b>R64</b> ohm-m	1000

<b>Well Construction</b>		<b>Geologic Units</b>	<b>Aquifer</b>	<b>Elevation (feet msl)</b>





# **Attachment 5**

State of Texas Well Report



Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality  
Privilege Notice on Reverse Side

State of Texas  
WELL REPORT

Texas Water Well Drillers Advisory Council  
P.O. Box 13087  
Austin, TX 78711-3087  
512-239-0530

1) OWNER AQUA TEXAS, INC. ADDRESS 1421 WELLS BRANCH PARKWAY PFLUGERVILLE TX 78660  
(Name) (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: AMMENDED CENTERPOINT 4 Tx GRID# N 29° 56' 31.5"  
County KERR (Street, RFD or other) (City) (State) (Zip) W099° 02' 44.0"

3) TYPE OF WORK (Check):  
 New Well  Deepening  
 Reconditioning  Plugging

4) PROPOSED USE (Check):  Monitor  Environmental Soil Boding  Domestic  
 Industrial  Irrigation  Injection  Public Supply  De-watering  Testwell  
If Public Supply well, were plans submitted to the TNRCC?  Yes  No

6) WELL LOG:

Date Drilling:  
Started 12-05 20 05  
Completed 08-08 20 06

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
18	SURFACE	40
17 1/2	40	512
11	512	635

7) DRILLING METHOD (Check):  Driven  
 Air Rotary  Mud Rotary  Bored  
 Air Hammer  Cable Tool  Jetted  
 Other \_\_\_\_\_

From (ft.)	To (ft.)	Description and color of formation material
0	20	TOP SOIL & CLAY
20	40	GRAVEL & CLAY
40	100	UPPER GLEN ROSE
100	320	LOWER GLENROSE
320	370	BEXAR SHALE
370	440	COW CREEK
440	480	PINE ISLAND
480	635	HOSSTON/ SLIGO

8) Borehole Completion (Check):  Open Hole  Straight Wall  
 Underreamed  Gravel Packed Other \_\_\_\_\_  
If Gravel Packed give interval ... from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen
			From	To	
12 1/2	N	STEEL	0	510	.375

(Use reverse side if necessary)

9) CEMENTING DATA [Rule 338.44(1)]  
Cemented from 0 ft. to 510 ft. No. of sacks used 330  
ft. to \_\_\_\_\_ ft. No. of sacks used \_\_\_\_\_  
Method used PRESSURE CEMENTED  
Cemented by SCHLUMBERGER  
Distance to septic system field lines or other concentrated contamination 150 FT  
Method of verification of above distance MEASURED

13) TYPE PUMP:  
 Turbine  Jet  Submersible  Cylinder  
 Other N/A  
Depth to pump bowls, cylinder, jet, etc., \_\_\_\_\_ ft.

10) SURFACE COMPLETION  
 Specified Surface Slab Installed [Rule 338.44(2)(A)]  
 Specified Steel Sleeve Installed [Rule 338.44(3)(A)]  
 Pitless Adapter Used [Rule 338.44(3)(b)]  
 Approved Alternative Procedure Used [Rule 338.71]

14) WELL TESTS:  
Type Test:  Pump  Bailor  Jetted  Estimated  
Yield: 20 gpm with 468 ft. drawdown after 36 hrs.

11) WATER LEVEL  
Static Level 36 ft. below land surface Date 01-10-06  
Artesian flow \_\_\_\_\_ gpm Date \_\_\_\_\_

15) WATER QUALITY:  
Did you knowingly penetrate any strata which contained undesirable constituents?  
 Yes  No If yes, submit "REPORT OF UNDESIRABLE WATER"  
Type of water? GOOD Depth of strata 60'  
Was a chemical analysis made?  Yes  No

12) PACKERS: Type \_\_\_\_\_ Depth \_\_\_\_\_  
N/A

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME DAVENPORT DRILLING & PUMP SERVICE WELL DRILLER'S LICENSE NO. 2669-WPKT  
(Type or print)  
ADDRESS 11844 BANDERA RD. PMB 711 HELOTES TEXAS 78023  
(Street or RFD) (City) (State) (Zip)  
(Signed) [Signature] (Signed) Thomas Wright  
(Licensed Well Driller) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

## **Attachment 6**

Table 1 - Well Construction Summary

Table 2 - Aquifer Testing Summary

Table 3 - Summary of Aquifer Testing Analyses



**Table 1 - Well Construction Summary**

<u>Well</u>	<u>Hole Diameter (inches)</u>	<u>From (ft)</u>	<u>To (ft)</u>	<u>Casing Type</u>	<u>Casing Diameter (inches)</u>	<u>From (ft)</u>	<u>To (ft)</u>
Center Point Taylor No. 4	18	0	40	Steel Casing	18	1.5	40
	17.5	40	512	Steel Casing	12.5	2	510
	11	512	635				

**Table 2 - Aquifer Testing Summary**

<u>Well</u>	<u>Static Water Level (ft MSL)</u>	<u>Q (gpm)</u>	<u>Drawdown (ft)</u>	<u>SC (gpm/ft)</u>	<u>Pumping Duration (minutes)</u>	<u>Δt (°F)</u>	<u>T<sub>R90</sub> (minutes)</u>
Center Point Taylor No. 4	1,250.3	12	232.6	0.05	2,838	-1.92	132

Notes: Q = discharge; SC = specific capacity; r = distance from pumping well; Δt = change in temperature; T<sub>R90</sub> = Time pumping well Recovered 90%

**Table 3 - Summary of Aquifer Testing Analyses**

<u>Analysis</u>	<u>b (ft)</u>	<u>T (ft<sup>2</sup>/day)</u>	<u>K</u>
<b>Theis</b>	150	0.9	0.006
<b>Theis Recovery</b>	150	1.6	0.011
<b>Average:</b>	150	1.2	0.008

Notes: b = aquifer thickness; r = distance from pumping well; T = transmissivity; S = storativity; K = hydraulic conductivity

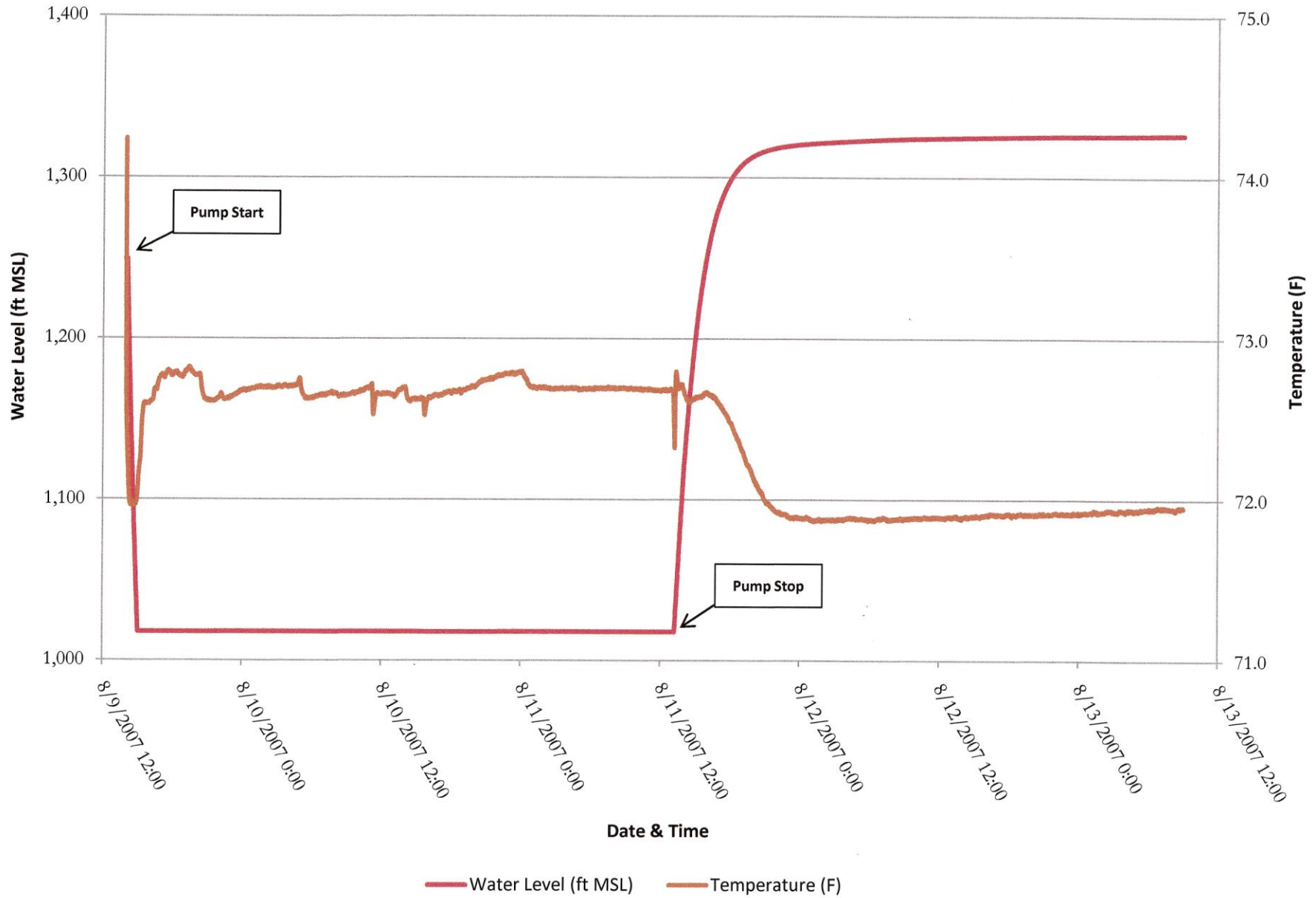


## **Attachment 7**

Aquifer Test Drawdown and Temperature Curves



# Center Point Taylor No. 4 Aquifer Test - 8/9/2007



# **Attachment 8**

## Aquifer Test Analyses





**Wet Rock Groundwater Services, LLC**  
**Groundwater Specialists**  
 P.O. Box 163144 Austin, Texas 78716  
 Ph: 512.773.3226 Fax: 512.879.6809  
 www.wetrockgs.com

**Pumping Test Analysis Report**

Project: Headwaters Aquifer Properties

Number: 006-008-09

Client: Headwaters GCD

Location: Kerr County, TX

Pumping Test: Center Point Taylor No. 4

Pumping Well: Center Point Taylor No. 4

Test Conducted by:

Test Date: 8/9/2007

Analysis Performed by: Cassidy Miller

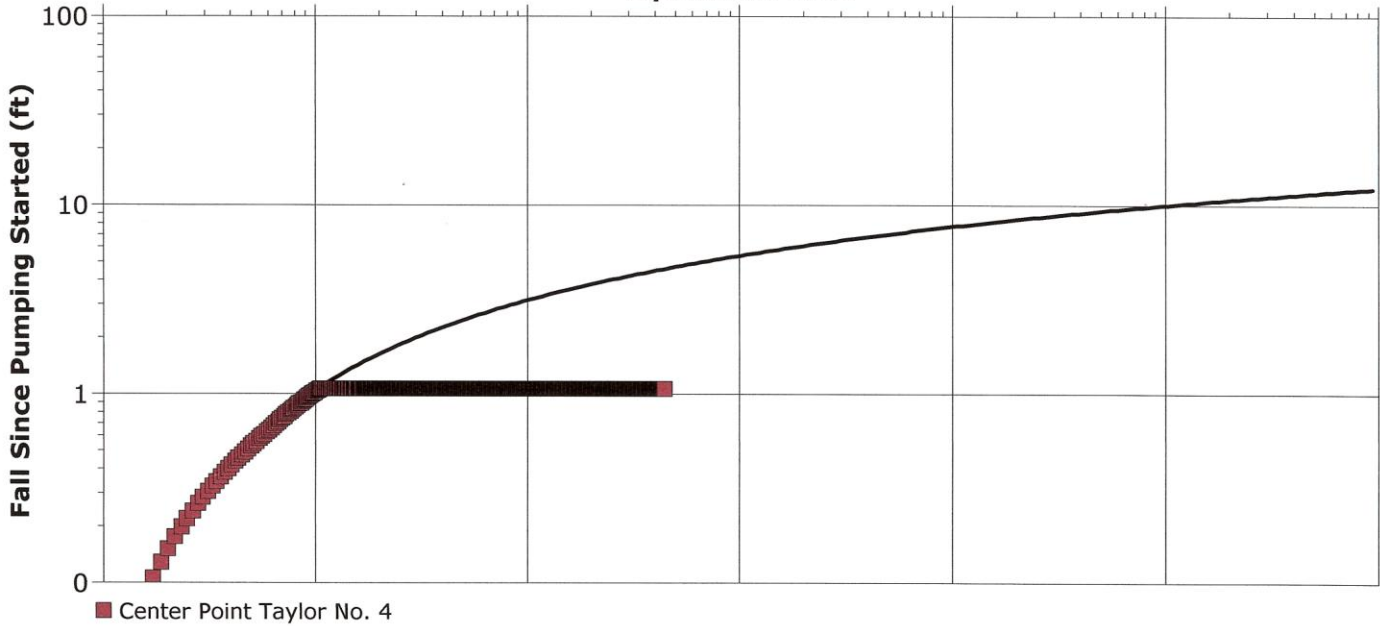
Theis

Analysis Date: 3/5/2010

Aquifer Thickness: 150.00 ft

Discharge: variable, average rate 12.28 [U.S. gal/min]

**Equivalent Time**



Calculation after Theis

Observation Well	Transmissivity [ft <sup>2</sup> /d]	Hydraulic Conductivity [ft/d]	Storage coefficient	Radial Distance to PW [ft]
Center Point Taylor No. 4	$8.65 \times 10^{-1}$	$5.77 \times 10^{-3}$		





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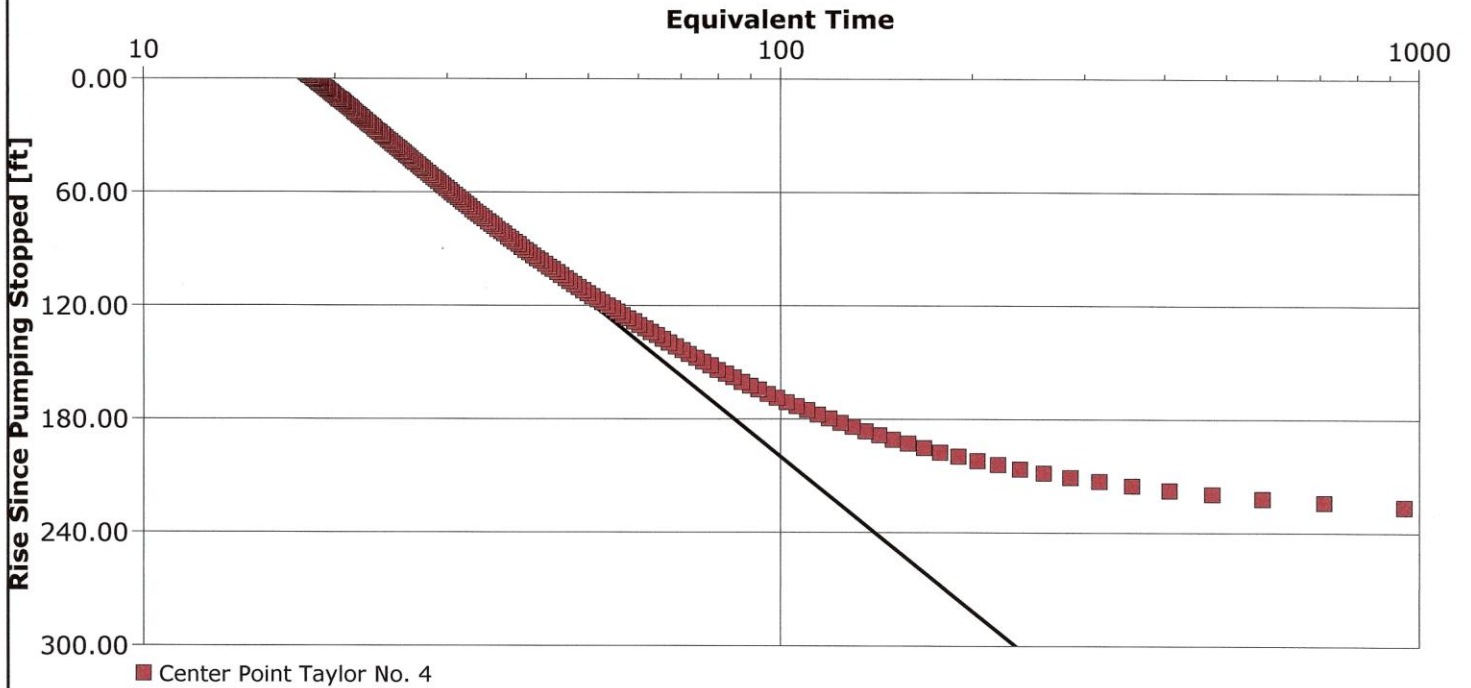
**Pumping Test Analysis Report**

Project: Headwaters Aquifer Properties

Number: 006-008-09

Client: Headwaters GCD

Location: Kerr County, TX	Pumping Test: Center Point Taylor No. 4	Pumping Well: Center Point Taylor No. 4
Test Conducted by:		Test Date: 8/9/2007
Analysis Performed by: Cassidy Miller	Theis Recovery	Analysis Date: 3/5/2010
Aquifer Thickness: 150.00 ft	Discharge: variable, average rate 12.28 [U.S. gal/min]	



Calculation after Theis & Jacob

Observation Well	Transmissivity [ft <sup>2</sup> /d]	Hydraulic Conductivity [ft/d]	Radial Distance to PW [ft]
Center Point Taylor No. 4	$1.59 \times 10^0$	$1.06 \times 10^{-2}$	

# **Attachment 9**

Aquifer Test Data



Center Point Taylor No. 4 Pump Test Summary (8-9-2007)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temperature (F)	Water Level (ft bgs)	Water Level (ft MSL)	Drawdown (ft)	Pump Rate (gpm)	Specific Capacity (gpm/ft)	Comments
8/9/2007 13:55	0		74.24	263.65	1,250.35	0.00			Pumping Start
8/9/2007 13:56	1		73.56	267.14	1,246.86	3.49			
8/9/2007 13:57	2		73.12	268.41	1,245.59	4.76			
8/9/2007 13:58	3		72.86	267.49	1,246.51	3.83			
8/9/2007 13:59	4		72.68	266.48	1,247.52	2.83			
8/9/2007 14:00	5		72.57	265.53	1,248.47	1.87			
8/9/2007 14:01	6		72.51	264.65	1,249.35	1.00			
8/9/2007 14:02	7		72.46	265.28	1,248.72	1.63			
8/9/2007 14:03	8		72.41	270.68	1,243.32	7.02			
8/9/2007 14:04	9		72.37	276.17	1,237.83	12.52			
8/9/2007 14:05	10		72.34	281.42	1,232.58	17.76	50	2.81	
8/9/2007 14:06	11		72.30	286.64	1,227.36	22.99			
8/9/2007 14:07	12		72.27	291.64	1,222.37	27.98			
8/9/2007 14:08	13		72.25	296.72	1,217.28	33.06			
8/9/2007 14:09	14		72.22	301.68	1,212.32	38.02			
8/9/2007 14:10	15		72.20	306.54	1,207.47	42.88			
8/9/2007 14:14	19		72.06	325.22	1,188.78	61.57	32	0.52	
8/9/2007 14:15	20		72.03	329.73	1,184.27	66.08			
8/9/2007 14:25	30		71.97	371.07	1,142.93	107.41			
8/9/2007 14:40	45		71.97	425.71	1,088.29	162.06	21	0.13	
8/9/2007 14:55	60		71.99	474.40	1,039.60	210.75			
8/9/2007 15:10	75		72.23	496.31	1,017.69	232.65			
8/9/2007 15:25	90		72.55	496.31	1,017.69	232.66	12	0.05	
8/9/2007 15:40	105		72.59	496.31	1,017.69	232.66			
8/9/2007 15:55	120		72.60	496.31	1,017.69	232.66	12	0.05	
8/9/2007 16:55	180		72.76	496.33	1,017.67	232.68			
8/9/2007 17:55	240		72.77	496.34	1,017.66	232.68			
8/9/2007 18:55	300		72.77	496.32	1,017.68	232.67			
8/9/2007 19:55	360		72.77	496.31	1,017.69	232.66			
8/9/2007 20:55	420		72.61	496.31	1,017.69	232.65			
8/9/2007 21:55	480		72.63	496.28	1,017.72	232.63			

Note: bgs = below ground surface

MSL = Mean Sea Level

Center Point Taylor No. 4 Pump Test Summary (8-9-2007)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temperature (F)	Water Level (ft bgs)	Water Level (ft MSL)	Drawdown (ft)	Pump Rate (gpm)	Specific Capacity (gpm/ft)	Comments
8/9/2007 22:55	540		72.63	496.26	1,017.74	232.61			
8/9/2007 23:55	600		72.67	496.23	1,017.77	232.58			
8/10/2007 0:55	660		72.69	496.22	1,017.78	232.57			
8/10/2007 1:55	720		72.70	496.23	1,017.77	232.57			
8/10/2007 2:55	780		72.70	496.25	1,017.75	232.60			
8/10/2007 3:55	840		72.70	496.23	1,017.77	232.58			
8/10/2007 4:55	900		72.75	496.24	1,017.76	232.58			
8/10/2007 5:55	960		72.63	496.23	1,017.77	232.58			
8/10/2007 6:55	1,020		72.65	496.20	1,017.80	232.54			
8/10/2007 7:55	1,080		72.66	496.21	1,017.79	232.56			
8/10/2007 8:55	1,140		72.65	496.20	1,017.80	232.55			
8/10/2007 9:55	1,200		72.67	496.21	1,017.79	232.55			
8/10/2007 10:55	1,260		72.70	496.21	1,017.79	232.56			
8/10/2007 11:55	1,320		72.65	496.22	1,017.78	232.56			
8/10/2007 12:55	1,380		72.65	496.24	1,017.76	232.59			
8/10/2007 13:55	1,440		72.70	496.25	1,017.75	232.60			
8/10/2007 14:55	1,500		72.62	496.28	1,017.72	232.62			
8/10/2007 15:55	1,560		72.62	496.31	1,017.69	232.65			
8/10/2007 16:55	1,620		72.64	496.32	1,017.68	232.66			
8/10/2007 17:55	1,680		72.66	496.34	1,017.67	232.68			
8/10/2007 18:55	1,740		72.67	496.31	1,017.69	232.66			
8/10/2007 19:55	1,800		72.71	496.32	1,017.68	232.67			
8/10/2007 20:55	1,860		72.74	496.31	1,017.69	232.65			
8/10/2007 21:55	1,920		72.77	496.30	1,017.70	232.65			
8/10/2007 22:55	1,980		72.78	496.27	1,017.73	232.61			
8/10/2007 23:55	2,040		72.80	496.26	1,017.75	232.60			
8/11/2007 0:55	2,100		72.70	496.26	1,017.74	232.60			
8/11/2007 1:55	2,160		72.70	496.25	1,017.75	232.60			
8/11/2007 2:55	2,220		72.69	496.24	1,017.76	232.59			
8/11/2007 3:55	2,280		72.69	496.28	1,017.72	232.63			
8/11/2007 4:55	2,340		72.68	496.25	1,017.75	232.60			

Note: bgs = below ground surface

MSL = Mean Sea Level

Center Point Taylor No. 4 Pump Test Summary (8-9-2007)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temperature (F)	Water Level (ft bgs)	Water Level (ft MSL)	Drawdown (ft)	Pump Rate (gpm)	Specific Capacity (gpm/ft)	Comments
8/11/2007 5:55	2,400		72.68	496.28	1,017.72	232.63			
8/11/2007 6:55	2,460		72.69	496.26	1,017.75	232.60			
8/11/2007 7:55	2,520		72.69	496.24	1,017.77	232.58			
8/11/2007 8:55	2,580		72.69	496.24	1,017.76	232.59			
8/11/2007 9:55	2,640		72.69	496.23	1,017.77	232.58			
8/11/2007 10:55	2,700		72.69	496.24	1,017.76	232.58			
8/11/2007 11:55	2,760		72.68	496.25	1,017.75	232.60			
8/11/2007 12:55	2,820		72.68	496.24	1,017.76	232.59			
8/11/2007 13:13	2,838	0	72.32	496.23	1,017.77	232.58	12	0.05	Start Recovery
8/11/2007 13:14	2,839	1	72.42	494.45	1,019.55	230.80			
8/11/2007 13:15	2,840	2	72.61	492.23	1,021.77	228.58			
8/11/2007 13:16	2,841	3	72.72	489.98	1,024.02	226.33			
8/11/2007 13:17	2,842	4	72.77	487.74	1,026.26	224.09			
8/11/2007 13:18	2,843	5	72.78	485.51	1,028.49	221.85			
8/11/2007 13:19	2,844	6	72.80	483.29	1,030.71	219.63			
8/11/2007 13:20	2,845	7	72.79	481.06	1,032.94	217.41			
8/11/2007 13:21	2,846	8	72.78	478.82	1,035.18	215.17			
8/11/2007 13:22	2,847	9	72.78	476.62	1,037.38	212.97			
8/11/2007 13:23	2,848	10	72.77	474.38	1,039.62	210.73			
8/11/2007 13:24	2,849	11	72.76	472.16	1,041.84	208.51			
8/11/2007 13:25	2,850	12	72.75	470.00	1,044.00	206.35			
8/11/2007 13:26	2,851	13	72.74	467.77	1,046.23	204.11			
8/11/2007 13:27	2,852	14	72.73	465.53	1,048.47	201.88			
8/11/2007 13:28	2,853	15	72.72	463.31	1,050.69	199.66			
8/11/2007 13:43	2,868	30	72.71	430.30	1,083.70	166.65			
8/11/2007 13:58	2,883	45	72.68	399.44	1,114.56	135.79			
8/11/2007 14:13	2,898	60	72.63	373.92	1,140.09	110.26			
8/11/2007 14:28	2,913	75	72.61	351.42	1,162.58	87.77			
8/11/2007 14:43	2,928	90	72.62	331.39	1,182.61	67.74			
8/11/2007 14:58	2,943	105	72.63	313.61	1,200.39	49.96			
8/11/2007 15:13	2,958	120	72.64	297.88	1,216.12	34.23			

Note: bgs = below ground surface

MSL = Mean Sea Level

Center Point Taylor No. 4 Pump Test Summary (8-9-2007)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temperature (F)	Water Level (ft bgs)	Water Level (ft MSL)	Drawdown (ft)	Pump Rate (gpm)	Specific Capacity (gpm/ft)	Comments
8/11/2007 16:13	3,018	180	72.65	252.50	1,261.51	-11.16			
8/11/2007 17:13	3,078	240	72.58	227.00	1,287.00	-36.65			
8/11/2007 18:13	3,138	300	72.44	212.49	1,301.52	-51.17			
8/11/2007 19:13	3,198	360	72.27	204.31	1,309.69	-59.34			
8/11/2007 20:13	3,258	420	72.09	199.71	1,314.29	-63.95			
8/11/2007 21:13	3,318	480	71.98	197.04	1,316.96	-66.61			
8/11/2007 22:13	3,378	540	71.93	195.33	1,318.67	-68.32			
8/11/2007 23:13	3,438	600	71.89	194.22	1,319.79	-69.44			
8/12/2007 0:13	3,498	660	71.89	193.51	1,320.49	-70.15			
8/12/2007 1:13	3,558	720	71.87	192.90	1,321.10	-70.75			
8/12/2007 2:13	3,618	780	71.87	192.41	1,321.59	-71.24			
8/12/2007 3:13	3,678	840	71.88	191.99	1,322.02	-71.67			
8/12/2007 4:13	3,738	900	71.89	191.58	1,322.42	-72.07			
8/12/2007 5:13	3,798	960	71.88	191.18	1,322.82	-72.47			
8/12/2007 6:13	3,858	1,020	71.87	190.84	1,323.16	-72.81			
8/12/2007 7:13	3,918	1,080	71.89	190.53	1,323.47	-73.12			
8/12/2007 8:13	3,978	1,140	71.88	190.24	1,323.76	-73.41			
8/12/2007 9:13	4,038	1,200	71.89	190.02	1,323.99	-73.64			
8/12/2007 10:13	4,098	1,260	71.89	189.84	1,324.16	-73.82			
8/12/2007 11:13	4,158	1,320	71.89	189.65	1,324.36	-74.01			
8/12/2007 12:13	4,218	1,380	71.89	189.50	1,324.50	-74.15			
8/12/2007 13:13	4,278	1,440	71.90	189.38	1,324.62	-74.27			
8/12/2007 14:13	4,338	1,500	71.90	189.25	1,324.75	-74.40			
8/12/2007 15:13	4,398	1,560	71.90	189.07	1,324.93	-74.59			
8/12/2007 16:13	4,458	1,620	71.90	189.02	1,324.98	-74.63			
8/12/2007 17:13	4,518	1,680	71.91	188.90	1,325.10	-74.76			
8/12/2007 18:13	4,578	1,740	71.91	188.76	1,325.24	-74.89			
8/12/2007 19:13	4,638	1,800	71.91	188.56	1,325.44	-75.09			
8/12/2007 20:13	4,698	1,860	71.90	188.53	1,325.48	-75.13			
8/12/2007 21:13	4,758	1,920	71.91	188.43	1,325.57	-75.23			
8/12/2007 22:13	4,818	1,980	71.92	188.34	1,325.66	-75.31			

Note: bgs = below ground surface

MSL = Mean Sea Level

Center Point Taylor No. 4 Pump Test Summary (8-9-2007)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temperature (F)	Water Level (ft bgs)	Water Level (ft MSL)	Drawdown (ft)	Pump Rate (gpm)	Specific Capacity (gpm/ft)	Comments
8/12/2007 23:13	4,878	2,040	71.92	188.28	1,325.72	-75.38			
8/13/2007 0:13	4,938	2,100	71.92	188.15	1,325.85	-75.50			
8/13/2007 1:13	4,998	2,160	71.93	188.10	1,325.90	-75.55			
8/13/2007 2:13	5,058	2,220	71.92	188.05	1,325.95	-75.60			
8/13/2007 3:13	5,118	2,280	71.93	188.05	1,325.95	-75.60			
8/13/2007 4:13	5,178	2,340	71.93	187.97	1,326.03	-75.68			
8/13/2007 5:13	5,238	2,400	71.94	187.81	1,326.19	-75.85			
8/13/2007 6:13	5,298	2,460	71.94	187.80	1,326.21	-75.86			
8/13/2007 7:13	5,358	2,520	71.95	187.68	1,326.32	-75.97			
8/13/2007 8:13	5,418	2,580	71.95	187.52	1,326.48	-76.13			
8/13/2007 9:01	5,466	2,628	71.95	187.46	1,326.55	-76.20			

Note: bgs = below ground surface

MSL = Mean Sea Level