

**Aquifer Testing of the
Old River Road RV Resort Well No. 1
(HGCD Well No. 2475)**

for

Headwaters Groundwater Conservation District
125 Lehman Dr., Suite 201
Kerrville, Texas 78028

WRGS Project No. 072-001-16

February 2016



Wet Rock Groundwater Services, L.L.C.

Groundwater Specialists

317 Ranch Road 620 South, Suite 203

Austin, Texas 78734

Phone: 512-773-3226 • www.wetrockgs.com

TBPG Firm No: 50038

The seal appearing on this document was authorized by Kaveh Khorzad, P.G. 1126 on February 23, 2016.



A handwritten signature in black ink that reads "Kaveh Khorzad".

Kaveh Khorzad, P.G.

License No. 1126

Wet Rock Groundwater Services, LLC

TBPG Firm Registration No. 50038



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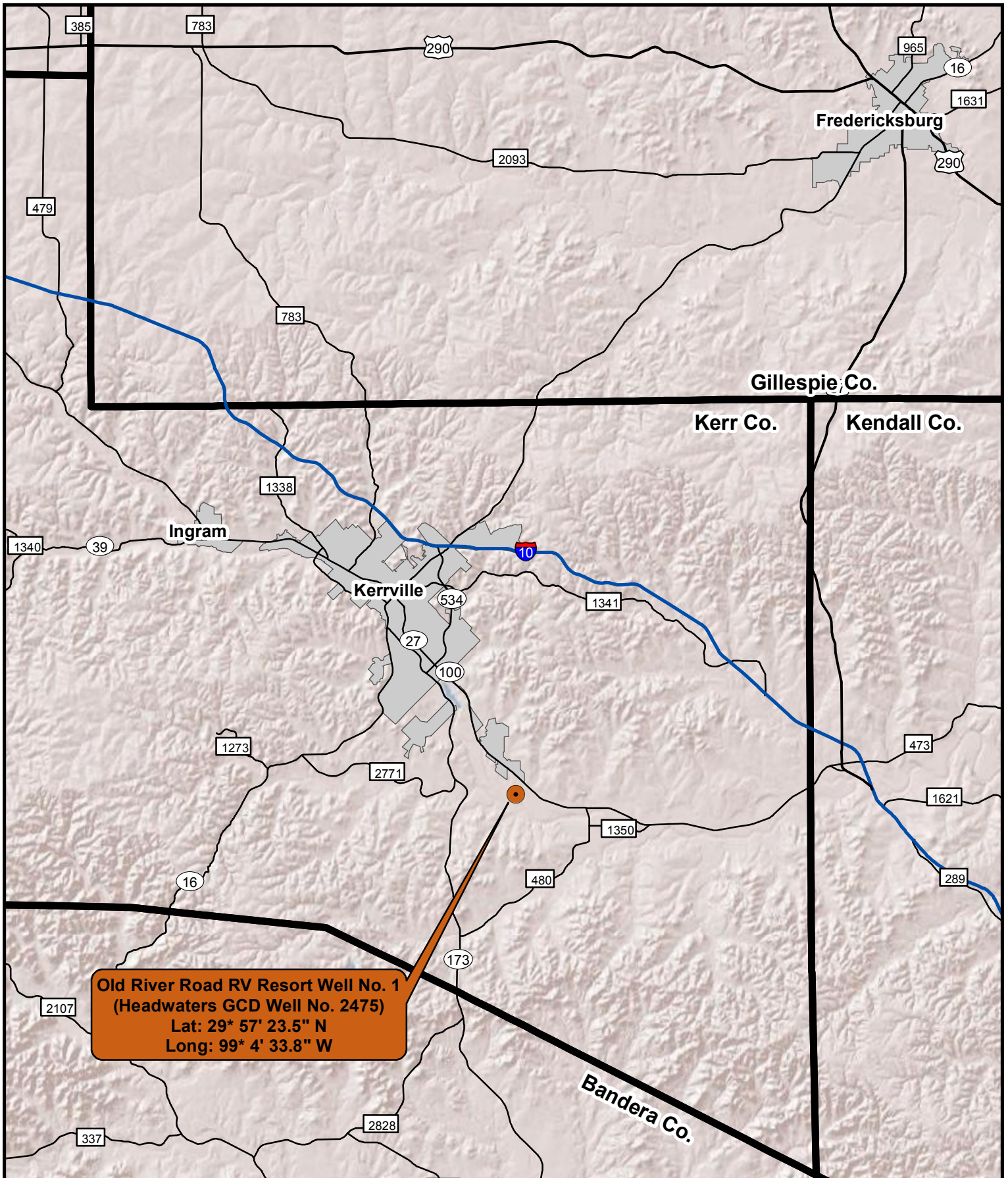
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Attachment 1

Well Location Map





Old River Road RV Resort Well No. 1
 (Headwaters GCD Well No. 2475)
 Lat: 29° 57' 23.5" N
 Long: 99° 4' 33.8" W

Scale: 0 2 4 Miles

Drawn By: KK Date: 2-22-16

Quad Name and No:
 Center Point 29099-H1

Projection:
 UTM NAD 83 Zone 14



Well Location Map

**Old River Road
 RV Resort Well No. 1**
 Kerr County, Texas

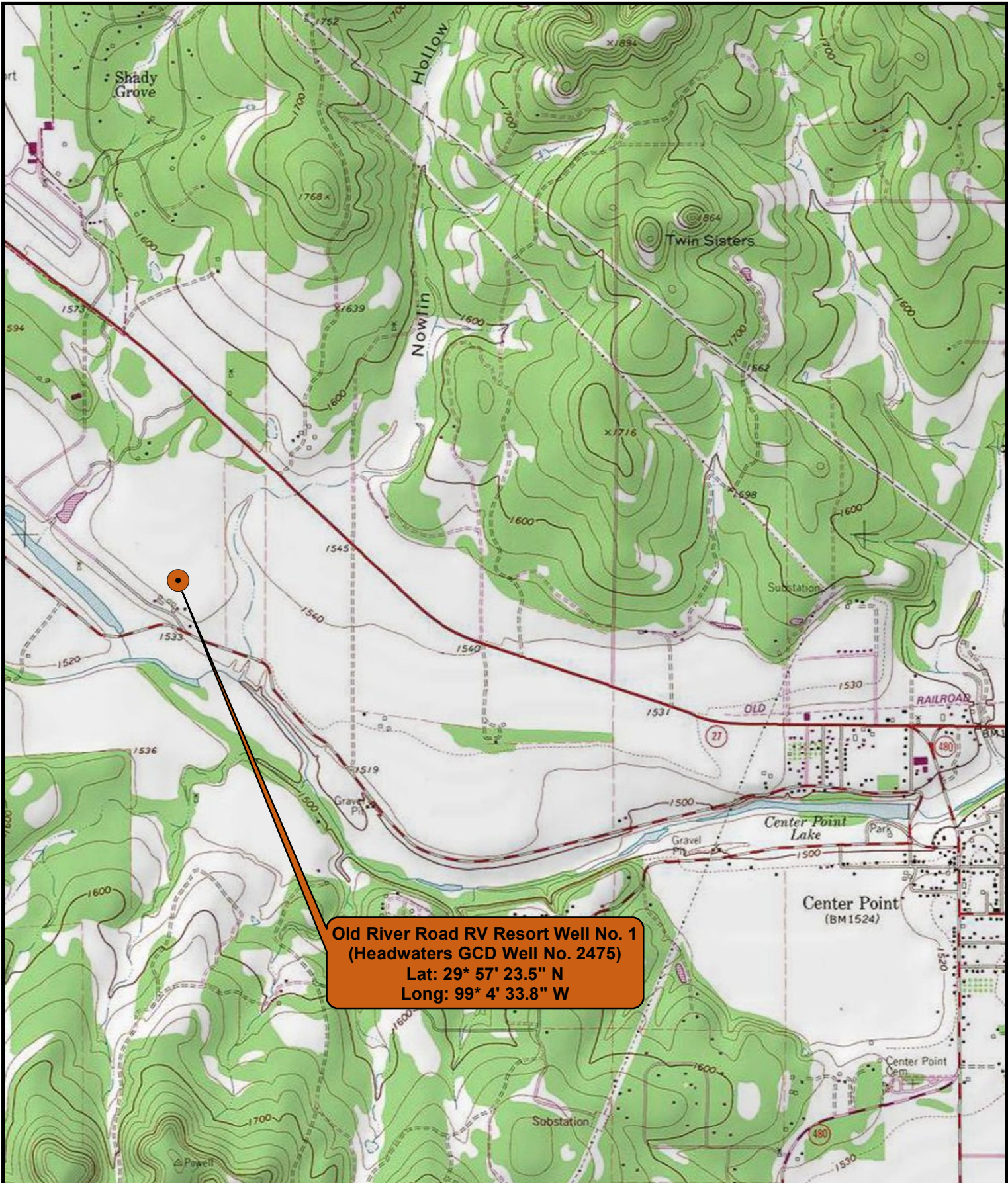


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Attachment 2

U.S. Geological Survey Topographic Map





Old River Road RV Resort Well No. 1
 (Headwaters GCD Well No. 2475)
 Lat: 29° 57' 23.5" N
 Long: 99° 4' 33.8" W

Scale: 0 1,000 2,000 Feet

Drawn By: KK Date: 2-22-16

Quad Name and No:
 Center Point 29099-H1

Projection:
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U.S. Geological Survey Topographic Map

**Old River Road
 RV Resort Well No. 1**
 Kerr County, Texas



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Attachment 3

Well Log Profile – Old River Road RV Resort Well No. 1 (HGCD Well No. 2475)



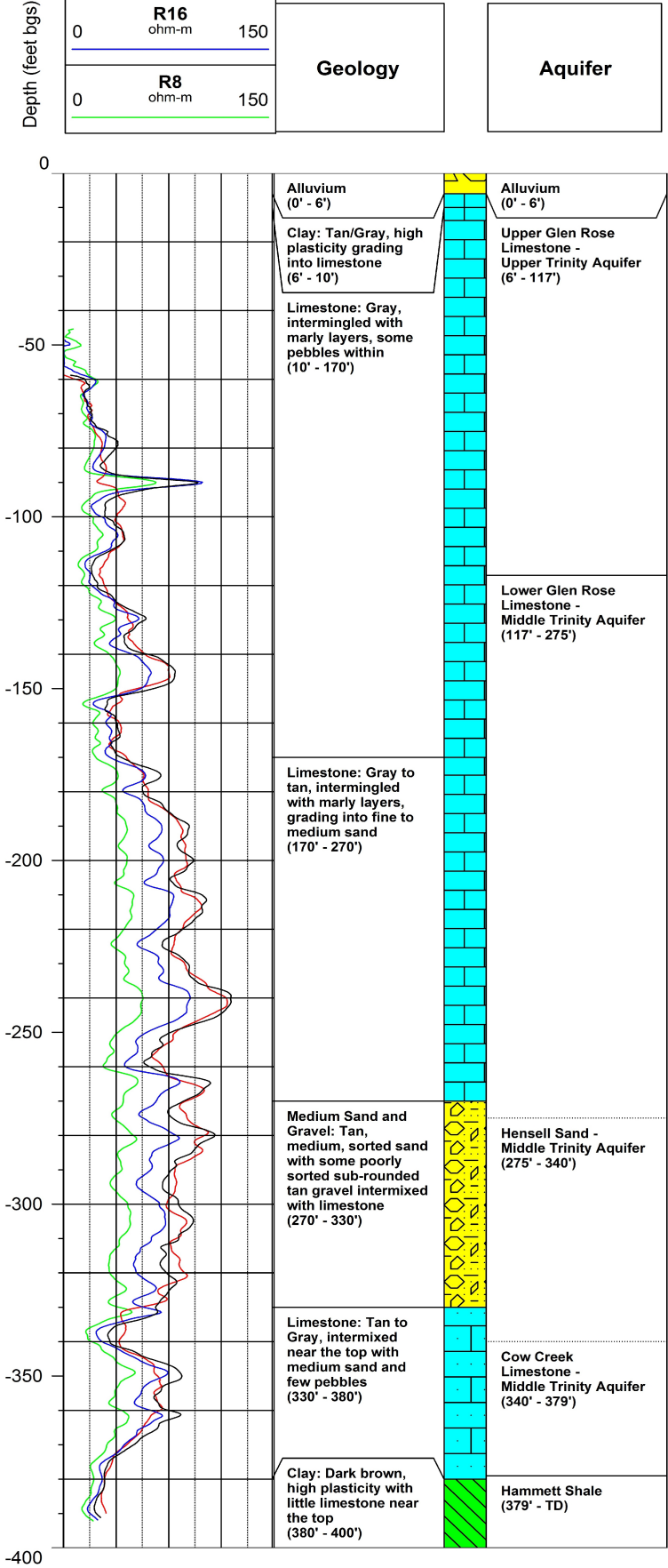
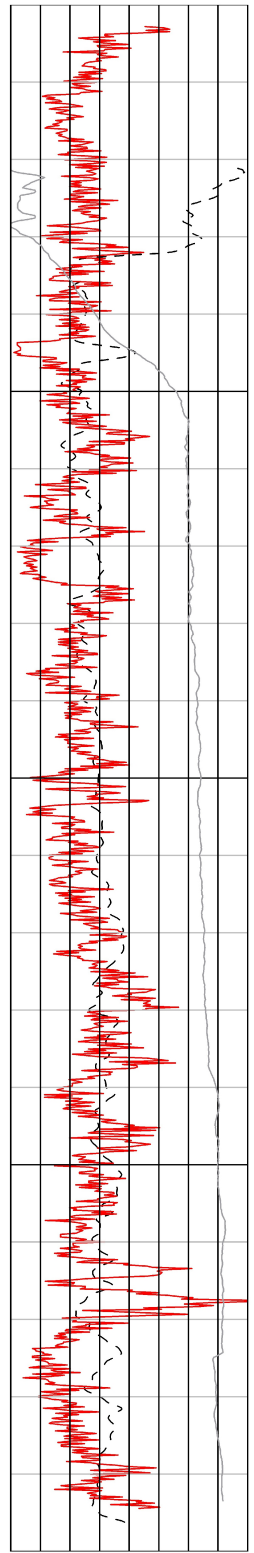
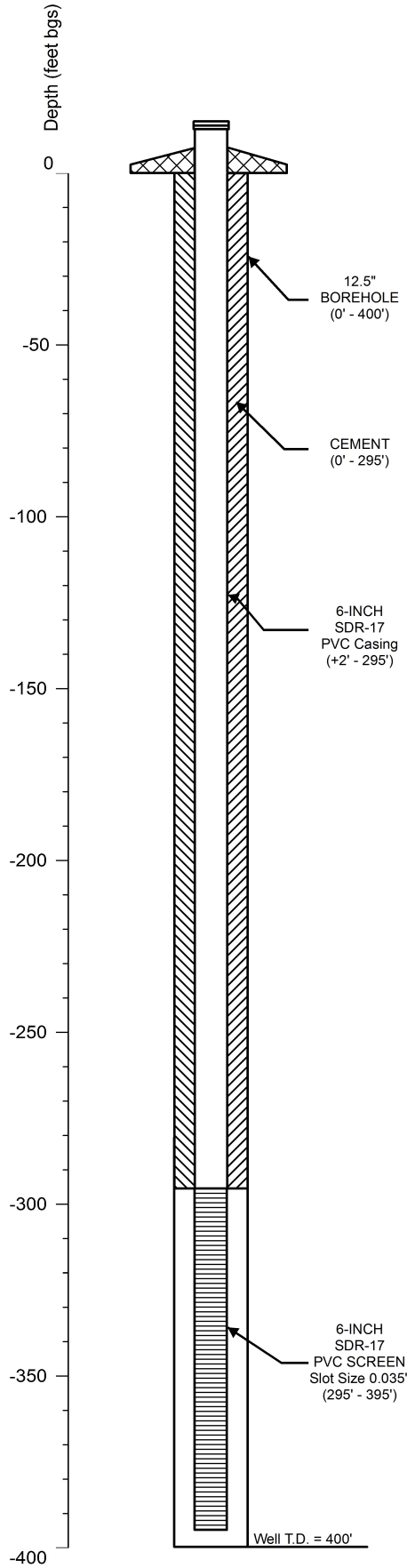
Well ID: Old River Road

RV Resort Well No. 1

HGCD Well No. 2475

0	Gamma Ray API	125
250	SP mV	550
0	SPR ohm	100

0	R64 ohm-m	150
0	R32 ohm-m	150
0	R16 ohm-m	150
0	R8 ohm-m	150



Attachment 4

State of Texas Well Report and Cementing Report



Texas Department of Licensing and Regulation

Attention Owner:
Confidentiality Privilege Notice
on reverse side of owner's copy.

Water Well Driller/Pump Installer Section
P.O. Box 12157 Austin, Texas 78711 Toll free (800)803-9202 X7880
Email address: water.well@tdlr.texas.gov Web address: www.tdlr.texas.gov

This form must be completed
and filed with the department
and owner within 60 days
upon completion of the well.

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER

Name: <u>William Storgis</u>	Address: <u>P.O. Box 158</u>	City: <u>Center Point</u>	State: <u>TX</u>	Zip: <u>78010</u>
---------------------------------	---------------------------------	------------------------------	---------------------	----------------------

2) WELL LOCATION

County: <u>Here</u>	Physical Address: <u>Center Point</u>	City: <u>Center Point</u>	State: <u>TX</u>	Zip: <u>78010</u>
------------------------	--	------------------------------	---------------------	----------------------

3) Type of Work

<input checked="" type="checkbox"/> New Well <input type="checkbox"/> Reconditioning <input type="checkbox"/> Replacement <input type="checkbox"/> Deepening <input type="checkbox"/> Other	Lat. <u>29-57-27.5</u> Long. <u>99-4-38.5</u> GPS Datum <u>69-08-5</u> Elevation <u>1544</u> 4) Proposed Use (check) <input type="checkbox"/> Monitor <input type="checkbox"/> Environmental Soil Boring <input type="checkbox"/> Domestic <input type="checkbox"/> Industrial <input type="checkbox"/> Frac <input type="checkbox"/> Irrigation <input type="checkbox"/> Injection <input type="checkbox"/> Extraction <input type="checkbox"/> De-watering <input type="checkbox"/> Testwell <input type="checkbox"/> Rig Supply <input type="checkbox"/> Stock or Livestock <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> Public Supply --- If Public Supply, were plans approved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
---	---

5) Drilling Date

Started 2/2/16
Completed 2/10/16

6) Diameter of Hole

Dia. (in.)	From (ft)	To (ft)
<u>12 1/2</u>	<u>0</u>	<u>400</u>

7) Drilling Method (check)

<input type="checkbox"/> Bored	<input type="checkbox"/> Air Hammer	<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Jetted	<input type="checkbox"/> Hollow stem Auger
<input type="checkbox"/> Reverse Circulation	<input type="checkbox"/> Other:			

8) Borehole Completion

<input type="checkbox"/> Open Hole	<input checked="" type="checkbox"/> Straight Wall
<input type="checkbox"/> Under-reamed	<input type="checkbox"/> Filter Packed
<input type="checkbox"/> Other	

Filter packed interval from: _____ ft. to: _____ ft. Size: _____ Type _____

Number of identical wells drilled at this location: 1

From (ft.)	To (ft.)	Description and color of formation material
0	5	Rock & Dirt
5	45	Caliche - Gravel mix
45	100	Blue shale
100	110	glauconitic sand (A20)
125	200	Blue shale
200	270	Blue shale
270	280	gray sand
280	300	Tan sand (A20)
300	395	Tan sand
395	400	Hammel shale

(Use reverse side of Well Owner's copy, if necessary)

9) 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 Casing Screen
			From	To	
6	New	5DR17 PVC	0	295	
6	New	5DR17 PVC	295	395	35
		Screen			

10) Annular Seal Data: i.e. (from 0 ft. to 100 ft. 15 sacks of cement)

from: 240 ft. to: 105 ft. 35 sacks of CMT
 from: 105 ft. to: 0 ft. 73 sacks of CMT
 Method Used: Tremie Sealed By: Driller
 Distance to septic field or other concentrated contamination: 200 ft.
 Distance to Septic Tank: 150 ft. Distance to Property Line: 600 ft.
 Method of Measurement: TAPE Approved by Variance #: _____

14) Plugged Well plugged within 48 hours

Casing left in well:		Cement/Bentonite placed in well:		
From (ft)	To (ft)	From (ft)	To (ft)	#Sacks or Material used

15) Type Pump

Turbine Jet Submersible Cylinder
 Other
 Depth to pump bowls, cylinder, jet, etc., _____ ft.

16) Water Test

Type test Pump Bailor Jetted Estimated Other
 Yield: 40 gpm with 0 ft. drawdown after 4 hrs.

17) Water Quality

Depth of Strata: 100 Was a chemical analysis made? Yes No. Did you knowingly penetrate a strata which contains injurious constituents? Yes No
 If yes, Type of water: glauconitic
 Check One: Naturally poor-quality groundwater - type glauconitic Hydrocarbons (i.e. gas, oil, etc.) Hazardous material/waste contamination encountered
 Other (describe) _____

I certify that while drilling, deepening, or otherwise altering the above described well, injurious water or constituents was encountered and the landowner was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

18) Company & Individual's Name: (type or print)

<u>Edmonds Waterwell Drilling</u>	Lic. No.:	<u>58357</u>
Address: <u>320 Roy St.</u>	City: <u>Hereville</u>	State: <u>TX</u> Zip: <u>78028</u>

By signing this well report, you certify that you drilled or supervised the drilling of this well and that each and all of the statements herein are true and correct.

Signature: <u>Edmund W. Blund</u>	Date: <u>2/15/16</u>	Name: _____
Licensed Driller/Pump Installer	Unlicensed Assistant (printed)	
TDLR FORM 001WWD / 11-13	TDLR (Original) OVER Landowner (copy)	Driller/Pump Installer (copy)

Cementer: Fill in shaded areas.
Operator: Fill in other items.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4-1-83
483-045

1. Operator's Name (As shown on Form P 5, Organization Report) Edmonds Waterwell Drilling		2. RRC Operator No.	3. RRC District No.	4. County of Well Site Heck
5. Field Name (Wildcat or exactly as shown on RRC records) William Sturgis			6. API No. 42-	7. Drilling Permit No.
8. Lease Name River Road RV		9. Rule 37 Case No.	10. Oil Lease Gas ID No.	11. Well No. 1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			2-8-16				
13. •Drilled hole size		12 1/2	12 1/2				
•Est. % wash or hole enlargement							
14. Size of casing (In. O.D.)		6"	6"				
15. Top of cement Screen from		300	400				
16. Setting depth (ft.)			400				
17. Number of centralizers used		0	0				
18. Hrs. waiting on cement before drill out			24				
1st Slurry	19. API cement used: No. of sacks ▶		35				
	Class ▶						
	Additives ▶						
2nd Slurry	No. of sacks ▶		42				
	Class ▶						
	Additives ▶						
3rd Slurry	No. of sacks ▶		36				
	Class ▶						
	Additives ▶						
1st	20. Slurry pumped: Volume (cu. ft.) ▶		7 gal Per 5xs				
	Height (ft.) ▶		245 gal				
2nd	Volume (cu. ft.) ▶		42 5xs				
	Height (ft.) ▶						
3rd	Volume (cu. ft.) ▶		36 5xs				
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?			yes				
22. Remarks 400' 6" 5DR17 PVC cement basket at 240 tremmie pipe cement 245 gal 16 lb cement to 105' - 24 hrs tremmie pipe 78 5xs to surface							

CEMENTING TO PLUG AND ABANDON	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5	PLUG # 6	PLUG # 7	PLUG # 8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lbs./gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Sidney Wade Blumenthal Name and title of cementer's representative
Edmonds Drilling Cementing Company
Sidney W. Blumenthal Signature
320 Roy St. Address
Center Point TX 76028 City, State, Zip Code
830-343-2259 Tel: Area Code Number
2-8-2016 Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Wade Blumenthal Typed or printed name of operator's representative
Driller Title
Sidney W. Blumenthal Signature
110 Conejo Dr Address
Center Point TX 76010 City, State, Zip Code
830-343-2259 Tel: Area Code Number
2 8 2016 Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules.
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (b) (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Attachment 5

Table 1 - Well Construction Summary

Table 2 - Aquifer Testing Summary

Table 3 - Summary of Aquifer Testing Analyses



Table 1 - Well Construction Summary

Well	Hole Diameter (in)	From (ft)	To (ft)	Casing/Screen Type	Casing Diameter (in)	From (ft)	To (ft)
Old River Road RV Resort Well No. 1 (HGCD Well No. 2475)	12 1/2	0	400	SDR 17 PVC Casing	6	0	295
				SDR 17 PVC Screen	6	295	395

Table 2 - Aquifer Testing Summary

Well	Static Water Level (ft bgs)	Static Water Level (ft MSL)	Q (gpm)	Drawdown (ft)	SC (gpm/ft)	Pumping Duration (hours)
Old River Road RV Resort Well No. 1 (HGCD Well No. 2475)	237.22	1,294.8	55	101.3	0.54	36.0

Notes: Q = discharge; SC = specific capacity; bgs = below ground surface; MSL = Mean Sea Level; gpm = gallons per minute; ft = feet

Table 3 - Summary of Aquifer Testing Analyses

Well	Analysis	b (ft)	T (ft ² /day)	K (ft/day)
Old River Road RV Resort Well No. 1 (HGCD Well No. 2475)	Cooper-Jacob	262	26.6	0.10

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

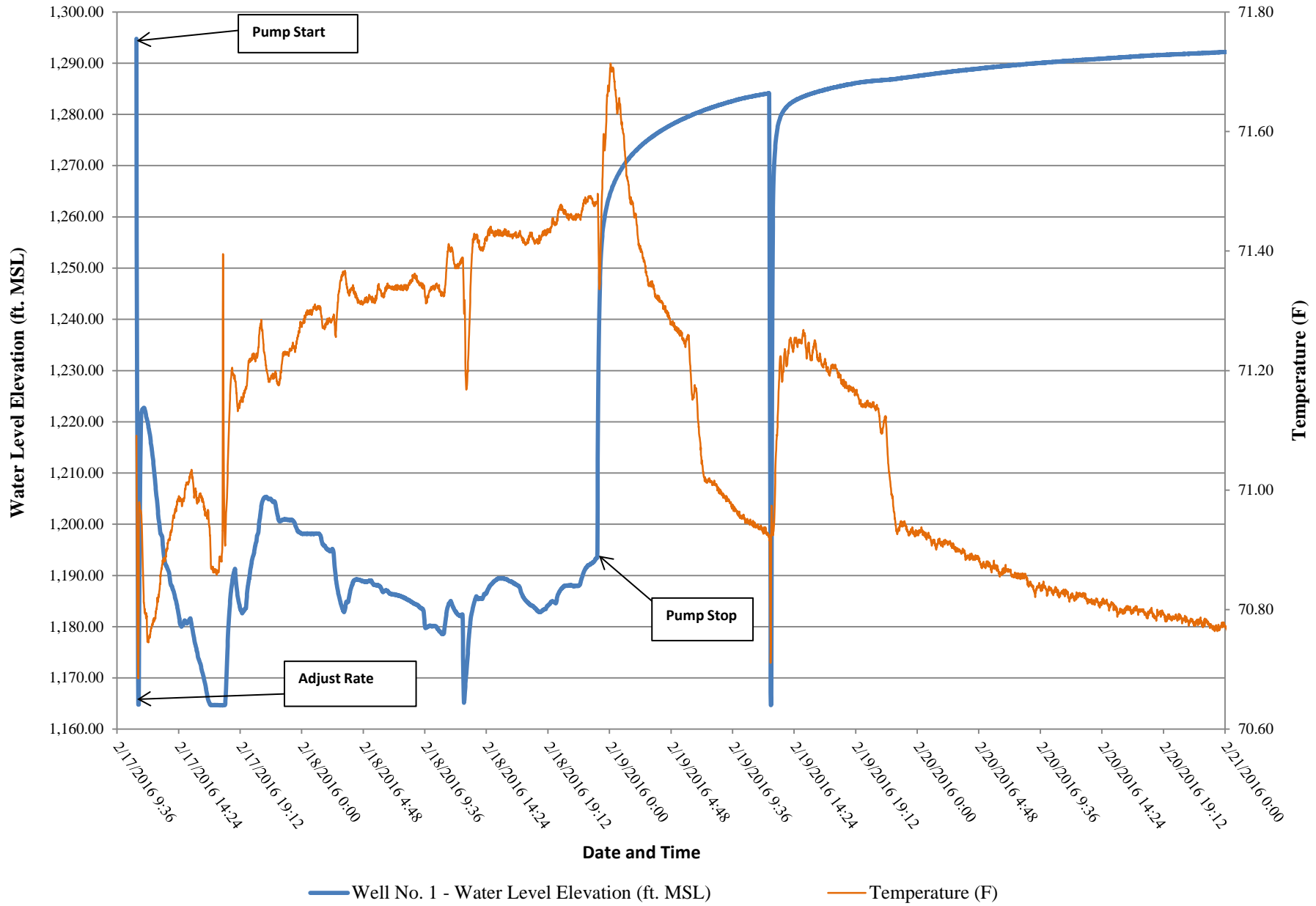


Attachment 6

Aquifer Test Drawdown and Temperature Curves



Old River Road RV Resort Well No. 1 - Aquifer Test (February 17, 2016)



Attachment 7

Aquifer Test Analyses





Wet Rock Groundwater Services, LLC
 Groundwater Specialists
 317 Ranch Road 620 S, Suite 203
 Austin, TX 78734
 Ph: 512.773.3226
 www.wetrockgs.com

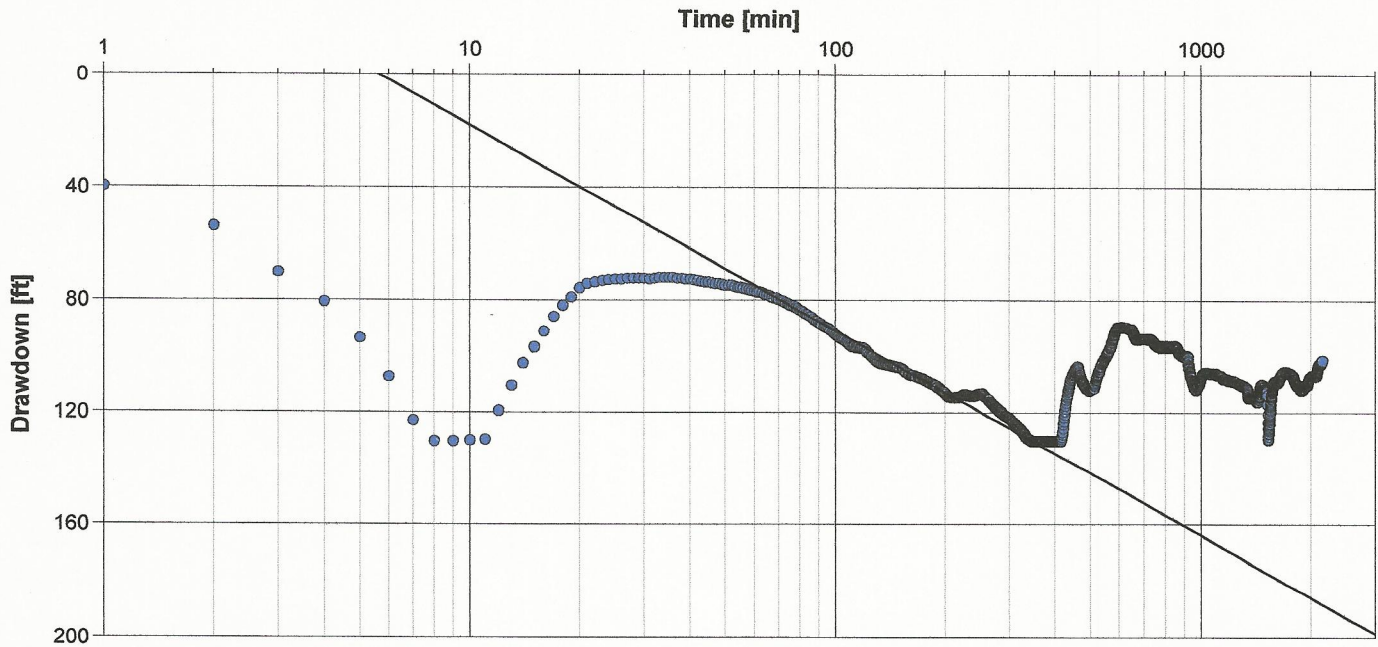
Pumping Test Analysis Report

Project: Old River Road RV Resort Well No. 1

Number: 072-001-16

Client: Headwaters GCD

Location: Kerr County, Texas	Pumping Test: HGCD Well No. 2475	Pumping Well: HGCD Well No. 2475
Test Conducted by: KK		Test Date: 2/17/2016
Analysis Performed by: AMW	Cooper & Jacob	Analysis Date: 2/23/2016
Aquifer Thickness: 262.00 ft	Discharge Rate: 55 [U.S. gal/min]	



Calculation using COOPER & JACOB

Observation Well	Transmissivity [ft ² /d]	Hydraulic Conductivity [ft/d]	Storage coefficient	Radial Distance to PW [ft]
HGCD Well No. 2475	2.66×10^1	1.01×10^{-1}		

Attachment 8

Aquifer Test Data



Old River Road RV Resort Well No. 1 - Aquifer Test (February 17, 2016)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temp. (F)	Water Level (ft. bgs)	Water Level (ft. MSL)	Drawdown (ft.)	Pump Rate (gpm)	Specific Capacity (gpm/ft.)	Comments
2/17/2016 11:07	0		71.09	237.22	1,294.78	0.00			Pump Start
2/17/2016 11:08	1		71.01	276.88	1,255.12	39.66			Meter Reading: 1,937,700 gallons
2/17/2016 11:09	2		70.93	291.30	1,240.70	54.08	185	3.42	
2/17/2016 11:10	3		70.86	307.28	1,224.72	70.06			
2/17/2016 11:11	4		70.80	317.66	1,214.34	80.44	170	2.11	
2/17/2016 11:12	5		70.75	330.71	1,201.30	93.48			
2/17/2016 11:13	6		70.72	344.55	1,187.45	107.32	170	1.58	
2/17/2016 11:14	7		70.69	360.14	1,171.86	122.91	150	1.22	
2/17/2016 11:15	8		70.69	367.22	1,164.78	130.00			
2/17/2016 11:16	9		70.74	367.24	1,164.76	130.01	62	0.48	
2/17/2016 11:17	10		70.82	367.21	1,164.79	129.99	62		
2/17/2016 11:18	11		70.92	366.83	1,165.17	129.61			
2/17/2016 11:19	12		70.98	356.66	1,175.34	119.44			
2/17/2016 11:20	13		70.98	347.54	1,184.46	110.32			
2/17/2016 11:21	14		70.98	339.49	1,192.51	102.27	63		
2/17/2016 11:22	15		70.97	334.01	1,197.99	96.79	63	0.65	
2/17/2016 11:23	16		70.97	328.36	1,203.64	91.14			
2/17/2016 11:24	17		70.96	323.06	1,208.95	85.83			
2/17/2016 11:25	18		70.96	319.01	1,213.00	81.78	64	0.78	
2/17/2016 11:26	19		70.97	316.21	1,215.80	78.98	64	0.81	
2/17/2016 11:27	20		70.96	312.90	1,219.10	75.68	64	0.85	
2/17/2016 11:32	25		70.94	309.87	1,222.13	72.65	66	0.91	
2/17/2016 11:37	30		70.86	309.61	1,222.39	72.39	66	0.91	
2/17/2016 11:42	35		70.81	309.26	1,222.74	72.03	66	0.92	
2/17/2016 11:52	45		70.79	310.93	1,221.07	73.71	65	0.88	
2/17/2016 12:07	60		70.76	313.94	1,218.06	76.72	65	0.85	
2/17/2016 12:22	75		70.77	318.74	1,213.26	81.52	63	0.77	
2/17/2016 12:37	90		70.80	325.09	1,206.91	87.87	62	0.71	
2/17/2016 12:47	100		70.81	329.47	1,202.53	92.25	61	0.66	

Note: bgs = below ground surface Column Pipe Diameter = 3-inch galv. Horsepower = 30 HP
 MSL = Mean Sea Level Pump Setting = 357 ft

Old River Road RV Resort Well No. 1 - Aquifer Test (February 17, 2016)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temp. (F)	Water Level (ft. bgs)	Water Level (ft. MSL)	Drawdown (ft.)	Pump Rate (gpm)	Specific Capacity (gpm/ft.)	Comments
2/17/2016 12:57	110		70.84	333.36	1,198.64	96.14	60	0.62	
2/17/2016 13:07	120		70.88	334.43	1,197.57	97.21	60	0.62	
2/17/2016 14:07	180		70.97	346.27	1,185.73	109.05	57	0.52	
2/17/2016 15:07	240		71.01	351.07	1,180.93	113.85	55	0.48	
2/17/2016 15:42	275		71.00	355.44	1,176.56	118.22	55	0.47	
2/17/2016 16:07	300		70.99	359.44	1,172.56	122.22			
2/17/2016 17:07	360		70.86	367.31	1,164.70	130.08			
2/17/2016 17:47	400		70.90	367.33	1,164.67	130.11			
2/17/2016 18:47	460		71.19	340.79	1,191.21	103.57			
2/17/2016 19:47	520		71.19	344.46	1,187.54	107.24			
2/17/2016 20:47	580		71.27	329.76	1,202.24	92.54			
2/17/2016 21:47	640		71.19	327.57	1,204.43	90.35			
2/17/2016 22:47	700		71.23	331.11	1,200.89	93.89			
2/17/2016 23:47	760		71.27	333.47	1,198.53	96.25			
2/18/2016 0:47	820		71.29	333.90	1,198.10	96.68			
2/18/2016 1:47	880		71.27	336.26	1,195.74	99.04			
2/18/2016 2:47	940		71.31	344.62	1,187.38	107.40			
2/18/2016 3:47	1000		71.33	345.07	1,186.94	107.84			
2/18/2016 4:47	1060		71.31	343.15	1,188.86	105.92			
2/18/2016 5:47	1120		71.32	343.91	1,188.09	106.69			
2/18/2016 6:47	1180		71.34	345.25	1,186.75	108.03			
2/18/2016 7:47	1240		71.34	346.09	1,185.91	108.87			
2/18/2016 8:47	1300		71.36	347.52	1,184.48	110.30			
2/18/2016 9:47	1360		71.32	352.07	1,179.93	114.84			
2/18/2016 10:47	1420		71.33	352.98	1,179.03	115.75			
2/18/2016 11:47	1480		71.40	348.09	1,183.91	110.87			
2/18/2016 12:47	1540		71.19	362.62	1,169.38	125.40			
2/18/2016 13:47	1600		71.41	346.55	1,185.45	109.33			
2/18/2016 14:47	1660		71.43	343.74	1,188.26	106.52			

Note: bgs = below ground surface Column Pipe Diameter = 3-inch galv. Horsepower = 30 HP
 MSL = Mean Sea Level Pump Setting = 357 ft

Old River Road RV Resort Well No. 1 - Aquifer Test (February 17, 2016)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temp. (F)	Water Level (ft. bgs)	Water Level (ft. MSL)	Drawdown (ft.)	Pump Rate (gpm)	Specific Capacity (gpm/ft.)	Comments
2/18/2016 15:47	1720		71.43	342.64	1,189.36	105.42			
2/18/2016 16:47	1780		71.43	343.86	1,188.14	106.64			
2/18/2016 17:47	1840		71.43	347.67	1,184.33	110.45			
2/18/2016 18:47	1900		71.43	348.83	1,183.17	111.61			
2/18/2016 19:47	1960		71.45	347.38	1,184.62	110.16			
2/18/2016 20:47	2020		71.46	343.92	1,188.08	106.70			
2/18/2016 21:47	2080		71.46	342.99	1,189.01	105.77			
2/18/2016 23:01	2154		71.48	338.47	1,193.53	101.25			
2/18/2016 23:02	2155	0	71.48	338.54	1,193.46	101.32	55	0.54	Pump Stop
2/18/2016 23:03	2156	1	71.48	337.15	1,194.85	99.93			Meter Reading: 2,039,400 gallons
2/18/2016 23:04	2157	2	71.48	328.76	1,203.24	91.54			Avg. Pump Rate = 47 gpm
2/18/2016 23:05	2158	3	71.50	319.35	1,212.65	82.13			
2/18/2016 23:06	2159	4	71.49	313.20	1,218.80	75.97			
2/18/2016 23:07	2160	5	71.46	307.81	1,224.19	70.59			
2/18/2016 23:08	2161	6	71.43	303.12	1,228.88	65.89			
2/18/2016 23:09	2162	7	71.40	299.22	1,232.78	62.00			
2/18/2016 23:10	2163	8	71.38	296.03	1,235.97	58.81			
2/18/2016 23:11	2164	9	71.35	293.15	1,238.85	55.93			
2/18/2016 23:12	2165	10	71.34	290.80	1,241.20	53.58			
2/18/2016 23:13	2166	11	71.34	288.62	1,243.38	51.40			
2/18/2016 23:14	2167	12	71.34	286.76	1,245.24	49.54			
2/18/2016 23:15	2168	13	71.35	285.04	1,246.96	47.81			
2/18/2016 23:16	2169	14	71.35	283.83	1,248.17	46.60			
2/18/2016 23:17	2170	15	71.37	282.48	1,249.52	45.26			
2/18/2016 23:22	2175	20	71.46	278.11	1,253.89	40.88			
2/18/2016 23:27	2180	25	71.52	275.25	1,256.75	38.02			
2/18/2016 23:32	2185	30	71.60	273.44	1,258.56	36.22			
2/18/2016 23:47	2200	45	71.65	269.88	1,262.12	32.65			
2/19/2016 0:02	2215	60	71.70	267.56	1,264.44	30.34			

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Old River Road RV Resort Well No. 1 - Aquifer Test (February 17, 2016)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temp. (F)	Water Level (ft. bgs)	Water Level (ft. MSL)	Drawdown (ft.)	Pump Rate (gpm)	Specific Capacity (gpm/ft.)	Comments
2/19/2016 0:32	2245	90	71.65	264.42	1,267.58	27.20			
2/19/2016 1:02	2275	120	71.60	262.24	1,269.76	25.01			
2/19/2016 2:02	2335	180	71.46	259.13	1,272.88	21.90			
2/19/2016 3:02	2395	240	71.34	256.89	1,275.11	19.67			
2/19/2016 4:02	2455	300	71.32	255.16	1,276.84	17.94			
2/19/2016 5:02	2515	360	71.28	253.72	1,278.28	16.50			
2/19/2016 6:02	2575	420	71.25	252.55	1,279.45	15.32			
2/19/2016 7:02	2635	480	71.09	251.52	1,280.48	14.29			
2/19/2016 8:02	2695	540	71.01	250.65	1,281.35	13.43			
2/19/2016 9:02	2755	600	70.99	249.81	1,282.19	12.59			
2/19/2016 10:02	2815	660	70.96	249.10	1,282.90	11.88			
2/19/2016 11:02	2875	720	70.94	248.54	1,283.46	11.31			
2/19/2016 12:02	2935	780	70.93	248.06	1,283.94	10.84			
2/19/2016 13:02	2995	840	71.09	255.78	1,276.23	18.55			
2/19/2016 14:02	3055	900	71.25	250.03	1,281.97	12.80			
2/19/2016 15:02	3115	960	71.26	248.62	1,283.38	11.39			
2/19/2016 16:02	3175	1020	71.25	247.73	1,284.27	10.51			
2/19/2016 17:02	3235	1080	71.20	247.03	1,284.97	9.81			
2/19/2016 18:02	3295	1140	71.18	246.44	1,285.56	9.22			
2/19/2016 19:02	3355	1200	71.17	245.96	1,286.04	8.74			
2/19/2016 20:02	3415	1260	71.14	245.61	1,286.39	8.39			
2/19/2016 21:02	3475	1320	71.12	245.37	1,286.63	8.15			
2/19/2016 22:02	3535	1380	70.99	245.21	1,286.79	7.99			
2/19/2016 23:02	3595	1440	70.94	244.85	1,287.15	7.63			
2/20/2016 0:02	3655	1500	70.93	244.49	1,287.52	7.26			
2/20/2016 1:02	3715	1560	70.92	244.18	1,287.82	6.96			
2/20/2016 2:02	3775	1620	70.91	243.82	1,288.18	6.60			
2/20/2016 3:02	3835	1680	70.90	243.60	1,288.40	6.38			
2/20/2016 4:02	3895	1740	70.89	243.24	1,288.76	6.02			

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Old River Road RV Resort Well No. 1 - Aquifer Test (February 17, 2016)

Date and Time	Time Since Pump Start (min)	Time Since Pump Stop (min)	Temp. (F)	Water Level (ft. bgs)	Water Level (ft. MSL)	Drawdown (ft.)	Pump Rate (gpm)	Specific Capacity (gpm/ft.)	Comments
2/20/2016 5:02	3955	1800	70.87	242.99	1,289.02	5.76			
2/20/2016 6:02	4015	1860	70.87	242.75	1,289.26	5.52			
2/20/2016 7:02	4075	1920	70.87	242.50	1,289.50	5.28			
2/20/2016 8:02	4135	1980	70.85	242.31	1,289.69	5.08			
2/20/2016 9:02	4195	2040	70.84	242.07	1,289.93	4.84			
2/20/2016 10:02	4255	2100	70.83	241.90	1,290.10	4.67			
2/20/2016 11:02	4315	2160	70.83	241.68	1,290.32	4.45			
2/20/2016 13:02	4435	2280	70.82	241.31	1,290.69	4.09			
2/20/2016 15:02	4555	2400	70.80	241.01	1,290.99	3.78			
2/20/2016 17:02	4675	2520	70.80	240.65	1,291.35	3.42			
2/20/2016 19:02	4795	2640	70.79	240.40	1,291.60	3.18			
2/20/2016 21:02	4915	2760	70.78	240.18	1,291.82	2.96			
2/20/2016 23:02	5035	2880	70.77	239.93	1,292.07	2.70			
2/21/2016 1:02	5155	3000	70.77	239.68	1,292.32	2.46			
2/21/2016 3:02	5275	3120	70.76	239.42	1,292.58	2.20			
2/21/2016 5:02	5395	3240	70.75	239.20	1,292.80	1.98			
2/21/2016 7:02	5515	3360	70.75	239.00	1,293.00	1.77			
2/21/2016 9:02	5635	3480	70.75	238.80	1,293.20	1.58			
2/21/2016 11:02	5755	3600	70.74	238.63	1,293.38	1.40			
2/21/2016 15:02	5995	3840	70.74	238.29	1,293.71	1.07			
2/21/2016 19:02	6235	4080	70.73	238.04	1,293.96	0.82			
2/21/2016 23:02	6475	4320	70.73	237.80	1,294.20	0.58			
2/22/2016 1:22	6615	4460	70.73	237.66	1,294.34	0.44			
2/22/2016 5:22	6855	4700	70.72	237.39	1,294.61	0.16			
2/22/2016 7:19	6972	4817	70.72	237.23	1,294.77	0.01			

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