



SPF Water Engineering, LLC
water resource consultants

March 19, 2006

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Mr. Steve Lester
Water Rights Supervisor
Idaho Department of Water Resources
2735 Airport Way
Boise, ID 83705

Subject: Well Pumping Test Associated With Water Right Permit 63-31957

Dear Steve:

In accordance with the Stipulation To Withdraw Protest in the Matter of Application for Permit No. 63-31957, signed on April 7, 2005 by Kenneth and Sue Bricker, this letter presents pumping test data for the Bittercreek Well. A copy of the Stipulation is attached for reference purposes.

The Bittercreek Well is constructed with well screens between 445 feet and 561 feet. A bentonite surface seal extends from ground surface to 422 feet. A well driller's report is attached.

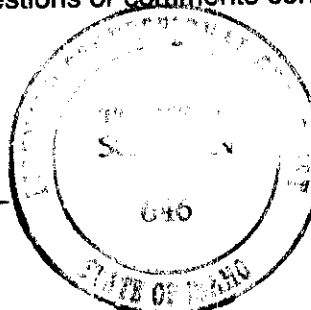
The Bittercreek Well was test pumped on December 5, 2005 for 13 hours at an average pumping rate of 1365 gpm. Total drawdown in the Bittercreek Well was 36.8 feet. Pumping rate throughout the test period was greater than 1,000 gpm, and pumping rate during the final four hours of pumping was in excess of 1,212 gpm, as required by the Stipulation.

Water levels were monitored during the test period in the 162-foot deep Bricker Domestic Well. The Bricker Well is located approximately 1200 feet to the southwest from the Bittercreek Well. The water levels in the Bricker Well were stable throughout the 13-hour test period, with a measured variation of 0.03 feet. The accuracy of the measurements are ± 0.02 feet. Based on these measurements, I conclude that pumping of the Bittercreek Well at 1365 gpm for 13 hours caused no detectable water-level response at the Bricker Well. This analysis demonstrates that operation of the Bittercreek Well will not cause the Bricker Well to be drawn down in excess of 10 feet.

Please contact me with any questions or comments concerning this pumping test analysis.

Sincerely,

Terry M. Scanlan, P.E., P.G.



Cc: Ken and Sue Bricker
Jim Jewett

Mar 31 05:05:05p

Ron Williams

208-34 1633

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BEFORE THE DEPARTMENT OF WATER RESOURCES OF
THE STATE OF IDAHO

IN THE MATTER OF APPLICATION FOR
WATER RIGHT NO. 63-31957 IN THE
NAME OF JLJ ENTERPRISES

STIPULATION TO WITHDRAW
PROTEST

COMES NOW, the protestants, Sue and Kenneth Bricker (hereinafter "Brickers"), together with the applicant, JLJ Enterprises, Inc. (hereinafter "JLJ"), and hereby enter into this Stipulation to withdraw Brickers' protest to the above referenced Application for Water Right.

FACIS

JLJ submitted an Application for Water Right Permit No. 63-31957 to IDWR to appropriate groundwater in Meridian, Idaho on or about May 26, 2004. The application proposes installation of a well (Bittercreek Well) to provide domestic water for 24 homes (0.47 cfs) and fire protection (2.23 cfs). Brickers filed a protest against the application on July 29, 2004. Brickers own a domestic well ("Bricker Well") located approximately 1200 feet away from JLJ's proposed Bittercreek Well. Brickers hold water right no. 63-31852 which is diverted from the Bricker Well. The basis of Brickers' protest is the possibility that well interference from the Bittercreek Well may injure the Bricker Well and water right. Brickers will withdraw their protest to JLJ's application for a water right permit if the parties agree to the terms of the stipulation as set out below.

STIPULATION

To effectuate the Withdrawal of Protest, the parties stipulate and agree that Bricker will withdraw their protest, and that a permit for Water Right no. 63-31957 may be granted contingent upon the following conditions:

1. JLJ will conduct a pumping test on the Bittercreek Well, once it is installed. JLJ will monitor the static water level in the Bricker Well during test pumping of the Bittercreek Well. The Bittercreek Well will be pumped continuously at a minimum rate of 1,000 gpm for at least nine (9) hours for the test purposes and continuing at a rate of at least 1,212 gpm for at least four (4) additional hours for test purposes, or at the well's maximum yield if less than the foregoing. The measurements, including measurements of the Bricker Well, and an analysis of the pumping test shall be completed by a registered professional engineer or professional geologist and will be reported to the Idaho Department of Water Resources ("IDWR") as a condition of the water right permit and will be simultaneously supplied to the Brickers.

2. If the analysis of the pumping test of the Bittercreek Well shows that the operation of the Bittercreek Well under the conditions authorized by the permit (i.e., continuous pumping at rates up to 0.47 cfs and pumping at a rate of 2.7 cfs for fire fighting for periods of up to four (4) hours will cause the Bricker Well to be drawn down in excess of ten (10) feet, JLJ will, at its election, either engineer and implement a proposed solution thereto or forfeit to Brickers the letter of credit described in paragraph 4 below. If JLJ elects to engineer a solution, JLJ shall deliver a written description thereof to Brickers within ten (10) days of the completion of the test

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DEPARTMENT OF WATER RESOURCES

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pumping, whereupon Brickers shall have ten (10) days within which to comment in writing to JLI and JLI shall have a further 10 days to respond to Brickers' comments. If the parties reach agreement on the engineered solution to the interference described herein, then JLI shall, at its expense, implement the same within a reasonable time not to exceed 90 days. If the parties can not agree upon a solution to the interference described herein, then the dispute shall be submitted to binding arbitration to be conducted by an arbitrator experienced in water right matters as the parties may agree upon. Such arbitration shall be conducted pursuant to the rules for commercial arbitration of the American Arbitration Association, or such other rules as the parties may agree upon. The prevailing party in arbitration shall be entitled to an award of attorney fees and costs incurred that are related to the arbitration.

3. JLI will have no obligations hereunder if the Bricker Well loses productivity from a cause other than the authorized operation of the Bittercreek Well.

4. As security for the performance of its obligations hereunder, JLI shall deliver to the Brickers a non-revocable letter of credit in the principal sum of \$6,000.00 conditioned on JLI's faithful performance of its obligations under this agreement, which said letter of credit shall be payable to Brickers in the event JLI shall be in material breach of its obligations hereunder or in the event JLI elects or is required to forfeit the same as provided in this Stipulation. The Brickers may continue to hold the non-revocable letter of credit until the "engineered solution" and/or the arbitrator's decision have been successfully implemented. If either is not successfully implemented, due to no fault of the Brickers, the non-revocable letter of credit shall be deemed forfeited to the Brickers.

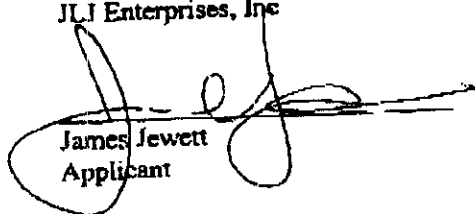
5. If a suit, action, or other proceeding arising out of or relating to this Stipulation is instituted by either party to this Stipulation, the prevailing party shall be entitled to recover its reasonable attorney fees and costs.

DATED This 1 day of April, 2005.


Kenneth Bricker
Sue Bricker

DATED This 31 day of March, 2005.

JLI Enterprises, Inc


James Jewett
Applicant

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Well ID No. _____
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0042022
DRILLING PERMIT NO. 891279-836283
Water Right or Injection Well No. 63-31957

2. OWNER:
Name JIM JEWITT / JLT ENTERPRISES INC
Address 516 S. CAPITOL BLVD
City BOISE State ID Zip 83702

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub, or Directions to well.

Twp. 3 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 34 1/4 NW 1/4 NE 1/4
Gov't Lot _____ County ADA

Lat: _____ Long: _____
Address of Well Site AMITY ROAD EAST OF TEN MILE
City KUNA

Lt. _____ Blk. _____ Sub. Name _____
BITTERCREEK MEADOWS SUBDIVISION

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>3/4" BENTONITE</u>	<u>0</u>	<u>422</u>	<u>45,000</u>	<u>DRY POUR</u>
<u>3/4" BENTONITE</u>	<u>565</u>	<u>615</u>	<u>3,000</u>	<u>DRY POUR</u>
<u>3/4" BENTONITE</u>	<u>678</u>	<u>700</u>	<u>2,000</u>	<u>DRY POUR</u>

Was drive shoe seal tested? ☐ Y ☒ N How?

ACK FILL: 3/4" GRAVEL 615'-678'

8. CASING/LINER: 78" GRAVEL 700'-755'
18" ID REDUCER @ 302'

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>18"</u>	<u>+3</u>	<u>302</u>	<u>.375</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>10"</u>	<u>302</u>	<u>445</u>	<u>.365</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>10"</u>	<u>445</u>	<u>498</u>	<u>.365</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Casing 541 Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>445</u>	<u>485</u>	<u>.030</u>		<u>10"</u>	<u>S.S.</u>	☒	☐
<u>498</u>	<u>528</u>	<u>.030</u>		<u>10"</u>	<u>S.S.</u>	☒	☐
<u>541</u>	<u>561</u>	<u>.030</u>		<u>10"</u>	<u>S.S.</u>	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>#8-12 SAND</u>	<u>422</u>	<u>565</u>	<u>27,000</u>	<u>DRY POUR</u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

97 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices:
1 1/2" PIPE ON SIDE

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>1300 gpm</u>	<u>32'</u>	<u>129'</u>	<u>13 hrs</u>

Water Temp. 67° Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>26"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>		
	<u>2</u>	<u>7</u>	<u>CALICHE, LAVA BOULDERS</u>		
	<u>7</u>	<u>42</u>	<u>BASALT</u>		
	<u>42</u>	<u>45</u>	<u>RED CINDERS</u>		
	<u>45</u>	<u>48</u>	<u>CALICHE, BURNT CLAY</u>		
	<u>48</u>	<u>83</u>	<u>SAND, GRAVEL, RIVER ROCK CEMENTED</u>		
	<u>83</u>	<u>149</u>	<u>FINE - COARSE SAND</u>		
	<u>149</u>	<u>152</u>	<u>LT BRN CLAY</u>		
	<u>152</u>	<u>254</u>	<u>FINE - COARSE SAND SOME SM GRAVEL</u>		
	<u>254</u>	<u>285</u>	<u>LT BRN CLAY</u>		
	<u>285</u>	<u>310</u>	<u>FINE - COARSE BRN SAND</u>		
	<u>310</u>	<u>323</u>	<u>BRN CLAY SOME SAND</u>		
	<u>323</u>	<u>337</u>	<u>FINE SAND, SOME COARSE</u>		
	<u>337</u>	<u>342</u>	<u>BRN CLAY SOME FINE SAND</u>		
	<u>342</u>	<u>351</u>	<u>FINE SAND</u>		
	<u>351</u>	<u>379</u>	<u>LT BRN CLAY w/STREAKS OF SAND</u>		
	<u>379</u>	<u>396</u>	<u>FINE - MED SAND</u>		
	<u>396</u>	<u>402</u>	<u>BRN CLAY</u>		
	<u>402</u>	<u>416</u>	<u>FINE - MED SAND</u>		
	<u>416</u>	<u>426</u>	<u>BRN + BLUE CLAY</u>		
	<u>426</u>	<u>439</u>	<u>FINE BLUE SAND</u>		
	<u>439</u>	<u>452</u>	<u>BLUE + GREENISH GREY CLAY</u>		
	<u>452</u>	<u>460</u>	<u>FINE - COARSE SAND SOME CLAY MIXED</u>		
	<u>460</u>	<u>540</u>	<u>BLUE CLAY w/SM LAYER SAND</u>		
	<u>540</u>	<u>586</u>	<u>FINE - MED SAND SOME CLAY</u>		
	<u>586</u>	<u>593</u>	<u>BLUE GREEN CLAY</u>		
	<u>593</u>	<u>667</u>	<u>FINE - COARSE SAND w/SM CLAY LAYERS</u>		
	<u>667</u>	<u>674</u>	<u>BLUE GREENISH CLAY</u>		
	<u>674</u>	<u>676</u>	<u>FINE - MED SAND</u>		
	<u>676</u>	<u>706</u>	<u>GREENISH BLUE CLAY</u>		
	<u>706</u>	<u>716</u>	<u>MED SAND</u>		
	<u>716</u>	<u>755</u>	<u>GREENISH CLAY w/GREY 2" @</u>		
			<u>BOTTOM</u>		

Completed Depth 561' (Measurable)

Date: Started 10-17-05 Completed 12-5-05

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name RIVERSIDE, INC Firm No. 333

Principal Driller Ralph Chasler Date 12-5-05

Driller or Operator [Signature] Date 12-5-05

Operator [Signature] Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller.

Bittercreek Well Step Q = 500, 900, 1200, 1500 gpm, Constant Q = 1300 gpm

Test conducted by: SPF Water and Riverside

Flow measured by: Flowmeter

Water Levels Measured by: well sounder Water Level MP: top of tubing

MP elevation: 1.2 ft above top of well casing

Pump on: 12/2/2005 12:07 Pump off: 12/2/2005 14:12

Pump on: 12/5/2005 8:38 Pump off: 12/5/2005 21:41

water level pre-test (ft) on 12/2: 97.4 (note: pump off for only ~1 hr 20 min preceding test)

static water level (ft) on 12/5: 92.25 (note: pump off for 2+ days preceding test)

Date	Time	Depth to water (ft)	Elapsed Time (min)	Drawdown (ft)	Remarks	Qtot (gal)	Qave (gpm)	Cumulative Qave (gpm)
12/2	12:07		0	0.00	Pump On (Qtot=4,992,400 gal)	4,992,400	555	555
12/2	12:08	108.15	1	15.90	Q~500 gpm			
12/2	12:09	105.02	2	12.77	Sulfur smell noticeable			
12/2	12:10	106.30	3	14.05				
12/2	12:11	106.20	4	13.95				
12/2	12:12	106.65	5	14.40				
12/2	12:17	107.07	10	14.82				
12/2	12:22	107.58	15	15.33				
12/2	12:27		20		pH=8.21, T=24.0C, EC/SC=322.3/323.3			
12/2	12:29	107.61	22	15.36				
12/2	12:34	107.92	27	15.67				
12/2	12:37	107.92	30	15.67				
12/2	12:38		31		Flow increase (Qtot=5,009,600 gal)	5,009,600	994	994
12/2	12:41	116.90	34	24.65	Q~900 gpm			
12/2	12:46	117.33	39	25.08				
12/2	12:51	117.74	44	25.49				
12/2	12:52		45		pH=8.13, T=23.7C, EC/SC=321.7/322.2			
12/2	12:57	117.97	50	25.72				
12/2	13:03	118.28	56	26.03				
12/2	13:08	118.37	61	26.12				
12/2	13:09		62		Flow increase (Qtot=5,040,400 gal)	5,040,400		

Date	Time	Depth to water (ft)	Elapsed Time (min)	Drawdown (ft)	Remarks	Qtot (gal)	Qave (gpm)	Cumulative Qave (gpm)
12/2	13:10	122.58	63	30.33	Q~1200 gpm		1,236	1,236
12/2	13:15	123.37	68	31.12				
12/2	13:20	123.60	73	31.35				
12/2	13:21		74		pH=8.28, T=23.0C, EC/SC=318.2/322.1			
12/2	13:25	123.71	78	31.46				
12/2	13:30	123.97	83	31.72				
12/2	13:40	124.21	93	31.96				
12/2	13:42		95		Flow increase (Qtot=5,081,200 gal)	5,081,200	1,587	1,587
12/2	13:45	132.38	98	40.13	Q~1500 gpm			
12/2	13:50	133.43	103	41.18				
12/2	13:55	133.85	108	41.60				
12/2	14:00	134.05	113	41.80				
12/2	14:11	134.56	124	42.31				
12/2	14:12		125		Pump Off - flooding irrigation box, Qtot=5,128,800 gal	5,128,800		
12/5	8:05	92.25		0.00	Static water level		1,168	1,168
12/5	8:38		0		Pump On (Qtot=5,128,800 gal)	5,128,800		
12/5	8:39		1		Q~1300			
12/5	8:41	110.60	3	18.35	Sulfur smell again noticeable			
12/5	8:42	113.42	4	21.17				
12/5	8:43	113.97	5	21.72				
12/5	8:44	114.44	6	22.19				
12/5	8:45	114.78	7	22.53				
12/5	8:46	114.98	8	22.73				
12/5	8:47	115.27	9	23.02				
12/5	8:48	115.47	10	23.22				
12/5	8:49	115.67	11	23.42				
12/5	8:51	115.85	13	23.60				
12/5	8:53	116.23	15	23.98				
12/5	8:55	116.23	17	23.98				
12/5	8:57	116.44	19	24.19				
12/5	8:59	116.57	21	24.32				
12/5	9:00		22		Qtot=5,154,500 gal, Q readjusted slightly to 1300 gpm	5,154,500		

Date	Time	Depth to water (ft)	Elapsed Time (min)	Drawdown (ft)	Remarks	Qtot (gal)	Qave (gpm)	Cumulative Qave (gpm)
12/5	9:04	119.80	26	27.55			1,323	1,268
12/5	9:08		30		pH=8.05, T=23.5C, SC/EC=314.9/317.5			
12/5	9:12	120.38	34	28.13				
12/5	9:16	120.71	38	28.46				
12/5	9:20	120.89	42	28.64				
12/5	9:24	121.05	46	28.80				
12/5	9:29	121.31	51	29.06				
12/5	9:39	121.61	61	29.36				
12/5	9:40		62		Qcheck: Q~1300, Qtot=5,207,400 gal	5,207,400	1,304	1,284
12/5	9:48	121.94	70	29.69				
12/5	9:51		73		pH=8.02, T=24.1C, SC/EC=319.5/317.7			
12/5	9:58	122.00	80	29.75				
12/5	10:08	122.24	90	29.99				
12/5	10:23	122.64	105	30.39				
12/5	10:33		115		Qtot=5,276,500 gal, Q readjusted slightly to 1300 gpm	5,276,500		
12/5	10:38	124.95	120	32.70			1,401	1,335
12/5	10:43		125		pH=8.02, T=23.9C, SC/EC=317.2/317.2			
12/5	10:52	125.21	134	32.96				
12/5	11:08	125.64	150	33.39				
12/5	11:23	125.83	165	33.58				
12/5	11:38	126.12	180	33.87				
12/5	11:43		185		From sample tap (rather than discharge): pH=8.15, T=22.2C, SC/EC=309.1/321.0			
12/5	12:02		204		Qcheck~1300, Qtot=5,401,200 gal	5,401,200		
12/5	12:04	126.32	206	34.07			1,399	1,366
12/5	12:37	126.09	239	33.84	Data from Riverside			
12/5	13:08	127.00	270	34.75	Data from Riverside			
12/5	13:32	127.01	294	34.76	Data from Riverside			
12/5	14:03	127.00	325	34.75	Data from Riverside			
12/5	14:08	127.03	330	34.78	Data from Riverside			
12/5	14:43	127.02	365	34.77	Data from Riverside			
12/5	15:05	127.00	387	34.75	Data from Riverside (Qtot=5,657,300)	5,657,300		

Date	Time	Depth to water (ft)	Elapsed Time (min)	Drawdown (ft)	Remarks	Qtot (gal)	Qave (gpm)	Cumulative Qave (gpm)
12/5	15:44	127.02	426	34.77	Data from Riverside		1,526	1,388
12/5	16:06	127.10	448	34.85	Data from Riverside (Qtot=5,750,400)	5,750,400		
12/5	16:27	127.07	469	34.82	Data from Riverside		1,247	1,371
12/5	17:06	127.09	508	34.84	Data from Riverside (Qtot=5,825,200)	5,825,200		
12/5	17:30	127.11	532	34.86	Data from Riverside		1,336	1,367
12/5	18:05	128.01	567	35.76	Data from Riverside (Qtot=5,904,000)	5,904,000		
12/5	18:31	128.00	593	35.75	Data from Riverside		1,402	1,370
12/5	19:02	128.00	624	35.75	Data from Riverside (Qtot=5,983,900)	5,983,900		
12/5	19:36	128.02	658	35.77	Data from Riverside		1,358	1,369
12/5	19:57	128.04	679	35.79	Data from Riverside (Qtot=6,058,600)	6,058,600		
12/5	20:31	128.08	713	35.83	Data from Riverside		1,373	1,370
12/5	21:01	128.11	743	35.86	Data from Riverside (Qtot=6,146,500)	6,146,500		
12/5	21:15	128.70	757	36.45			1,275	1,365
12/5	21:40	129.05	782	36.80				
12/5	21:41		783		Pump Off (Qtot=6,197,500)	6,197,500		

Bittercreek Well Step Q = 500, 900, 1200, 1500 gpm, Constant Q = 1300 gpm

Test conducted by: SPF Water and Riverside

Flow measured by: Flowmeter

Water Levels Measured by: well sounder Water Level MP: top of tubing

MP elevation: 1.2 ft above top of well casing

Pump on: 12/2/2005 12:07 Pump off: 12/2/2005 14:12

Pump on: 12/5/2005 8:38 Pump off: 12/5/2005 21:41

static water level (ft) on 12/2: 97.4

(note: pump off for approx 1 hr 20 min preceding test)

static water level (ft) on 12/5: 92.25

Date	Time	Depth to water (ft)	Elapsed Time, t (min)	Recovery Time, t' (min)	t/t'	Drawdown (ft)	Remarks
12/5	8:05	92.25					Static water level
12/5	8:38		0			0.00	Pump On (Qtot=5,128,800 gal)
12/5	21:41		783				Pump Off (Qtot=6,197,500)
12/5	21:43	104.85	785	2	392.5	12.60	
12/5	21:44	103.20	786	3	262.0	10.95	
12/5	21:45	102.00	787	4	196.8	9.75	
12/5	21:46	101.41	788	5	157.6	9.16	
12/5	21:47	100.71	789	6	131.5	8.46	
12/5	21:48	100.95	790	7	112.9	8.70	
12/5	21:49	101.08	791	8	98.9	8.83	
12/5	21:50	100.95	792	9	88.0	8.70	
12/5	21:51	100.74	793	10	79.3	8.49	
12/5	21:53	100.42	795	12	66.3	8.17	
12/5	21:55	100.24	797	14	56.9	7.99	
12/5	21:57	99.94	799	16	49.9	7.69	
12/5	21:59	99.71	801	18	44.5	7.46	
12/5	22:01	99.55	803	20	40.2	7.30	
12/5	22:06	99.31	808	25	32.3	7.06	
12/5	22:11	98.77	813	30	27.1	6.52	
12/5	22:21	98.14	823	40	20.6	5.89	
12/5	22:31	97.74	833	50	16.7	5.49	
12/5	22:47	97.17	849	66	12.9	4.92	

Bricker Well (Observation)

Test conducted by: SPF Water and Riverside

Water Levels Measured by: well sounder

Water Level MP: top of well casing

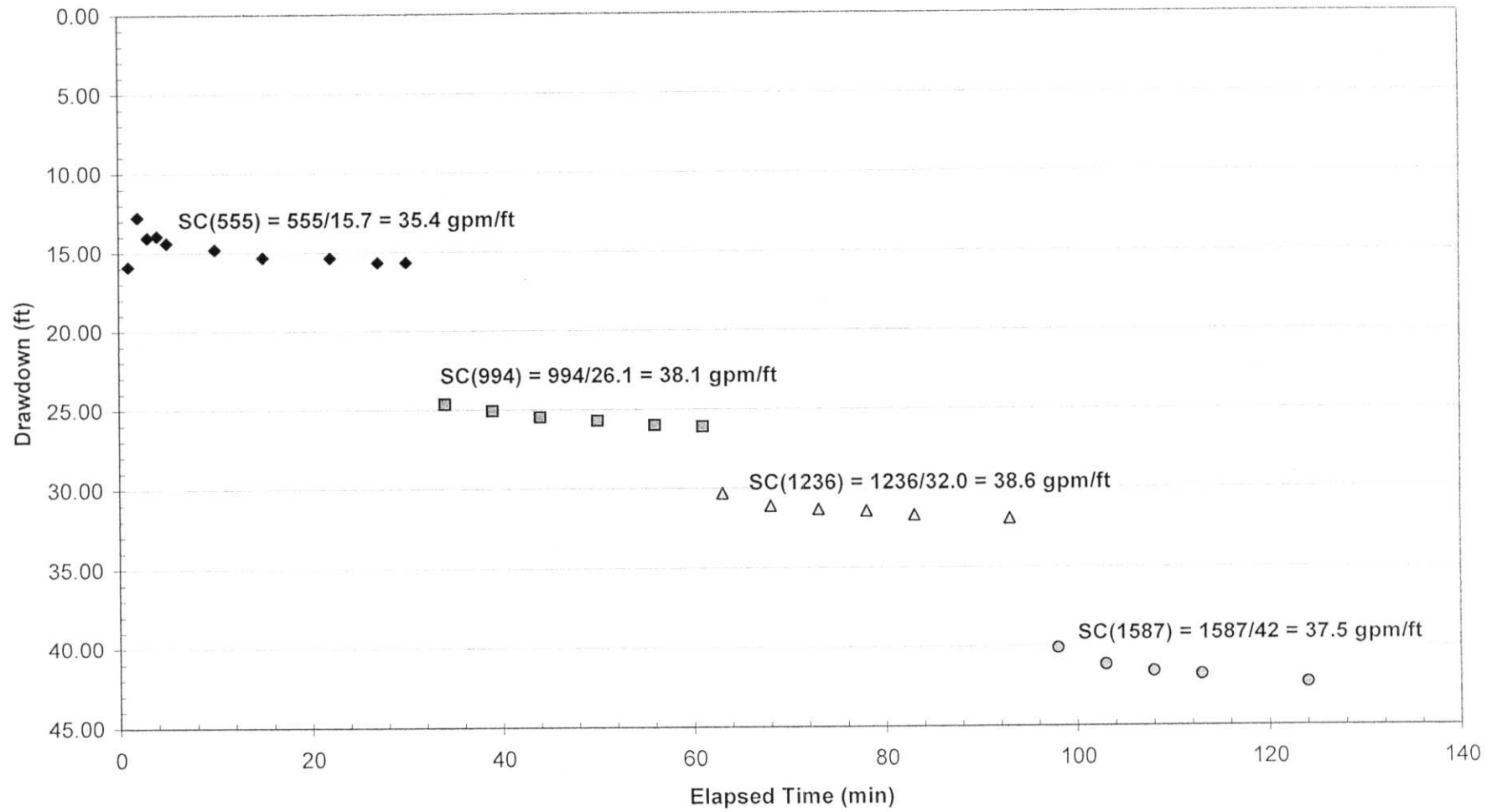
Pumping only in Bittercreek Well

static water level (ft) on 12/2: 72.17

static water level (ft) on 12/5: 72.13

Date	Time	Depth to water (ft)	Elapsed Time (min)	Remarks
12/2	11:45	72.17		Static water level on 12/2/2005
12/2	12:07			Pump on in Bittercreek Well, Q~500 gpm
12/2	12:38		31	Q increased to ~900 gpm
12/2	13:09		62	Q increased to ~1200 gpm
12/2	13:35	72.13	88	
12/2	13:42		95	Q increased to ~1500 gpm
12/2	14:04	72.13	117	
12/2	14:12		125	Pump off in Bittercreek Well
12/2	14:21	72.13	134	
12/5	7:50	72.13		Static water level on 12/5/2005
12/5	8:38			Pump at Bittercreek well on
12/5	8:39		1	Q stabilized at approx 1300 gpm
12/5	9:34	72.15	56	
12/5	10:29	72.15	111	
12/5	11:56	72.14	198	
12/5	21:10	72.13	752	
12/5	21:41		783	Pump at Bittercreek well off
12/5	22:36	72.16	838	

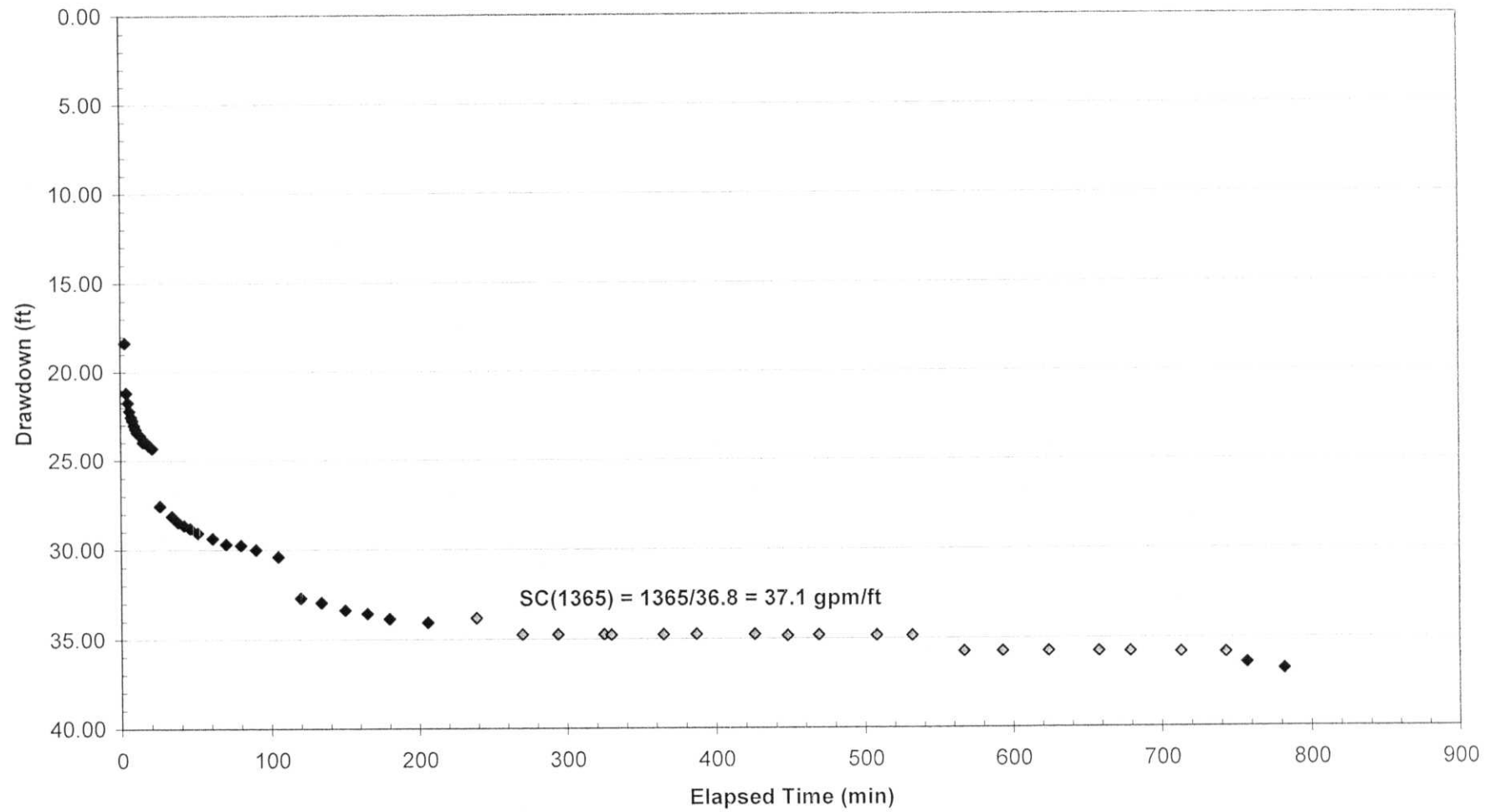
Bittercreek Step Rate Test
Test Date: 12/2/05
Q = 555, 994, 1236, 1587 gpm



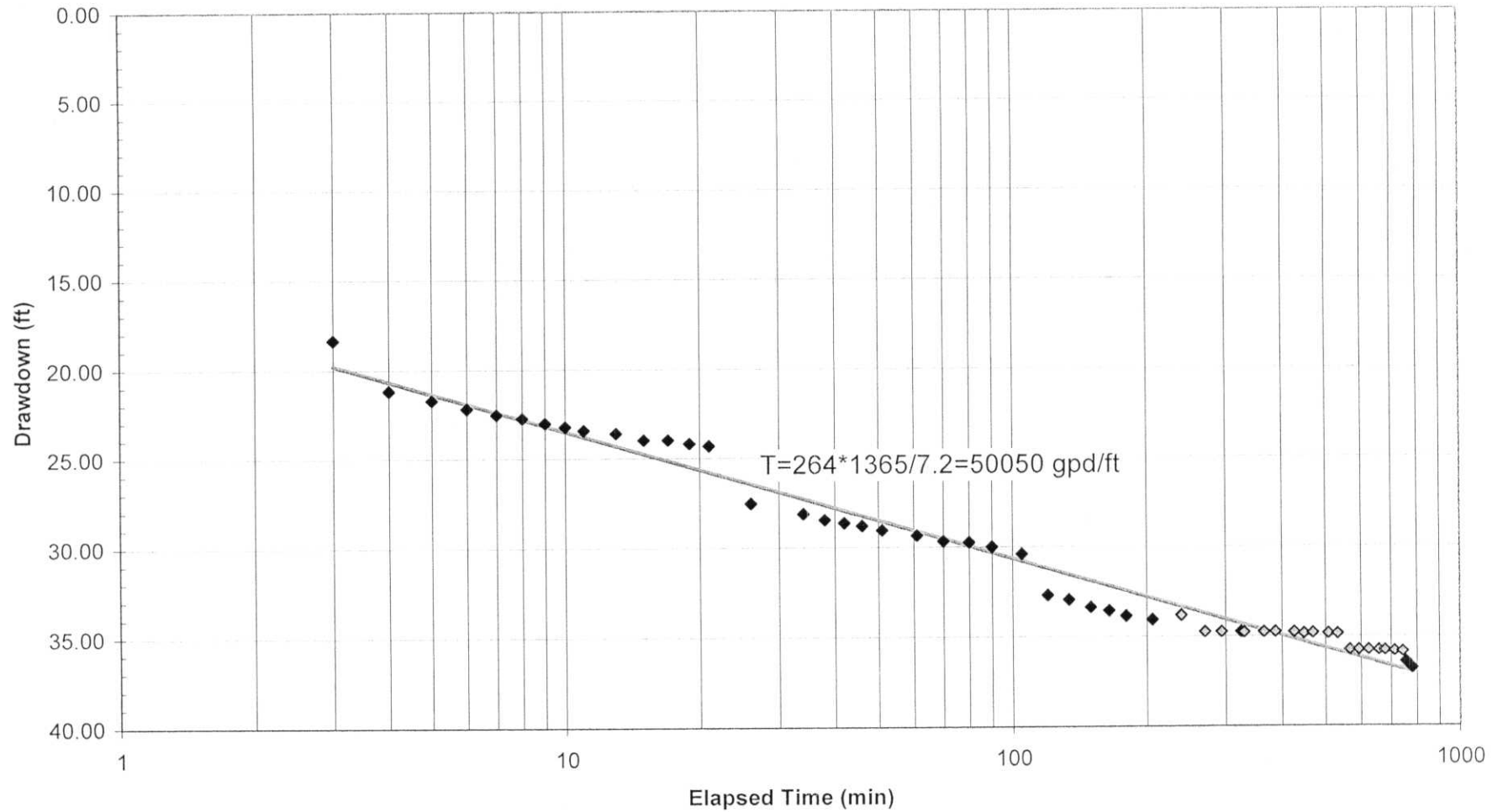
Bittercreek Constant Rate Test

Test Date = 12/5/05

Q=1365 gpm



Bittercreek Constant Rate Test
Semi-Log Plot
Test Date: 12/5/05, Q=1300 gpm



Bittercreek Well Recovery

Test Date: 12/5/05

