

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY --- DO NOT FILL IN ---
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Page 1 of 1

Owner's Well No. **WELL #3**

No. **e074271**

Date Work Began **5/5/2008**, Ended **5/13/2008**

Local Permit Agency **SAN BERNARDINO**

Permit No. **2008040261**

Permit Date **4/25/2008**

GEOLOGIC LOG

WELL OWNER

ORIENTATION (✓) VERTICAL HORIZONTAL ANGLE _____ (SPECIFY)
DRILLING METHOD **ROTARY** FLUID **BENTONITE**

Name **JUNIPER RIVIERA WATER DISTR**

Mailing Address **P.O. BOX 386**

APPLE VALLEY

CA 92307

CITY

STATE ZIP

DESCRIPTION

Describe material, grain, size, color, etc.

WELL LOCATION

Address **25376 RANCHO STREET**

City **APPLE VALLEY, CA CA 92308**

County **SAN BERNARDINO**

APN Book **0435** Page **175** Parcel **14**

Township **4 N** Range **2 W** Section **20**

Latitude **34 25 37 N**

117 6 36 W

DEG. MIN. SEC.

DEG. MIN. SEC.

LOCATION SKETCH

NORTH

WEST

EAST

See Attached

ACTIVITY (✓)

NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Material Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY

Domestic Public

Irrigation Industrial

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY) _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH OF STATIC

WATER LEVEL **491** (Ft.) & DATE MEASURED **5/13/2008**

ESTIMATED YIELD * **100** (GPM) & TEST TYPE **PUMP**

TEST LENGTH **56** (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING **800** (Feet)

TOTAL DEPTH OF COMPLETED WELL **800** (Feet)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING (S)				MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
		TYPE (✓)	BLANK	SCREEN	CON-DUCTOR				
0 to 20	16"					STEEL	10"	.250	
0 to 500	16"	✓				PVC	8"	SDR17	
500 to 800	16"		✓			PVC	8"	SDR17	0.085

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL			
	TYPE			
	CE-MENT	BEN-TONITE	FILL	FILTER PACK (TYPE/SIZE)
0 to 60	✓			
60 to 800				TACNA 1/4" X

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analysis
- Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **HARICH ENTERPRISES, INC.**

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

P.O. BOX 2238

ADDRESS

RUNNING SPRING

CA 92382

CITY

STATE

ZIP

Signed _____

WELL DRILLER/AUTHORIZED REPRESENTATIVE

10/01/08

DATE SIGNED

618447

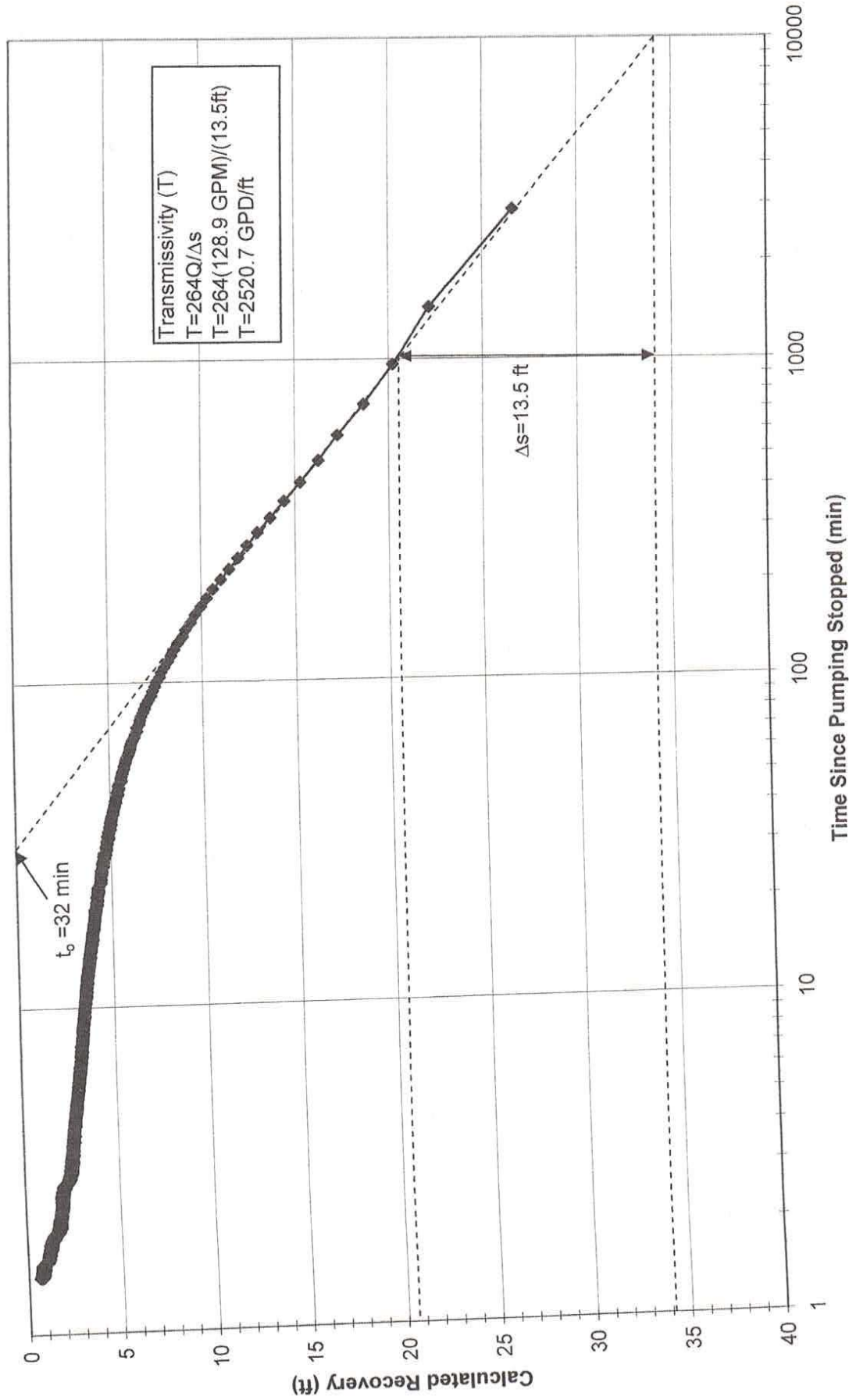
C-57 LICENSE NUMBER

HARICH ENTERPRISES DRILLERS LOG

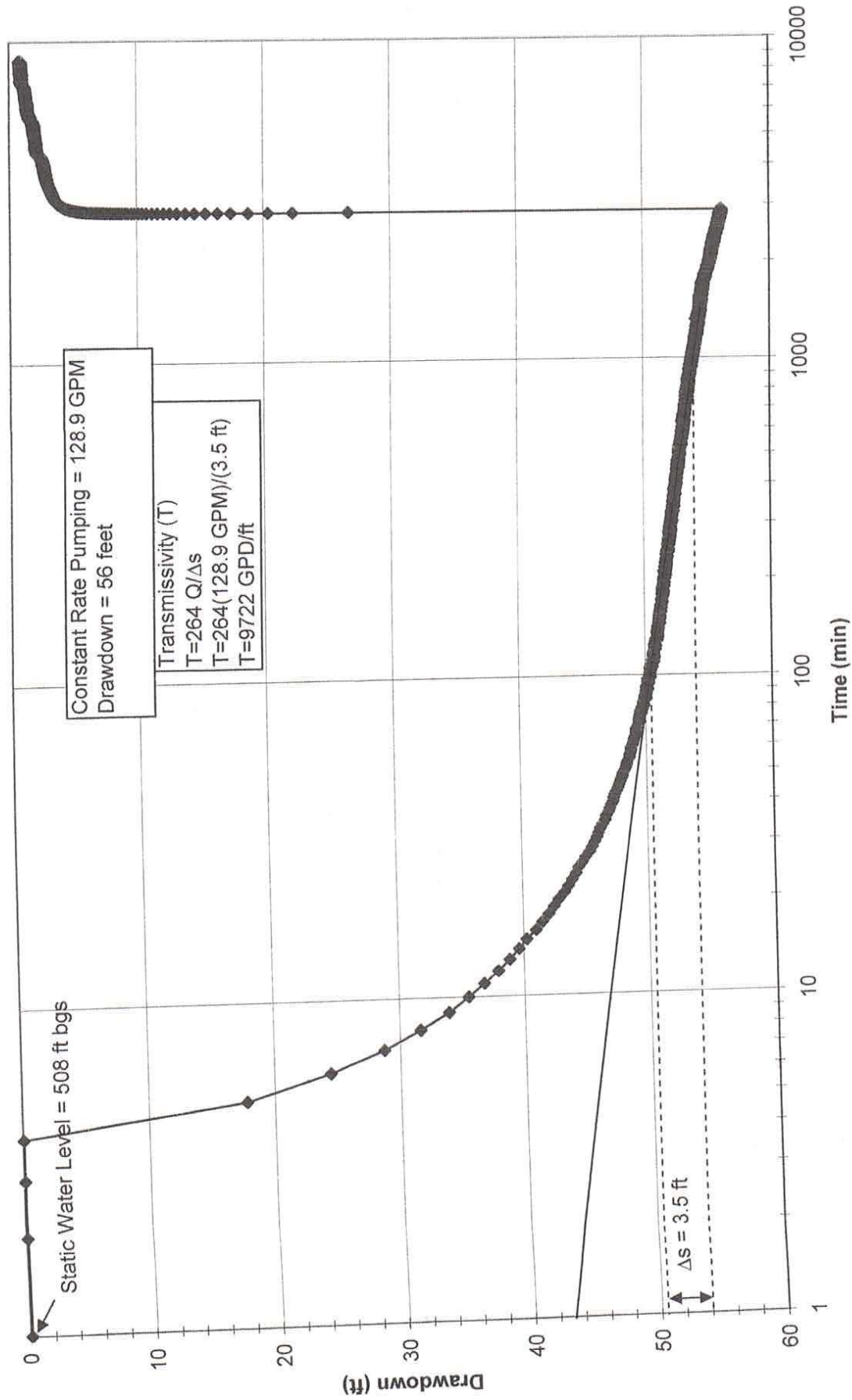
760-247-9818
Mike Mines - 760-247-3974

WELL OWNER: Jumper River H2O Dist		ADDRESS, PHONE NUMBER: 25376 Rancho St., A.V.		DATE STARTED: 5-5-08	FIRST WATER:
LATITUDE:		DEPTH CASED: 800		DATE COMPLETED: 5-5-08	STATIC WATER:
LONGITUDE:		DEPTH SCREENED: 500 - 800'		DRILLED BY: Jim	
DRILLING DEPTH (FT)	PENETRATION RATE (FT/MIN)	BIT SIZE (IN)	SAMPLE COLOR	GEOLOGIC DESCRIPTION	COMMENTS
0-140		16"	Brown-yellow	Sand & clay layers	
140-320		"	Brown - "	Sand - clay - "	
320-440		"	"	clay, gravel - sand	2 BAG - cost send - Cooper
440-460		"	"	Like sand - small gravel	lost circulation
460-540		"	"	Sandy - Clay	
540-640		"	"	Cemented sand - clay	Hard - Slow Drilling
640-720		"	"	Loose formation	NOT AS HARD
720-810		"	"	Cemented - sandy clay	Drilled Slow - Hard

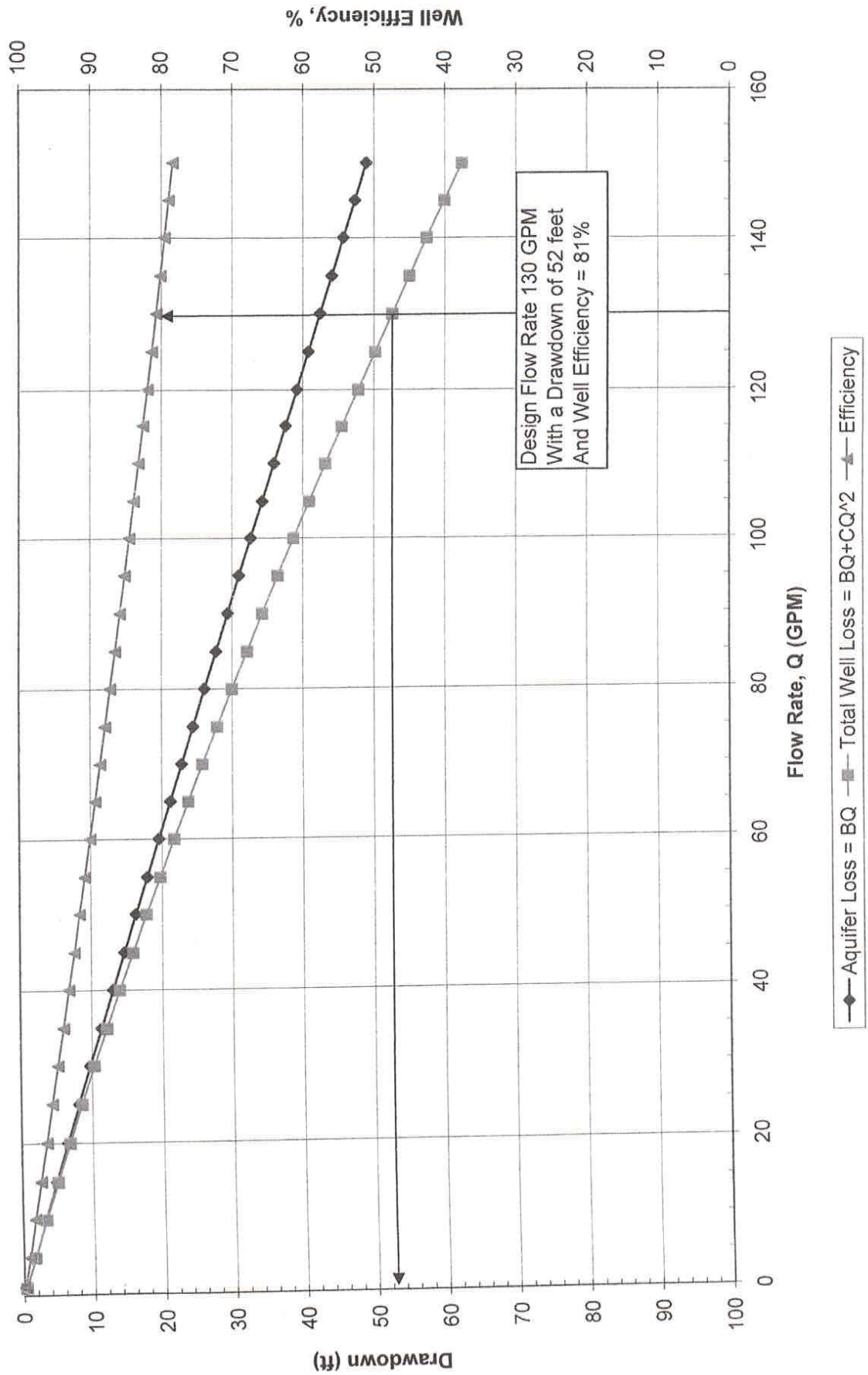
Juniper Riviera County Water District Well #3 Recovery Test



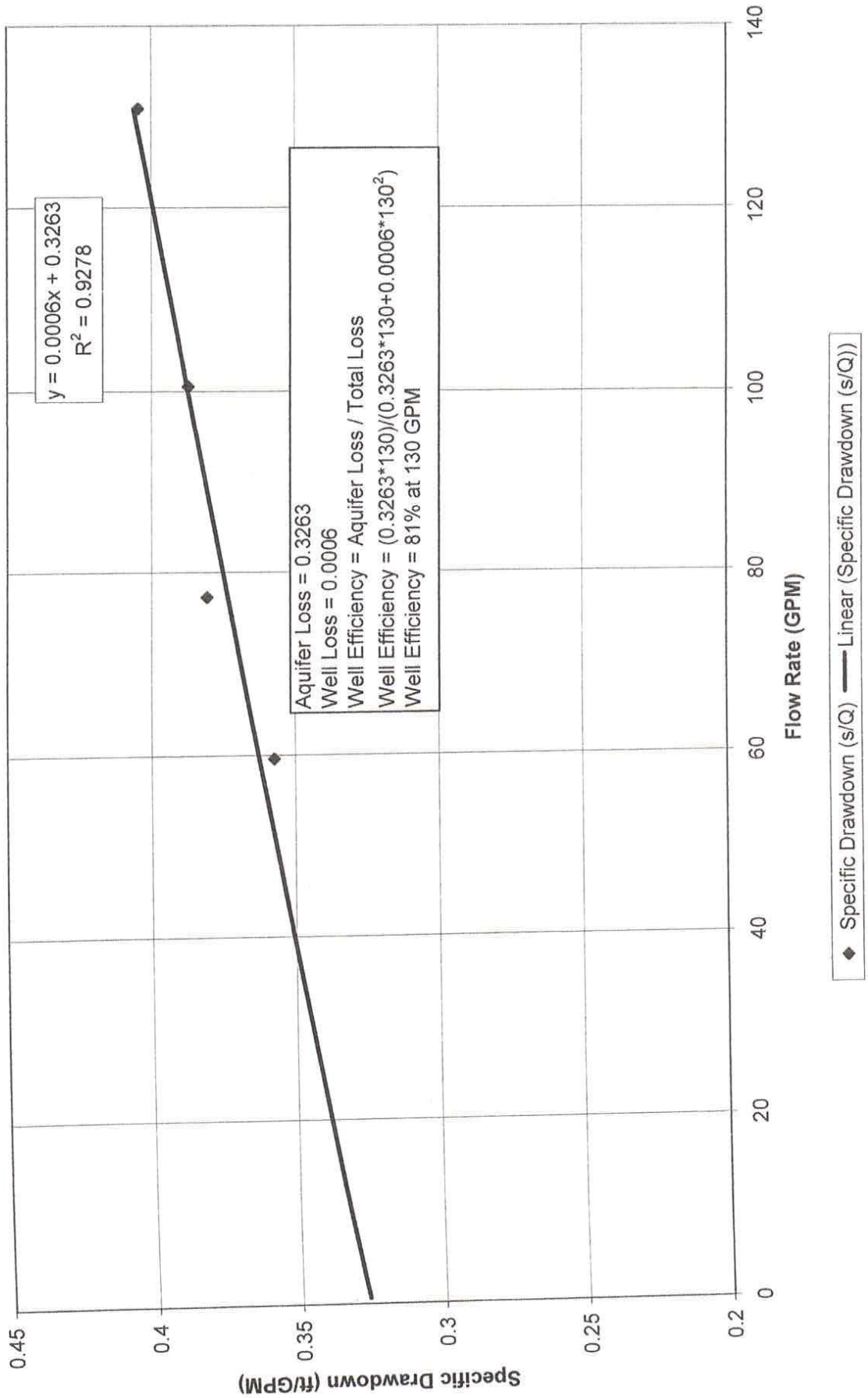
Juniper Riviera County Water District Well #3 Constant Rate Test



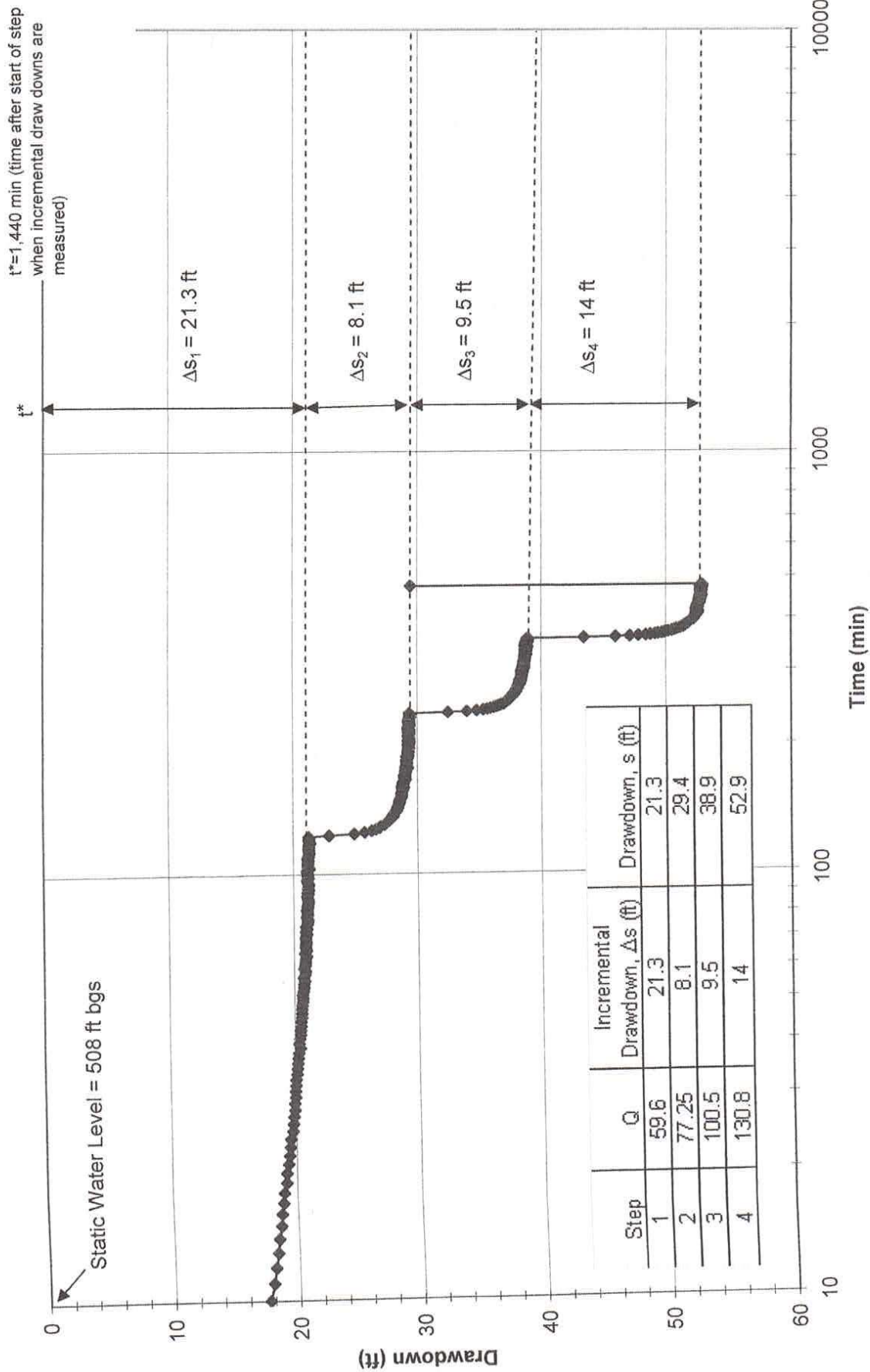
Juniper Riviera County Water District Well #3 Pump Design Diagram



Juniper Riviera County Water District Well #3 Specific Drawdown Plot



Juniper Riviera County Water District Well #3 Step Drawdown Test



Mechanical Grading Analysis

Juniper Riviera County Water District Well #3 Design Criteria

Depth	Filter Pack/Aquifer Ratio (D_{50F}/d_{50A})	Terzaghi's Migration Factor (D_{15F}/d_{85A})	Terzaghi's Permeability Factor (D_{15F}/d_{15A})	Uniformity Coefficient, C_u (d_{60A}/d_{10A})	Sorting Factor, S_1 (C_{UF}/C_{UA})	Slot Factor ($d_{50}/$ Slot Width)	Percent Aquifer Pack Passing Well Slot	Percent Filter Pack Passing Well Slot	Slot Size
380-400	12.25	2.57	12.88	3.32	0.75	3.51	96	14.79	0.085
510-520	6.42	1.31	6.63	6.05	0.41	6.70	91		
530-560	9.64	1.61	9.32	4.86	0.51	4.47	94		
580-590	6.54	1.57	7.03	6.55	0.38	6.58	94		
610-620	9.41	2.44	9.63	4.20	0.59	4.57	99		
680-690	11.91	2.67	11.80	3.93	0.63	3.61	90		
750-760	14.32	3.57	16.30	2.72	0.91	3.01	99		

Mechanical Grading Analysis of Aquifers and Filter Pack Juniper Riviera County Water District Well #3

