

CHAPTER 2

RECORDS OF

PUMPING TEST AND FIGURES



2 . 1

JICA TEST WELLS



2.1.1

PUMPING TEST RECORDS



STEP DRAWDOWN TEST DATA SHEET

WELL LOCATLAS PINAS

SITE NO.: 1

WELL NO.: 1

WELL DEPTH 300M

CASING DIA 20.32cm

SWL: 44.48m

TIME (min)	TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)	DATA NAME
0	0	44.48	0	0		
1	1	48.94	-4.46	85	2.9	
2	2	49.23	-4.75	87	3.1	
3	3	49.32	-4.84	89	3.3	
4	4	49.23	-4.75	89	3.3	
5	5	49.55	-5.07	89	3.3	
6	6	52.14	-7.66	89	3.3	
7	7	52.34	-7.86	89	3.3	
8	8	52.55	-8.07	89	3.3	
9	9	52.71	-8.23	90	3.4	
10	10	52.85	-8.37	90	3.4	
12	12	52.87	-8.39	89	3.3	
14	14	52.89	-8.41	89	3.3	
16	16	52.71	-8.23	89	3.3	
18	18	52.67	-8.19	89	3.3	
20	20	52.67	-8.19	89	3.3	
25	25	52.61	-8.13	88	3.2	
30	30	52.58	-8.10	88	3.2	
35	35	52.74	-8.26	88	3.2	
40	40	52.77	-8.29	89	3.3	
45	45	52.74	-8.26	89	3.3	
50	50	52.78	-8.30	88	3.2	
55	55	52.80	-8.32	88	3.2	
60	60	52.91	-8.43	89	3.3	
70	70	52.94	-8.46	88	3.2	
80	80	53.00	-8.52	89	3.3	
90	90	53.03	-8.55	89	3.3	
100	100	53.06	-8.58	89	3.3	
110	110	52.99	-8.51	89	3.3	
120	120	53.10	-8.62	89	3.3	Q=198 /min
121	1	55.00	-10.52	113	6.0	
122	2	57.87	-13.39	118	6.7	
123	3	60.67	-16.19	118	6.7	
124	4	61.65	-17.17	116	6.4	
125	5	62.01	-17.53	118	6.7	
126	6	62.24	-17.76	118	6.7	
127	7	62.33	-17.85	118	6.7	

128	8	62.24	-17.76	117	6.6
129	9	62.21	-17.73	120	7.0
130	10	62.34	-17.86	120	7.0
132	12	62.33	-17.85	118	6.7
134	14	62.20	-17.72	118	6.7
136	16	62.04	-17.56	118	6.7
138	18	62.47	-17.99	118	6.7
140	20	62.89	-18.41	122	7.3
145	25	61.75	-17.27	119	6.8
150	30	62.46	-17.98	117	6.6
155	35	62.25	-17.77	118	6.7
160	40	62.63	-18.15	118	6.7
165	45	62.63	-18.15	118	6.7
170	50	62.68	-18.20	119	6.8
175	55	62.70	-18.22	119	6.8
180	60	62.70	-18.22	118	6.7
190	70	62.69	-18.21	118	6.7
200	80	62.70	-18.22	118	6.7
210	90	63.08	-18.60	118	6.7
220	100	62.51	-18.03	117	6.6
230	110	62.80	-18.32	118	6.7
240	120	62.68	-18.20	117	6.6
241	1	66.75	-22.27	138	9.9
242	2	69.00	-24.52	137	9.7
243	3	69.40	-24.92	138	9.9
244	4	69.88	-25.40	137	9.7
245	5	69.88	-25.40	139	10.1
246	6	70.05	-25.57	139	10.1
247	7	70.25	-25.77	139	10.1
248	8	70.26	-25.78	139	10.1
249	9	70.17	-25.69	139	10.1
250	10	70.25	-25.77	139	10.1
252	12	70.16	-25.68	138	9.9
254	14	70.08	-25.60	139	10.1
256	16	70.03	-25.55	139	10.1
258	18	69.95	-25.47	139	10.1
260	20	70.02	-25.54	139	10.1
265	25	70.11	-25.63	139	10.1
270	30	70.14	-25.66	139	10.1
275	35	70.17	-25.69	139	10.1
280	40	70.05	-25.57	139	10.1
285	45	70.39	-25.91	139	10.1
290	50	70.58	-26.10	139	10.1
295	55	70.52	-26.04	139	10.1
300	60	70.41	-25.93	139	10.1
310	70	70.25	-25.77	139	10.1

Q=402 /min



320	80	70.47	-25.99	139	10.1
330	90	70.34	-25.86	138	9.9
340	100	70.55	-26.07	139	10.1
350	110	70.39	-25.91	139	10.1
360	120	70.39	-25.91	139	10.1 Q=606 /min
361	1	71.74	-27.26	143	10.8
362	2	72.27	-27.79	143	10.8
363	3	72.52	-28.04	143	10.8
364	4	72.56	-28.08	143	10.8
365	5	72.59	-28.11	143	10.8
366	6	72.57	-28.09	143	10.8
367	7	72.59	-28.11	143	10.8
368	8	72.59	-28.11	143	10.8
369	9	72.63	-28.15	143	10.8
370	10	72.65	-28.17	143	10.8
372	12	72.66	-28.18	143	10.8
374	14	72.68	-28.20	143	10.8
376	16	72.57	-28.09	143	10.8
378	18	72.61	-28.13	143	10.8
380	20	72.91	-28.43	144	11.0
385	25	73.14	-28.66	144	11.0
390	30	73.02	-28.54	144	11.0
395	35	73.03	-28.55	143	10.8
400	40	73.05	-28.57	143	10.8
405	45	73.14	-28.66	143	10.8
410	50	72.86	-28.38	143	10.8
415	55	72.90	-28.42	143	10.8
420	60	72.95	-28.47	143	10.8
430	70	72.95	-28.47	143	10.8
440	80	73.03	-28.55	143	10.8
450	90	73.11	-28.63	143	10.8
460	100	73.23	-28.75	143	10.8
470	110	73.53	-29.05	143	10.8
480	120	73.85	-29.37	143	10.8
495	135	72.87	-28.39	143	10.8
510	150	73.43	-28.95	143	10.8
525	165	73.62	-29.14	143	10.8
540	180	73.18	-28.70	143	10.8 Q=648 /min

CONTINUOUS PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS

SITE NO.: 1

WELL NO.: 1

WELL DEPTH: 300M

CASING DIAMETER: 20.32cm

SWL: 44.93m

TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)	TEMP (Deg.C)	Ect	EC18
0	44.93	0					
1	58.65	-13.72	140	10.3			
2	60.60	-15.67	140	10.3			
3	62.90	-17.97	139	10.1			
4	64.36	-19.43	139	10.1			
5	65.00	-20.07	140	10.3			
6	65.14	-20.21	139	10.1			
7	65.38	-20.45	139	10.1			
8	65.53	-20.60	139	10.1			
9	65.58	-20.65	139	10.1			
10	65.65	-20.72	139	10.1	34.4	1010	742
12	65.43	-20.50	139	10.1			
14	65.71	-20.78	139	10.1			
16	65.31	-20.38	135	9.4			
18	65.03	-20.10	137	9.7			
20	65.34	-20.41	139	10.1	34.5	1100	807
25	65.72	-20.79	137	9.7			
30	66.11	-21.18	140	10.3	34.5	1190	873
35	65.78	-20.85	138	9.9			
40	65.90	-20.97	138	9.9	34.7	1210	885
45	66.72	-21.79	140	10.3			
50	66.80	-21.87	140	10.3	34.7	1250	914
55	66.39	-21.46	139	10.1			
60	66.37	-21.44	139	10.1	34.7	1250	914
70	66.55	-21.62	138	9.9	34.9	1280	933
80	66.57	-21.64	138	9.9	34.7	1280	936
90	66.99	-22.06	138	9.9	34.6	1280	938
100	67.58	-22.65	139	10.1	34.8	1280	935
110	67.41	-22.48	139	10.1	34.4	1280	941
120	67.30	-22.37	139	10.1	34.9	1280	933
135	67.22	-22.29	139	10.1			
150	67.26	-22.33	139	10.1	34.9	1250	911
165	67.73	-22.80	139	10.1			
180	68.81	-23.88	139	10.1	34.6	1250	916
210	67.82	-22.89	139	10.1	34.6	1280	938
240	67.98	-23.05	139	10.1	34.9	1250	911
270	68.84	-23.91	139	10.1	34.9	1250	911

300	68.64	-23.71	139	10.1	34.9	1250	911
360	68.80	-23.87	139	10.1	34.6	1210	886
420	68.28	-23.35	139	10.1	33.9	1240	919
480	68.16	-23.23	139	10.1	34.5	1240	910
540	68.68	-23.75	139	10.1	34.6	1200	879
600	68.59	-23.66	138	9.9	35.0	1200	873
660	69.33	-24.40	139	10.1	34.8	1270	927
720	69.29	-24.36	139	10.1	34.6	1230	901
780	69.49	-24.56	139	10.1	34.5	1210	888
840	69.52	-24.59	139	10.1	34.7	1220	892
900	69.72	-24.79	139	10.1	34.0	1230	910
960	69.87	-24.94	139	10.1	34.5	1220	895
1020	69.98	-25.05	139	10.1	34.0	1200	888
1080	69.78	-24.85	136	9.5	34.1	1230	908
1140	70.59	-25.66	139	10.1	34.6	1220	894
1200	70.58	-25.65	139	10.1	36.8	1290	913
1260	70.44	-25.51	139	10.1	36.2	1260	900
1320	70.68	-25.75	139	10.1	34.6	1240	908
1380	70.29	-25.36	139	10.1	34.9	1240	904
1440	71.13	-26.20	139	10.1	34.7	1250	914
1500	71.27	-26.34	139	10.1	34.8	1230	898
1560	71.63	-26.70	139	10.1	34.7	1240	907
1620	71.48	-26.55	139	10.1	34.8	1230	898
1680	71.92	-26.99	140	10.3	34.9	1240	904
1740	71.87	-26.94	139	10.1	34.9	1240	904
1800	71.66	-26.73	139	10.1	34.5	1190	873
1860	72.22	-27.29	139	10.1	34.6	1190	872
1920	72.66	-27.73	139	10.1	34.7	1230	900
1980	71.92	-26.99	139	10.1	34.8	1220	891
2040	72.43	-27.50	139	10.1	34.6	1200	879
2100	72.70	-27.77	139	10.1	34.8	1220	891
2160	72.03	-27.10	139	10.1	34.7	1190	870
2220	71.66	-26.73	139	10.1	34.6	1200	879
2280	71.38	-26.45	139	10.1	34.5	1200	880
2340	71.57	-26.64	139	10.1	34.6	1230	901
2400	71.71	-26.78	139	10.1	34.6	1210	886
2460	71.79	-26.86	139	10.1	34.6	1230	901
2520	71.72	-26.79	139	10.1	34.5	1200	880
2580	72.46	-27.53	139	10.1	34.2	1200	885
2640	71.70	-26.77	139	10.1	34.9	1260	919
2700	72.84	-27.91	139	10.1	35.0	1250	910
2760	71.41	-26.48	139	10.1	34.8	1260	920
2820	71.67	-26.74	139	10.1	35.0	1250	910
2880	71.69	-26.76	139	10.1	35.0	1260	917

RECOVERY TEST

t2	WATER LEVEL (m)	DRAWDOWN (m)	t1+t2	t/t' log(t/t')
0	71.69	26.76	2880	
1	55.73	10.80	2881	2881 3.4595
2	53.35	8.42	2882	1441 3.1587
3	52.57	7.64	2883	961 2.9827
4	52.34	7.41	2884	721 2.8579
5	52.19	7.26	2885	577 2.7612
6	52.05	7.12	2886	481 2.6821
7	52.00	7.07	2887	412.429 2.6153
8	51.91	6.98	2888	361 2.5575
9	51.82	6.89	2889	321 2.5065
10	51.78	6.85	2890	289 2.4609
12	51.56	6.63	2892	241 2.382
14	51.48	6.55	2894	206.714 2.3154
16	51.38	6.45	2896	181 2.2577
18	51.27	6.34	2898	161 2.2068
20	51.18	6.25	2900	145 2.1614
25	51.00	6.07	2905	116.2 2.0652
30	50.79	5.86	2910	97 1.9868
35	50.61	5.68	2915	83.2857 1.9206
40	50.44	5.51	2920	73 1.8633
45	50.28	5.35	2925	65 1.8129
50	50.14	5.21	2930	58.6 1.7679
55	50.02	5.09	2935	53.3636 1.7272
60	49.90	4.97	2940	49 1.6902
70	49.68	4.75	2950	42.1429 1.6247
80	49.50	4.57	2960	37 1.5682
90	49.34	4.41	2970	33 1.5185
100	49.20	4.27	2980	29.8 1.4742
110	49.07	4.14	2990	27.1818 1.4343
120	48.96	4.03	3000	25 1.3979
135	48.81	3.88	3015	22.3333 1.349
150	48.61	3.68	3030	20.2 1.3054
165	48.54	3.61	3045	18.4545 1.2661
180	48.43	3.50	3060	17 1.2304
210	48.22	3.29	3090	14.7143 1.1677
240	48.03	3.10	3120	13 1.1139
270	47.87	2.94	3150	11.6667 1.0669
300	47.73	2.80	3180	10.6 1.0253
360	47.48	2.55	3240	9 .95424
420	47.26	2.33	3300	7.85714 .89526
480	47.08	2.15	3360	7 .8451
540			3420	6.33333 .80163
600			3480	5.8 .76343

660			3540	5.36364	.72946
720			3600	5	.69897
780			3660	4.69231	.67139
840			3720	4.42857	.64626
900			3780	4.2	.62325
960			3840	4	.60206
1020			3900	3.82353	.58246
1080			3960	3.66667	.56427
1140			4020	3.52632	.54732
1200			4080	3.4	.53148
1260			4140	3.28571	.51663
1320			4200	3.18182	.50268
1380	46	1.07	4260	3.08696	.48953
1440	45.96	1.03	4320	3	.47712
1500			4380	2.92	.46538
1560			4440	2.84615	.45426
1620			4500	2.77778	.4437
1680			4560	2.71429	.43366
1740			4620	2.65517	.42409
1800			4680	2.6	.41497
1860			4740	2.54839	.40627
1920			4800	2.5	.39794
1980			4860	2.45455	.38997
2040			4920	2.41176	.38233
2100			4980	2.37143	.37501
2160			5040	2.33333	.36798
2220			5100	2.2973	.36122
2280			5160	2.26316	.35471
2340			5220	2.23077	.34845
2400			5280	2.2	.34242
2460			5340	2.17073	.33661
2520			5400	2.14286	.33099
2580			5460	2.11628	.32557
2640			5520	2.09091	.32034
2700			5580	2.06667	.31527
2760			5640	2.04348	.31037
2820			5700	2.02128	.30563
2880			5760	2	.30103

PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 1  
 WELL NO.: 2  
 WELL DEPTH: 200M  
 CASING DIAMETER: 10.16cm  
 SWL: 37.34m

TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)
0	37.34	0	0	
1	39.23	-1.89	65	1.51
2	39.34	-2.00	65	1.51
3	39.39	-2.05	65	1.51
4	39.50	-2.16	65	1.51
5	39.53	-2.19	65	1.51
6	39.63	-2.29	65	1.51
7	39.64	-2.30	65	1.51
8	39.65	-2.31	65	1.51
9	39.69	-2.35	65	1.51
10	39.74	-2.40	65	1.51
12	39.75	-2.41	65	1.51
14	39.88	-2.54	66	1.57
16	39.95	-2.61	65	1.51
18	40.03	-2.69	66	1.57
20	40.03	-2.69	65	1.51
25	40.08	-2.74	65	1.51
30	40.16	-2.82	65	1.51
35	40.16	-2.82	65	1.51
40	40.16	-2.82	65	1.51
45	40.25	-2.91	65	1.51
50	40.32	-2.98	65	1.51
55	40.25	-2.91	63	1.39
60	40.34	-3.00	65	1.51
70	40.45	-3.11	65	1.51
80	40.44	-3.10	65	1.51
90	40.48	-3.14	65	1.51
100	40.54	-3.20	65	1.51
110	40.55	-3.21	65	1.51
120	40.75	-3.41	65	1.51
135	40.65	-3.31	65	1.51
150	40.73	-3.39	64	1.45
165	40.78	-3.44	64	1.45
180	40.90	-3.56	65	1.51
210	40.99	-3.65	65	1.51
240	40.89	-3.55	64	1.45
270	40.89	-3.55	65	1.51

300	40.93	-3.59	64	1.45
360	40.89	-3.55	65	1.51
420	40.93	-3.59	63	1.39
480	40.88	-3.54	63	1.39
540	40.63	-3.29	59	1.18
600	40.41	-3.07	58	1.13
660	40.58	-3.24	60	1.23
720	40.76	-3.42	61	1.29

RECOVERY TEST

t2	WATER LEVEL (m)	DRAWDOWN (m)	t1+t2	t/t1
0	40.76	3.42	720	
1	39.17	1.83	721	721
2	39.03	1.69	722	361
3	38.95	1.61	723	241
4	38.87	1.53	724	181
5	38.80	1.46	725	145
6	38.75	1.41	726	121
7	38.71	1.37	727	103.85714
8	38.66	1.32	728	91
9	38.62	1.28	729	81
10	38.59	1.25	730	73
12	38.53	1.19	732	61
14	38.48	1.14	734	52.428571
16	38.43	1.09	736	46
18	38.39	1.05	738	41
20	38.39	1.05	740	37
25	38.27	.93	745	29.8
30	38.20	.86	750	25
35	38.15	.81	755	21.571429
40	38.11	.77	760	19
45	38.07	.73	765	17
50	38.04	.70	770	15.4
55	38.02	.68	775	14.090909
60	37.99	.65	780	13
70	37.95	.61	790	11.285714
80	37.92	.58	800	10
90	37.90	.56	810	9
100	37.85	.51	820	8.2
110	37.85	.51	830	7.5454545
120	37.82	.48	840	7
135	37.79	.45	855	6.3333333
150	37.77	.43	870	5.8

165	37.75	.41	885	5.3636364
180	37.74	.40	900	5
210	37.71	.37	930	4.4285714
240	37.69	.35	960	4
270	37.68	.34	990	3.6666667
300	37.66	.32	1020	3.4
360	37.63	.29	1080	3
420	37.60	.26	1140	2.7142857
480	37.58	.24	1200	2.5
540			1260	2.3333333
600			1320	2.2
660			1380	2.0909091
720			1440	2



PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 1  
 WELL NO.: 3  
 WELL DEPTH: 100M  
 CASING DIAMETER: 10.16cm  
 SWL: 4.60m

TIME (min)	WATER LEVEL (m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)
0	4.60	0	0	
1	8.29	-3.69	80	2.53
2	8.56	-3.96	80	2.53
3	8.60	-4.00	80	2.53
4	8.75	-4.15	80	2.53
5	8.85	-4.25	82	2.70
6	8.90	-4.30	82	2.70
7	8.97	-4.37	81	2.61
8	8.96	-4.36	81	2.61
9	8.97	-4.37	81	2.61
10	9.00	-4.40	82	2.70
12	9.02	-4.42	82	2.70
14	9.14	-4.54	81	2.61
16	9.15	-4.55	81	2.61
18	9.10	-4.50	80	2.53
20	9.18	-4.58	80	2.53
25	9.22	-4.62	81	2.61
30	9.23	-4.63	81	2.61
35	9.28	-4.68	80	2.53
40	9.31	-4.71	81	2.61
45	9.34	-4.74	80	2.53
50	9.37	-4.77	80	2.53
55	9.38	-4.78	80	2.53
60	9.38	-4.78	80	2.53
70	9.41	-4.81	80	2.53
80	9.43	-4.83	80	2.53
90	9.43	-4.83	80	2.53
100	9.45	-4.85	80	2.53
110	9.45	-4.85	80	2.53
120	9.45	-4.85	80	2.53
135	9.47	-4.87	80	2.53
150	9.49	-4.89	80	2.53
165	9.53	-4.93	80	2.53
180	9.55	-4.95	80	2.53
210	9.56	-4.96	80	2.53
240	9.60	-5.00	80	2.53
270	9.57	-4.97	80	2.53

300	9.58	-4.98	80	2.53
360	9.64	-5.04	80	2.53
420	9.70	-5.10	80	2.53
480	9.69	-5.09	80	2.53
540	9.67	-5.07	80	2.53
600	9.68	-5.08	80	2.53
660	9.72	-5.12	80	2.53
720	9.69	-5.09	81	2.61

RECOVERY TEST

t2	WATER LEVEL (m)	DRAWDOWN (m)	t1+t2	t/t'
0	9.69	5.09	720	
1	5.49	.89	721	721
2	5.25	.65	722	361
3	5.12	.52	723	241
4	5.31	.71	724	181
5	5.43	.83	725	145
6	5.35	.75	726	121
7	5.31	.71	727	103.85714
8	4.91	.31	728	91
9	5.21	.61	729	81
10	5.26	.66	730	73
12	5.15	.55	732	61
14	5.16	.56	734	52.428571
16	5.09	.49	736	46
18	5.01	.41	738	41
20	5.07	.47	740	37
25	5.06	.46	745	29.8
30	5.01	.41	750	25
35	4.93	.33	755	21.571429
40	4.95	.35	760	19
45	4.94	.34	765	17
50	4.91	.31	770	15.4
55	4.91	.31	775	14.090909
60	4.86	.26	780	13
70	4.85	.25	790	11.285714
80	4.83	.23	800	10
90	4.82	.22	810	9
100	4.80	.20	820	8.2
110	4.80	.20	830	7.5454545
120	4.79	.19	840	7
135	4.79	.19	855	6.3333333
150	4.76	.16	870	5.8

165	4.74	.14	885	5.3636364
180	4.73	.13	900	5
210	4.72	.12	930	4.4285714
240	4.71	.11	960	4
270	4.70	.10	990	3.6666667
300	4.69	.09	1020	3.4
360	4.67	.07	1080	3
420	4.66	.06	1140	2.7142857
480	4.64	.04	1200	2.5
540			1260	2.3333333
600			1320	2.2
660			1380	2.0909091
720			1440	2

STEP DRAWDOWN TEST DATA SHEET

WELL LOCATION: LAS PINAS

SITE NO.: 2

WELL NO.: 1

WELL DEPTH 300M

CASING DIA 20.32cm

SWL: 50.03m

TIME (min)	TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)	DATA NAME
0	0	50.03	0	0		
1	1	57.21	-7.18	68	1.69	
2	2	57.84	-7.81	68	1.69	
3	3	58.33	-8.30	68	1.69	
4	4	59.30	-9.27	68	1.69	
5	5	58.94	-8.91	68	1.69	
6	6	59.49	-9.46	68	1.69	
7	7	59.84	-9.81	68	1.69	
8	8	60.16	-10.13	68	1.69	
9	9	60.45	-10.42	68	1.69	
10	10	60.68	-10.65	68	1.69	
12	12	61.08	-11.05	68	1.69	
14	14	61.42	-11.39	68	1.69	
16	16	61.62	-11.59	68	1.69	
18	18	61.59	-11.56	65	1.51	
20	20	61.57	-11.54	64	1.45	
25	25	61.95	-11.92	68	1.69	
30	30	62.47	-12.44	68	1.69	
35	35	62.72	-12.69	68	1.69	
40	40	62.86	-12.83	68	1.69	
45	45	62.98	-12.95	68	1.69	
50	50	63.10	-13.07	68	1.69	
55	55	63.19	-13.16	68	1.69	
60	60	63.28	-13.25	68	1.69	
70	70	63.41	-13.38	68	1.69	
80	80	63.49	-13.46	68	1.69	
90	90	63.63	-13.60	68	1.69	
100	100	63.73	-13.70	68	1.69	
110	110	63.86	-13.83	68	1.69	
120	120	63.91	-13.88	68	1.69	Q=102 /min
121	1	67.79	-17.76	89	3.31	
122	2	68.14	-18.11	89	3.31	
123	3	69.07	-19.04	89	3.31	
124	4	69.81	-19.78	89	3.31	
125	5	70.33	-20.30	89	3.31	
126	6	70.73	-20.70	89	3.31	
127	7	71.01	-20.98	89	3.31	

128	8	71.23	-21.20	89	3.31
129	9	71.41	-21.38	89	3.31
130	10	71.56	-21.53	89	3.31
132	12	71.75	-21.72	89	3.31
134	14	72.02	-21.99	89	3.31
136	16	72.23	-22.20	89	3.31
138	18	72.36	-22.33	89	3.31
140	20	72.44	-22.41	89	3.31
145	25	72.70	-22.67	89	3.31
150	30	72.85	-22.82	89	3.31
155	35	72.93	-22.90	89	3.31
160	40	73.00	-22.97	89	3.31
165	45	73.01	-22.98	89	3.31
170	50	73.09	-23.06	89	3.31
175	55	73.15	-23.12	89	3.31
180	60	73.31	-23.28	89	3.31
190	70	73.41	-23.38	89	3.31
200	80	73.45	-23.42	89	3.31
210	90	73.60	-23.57	89	3.31
220	100	73.66	-23.63	89	3.31
230	110	73.73	-23.70	89	3.31
240	120	73.76	-23.73	89	3.31
241	1	77.95	-27.92	105	5.00
242	2	80.62	-30.59	105	5.00
243	3	82.37	-32.34	105	5.00
244	4	83.58	-33.55	105	5.00
245	5	84.39	-34.36	105	5.00
246	6	85.02	-34.99	105	5.00
247	7	85.50	-35.47	105	5.00
248	8	85.84	-35.81	105	5.00
249	9	86.11	-36.08	105	5.00
250	10	86.32	-36.29	105	5.00
252	12	86.95	-36.92	105	5.00
254	14	87.36	-37.33	105	5.00
256	16	87.61	-37.58	105	5.00
258	18	87.79	-37.76	105	5.00
260	20	87.89	-37.86	105	5.00
265	25	88.05	-38.02	105	5.00
270	30	88.14	-38.11	105	5.00
275	35	88.14	-38.11	105	5.00
280	40	88.03	-38.00	105	5.00
285	45	87.83	-37.80	105	5.00
290	50	87.69	-37.66	103	4.77
295	55	89.11	-39.08	105	5.00
300	60	89.25	-39.22	105	5.00
310	70	88.47	-38.44	105	5.00

Q=198 /min

320	80	88.84	-38.81	105	5.00
330	90	89.98	-39.95	106	5.12
340	100	89.91	-39.88	106	5.12
350	110	88.29	-38.26	105	5.00
360	120	88.12	-38.09	105	5.00 Q=300 /min
361	1	91.35	-41.32	118	6.70
362	2	94.40	-44.37	118	6.70
363	3	95.89	-45.86	118	6.70
364	4	96.78	-46.75	118	6.70
365	5	97.33	-47.30	118	6.70
366	6	97.68	-47.65	118	6.70
367	7	97.90	-47.87	118	6.70
368	8	98.29	-48.26	118	6.70
369	9	98.74	-48.71	118	6.70
370	10	99.09	-49.06	118	6.70
372	12	99.49	-49.46	118	6.70
374	14	99.74	-49.71	118	6.70
376	16	99.93	-49.90	118	6.70
378	18	100.20	-50.17	118	6.70
380	20	100.43	-50.40	118	6.70
385	25	100.86	-50.83	118	6.70
390	30	101.14	-51.11	118	6.70
395	35	101.43	-51.40	118	6.70
400	40	101.47	-51.44	118	6.70
405	45	101.38	-51.35	118	6.70
410	50	101.32	-51.29	118	6.70
415	55	101.66	-51.63	118	6.70
420	60	102.03	-52.00	118	6.70
430	70	102.13	-52.10	118	6.70
440	80	102.05	-52.02	118	6.70
450	90	101.44	-51.41	118	6.70
460	100	101.68	-51.65	118	6.70
470	110	99.15	-49.12	118	6.70
480	120	98.99	-48.96	118	6.70 Q=402 /min
481	1	101.27	-51.24	127	8.05
482	2	102.69	-52.66	126	7.89
483	3	103.59	-53.56	125	7.73
484	4	104.21	-54.18	125	7.73
485	5	104.54	-54.51	125	7.73
486	6	104.73	-54.70	124	7.58
487	7	104.89	-54.86	124	7.58
488	8	104.86	-54.83	124	7.58
489	9	105.04	-55.01	124	7.58
490	10	104.82	-54.79	123	7.43
492	12	104.57	-54.54	123	7.43
494	14	104.66	-54.63	124	7.58

496	16	104.80	-54.77	124	7.58
498	18	104.79	-54.76	124	7.58
500	20	104.82	-54.79	124	7.58
505	25	104.77	-54.74	123	7.43
510	30	104.74	-54.71	123	7.43
515	35	104.65	-54.62	123	7.43
520	40	104.64	-54.61	123	7.43
525	45	104.60	-54.57	123	7.43
530	50	104.27	-54.24	123	7.43
535	55	104.76	-54.73	123	7.43
540	60	104.98	-54.95	123	7.43
550	70	105.35	-55.32	123	7.43
560	80	105.36	-55.33	123	7.43
570	90	105.26	-55.23	123	7.43
580	100	105.18	-55.15	123	7.43
590	110	105.23	-55.20	123	7.43
600	120	105.23	-55.20	123	7.43 Q=446 /min

CONTINUOUS PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS

SITE NO.: 2

WELL NO.: 1

WELL DEPTH: 300M

CASING DIAMETER 20.32cm

SWL: 51.23m

TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)	TEMP (Deg.C)	ECt	EC18
0	51.23	0					
1	63.86	-12.63	105	5.0			
2	63.82	-12.59	105	5.0			
3	66.79	-15.56	105	5.0			
4	69.07	-17.84	105	5.0			
5	70.84	-19.61	105	5.0			
6	72.05	-20.82	105	5.0			
7	72.91	-21.68	105	5.0			
8	73.70	-22.47	105	5.0			
9	74.42	-23.19	105	5.0			
10	75.13	-23.90	105	5.0	34.5	1050	770
12	76.16	-24.93	105	5.0			
14	76.76	-25.53	105	5.0			
16	77.21	-25.98	105	5.0			
18	77.54	-26.31	105	5.0			
20	77.87	-26.64	105	5.0	34.6	1100	806
25	78.80	-27.57	105	5.0			
30	79.15	-27.92	105	5.0	34.6	1180	864
35	79.48	-28.25	105	5.0			
40	79.64	-28.41	105	5.0	34.7	1290	943
45	79.76	-28.53	105	5.0			
50	79.88	-28.65	105	5.0	34.7	1280	936
55	80.13	-28.90	105	5.0			
60	80.60	-29.37	105	5.0	34.9	1240	904
70	81.19	-29.96	105	5.0	34.9	1220	889
80	81.35	-30.12	105	5.0	34.9	1220	889
90	82.60	-31.37	105	5.0	34.9	1210	882
100	82.73	-31.50	105	5.0	34.9	1210	882
110	82.83	-31.60	105	5.0	35.0	1210	881
120	82.98	-31.75	105	5.0	34.8	1200	876
135	83.39	-32.16	105	5.0			
150	83.17	-31.94	105	5.0	35.0	1190	866
165	83.00	-31.77	105	5.0			
180	83.10	-31.87	105	5.0	35.1	1190	865
210	83.13	-31.90	105	5.0	35.1	1180	857
240	83.62	-32.39	105	5.0	35.0	1200	873
270	83.78	-32.55	105	5.0	35.0	1180	859



300	84.64	-33.41	105	5.0	35.0	1180	859
360	85.92	-34.69	105	5.0	35.3	1180	855
420	83.65	-32.42	105	5.0	35.2	1170	849
480	87.34	-36.11	105	5.0	34.5	1100	807
540	87.64	-36.41	105	5.0	34.8	1120	818
600	86.67	-35.44	105	5.0	34.9	1140	831
660	87.78	-36.55	105	5.0	34.6	1120	820
720	88.18	-36.95	105	5.0	34.7	1120	819
780	89.85	-38.62	105	5.0	34.8	1100	803
840	90.02	-38.79	105	5.0	34.6	1120	820
900	91.12	-39.89	105	5.0	35.0	1120	815
960	90.45	-39.22	105	5.0	34.8	1100	803
1020	90.07	-38.84	105	5.0	34.8	1100	803
1080	90.69	-39.46	105	5.0	34.6	1105	809
1140	90.51	-39.28	105	5.0	34.6	1100	806
1200	90.72	-39.49	105	5.0	34.9	1100	802
1260	90.99	-39.76	105	5.0	34.6	1100	806
1320	91.31	-40.08	105	5.0	34.7	1100	804
1380	91.77	-40.54	105	5.0	34.9	1100	802
1440	90.04	-38.81	105	5.0	34.8	1110	810
1500	90.09	-38.86	105	5.0	34.9	1110	809
1560	90.35	-39.12	105	5.0	34.9	1070	780
1620	90.55	-39.32	105	5.0	35.2	1070	776
1680	92.24	-41.01	105	5.0	35.0	1070	779
1740	91.74	-40.51	105	5.0	35.0	1110	808
1800	93.05	-41.82	105	5.0	35.0	1080	786
1860	93.78	-42.55	105	5.0	35.1	1080	785
1920	94.70	-43.47	105	5.0	34.9	1100	802
1980	94.64	-43.41	105	5.0	35.1	1090	792
2040	94.74	-43.51	105	5.0	34.7	1030	753
2100	95.00	-43.77	105	5.0	34.8	1040	759
2160	94.66	-43.43	105	5.0	35.0	1050	764
2220	95.05	-43.82	105	5.0	34.9	1040	758
2280	95.24	-44.01	105	5.0	34.8	1030	752
2340	95.04	-43.81	105	5.0	34.9	1050	765
2400	94.37	-43.14	105	5.0	34.9	1080	787
2460	94.11	-42.88	105	5.0	34.9	1080	787
2520	95.61	-44.38	105	5.0	34.8	1080	789
2580	94.66	-43.43	105	5.0	34.8	1080	789
2640	94.75	-43.52	105	5.0	34.9	1080	787
2700	95.57	-44.34	105	5.0	35.0	1080	786
2760	95.75	-44.52	105	5.0	34.9	1050	765
2820	95.73	-44.50	105	5.0			
2880	95.00	-43.77	105	5.0			

RECOVERY TEST

t2	WATER LEVEL (m)	DRAWDOWN (m)	t1+t2	t/t' log(t/t')
0	95.00	43.77	2880	
1	78.33	27.10	2881	2881 3.46
2	72.89	21.66	2882	1441 3.159
3	69.39	18.16	2883	961 2.983
4	66.93	15.70	2884	721 2.858
5	65.00	13.77	2885	577 2.761
6	63.66	12.43	2886	481 2.682
7	62.67	11.44	2887	412.42857 2.615
8	62.02	10.79	2888	361 2.558
9	60.99	9.76	2889	321 2.507
10	60.96	9.73	2890	289 2.461
12	60.31	9.08	2892	241 2.382
14	59.85	8.62	2894	206.71429 2.315
16	59.34	8.11	2896	181 2.258
18	58.97	7.74	2898	161 2.207
20	58.71	7.48	2900	145 2.161
25	58.20	6.97	2905	116.2 2.065
30	57.61	6.38	2910	97 1.987
35	57.32	6.09	2915	83.285714 1.921
40	57.02	5.79	2920	73 1.863
45	56.61	5.38	2925	65 1.813
50	56.39	5.16	2930	58.6 1.768
55	56.35	5.12	2935	53.363636 1.727
60	55.66	4.43	2940	49 1.69
70	55.61	4.38	2950	42.142857 1.625
80	55.56	4.33	2960	37 1.568
90	55.34	4.11	2970	33 1.519
100	55.13	3.90	2980	29.8 1.474
110	54.85	3.62	2990	27.181818 1.434
120	54.84	3.61	3000	25 1.398
135	54.53	3.30	3015	22.333333 1.349
150	54.26	3.03	3030	20.2 1.305
165	54.21	2.98	3045	18.454545 1.266
180	54.20	2.97	3060	17 1.23
210	53.91	2.68	3090	14.714286 1.168
240	53.70	2.47	3120	13 1.114
270	53.47	2.24	3150	11.666667 1.067
300	53.30	2.07	3180	10.6 1.025
360	53.05	1.82	3240	9 .9542
420	52.85	1.62	3300	7.8571429 .8953
480	52.64	1.41	3360	7 .8451
540			3420	6.3333333 .8016
600			3480	5.8 .7634

660			3540	5.3636364	.7295
720			3600	5	.699
780			3660	4.6923077	.6714
840			3720	4.4285714	.6463
900			3780	4.2	.6232
960			3840	4	.6021
1020			3900	3.8235294	.5825
1080			3960	3.6666667	.5643
1140			4020	3.5263158	.5473
1200			4080	3.4	.5315
1260			4140	3.2857143	.5166
1320			4200	3.1818182	.5027
1380			4260	3.0869565	.4895
1440	51.7	.47	4320	3	.4771
1500			4380	2.92	.4654
1560			4440	2.8461538	.4543
1620			4500	2.7777778	.4437
1680			4560	2.7142857	.4337
1740			4620	2.6551724	.4241
1800			4680	2.6	.415
1860			4740	2.5483871	.4063
1920			4800	2.5	.3979
1980			4860	2.4545455	.39
2040			4920	2.4117647	.3823
2100			4980	2.3714286	.375
2160			5040	2.3333333	.368
2220			5100	2.2972973	.3612
2280			5160	2.2631579	.3547
2340			5220	2.2307692	.3485
2400			5280	2.2	.3424
2460			5340	2.1707317	.3366
2520			5400	2.1428571	.331
2580			5460	2.1162791	.3256
2640			5520	2.0909091	.3203
2700			5580	2.0666667	.3153
2760			5640	2.0434783	.3104
2820			5700	2.0212766	.3056
2880			5760	2	.301

PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 2  
 WELL NO.: 2  
 WELL DEPTH: 200m  
 CASING DIAMETER: 10.16cm  
 SWL: 43.44m

TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)
0	43.44	0	0	
1	50.41	-6.97	66	1.57
2	50.54	-7.1	66	1.57
3	50.69	-7.25	66	1.57
4	50.8	-7.36	66	1.57
5	50.8	-7.36	66	1.57
6	50.97	-7.53	67	1.63
7	51.02	-7.58	67	1.63
8	50.98	-7.54	67	1.63
9	50.93	-7.49	66	1.57
10	51.07	-7.63	66	1.57
12	51.08	-7.64	66	1.57
14	51.01	-7.57	65	1.51
16	51.15	-7.71	65	1.51
18	51.22	-7.78	65	1.51
20	51.06	-7.62	66	1.57
25	51.15	-7.71	65	1.51
30	51.11	-7.67	66	1.57
35	51.07	-7.63	66	1.57
40	51.03	-7.59	67	1.63
45	51.02	-7.58	66	1.57
50	50.95	-7.51	66	1.57
55	51.05	-7.61	66	1.57
60	51.03	-7.59	66	1.57
70	50.98	-7.54	65	1.51
80	51.14	-7.7	67	1.63
90	51.12	-7.68	66	1.57
100	51.15	-7.71	66	1.57
110	51.15	-7.71	66	1.57
120	51.14	-7.7	67	1.63
135	51.12	-7.68	66	1.57
150	51.1	-7.66	66	1.57
165	51.14	-7.7	66	1.57
180	51.19	-7.75	67	1.63
210	51.14	-7.7	66	1.57
240	51.05	-7.61	65	1.51
270	51.07	-7.63	65	1.51

300	51.14	-7.7	66	1.57
360	51.21	-7.77	65	1.51
420	51.21	-7.77	65	1.51
480	51.26	-7.82	65	1.51
540	51.14	-7.7	65	1.51
600	51.15	-7.71	65	1.51
660	51.19	-7.75	65	1.51
720	51.17	-7.73	65	1.51

RECOVERY TEST

t2	WATER LEVEL(m)	DRAWDOWN (m)	t1+t2	t/t'
0	51.17	7.73	720	
1	48.12	4.68	721	721
2	47.95	4.51	722	361
3	47.71	4.27	723	241
4	47.56	4.12	724	181
5	47.43	3.99	725	145
6	47.37	3.93	726	121
7	47.33	3.89	727	103.85714
8	47.14	3.7	728	91
9	46.81	3.37	729	81
10	46.59	3.15	730	73
12	46.47	3.03	732	61
14	46.39	2.95	734	52.428571
16	46.25	2.81	736	46
18	46.23	2.79	738	41
20	46.21	2.77	740	37
25	46.11	2.67	745	29.8
30	45.99	2.55	750	25
35	45.93	2.49	755	21.571429
40	45.77	2.33	760	19
45	45.6	2.16	765	17
50	45.45	2.01	770	15.4
55	45.24	1.8	775	14.090909
60	45.09	1.65	780	13
70	44.86	1.42	790	11.285714
80	44.72	1.28	800	10
90	44.64	1.2	810	9
100	44.54	1.1	820	8.2
110	44.47	1.03	830	7.5454545
120	44.42	.98	840	7
135	44.32	.88	855	6.3333333
150	44.23	.79	870	5.8

165	44.18	.74	885	5.3636364
180	44.14	.7	900	5
210	44.07	.63	930	4.4285714
240	44.01	.57	960	4
270	43.96	.52	990	3.6666667
300	43.93	.49	1020	3.4
360	43.86	.42	1080	3
420	43.8	.36	1140	2.7142857
480	43.77	.33	1200	2.5
540			1260	2.3333333
600			1320	2.2
660			1380	2.0909091
720			1440	2

PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 2  
 WELL NO.: 3  
 WELL DEPTH: 100m  
 CASING DIAMETER: 10.16cm  
 SWL: 3.66m

TIME (min)	WATER LEVEL (m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)
0	3.66	0	0	
1	4.76	-1.1	75	2.07
2	4.89	-1.23	81	2.51
3	4.85	-1.19	81	2.51
4	4.73	-1.07	80	2.44
5	4.79	-1.13	80	2.44
6	4.8	-1.14	80	2.44
7	4.76	-1.1	80	2.44
8	4.71	-1.05	80	2.44
9	4.75	-1.09	80	2.44
10	4.75	-1.09	80	2.44
12	4.78	-1.12	80	2.44
14	4.82	-1.16	80	2.44
16	4.8	-1.14	80	2.44
18	4.78	-1.12	80	2.44
20	4.87	-1.21	80	2.44
25	4.85	-1.19	79	2.36
30	4.88	-1.22	80	2.44
35	4.89	-1.23	80	2.44
40	4.89	-1.23	80	2.44
45	4.89	-1.23	80	2.44
50	4.91	-1.25	80	2.44
55	4.97	-1.31	80	2.44
60	4.98	-1.32	80	2.44
70	4.98	-1.32	80	2.44
80	4.98	-1.35	80	2.44
90	5.01	-1.35	80	2.44
100	5.01	-1.36	80	2.44
110	5.02	-1.36	80	2.44
120	5.02	-1.36	80	2.44
135	5.02	-1.37	81	2.51
150	5.03	-1.38	80	2.44
165	5.04	-1.39	80	2.44
180	5.05	-1.4	81	2.51
210	5.06	-1.41	80	2.44
240	5.07	-1.41	80	2.44
270	5.07	-1.38	81	2.51

300	5.04	-1.41	80	2.44
360	5.07	-1.41	80	2.44
420	5.06	-1.4	80	2.44
480	5.07	-1.41	80	2.44
540	5.06	-1.4	80	2.44
600	5.07	-1.41	81	2.51
660	5.07	-1.41	80	2.44
720	5.07	-1.41	80	2.44

RECOVERY TEST

t2	WATER LEVEL(m)	DRAWDOWN (m)	t1+t2	t/t1
0	5.07	1.41	720	
1	4.12	.46	721	721
2	4.03	.37	722	361
3	4.01	.35	723	241
4	4	.34	724	181
5	3.99	.33	725	145
6	4	.34	726	121
7	4	.34	727	103.85714
8	3.98	.32	728	91
9	3.97	.31	729	81
10	3.97	.31	730	73
12	3.97	.31	732	61
14	3.97	.31	734	52.428571
16	3.96	.3	736	46
18	3.95	.29	738	41
20	3.95	.29	740	37
25	3.94	.28	745	29.8
30	3.93	.27	750	25
35	3.92	.26	755	21.571429
40	3.91	.25	760	19
45	3.9	.24	765	17
50	3.89	.23	770	15.4
55	3.89	.23	775	14.090909
60	3.89	.23	780	13
70	3.88	.22	790	11.285714
80	3.87	.21	800	10
90	3.86	.2	810	9
100	3.85	.19	820	8.2
110	3.84	.18	830	7.5454545
120	3.83	.17	840	7
135	3.82	.16	855	6.3333333
150	3.82	.16	870	5.8



165	3.81	.15	885	5.3636364
180	3.8	.14	900	5
210	3.8	.14	930	4.4285714
240	3.79	.13	960	4
270	3.79	.13	990	3.6666667
300	3.79	.13	1020	3.4
360	3.78	.12	1080	3
420	3.78	.12	1140	2.7142857
480	3.77	.11	1200	2.5
540	3.77	.11	1260	2.3333333
600			1320	2.2
660			1380	2.0909091
720			1440	2

STEP DRAWDOWN TEST DATA SHEET

WELL LOCATION: LAS PINAS

SITE NO.: 3

WELL NO.: 1

WELL DEPTH 300M

CASING DIA 20.32cm

SWL: 64.43m

TIME (min)	TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)	DATA NAME
0	0	64.43	0	0		
1	1	70.63	-6.20	68	1.69	
2	2	70.03	-5.60	68	1.69	
3	3	69.25	-4.82	68	1.69	
4	4	68.96	-4.53	68	1.69	
5	5	69.58	-5.15	68	1.69	
6	6	70.02	-5.59	68	1.69	
7	7	70.23	-5.80	68	1.69	
8	8	70.39	-5.96	68	1.69	
9	9	70.43	-6.00	68	1.69	
10	10	70.47	-6.04	68	1.69	
12	12	70.56	-6.13	68	1.69	
14	14	70.62	-6.19	68	1.69	
16	16	70.69	-6.26	68	1.69	
18	18	70.75	-6.32	68	1.69	
20	20	70.80	-6.37	68	1.69	
25	25	71.35	-6.92	72	1.95	
30	30	72.16	-7.73	72	1.95	
35	35	70.99	-6.56	68	1.69	
40	40	71.03	-6.60	68	1.69	
45	45	70.92	-6.49	67	1.63	
50	50	71.05	-6.62	68	1.69	
55	55	71.01	-6.58	67	1.63	
60	60	71.07	-6.64	68	1.69	
70	70	71.44	-7.01	68	1.69	
80	80	71.48	-7.05	68	1.69	
90	90	71.52	-7.09	68	1.69	
100	100	71.53	-7.10	68	1.69	
110	110	71.79	-7.36	68	1.69	
120	120	71.83	-7.40	68	1.69	Q=102 /min
121	1	77.33	-12.90	89	3.31	
122	2	80.17	-15.74	95	3.89	
123	3	81.10	-16.67	95	3.89	
124	4	81.12	-16.69	95	3.89	
125	5	81.10	-16.67	89	3.31	
126	6	81.04	-16.61	89	3.31	
127	7	80.84	-16.41	89	3.31	

128	8	80.79	-16.36	89	3.31
129	9	80.72	-16.29	89	3.31
130	10	80.76	-16.33	89	3.31
132	12	80.86	-16.43	89	3.31
134	14	80.89	-16.46	89	3.31
136	16	80.92	-16.49	89	3.31
138	18	80.86	-16.43	89	3.31
140	20	80.87	-16.44	89	3.31
145	25	80.92	-16.49	89	3.31
150	30	80.95	-16.52	89	3.31
155	35	80.98	-16.55	89	3.31
160	40	80.98	-16.55	89	3.31
165	45	81.08	-16.65	90	3.40
170	50	81.28	-16.85	90	3.40
175	55	81.39	-16.96	90	3.40
180	60	81.41	-16.98	90	3.40
190	70	81.46	-17.03	90	3.40
200	80	81.52	-17.09	90	3.40
210	90	81.58	-17.15	90	3.40
220	100	80.64	-16.21	89	3.31
230	110	79.60	-15.17	89	3.31
240	120	79.49	-15.06	89	3.31
241	1	82.81	-18.38	105	5.00
242	2	84.35	-19.92	105	5.00
243	3	85.11	-20.68	105	5.00
244	4	85.57	-21.14	105	5.00
245	5	85.81	-21.38	105	5.00
246	6	86.04	-21.61	105	5.00
247	7	86.37	-21.94	105	5.00
248	8	86.66	-22.23	105	5.00
249	9	86.86	-22.43	105	5.00
250	10	86.91	-22.48	105	5.00
252	12	86.98	-22.55	105	5.00
254	14	87.15	-22.72	105	5.00
256	16	87.26	-22.83	105	5.00
258	18	87.31	-22.88	105	5.00
260	20	87.53	-23.10	105	5.00
265	25	87.53	-23.10	105	5.00
270	30	87.44	-23.01	105	5.00
275	35	87.64	-23.21	105	5.00
280	40	87.52	-23.09	105	5.00
285	45	87.48	-23.05	105	5.00
290	50	87.51	-23.08	105	5.00
295	55	87.73	-23.30	105	5.00
300	60	87.68	-23.25	105	5.00
310	70	87.84	-23.41	105	5.00

Q=198 /min

320	80	87.82	-23.39	105	5.00
330	90	88.01	-23.58	105	5.00
340	100	88.11	-23.68	105	5.00
350	110	87.99	-23.56	105	5.00
360	120	88.13	-23.70	105	5.00 Q=300 /min
361	1	91.17	-26.74	118	6.70
362	2	92.66	-28.23	118	6.70
363	3	93.37	-28.94	118	6.70
364	4	93.87	-29.44	118	6.70
365	5	94.22	-29.79	118	6.70
366	6	94.36	-29.93	118	6.70
367	7	94.53	-30.10	118	6.70
368	8	94.61	-30.18	118	6.70
369	9	94.92	-30.49	118	6.70
370	10	95.67	-31.24	120	6.98
372	12	94.90	-30.47	118	6.70
374	14	94.78	-30.35	118	6.70
376	16	94.73	-30.30	118	6.70
378	18	94.68	-30.25	118	6.70
380	20	94.51	-30.08	118	6.70
385	25	94.27	-29.84	118	6.70
390	30	94.20	-29.77	118	6.70
395	35	95.39	-30.96	118	6.70
400	40	94.45	-30.02	118	6.70
405	45	94.42	-29.99	118	6.70
410	50	94.39	-29.96	118	6.70
415	55	94.07	-29.64	118	6.70
420	60	94.08	-29.65	118	6.70
430	70	93.98	-29.55	118	6.70
440	80	93.55	-29.12	118	6.70
450	90	94.30	-29.87	118	6.70
460	100	94.17	-29.74	118	6.70
470	110	93.43	-29.00	118	6.70
480	120	93.98	-29.55	118	6.70 Q=402 /min
481	1	93.88	-29.45	121	7.13
482	2	94.25	-29.82	121	7.13
483	3	94.37	-29.94	121	7.13
484	4	94.59	-30.16	121	7.13
485	5	94.69	-30.26	121	7.13
486	6	94.72	-30.29	121	7.13
487	7	94.77	-30.34	121	7.13
488	8	94.72	-30.29	121	7.13
489	9	94.73	-30.30	121	7.13
490	10	94.79	-30.36	121	7.13 Q=428 /min

CONTINUOUS PUMPING TEST DATA SHEET

WELL LOCATION: LAS PINAS

SITE NO.: 3

WELL NO.: 1

WELL DEPTH: 300M

CASING DIAMETER 20.32cm

SWL: 64.90m

TIME (min)	WATER LEVEL(m)	DRAWDOWN (m)	V-NOTCH (mm)	DISCHARGE (l/sec)	TEMP (Deg.C)	ECt	EC18
0	64.90	0					
1	76.69	-11.79	105	5.0			
2	77.47	-12.57	105	5.0			
3	77.97	-13.07	105	5.0			
4	78.39	-13.49	105	5.0			
5	78.89	-13.99	105	5.0			
6	79.66	-14.76	105	5.0			
7	80.34	-15.44	105	5.0			
8	80.84	-15.94	105	5.0			
9	81.32	-16.42	105	5.0			
10	81.64	-16.74	105	5.0	33.5	740	552
12	82.04	-17.14	105	5.0			
14	82.42	-17.52	105	5.0			
16	82.88	-17.98	105	5.0			
18	83.14	-18.24	105	5.0			
20	83.34	-18.44	105	5.0	34.0	800	592
25	83.67	-18.77	105	5.0			
30	83.97	-19.07	105	5.0	34.5	750	550
35	83.50	-18.60	105	5.0			
40	82.67	-17.77	103	4.8	34.3	740	545
45	82.73	-17.83	103	4.8			
50	82.79	-17.89	105	5.0	34.3	740	545
55	82.95	-18.05	105	5.0			
60	82.99	-18.09	105	5.0	34.5	740	543
70	83.14	-18.24	105	5.0	34.4	730	536
80	83.70	-18.80	105	5.0	34.4	740	544
90	83.78	-18.88	105	5.0	34.3	730	537
100	83.81	-18.91	105	5.0	34.3	730	537
110	83.82	-18.92	105	5.0	34.5	730	536
120	83.92	-19.02	105	5.0	34.4	730	536
135	84.10	-19.20	105	5.0			
150	84.09	-19.19	105	5.0	34.5	730	536
165	83.92	-19.02	105	5.0			
180	83.63	-18.73	105	5.0	34.5	730	536
210	83.85	-18.95	105	5.0	34.5	720	528
240	84.13	-19.23	105	5.0	34.5	730	536
270	84.12	-19.22	105	5.0	34.4	730	536

300	84.53	-19.63	105	5.0	34.3	750	552
360	84.72	-19.82	105	5.0	34.5	720	528
420	85.46	-20.56	105	5.0	34.3	720	530
480	85.40	-20.50	105	5.0	34.6	740	542
540	85.28	-20.38	105	5.0	34.4	740	544
600	85.54	-20.64	105	5.0	34.4	720	529
660	85.58	-20.68	105	5.0	34.3	730	537
720	86.29	-21.39	105	5.0	34.3	720	530
780	86.23	-21.33	105	5.0	34.3	700	515
840	86.26	-21.36	105	5.0	34.3	700	515
900	86.19	-21.29	105	5.0	34.1	700	517
960	86.10	-21.20	105	5.0	34.1	700	517
1020	86.30	-21.40	105	5.0	34.2	700	516
1080	86.38	-21.48	105	5.0	34.1	700	517
1140	86.32	-21.42	105	5.0	34.4	700	514
1200	86.20	-21.30	105	5.0	34.2	700	516
1260	86.80	-21.90	105	5.0	34.1	700	517
1320	86.91	-22.01	105	5.0	34.0	700	518
1380	87.50	-22.60	105	5.0	34.5	700	514
1440	86.56	-21.66	105	5.0	33.9	700	519
1500	86.63	-21.73	105	5.0	34.1	710	524
1560	86.54	-21.64	105	5.0	34.0	710	525
1620	86.50	-21.60	105	5.0	34.5	720	528
1680	86.74	-21.84	105	5.0	34.5	720	528
1740	86.72	-21.82	105	5.0	34.5	710	521
1800	86.69	-21.79	105	5.0	34.5	720	528
1860	86.84	-21.94	105	5.0	34.5	700	514
1920	86.01	-21.11	105	5.0	34.3	700	515
1980	86.12	-21.22	105	5.0	34.3	700	515
2040	86.96	-22.06	105	5.0	34.5	710	521
2100	86.90	-22.00	105	5.0	34.3	700	515
2160	86.85	-21.95	105	5.0	34.4	690	507
2220	86.78	-21.88	105	5.0	34.2	700	516
2280	86.64	-21.74	105	5.0	34.0	690	510
2340	86.77	-21.87	105	5.0	34.2	710	523
2400	86.82	-21.92	105	5.0	34.0	700	518
2460	87.05	-22.15	105	5.0	34.4	700	514
2520	86.96	-22.06	105	5.0	34.3	700	515
2580	86.90	-22.00	105	5.0	34.3	690	508
2640	87.35	-22.45	105	5.0	34.3	700	515
2700	86.97	-22.07	105	5.0	34.0	710	525
2760	86.99	-22.09	105	5.0	34.0	720	533
2820	86.63	-21.73	105	5.0	33.9	700	519
2880	86.83	-21.93	105	5.0	33.9	710	526

RECOVERY TEST

t2	WATER LEVEL (m)	DRAWDOWN (m)	t1+t2	t/t' log(t/t')
0	86.83	21.93	2880	
1	73.85	8.95	2881	2881 3.46
2	71.82	6.92	2882	1441 3.159
3	71.14	6.24	2883	961 2.983
4	70.95	6.05	2884	721 2.858
5	70.82	5.92	2885	577 2.761
6	70.76	5.86	2886	481 2.682
7	70.62	5.72	2887	412.42857 2.615
8	70.41	5.51	2888	361 2.558
9	70.32	5.42	2889	321 2.507
10	70.09	5.19	2890	289 2.461
12	69.88	4.98	2892	241 2.382
14	69.83	4.93	2894	206.71429 2.315
16	69.63	4.73	2896	181 2.258
18	69.54	4.64	2898	161 2.207
20	69.49	4.59	2900	145 2.161
25	69.38	4.48	2905	116.2 2.065
30	69.28	4.38	2910	97 1.987
35	69.15	4.25	2915	83.285714 1.921
40	69.07	4.17	2920	73 1.863
45	68.89	3.99	2925	65 1.813
50	68.74	3.84	2930	58.6 1.768
55	68.68	3.78	2935	53.363636 1.727
60	68.65	3.75	2940	49 1.69
70	68.63	3.73	2950	42.142857 1.625
80	68.41	3.51	2960	37 1.568
90	68.29	3.39	2970	33 1.519
100	68.23	3.33	2980	29.8 1.474
110	68.15	3.25	2990	27.181818 1.434
120	68.02	3.12	3000	25 1.398
135	67.92	3.02	3015	22.333333 1.349
150	67.88	2.98	3030	20.2 1.305
165	67.78	2.88	3045	18.454545 1.266
180	67.65	2.75	3060	17 1.23
210	67.54	2.64	3090	14.714286 1.168
240	67.43	2.53	3120	13 1.114
270	67.34	2.44	3150	11.666667 1.067
300	67.24	2.34	3180	10.6 1.025
360	67.08	2.18	3240	9 .9542
420	67.00	2.10	3300	7.8571429 .8953
480	66.88	1.98	3360	7 .8451
540			3420	6.3333333 .8016
600			3480	5.8 .7634

660			3540	5.3636364	.7295
720			3600	5	.699
780			3660	4.6923077	.6714
840			3720	4.4285714	.6463
900			3780	4.2	.6232
960			3840	4	.6021
1020			3900	3.8235294	.5825
1080			3960	3.6666667	.5643
1140			4020	3.5263158	.5473
1200			4080	3.4	.5315
1260			4140	3.2857143	.5166
1320			4200	3.1818182	.5027
1380			4260	3.0869565	.4895
1440	66.03	1.13	4320	3	.4771
1500			4380	2.92	.4654
1560			4440	2.8461538	.4543
1620			4500	2.7777778	.4437
1680			4560	2.7142857	.4337
1740			4620	2.6551724	.4241
1800			4680	2.6	.415
1860			4740	2.5483871	.4063
1920			4800	2.5	.3979
1980			4860	2.4545455	.39
2040			4920	2.4117647	.3823
2100			4980	2.3714286	.375
2160			5040	2.3333333	.368
2220			5100	2.2972973	.3612
2280			5160	2.2631579	.3547
2340			5220	2.2307692	.3485
2400			5280	2.2	.3424
2460			5340	2.1707317	.3366
2520			5400	2.1428571	.331
2580			5460	2.1162791	.3256
2640			5520	2.0909091	.3203
2700			5580	2.0666667	.3153
2760			5640	2.0434783	.3104
2820			5700	2.0212766	.3056
2880			5760	2	.301



EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 1  
 WELL NO.: 1  
 WELL DEPTH 300M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
201	34.2	1850	1364
202	34.1	1875	1385
203	34.1	1890	1396
204	34.1	1890	1396
205	34.2	1910	1408
206	34.2	1900	1401
207	34.2	1910	1408
208	34.3	1920	1413
209	34.2	1940	1430
210	34.2	1940	1430
211	34.2	1950	1438
212	34.1	1960	1447
213	34.1	1960	1447
214	34.2	1970	1452
215	34.2	1990	1467
216	34.3	2000	1472
217	34.3	2010	1479
218	34.2	2015	1486
219	34.2	2030	1497
220	34.2	1960	1445
221	34.2	2050	1511
222	34.2	2070	1526
223	34.2	2090	1541
224	34.3	2100	1546
225	34.3	2110	1553
226	34.4	2110	1551
227	34.3	2130	1568
228	34.3	2145	1579
229	34.4	2175	1598
230	34.4	2180	1602
231	34.4	2195	1613
232	34.4	2200	1617
233	34.4	2210	1624
234	34.4	2230	1639
235	34.4	2250	1653
236	34.4	2270	1668

237	34.4	2290	1683
238	34.4	2310	1698
239	34.5	2315	1698
240	34.5	2320	1702
241	34.5	2320	1702
242	34.5	2340	1717
243	34.5	2350	1724
244	34.5	2380	1746
245	34.6	2400	1758
246	34.6	2400	1758
247	34.6	2450	1795
248	34.6	2460	1802
249	34.6	2460	1802
250	34.6	2470	1809
251	34.6	2480	1817
252	34.6	2500	1831
253	34.7	2500	1828
254	34.7	2520	1843
255	34.7	2540	1858
256	34.8	2550	1862
257	34.8	2590	1891
258	34.8	2590	1891
259	34.9	2600	1895
260	34.9	2630	1917
261	34.9	2640	1924
262	34.9	2670	1946
263	34.9	2690	1961
264	34.9	2695	1965
265	35.0	2720	1980
266	35.0	2750	2001
267	35.0	2790	2031
268	35.0	2800	2038
269	35.1	2810	2042
270	35.1	2840	2064
271	35.1	2880	2093
272	35.1	2895	2104
273	35.1	2910	2115
274	35.2	2920	2118
275	35.2	2940	2133
276	35.2	2960	2147
277	35.3	2990	2166
278	35.4	2990	2162
279	35.4	3000	2170
280	35.4	3050	2206
281	35.4	3050	2206
282	35.4	3090	2235

283	35.4	3090	2235
284	35.4	3100	2242
285	35.5	3100	2238
286	35.5	3110	2245
287	35.5	3140	2267
288	35.5	3230	2332
289	35.5	3260	2354
290	35.6	3300	2379
291	35.6	3310	2386
292	35.6	3330	2401
293	35.6	2150	1550
294	35.6	2150	1550
295	35.6	2160	1557
296	35.6	2160	1557
297	35.6	2170	1564
298	35.6	2170	1564
299	35.6	2160	1557
300	35.6	2170	1564

EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 1  
 WELL NO.: 2  
 WELL DEPTH 200M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
101	30.5	12900	10118
102	30.6	12700	9944
103	30.6	12500	9787
104	30.6	13000	10179
105	30.7	12400	9692
106	30.7	14000	10943
107	30.7	12200	9536
108	30.7	13100	10239
109	30.7	11800	9223
110	30.7	11500	8989
111	30.8	13200	10300
112	30.8	11400	8895
113	30.8	11300	8817
114	30.9	11300	8802
115	30.9	11200	8724
116	30.9	10800	8413
117	30.9	10500	8179
118	31.0	10300	8009
119	31.0	10100	7854
120	31.1	9600	7452
121	31.1	9700	7530
122	31.1	9600	7142
123	31.2	9200	7130
124	31.2	8900	6897
125	31.2	8900	6897
126	31.2	8500	6587
127	31.3	8200	6344
128	31.3	7900	6112
129	31.4	7600	5870
130	31.3	7300	5648
131	31.4	7000	5406
132	31.4	6800	5252
133	31.4	6400	4943
134	31.5	6200	4780
135	31.5	6100	4703
136	31.5	6100	4703

137	31.6	5900	4541
138	31.6	5600	4310
139	31.6	4400	3387
140	31.7	4300	3304
141	31.7	4000	3074
142	31.7	3800	2920
143	31.7	3400	2613
144	31.7	3100	2382
145	31.7	2600	1998
146	31.8	2400	1841
147	31.8	2100	1611
148	31.8	2130	1634
149	31.8	1900	1458
150	31.8	1660	1273
151	31.9	1500	1149
152	31.9	1360	1042
153	32.0	1160	887
154	32.0	1160	887
155	32.0	1150	879
156	32.0	1150	879
157	32.0	1110	849
158	32.0	1150	879
159	32.0	1120	856
160	32.1	1180	901
161	32.1	1190	908
162	32.1	1210	924
163	32.2	1280	975
164	32.2	1260	960
165	32.3	1280	974
166	32.3	1330	1012
167	32.4	1360	1033
168	32.4	1380	1048
169	32.4	1440	1094
170	32.4	1460	1109
171	32.4	1480	1124
172	32.5	1460	1107
173	32.5	1480	1122
174	32.5	1580	1198
175	32.6	1580	1196
176	32.6	1590	1203
177	32.6	1600	1211
178	32.6	1600	1211
179	32.7	1610	1217
180	32.7	1680	1269
181	32.8	1600	1207
182	32.8	1590	1199

183	32.8	1630	1230
184	32.9	1780	1341
185	32.8	1790	1350
186	32.8	1720	1298
187	32.8	1790	1350
188	32.8	1790	1350
189	32.8	1720	1298
190	32.9	1730	1303
191			
192			
193			
194			
195			
196			
197			
198			
199			
200			

EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 1  
 WELL NO.: 3  
 WELL DEPTH 100M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21	29.9	36900	29244
22	29.9	36900	29244
23	29.9	36900	29244
24	29.6	36900	29398
25	29.6	36900	29398
26	29.6	36900	29398
27	29.6	36900	29398
28	29.6	37000	29477
29	29.6	36000	28681
30	29.7	36200	28790
31	29.6	36600	29159
32	29.7	36600	29108
33	29.5	36900	29449
34	29.7	36200	28790
35	29.7	37000	29426

36	29.7	37000	29426
37	29.6	36900	29398
38	29.7	37000	29426
39	29.7	37000	29426
40	29.7	37200	29585
41	29.6	37400	29796
42	29.7	37500	29823
43	29.7	37500	29823
44	29.7	37900	30142
45	29.7	38000	30221
46	30.0	37400	29589
47	29.6	38000	30274
48	29.7	38000	30221
49	29.7	38000	30221
50	29.7	38400	30539
51	29.7	38600	30698
52	29.7	38200	30380
53	29.7	38500	30619
54	29.7	38500	30619
55	29.8	38900	30883
56	29.7	38900	30937
57	29.7	39000	31016
58	29.9	38900	30829
59	29.8	39000	30962
60	29.9	39000	30908
61	29.9	39200	31067
62	29.8	39800	31597
63	29.8	39800	31597
64	29.8	39800	31597
65	29.9	39900	31621
66	29.9	39900	31621
67	29.9	40000	31701
68	29.9	40000	31701
69	29.9	40000	31701
70	29.9	40000	31701
71	29.9	39200	31067
72	29.9	40200	31859
73	29.9	38400	30433
74	29.9	40000	31701
75	29.9	40000	31701
76	29.9	40000	31701
77	30.0	40000	31646
78	30.0	40000	31646
79	30.0	40000	31646
80	30.0	40200	31804
81	30.0	40200	31804



82	30.1	40200	31749
83	30.1	40200	31749
84	30.1	40200	31749
85	30.1	40200	31749
86	30.1	40200	31749
87	30.2	40200	31693
88	30.2	40200	31693
89	30.2	40200	31693
90	30.2	40200	31693
91	30.3	40200	31639
92	30.2	40200	31693
93	30.3	40200	31639
94	30.4	40200	31584
95	30.4	40200	31584
96	30.4	40200	31584
97	30.4	40200	31584
98	30.4	34200	26870
99	30.4	28900	22706
100	30.4	28900	22706

EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 2  
 WELL NO.: 1  
 WELL DEPTH 300M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
201	33.2	1510	1132
202	33.2	1540	1154
203	33.2	1740	1304
204	33.4	1770	1322
205	33.4	1780	1330
206	33.4	1780	1330
207	33.4	1790	1337
208	33.4	1790	1337
209	33.5	1790	1335
210	33.5	1790	1335
211	33.5	1800	1342
212	33.5	1800	1342
213	33.6	1800	1340
214	33.6	1730	1288
215	33.7	1800	1338
216	33.7	1810	1345
217	33.7	1820	1353
218	33.8	2970	2204
219	33.8	3020	2241
220	33.8	3020	2241
221	33.8	3020	2241
222	33.9	3030	2245
223	33.9	3030	2245
224	33.9	3040	2252
225	34.0	3040	2249
226	34.0	3050	2256
227	34.1	3060	2260
228	34.1	3070	2267
229	34.2	3080	2271
230	34.2	3070	2263
231	34.2	3080	2271
232	34.2	3080	2271
233	34.3	3080	2267
234	34.3	3090	2274
235	34.3	3090	2274
236	34.3	3100	2282

237	34.4	3100	2278
238	34.4	3100	2278
239	34.4	3100	2278
240	34.5	3110	2282
241	34.5	3120	2289
242	34.7	3730	2728
243	34.8	3820	2789
244	34.8	3800	2775
245	34.8	3810	2782
246	34.8	3820	2789
247	34.8	3810	2782
248	34.8	3820	2789
249	34.9	3820	2785
250	34.9	3820	2785
251	35.0	3820	2780
252	35.1	3830	2783
253	35.2	3830	2779
254	35.2	3820	2771
255	35.2	3830	2779
256	35.3	3830	2774
257	35.3	3830	2774
258	35.4	3830	2770
259	35.4	3830	2770
260	35.4	3830	2770
261	35.4	3830	2770
262	35.6	3800	2739
263	35.6	3800	2739
264	35.6	3790	2732
265	35.6	3790	2732
266	35.7	3790	2728
267	35.7	3790	2728
268	35.7	3800	2735
269	35.7	3800	2735
270	35.7	3800	2735
271	35.7	3800	2735
272	35.7	3800	2735
273	35.7	3730	2685
274	35.7	3800	2735
275	35.8	3800	2731
276	35.8	3800	2731
277	35.8	3790	2723
278	35.8	3800	2731
279	35.8	3800	2731
280	35.9	3800	2726
281	35.9	3810	2734
282	35.9	3810	2734

283	36.3	3800	2709
284	36.2	3800	2714
285	36.2	3800	2714
286	36.1	3800	2718
287	36.1	3800	2718
288	36.1	3800	2718
289	36.1	3800	2718
290	36.1	3800	2718
291	36.1	3800	2718
292	36.1	3800	2718
293	36.1	3800	2718
294	36.1	3800	2718
295	36.1	3800	2718
296	36.1	3800	2718
297	36.0	3800	2722
298	36.0	3800	2722
299	36.0	3800	2722
300	36.0	3800	2722

EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 2  
 WELL NO.: 2  
 WELL DEPTH 200M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
101	32.0	21300	16284
102	30.3	21700	17079
103	30.4	22500	17678
104	30.4	22300	17520
105	30.5	22500	17647
106	30.4	22500	17678
107	30.4	22500	17678
108	30.5	22500	17647
109	30.5	22500	17647
110	30.5	22800	17882
111	30.5	22900	17961
112	30.5	22900	17961
113	30.6	23200	18165
114	30.6	23200	18165
115	30.7	23200	18134
116	30.7	23300	18212
117	30.7	23300	18212
118	30.7	23300	18212
119	30.7	23300	18212
120	30.7	23300	18212
121	30.8	23500	18336
122	30.8	23500	18336
123	30.8	23700	18493
124	30.9	23800	18539
125	30.9	23900	18617
126	30.9	24000	18695
127	30.9	24100	18772
128	31.0	24300	18896
129	31.0	24600	19129
130	31.0	24800	19285
131	31.1	24800	19252
132	31.1	25000	19407
133	31.1	25100	19485
134	31.2	25500	19761
135	31.2	25800	19994
136	31.2	26000	20149

137	31.2	26100	20226
138	31.2	26500	20536
139	31.2	26900	20846
140	31.2	27000	20924
141	31.2	27400	21234
142	31.2	27700	21466
143	31.2	28200	21854
144	31.2	28500	22086
145	31.2	28800	22319
146	31.4	29800	23015
147	31.5	29800	22976
148	31.4	29800	23015
149	31.5	29900	23053
150	31.5	29800	22976
151	31.5	29900	23053
152	31.5	29900	23053
153	31.6	27800	21398
154	31.6	28100	21629
155	31.6	28200	21706
156	31.6	28000	21552
157	31.6	28400	21860
158	31.6	28800	22167
159	31.6	28900	22244
160	31.6	28900	22244
161	31.7	29800	22898
162	31.7	29900	22975
163	31.7	29900	22975
164	31.7	29900	22975
165	31.7	29900	22975
166	31.7	29900	22975
167	31.7	29900	22975
168	31.7	29900	22975
169	31.7	29900	22975
170	31.7	29900	22975
171	31.7	29800	22898
172	31.7	30000	23052
173	31.7	29800	22898
174	31.8	29900	22936
175	32.0	30000	22936
176	32.0	30000	22936
177	32.0	30100	23012
178	32.0	29900	22859
179	32.6	30000	22707
180	32.4	30100	22858
181	32.4	30000	22783
182	32.5	30000	22745

183	32.6	30100	22782
184	32.6	30100	22782
185	32.7	30100	22744
186	32.7	30100	22744
187	32.7	30100	22744
188	32.8	30000	22631
189	32.8	25000	18859
190	32.9	25100	18903
191	32.9	25200	18979
192	32.9	24700	18602
193	32.9	23600	17774
194	32.9	23700	17849
195	32.9	23600	17774
196	32.9	23600	17774
197	32.9	23600	17774
198	32.9	23600	17774
199	32.9	23600	17774
200	33.0	23600	17744

EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 2  
 WELL NO.: 3  
 WELL DEPTH 100M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
0			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21	28.7	32000	25903
22	28.7	32200	26064
23	28.7	32100	25983
24	28.8	32200	26018
25	28.6	32200	26111
26	28.8	32200	26018
27	28.8	32300	26099
28	29.9	32400	25678
29	29.9	32800	25995
30	29.9	32800	25995
31	29.9	33900	26866
32	29.9	33500	26549
33	29.9	34000	26946
34	29.9	33000	26153
35	29.9	34100	27025



36	29.9	33200	26312
37	29.9	34200	27104
38	29.9	33500	26549
39	29.9	33700	26708
40	29.0	33800	27214
41	28.9	33800	27262
42	29.0	33800	27214
43	29.0	34000	27375
44	28.9	34200	27585
45	29.0	34800	28019
46	29.0	34800	28019
47	29.0	35600	28663
48	29.0	35800	28824
49	29.0	35800	28824
50	29.0	35800	28824
51	29.0	35800	28824
52	29.0	35900	28905
53	29.0	35900	28905
54	29.0	35900	28905
55	29.1	35800	28774
56	29.1	35900	28854
57	29.1	35900	28854
58	29.1	35900	28854
59	29.2	35900	28803
60	29.1	35900	28854
61	29.2	35900	28803
62	29.2	35900	28803
63	29.2	35900	28803
64	29.2	36000	28883
65	29.2	39800	31932
66	29.3	39700	31796
67	29.8	39200	31121
68	29.2	39700	31852
69	29.3	39700	31796
70	29.4	39400	31500
71	29.4	39400	31500
72	29.4	39300	31420
73	29.4	39300	31420
74	29.4	39300	31420
75	29.4	39500	31580
76	29.4	39300	31420
77	29.4	39300	31420
78	29.4	39400	31500
79	29.4	39300	31420
80	29.5	39300	31365
81	29.4	39200	31340

82	29.6	39200	31230
83	29.6	39200	31230
84	29.7	39200	31175
85	29.7	39200	31175
86	29.7	39200	31175
87	29.7	39200	31175
88	29.8	39200	31121
89	29.8	39200	31121
90	29.7	39000	31016
91	29.8	39200	31121
92	29.9	39200	31067
93	29.8	39200	31121
94	29.8	39200	31121
95	30.0	39200	31013
96	30.0	39200	31013
97	30.0	32800	25949
98	31.0	29500	22939
99	31.0	28000	21773
100	31.0	28000	21773

EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: LAS PINAS  
 SITE NO.: 3  
 WELL NO.: 1  
 WELL DEPTH 300M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
65	30.2	760	599
66	30.4	760	597
67	30.5	760	596
68	30.5	760	596
69	30.6	765	599
70	30.5	770	604
71	30.6	770	603
72	30.6	775	607
73	30.6	780	611
74	30.7	780	610
75	30.7	785	614
76	30.8	785	613
77	30.7	780	610
78	30.9	780	608
79	30.9	780	608
80	30.9	780	608
81	31.0	780	607
82	31.0	780	607
83	31.0	780	607
84	31.1	780	605
85	31.1	780	605
86	31.1	785	609
87	31.1	780	605
88	31.2	780	604
89	31.2	785	608
90	31.2	780	604
91	31.3	780	603
92	31.3	785	607
93	31.3	785	607
94	31.3	785	607
95	31.3	785	607
96	31.4	790	610
97	31.4	785	606
98	31.4	785	606
99	31.4	785	606
100	31.5	785	605

101	31.5	785	605
102	31.5	785	605
103	31.5	785	605
104	31.5	785	605
105	31.5	785	605
106	31.5	785	605
107	31.5	785	605
108	31.5	785	605
109	31.5	785	605
110	31.5	780	601
111	31.6	785	604
112	31.6	785	604
113	31.6	785	604
114	31.6	785	604
115	31.7	785	603
116	31.7	785	603
117	31.7	785	603
118	31.7	785	603
119	31.7	785	603
120	31.7	790	607
121	31.7	790	607
122	31.7	790	607
123	31.7	785	603
124	31.6	785	604
125	31.6	785	604
126	31.6	785	604
127	31.6	785	604
128	31.6	790	608
129	31.7	790	607
130	31.7	790	607
131	31.7	790	607
132	31.7	790	607
133	31.8	790	606
134	31.8	790	606
135	31.8	790	606
136	31.9	790	605
137	32.0	795	608
138	32.0	800	612
139	32.0	800	612
140	32.0	800	612
141	32.1	800	611
142	32.1	800	611
143	32.1	800	611
144	32.2	800	610
145	32.2	805	613
146	32.2	805	613

147	32.3	805	612
148	32.3	810	616
149	32.3	810	616
150	32.4	810	615
151	32.4	810	615
152	32.4	810	615
153	32.5	810	614
154	32.5	815	618
155	32.5	815	618
156	32.5	820	622
157	32.5	820	622
158	32.5	820	622
159	32.5	820	622
160	32.6	820	621
161	32.6	820	621
162	32.6	825	624
163	32.6	825	624
164	32.6	825	624
165	32.7	825	623
166	32.7	825	623
167	32.7	830	627
168	32.7	830	627
169	32.8	830	626
170	32.8	830	626
171	32.8	830	626
172	32.8	830	626
173	32.8	830	626
174	32.9	830	625
175	32.9	830	625
176	32.9	830	625
177	32.9	830	625
178	33.0	830	624
179	33.0	830	624
180	33.0	830	624
181	33.0	830	624
182	33.1	830	623
183	33.1	830	623
184	33.1	830	623
185	33.1	830	623
186	33.1	830	623
187	33.2	830	622
188	33.2	830	622
189	33.2	830	622
190	33.2	825	618
191	33.2	825	618
192	33.2	825	618

193	33.3	825	617
194	33.3	825	617
195	33.3	825	617
196	33.3	830	621
197	33.4	830	620
198	33.4	830	620
199	33.4	830	620
200	33.5	830	619
201	33.5	830	619
202	33.5	830	619
203	33.5	835	623
204	33.5	840	626
205	33.5	840	626
206	33.5	845	630
207	33.6	850	633
208	33.6	850	633
209	33.6	855	637
210	33.6	865	644
211	33.7	870	647
212	33.7	875	650
213	33.7	880	654
214	33.8	885	657
215	33.8	890	660
216	33.8	895	664
217	33.8	895	664
218	33.9	900	667
219	33.9	905	670
220	34.3	955	703
221	34.3	1000	736
222	34.3	1005	740
223	34.4	1010	742
224	34.4	1010	742
225	34.4	1010	742
226	34.5	1010	741
227	34.5	1010	741
228	34.5	1010	741
229	34.5	1010	741
230	34.5	1010	741
231	34.5	1010	741
232	34.5	1010	741
233	34.5	1010	741
234	34.6	1010	740
235	34.6	1015	743
236	34.7	1020	746
237	34.7	1020	746
238	34.7	1020	746

239	34.7	1020	746
240	34.8	1020	745
241	34.8	1020	745
242	34.8	1020	745
243	34.8	1020	745
244	34.8	1020	745
245	34.8	1020	745
246	34.8	1020	745
247	34.8	1020	745
248	34.9	1025	747
249	34.9	1050	765
250	34.9	1170	853
251	35.0	1640	1194
252	35.0	1660	1208
253	35.0	1670	1215
254	35.0	1680	1223
255	35.1	1820	1322
256	35.1	1870	1359
257	35.2	1900	1378
258	35.1	1900	1381
259	35.2	1720	1248
260	35.2	1710	1241
261	35.2	1700	1233
262	35.2	1700	1233
263	35.2	1700	1233
264	35.2	1700	1233
265			
266			
267			
268			
269			
270			
271			
272			
273			
274			
275			
276			
277			
278			
279			
280			
281			
282			
283			
284			

EC & TEMPERATURE DURING PUMPING

TIME (min)	LP1-2 (200m)		LP1-3 (100m)		LP2-2 (200m)		LP2-3 (100m)	
	Temp (Deg.C)	ECt (us/cm)	Temp (Deg.C)	ECt (us/cm)	Temp (Deg.C)	ECt (us/cm)	Temp (Deg.C)	ECt (us/cm)
0								
10	31.1	770	29.9	39800	31542	29100	29.0	38200
20	31.6	750	29.8	40000	31756	26000	28.9	37200
30	32.0	755	29.7	40000	31812	24500	29.0	38000
40	31.6	735	29.7	39500	31414	29000	29.1	37800
50	32.0	740	29.6	39400	31389	22800	29.0	37800
60	31.7	755	29.7	39200	31175	21500	28.9	38000
70	31.7	740	29.7	39100	31096	28500	28.9	37400
80	31.5	740	29.7	39000	31016	17900	28.9	38005
90	31.8	750	29.7	39100	31096	17300	28.9	37200
100	31.8	780	29.7	38900	30937	17800	28.9	37200
110	31.8	750	29.8	39100	31042	17500	28.9	37100
120	31.6	749	29.8	39100	31042	16500	28.9	37100
150	31.7	760	29.7	39100	31096	15200	28.9	37200
180	31.6	740	29.9	39000	30908	23200	29.0	37100
210	31.6	720	30.0	39000	30854	14800	28.7	37000
240	31.6	735	30.0	39000	30854	14700	28.9	37000
270	31.9	730	30.0	38900	30775	14100	29.0	36800
300	31.9	720	30.0	38900	30775	14100	28.8	36800
360	31.6	735	29.9	38000	30116	14500	29.0	36900
420	31.9	725	29.6	37800	30115	13500	29.0	36800
480	31.9	720	29.9	37000	29323	12800	28.9	37000
540	31.6	755	29.6	38000	30274	12900	28.9	36200
600	31.6	760	29.7	37100	29505	12600	28.8	36100
660	31.4	705	29.5	37000	29529	12300	28.9	36800
720	31.6	710	29.6	37500	29876	12300	28.8	36700
								30757
								30005
								30596
								30381
								30435
								30650
								30166
								30005
								30005
								29924
								29924
								30005
								29871
								29950
								29844
								29630
								29735
								29710
								29630
								29844
								29198
								29169
								29682
								29654



EC AND TEMPERATURE LOGS DATA SHEET

WELL LOCATION: ANTIPOLO  
 WELL NO.: 2  
 WELL DEPTH 200M  
 INTERVAL: 1M

Depth (m)	Temp. (deg.C)	E.C. (us/cm)	E.C.18 (us/cm)
61	27.6	25	21
62	27.6	23	19
63	27.6	23	19
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76	27.4	27	22
77	27.3	27	22
78	27.2	355	295
79	27.2	351	292
80	27.2	352	293
81	27.2	352	293
82	27.2	352	293
83	27.2	350	291
84	27.2	349	290
85	27.2	346	288
86	27.3	344	286
87	27.3	348	289
88	27.4	349	289
89	27.4	351	291
90	27.4	351	291
91	27.4	352	292
92	27.4	355	294
93	27.4	354	293
94	27.4	355	294
95	27.4	356	295
96	27.4	355	294
97	27.4	353	293
98	27.4	353	293
99	27.4	350	290
100	27.4	351	291
101	27.4	351	291

102	27.3	351	291
103	27.3	351	291
104	27.3	351	291
105	27.3	351	291
106	27.3	350	291
107	27.2	349	290
108	27.2	348	289
109	27.2	348	289
110	27.2	348	289
111	27.2	346	288
112	27.2	343	285
113	27.2	340	283
114	27.2	332	276
115	27.2	330	274
116	27.2	330	274
117	27.2	330	274
118	27.2	330	274
119	27.2	330	274
120	27.2	329	274
121	27.2	328	273
122	27.2	328	273
123	27.2	328	273
124	27.2	327	272
125	27.2	326	271
126	27.2	326	271
127	27.2	325	270
128	27.2	324	269
129	27.2	324	269
130	27.2	322	268
131	27.2	322	268
132	27.2	320	266
133	27.2	320	266
134	27.2	319	265
135	27.2	319	265
136	27.2	318	264
137	27.2	318	264
138	27.2	318	264
139	27.2	318	264
140	27.2	317	264
141	27.2	317	264
142	27.2	316	263
143	27.2	316	263
144	27.2	315	262
145	27.2	315	262
146	27.2	315	262
147	27.2	314	261
148	27.2	313	260
149	27.2	312	259
150	27.1	311	259
151	27.1	310	258

152	27.1	310	258
153	27.1	308	257
154	27.1	307	256
155	27.1	305	254
156	27.1	305	254
157	27.1	307	256
158	27.2	308	256
159	27.2	308	256
160	27.2	307	255
161	27.2	307	255
162	27.2	307	255
163	27.1	306	255
164	27.1	306	255
165	27.1	305	254
166	27.1	308	257
167	27.1	308	257
168	27.2	309	257
169	27.2	310	258
170	27.2	310	258
171	27.2	312	259
172	27.2	315	262
173	27.2	317	264
174	27.2	317	264
175	27.2	318	264
176	27.2	317	264
177	27.2	317	264
178	27.2	317	264
179	27.2	318	264
180	27.2	318	264
181	27.2	318	264
182	27.2	318	264
183	27.2	318	264
184	27.2	322	268
185	27.3	465	386
186	27.2	468	389
187	27.3	470	390
188	27.2	470	391
189	27.2	472	393
190	27.2	470	391
191	27.2	470	391
192	27.2	471	392
193	27.2	472	393
194	27.3	473	393
195	27.2	473	393
196	27.2	474	394
197	27.2	474	394
198	27.2	475	395
199	27.2	474	394
200			

