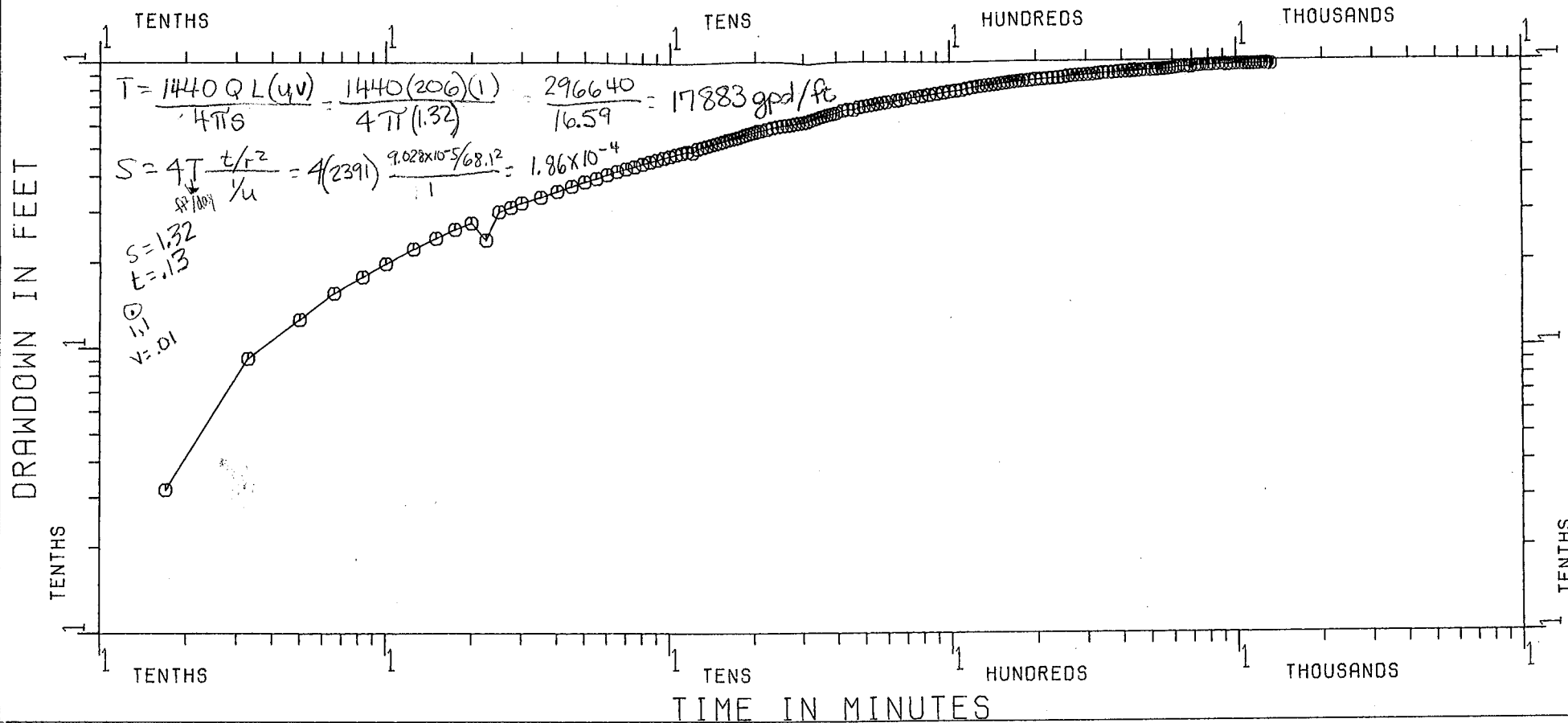


Cooper

$$\text{leakance } K'/b' = 4T \frac{v^2}{r^2} = 4(2391) \frac{01^2}{68.1^2} = 2.06 \times 10^{-4} \text{ day}^{-1}$$

OBSERVATION WELL: BTW-2OBS

R=68.1 Q= 206



FP&L COAL GASSIFICATION SITE



AQUIFER PUMPING TEST OBSERVATION WELL BTW-2

PROJECT EPL MARTIN

JOB No. 19320-016

TEST TYPE CONSTANT RATE DATE TEST BEGUN 4/24-25/89
 PUMPING WELL BTW-2 DIST. TO PPG WELL 1
 SCREEN DEPTH () : PPG WELL OBS. WELL
 FLOW MEAS. METHOD OR PUMP
 PUMPING RATE / HISTORY

PUMPING PERIOD
 REFERENCE POINT Top of 1" dia. PVC soundy Pipe ELEVATION
 LOCATION 2.08" above 95. 8" PVC 196' along OBSERVER

Draw Down

Sheet 1 of 3

4/24

TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()	TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()
0828		5.82	—	↓		7 1/2	25.61	19.69	
0854		5.85	—	↓	10:08	8	25.73	19.80	
0924		5.82	—	↓		8 1/2	25.77	19.85	
0950		5.82	—	↓	10:09	9	25.83	19.91	
0953		5.85	—	↓		9 1/2	26.01	20.09	
0955		5.85	—	↓	10:10	10	26.04	20.12	
0957		5.90	—	↓		10 1/2	26.04	20.12	
0959	0	5.90	—	↓	10:11	11	26.16	20.24	
	10:17	12.39	6.49			11 1/2	26.21	20.29	
	30:50	19.86	13.96		10:12	12	26.22	20.30	
	40:46	21.39	15.47			12 1/2	26.27	20.35	
	50:33	21.80	15.88		10:13	13	26.33	20.41	
10:01	1min	22.16	16.24			13 1/2	26.49	20.57	
	1:14	22.41	16.49		10:14	14	26.47	20.55	
	1:12	22.88	16.96			14 1/2	26.40	20.48	
	1:3/4	23.06	17.14		10:15	15	26.45	20.53	
10:02	2	23.29	17.37			15 1/2	26.50	20.58	
	2:14	23.45	17.53		10:16	16	26.49	20.59	
	2:12	23.66	17.74			16 1/2	26.47	20.55	
	2:14	23.94	18.04		10:17	17	26.52	20.60	
10:03	3	24.40	18.48			17 1/2	26.67	20.55	
	3:1/2	24.16	18.24		10:18	18	26.72	20.90	
10:04	4	24.40	18.48			18 1/2	26.98	21.06	
	4:1/2	24.65	18.74		10:19	19	27.07	21.13	
10:05	5	24.92	19.00			19 1/2	27.04	21.12	
	5:1/2	25.17	19.25		10:20	20	27.09	21.17	
10:06	6	25.21	19.29		10:21	21	27.13	21.21	
	6:1/2	25.26	19.44		10:22	22	27.23	21.31	
10:07	7	25.51	19.69		10:23	23	27.36	21.44	



AQUIFER PUMPING TEST OBSERVATION WELL BTW-2

PROJECT _____ JOB No. 17720-016

TEST TYPE _____ DATE TEST BEGUN _____

PUMPING WELL _____ DIST. TO PPG WELL _____ ()

TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()	TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()
10:24	24	27.29	21.37		11:45	105	29.69	23.07	
10:25	25	27.20	21.29		11:50	110	29.60	23.58	
10:26	26	27.22	21.30		11:55	115	30.01	23.99	
10:27	27	27.21	21.29		12:00	120	30.05	24.13	
10:28	28	27.25	21.33		12:05	125	30.06	24.14	
10:29	29	27.24	21.32		12:10	130	30.23	24.33	
10:30	30	27.31	21.39		12:15	135	30.24	24.32	
10:31	31	27.35	21.43		12:20	140	30.26	24.34	
10:32	32	27.67	21.75		12:25	145	30.19	24.27	
10:33	33	27.72	21.80		12:30	150	30.28	24.36	
10:34	34	27.77	21.85		12:35	155	30.28	24.36	
10:35	35	27.82	21.90		12:40	160	30.39	24.47	
10:36	36	27.80	21.88		12:45	165	30.47	24.55	
10:37	37	27.91	21.99		12:50	170	30.44	24.52	
10:38	38	27.85	21.93		12:55	175	30.43	24.51	
10:39	39	27.99	22.07		13:00	180	30.40	24.48	
10:40	40	28.21	22.29		13:10	190	30.49	24.57	
10:42	42	28.31	22.39		13:20	200	30.49	24.57	
10:44	44	28.37	22.45		13:30	210	30.47	24.55	
10:46	46	28.49	22.57		13:40	220	30.47	24.55	
10:48	48	28.49	22.57		13:50	230	30.53	24.61	
10:50	50	28.51	22.59		14:00	240	30.55	24.63	
10:52	52	28.50	22.58		14:10	250	30.61	24.69	
10:54	54	28.61	22.69		14:20	260	30.84	24.92	
10:56	56	28.61	22.69		14:30	270	30.70	24.84	
10:58	58	28.66	22.74		14:40	280	30.82	24.90	
11:00	60	28.69	22.77		14:50	290	30.83	24.91	
11:05	65	29.74	22.82		15:00	300	30.77	24.85	
11:10	70	29.03	23.17		15:10	310	30.74	24.82	
11:15	75	29.13	23.21		15:15	315	30.91	24.99	
11:20	80	29.23	23.33		15:20	320	31.00	25.08	
11:25	85	29.28	23.38		15:30	330	31.04	25.12	
11:30	90	29.30	23.54		15:35	345	31.05	25.13	
11:35	95	29.62	23.70		16:00	360	30.93	25.04	
11:40	100	29.62	23.70		16:15	375	31.03	25.14	

VALUES

VALUES

VALUES

VALUES

VALUES

VALUES

14:15
NOW
N. 5 cap

20'
↓

con.
in
dun
dun



AQUIFER PUMPING TEST OBSERVATION WELL BTW-2

PROJECT _____

JOB No. _____

TEST TYPE _____ DATE TEST BEGUN _____

PUMPING WELL _____ DIST. TO PPG WELL _____ ()

Static 5.90 TAPR MEASURED +0.02 ABOVE 20'

TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()	TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()
1631	391	31.11	25.19		401	1081	32.19	26.22	
1646	406	31.29	25.37		431	1111	32.16	26.24	
1701	421	31.03	25.11		501	1141	32.18	26.26	
1716	436	31.07	25.15		531	1171	32.19	26.22	
1731	451	31.26	25.34		601	1201	32.17	26.25	
1746	466	31.31	25.39		631	1231	32.20	26.28	
1801	481	31.28	25.36		701	1261	32.32	26.40	
18:17	497	31.37	25.45		716	1276	32.17	26.25	
18:31	511	31.33	25.41		736	1291	32.20	26.28	
18:46	526	31.32	25.40		756				
19:01	541	31.42	25.50						
19:16	556	31.35	25.43						
19:31	571	31.38	25.46						
19:46	586	31.58	25.66						
20:01	601	31.66	25.74						
20:16	616	31.78	25.86						
20:31	631	31.99	26.02						
20:46	646	31.90	25.98						
21:01	661	31.93	26.01						
21:16	676	31.90	25.98						
21:31	691	31.99	26.02						
22:01	721	31.96	26.09						
22:16	736	32.00	26.08						
22:31	751	32.09	26.17						
22:46	766	32.09	26.17						
23:16	796	32.06	26.14						
23:31	811	32.09	26.17						
4/25 000	841	32.17	26.25						
031	871	32.21	26.29						
101	901	32.20	26.28						
131	931	32.00	26.08						
200	961	32.18	26.26						
231	991	32.17	26.25						
301	1021	32.17	26.25						
331	1051	32.18	26.26						



CALCULATION SHEET

BSPC-5706 Rev. 6/88 (ED-48)

JOB NO.	CALC. NO.	REV. NO.	SHEET NO.
B TW -2 AQUIFER TEST # 2			10/2
ORIGINATOR	DATE	CHECKED	DATE
	4/24/89	6x4" ORIFICE	

WANT
9.5"
10"
201-206
9 PM

	DATE/TIME	IN. ORIFICE	ADJUST	FLOW	DATE/TIME	IN. ORIFICE	ADJUST	FLOW
1								
2	10:01	10"		206.74	1635	10-10 1/8"		
3	10:02	10"			1703	9 3/4"-10"	VALVE CLOSED due to v.b	
4	10:03	10"			1705	9 3/8"-10"		
5	10:04	10"			1730	10"		
6	10:05	10"			1803	10"		
7	10:06	10"			1818	10"		
8	10:07	10"			1832	10"		
9	10:08	10"			1903	9 7/8"	↑ 1/4 Turn	
10	10:09	10"			1918	9 7/8"	↑ 1/4 Turn	
11	10:10	10"			1933	10"		
12	10:12	10"			1948	10"		
13	10:14	10"			2003	10"		
14	10:16	10"			2017	10 1/8"-10 1/8"		
15	10:18	10"			2033	10 1/4"	↓ 1/4 Turn	
16	10:20	10"			2048	10 1/8"		
17	10:25	10"			2202	10 1/8"		
18	10:30	10"			2237	10 1/8"		
19	10:35	10"			2202	10 1/8"		
20	10:40	10"			2217	10 1/4"		
21	10:45	10"			2237	10 1/8"		
22	11:00	10"			2247	10 1/4"	↓ 1/4 Turn	
23	11:06	9 1/2"			2318	10 1/8"		
24	11:08	10"			2332	10 1/8"		
25	11:25	10"			1/500 02	10 1/4"	↓ 1/4 Turn	
26	11:45	10 3/4"			032	10 3/8"-1/4"	↓ 1/4 Turn	
27	12:00	10"			102	10 1/8"-1/4"	↓ 1/4 Turn	
28	12:15	10"			132	10 1/8"		
29	12:25	10"			203	10 1/8"		
30	13:00	10"			232	10 1/8"-1/4"	↓ 1/4 Turn	
31	14:00	10"			303	10 1/8"		
32	15:15	10"			332	10 1/8"		
33	1600	9 3/8"-10"			403	10 1/8"		
34	1615	9 3/8"-10"	1/4 turn pressure		432	10 1/8"		
35	1620	10"			502	10 1/8"		
36	1630	9 3/8"-10 1/4"	pressure 1/4 turn		532	10 1/8"		

VALVE

RECHTEL	AQUIFER RECOVERY TEST	OBSERVATION WELL BTW-2
	PROJECT <i>FPL MARTIN CC/C6</i>	JOB NO. _____

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT Top of 1" DIA PVC SIGNAL REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) 206
 PUMPING PERIOD (MIN.) 1320 *Agua Test #2* 9/25/89

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) <i>5'</i>	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO ↑/↑.	REMARKS <i>5' Col Rec</i>
7:57		32.03	26.11	—		
7:59		32.07	26.11	—		
8:00	1320	25.64	19.72	(0.1)	13,201	6.55
		15.40	9.50	33(6.58)	2,227	16.77
		14.38	8.48	45(7.75)	1761	17.79
		14.09	8.19	55(9.2)	1436	18.08
		13.79	7.89	105(1.08)	1223	18.38
		13.47	7.57	118(1.2)	1016	18.70
		13.19	7.29	130(1.5)	881	18.98
		13.04	7.14	140(1.66)	796	19.13
8:02	1322	12.84	6.94	200(2.0)	661	19.33
		12.60	6.70	214(2.2)	588	19.57
		12.51	6.61	230(2.5)	529	19.66
		12.38	6.48	244(2.7)	481	19.79
8:03	1323	12.24	6.34	300(3.0)	441	19.93
		12.01	6.11	316(3.3)	378	20.16
8:04	1324	11.80	5.90	(1.0) 4.00	331	20.37
		11.68	5.78	4.5 4.30	308	20.49
8:05	1325	11.59	5.69	5.0 5.00	285	20.31
		11.43	5.53	5.5 5.30	241	20.74
8:06	1326	11.32	5.42	6.0 6.00	221	20.85
		11.20	5.30	6.5 6.30	204	20.97
8:07	1327	11.15	5.25	7.0 7.00	190	21.02
		11.01	5.11	7.5 7.30	177	21.16
8:08	1328	10.95	5.05	8.0 8.00	166	21.22
		10.86	4.96	8.5 8.30	156	21.31
8:09	1329	10.78	4.88	9.0 9.00	148	21.39
		10.60	4.76	9.5 9.30	140	21.51 ?
8:10	1330	10.64	4.78	10.0 10.00	133	21.40
		10.56	4.66	10.5 10.30	127	21.61
8:11	1331	10.49	4.59	11.0 11.00	121	21.68
		10.37	4.47	11.5 11.30	116	21.80

Note: Use 5.92 Static for Readings 204'
 Use 5.90 Static for Readings < 20'

RECHTEL	AQUIFER RECOVERY TEST	OBSERVATION WELL RTW-2
PROJECT <u>EPL MARTIN CC/CG</u>		JOB NO. <u>19720-016</u>

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL _____
 MEASURING POINT _____ REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) _____ 4/25/88

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) <i>5'</i>	TIME SINCE PUMPING STOPPED <i>1'</i> (MIN)	RATIO 1/1'	Col. Rec REMARKS <i>5'-5'</i>
8:12	1332	10.78	4.48	12.30	111	21.79
		10.30	4.40	12.30	107	21.87
8:13	1333	10.22	4.32	13.00	103	21.95
		10.17	4.27	13.30	99	22.00
8:14	1334	10.12	4.22	14.00	95	22.05
		10.09	4.19	14.30	92	22.08
8:15	1335	10.03	4.13	15.00	89	22.14
		9.99	4.09	15.30	86	22.18
8:16	1336	9.90	4.00	16.00	83.5	22.27
		9.90	4.00	16.30	81	22.27
8:17	1337	9.81	3.91	17.00	79	22.36
		9.79	3.89	17.30	76	22.39
8:18	1338	9.80	3.90	18.00	74	22.37
		9.70	3.80	18.30	72	22.47
8:19	1339	9.62	3.72	19.00	70	22.55
		9.62	3.72	19.30	69	22.55
8:20	1340	9.51	3.61	20.00	67	22.66
8:21	1341	9.49	3.59	21	64	22.68
8:22	1342	9.42	3.52	22	61	22.75
8:23	1343	9.37	3.47	23	58	22.80
8:24	1344	9.30	3.40	24	56	22.87
8:25	1345	9.26	3.36	25	54	22.91
8:26	1346	9.23	3.33	26	52	22.95
8:27	1347	9.18	3.28	27	50	23.00
8:28	1348	9.11	3.21	28	48	23.07
8:29	1349	9.07	3.17	29	46.5	23.15
8:30	1350	9.03	3.13	30	45	23.15
8:31	1351	9.01	3.11	31	44	23.17
8:32	1352	8.94	3.04	32	42	23.24
8:33	1353	8.91	3.01	33	41	23.27
8:34	1354	8.82	2.92	34	40	23.36
8:35	1355	8.81	2.91	35	39	23.37

BEGHTEL	AQUIFER RECOVERY TEST	OBSERVATION WELL <u>BTW-2</u>
	PROJECT <u>EPL MARTIN 11/66</u>	JOB NO. _____

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT _____ REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) _____ 4/25/89

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) <i>S</i>	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO ↑/↑	Calc. Rec. REMARKS <i>S-S'</i>
8:36	1355	8.76	2.86	36	38	23.42
8:37	1357	8.71	2.41	37	37	23.47
8:38	1358	8.69	2.79	38	36	23.90
8:39	1359	8.71	2.81	39	35	23.47 ?
8:40	1360	8.67	2.77	40	35	23.51
8:41	1361	8.62	2.72	41	33.2	23.56
8:42	1362	8.60	2.70	42	32.4	23.59
8:43	1363	8.58	2.68	43	31.7	23.66
8:44	1364	8.48	2.58	44	31	23.70
8:46	1365	8.50	2.60	46	30.3	23.68
8:46	1366	8.44	2.54	46	29.7	23.79
8:47	1367	8.43	2.53	47	29.1	23.75
8:48	1368	8.42	2.49	48	28.5	23.80
8:49	1369	8.35	2.45	49	27.9	23.80
8:50	1370	8.31	2.40	50	27.4	23.82
8:52	1372	8.38	2.48	52	26.8	23.80
8:51	1374	8.24	2.44	51	25.4	23.84
8:56	1376	8.24	2.39	56	24.6	23.89
8:58	1378	8.25	2.35	58	23.8	23.93
9:00	1390	8.21	2.31	60	23.0	23.97
9:02	1382	8.18	2.28	62	22.3	24.00
9:04	1384	8.15	2.25	64	21.6	24.03
9:06	1386	8.09	2.19	66	21.0	24.09
9:09	1388	8.05	2.15	68	20.4	24.13
9:10	1390	8.00	2.10	70	19.9 20.8	24.18
9:12	1392	7.96	2.06	72	19.3	24.22
9:14	1394	7.94	2.04	74	18.8	24.27
9:16	1396	7.90	2.00	76	18.4	24.28
9:18	1398	7.90	2.00	78	17.9	24.29
9:20	1400	7.84	1.94	80	17.5	24.35
9:22	1402	7.78	1.88	82	17.1	24.41
9:24	1404	7.71	1.81	84	16.7	24.48

RIGHT **AQUIFER RECOVERY TEST** **OBSERVATION WELL BTW-2**
PROJECT FPL MARTIN CC/CC **JOB NO. 19720-016**

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW#2
 MEASURING POINT _____ REFERENCE ELEV. (FT.AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) _____ 4/20/89

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT)	TIME SINCE PUMPING STOPPED (MIN)	RATIO r/r'	Col. Rec REMARKS 5-5'
9.26	1406	7.69	1.79	86	16.9	29.50
9.28	1408	7.69	1.79	88	16.0	29.50
9.30	1410	7.65	1.75	90	15.7	29.54
9.35	1415	7.55	1.65	95	19.9	29.64
9.40	1420	7.55	1.65	100	19.2	29.64
9.45	1425	7.51	1.61	105	13.6	29.68
9.50	1430	7.44	1.54	110	13.0	29.75
9.55	1435	7.43	1.53	115	12.5	29.76
10:00	1440	7.39	1.49	120	12.0	29.80
10:05	1445	7.33	1.43	125	11.6	29.86
10:10	1450	7.30	1.40	130	11.2	29.90
10:15	1455	7.25	1.35	135	10.8	29.95
10.20	1460	7.22	1.32	140	10.9	29.98
10.25	1465	7.20	1.30	145	10.1	25.00
10.30	1470	7.17	1.27	150	9.8	25.03
10:35	1475	7.13	1.23	155	9.5	25.07
10.40	1480	7.12	1.22	160	9.25	25.05
10.45	1485	7.07	1.17	165	9.0	25.13
10.50	1490	7.03	1.13	170	8.8	25.17
10.55	1495	7.01	1.11	175	8.5	25.19
11:00	1500	6.99	1.09	180	8.3	25.22
11.05	1505	6.96	1.06	185	8.1	25.25
11:10	1510	6.92	1.02	190	7.9	25.29
11.15	1515	6.91	1.01	195	7.8	25.36
11.20	1520	6.92	1.02	200	7.6	25.29
11:30	1530	6.87	0.97	210	7.3	25.34
11:40	1540	6.83	0.93	220	7.0	25.38
11:50	1550	6.81	0.91	230	6.7	25.41
12:00	1560	6.78	0.88	240	6.5	25.47
12:10	1570	6.74	0.84	250	6.3	25.45
12.20	1580	6.70	0.80	260	6.1	25.52
12.30	1590	6.67	0.77	270	5.9	25.55

PROJECT EPL MARTIN C/CG

JOB No. _____

TEST TYPE CONSTANT RATE DATE TEST BEGUN 4/24/89 to 4/25/89
 PUMPING WELL BTW-2 DIST. TO PPG WELL 68.1 FT
 SCREEN DEPTH (): PPG WELL _____ OBS. WELL _____
 FLOW MEAS. METHOD _____ PUMP _____
 PUMPING RATE / HISTORY _____

PUMPING PERIOD 22 HRS
 REFERENCE POINT Top of 2" riser pipe 1.98' above G.S. ELEVATION _____
 LOCATION _____ OBSERVER _____

Sheet 1 of 3

4/24

TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()	TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()
0830		5.02'			1007 ³⁰	7.5	9.36	4.34	
0856		5.01			1008	8	9.46	4.44	
0924		5.02			30	8.5	9.54	4.52	
0953		5.02			1009	9	9.61	4.59	
0958		5.02			30	9.5	9.69	4.67	
0959		5.02			1010	10.0	9.75	4.73	
1000	0	5.02	0		30	10.5	9.82	4.80	
10	0.17	5.34	0.32		1011	11	9.87	4.85	
20	0.33	5.94	0.92		30	11.5	9.93	4.91	
30	0.50	6.28	1.26		1012	12.0	9.99	4.97	
40	0.66	6.58	1.56		30	12.5	10.05	5.03	
50	0.83	6.80	1.78		1013	13.0	10.10	5.08	
1001	1	7.00	1.98		30	13.5	10.15	5.13	
15	1.25	7.25	2.23		1014	14.0	10.20	5.18	
30	1.50	7.45	2.43		30	14.5	10.24	5.22	
45	1.75	7.63	2.61		1015	15.0	10.28	5.26	
1002	2.0	7.77	2.75		1015 ³⁰	15.5	10.33	5.31	
15	2.25	7.92	2.90		1016	16.0	10.38	5.36	
30	2.50	8.03	3.01		30	16.5	10.41	5.39	
45	2.75	8.14	3.12		1017	17.0	10.44	5.42	
1003	3.0	8.25	3.23	1067	30	17.5	10.48	5.46	
30	3.5	8.40	3.38		1018	18.0	10.53	5.51	
1004	4.0	8.56	3.54		30	18.5	10.58	5.56	
30	4.5	8.71	3.69		1019	19	10.62	5.60	
1005	5.0	8.84	3.82		30	19 ³⁰	10.66	5.64	
30	5.5	8.95	3.93		1020	20.0	10.70	5.68	
1006	6.0	9.08	4.06		30	20.5	10.75	5.73	
1006 ³⁰	6.5	9.19	4.17		1021	21.0	10.77	5.75	
1007	7.0	9.28	4.26		1022	22	10.84	5.82	

AQUIFER PUMPING TEST OBSERVATION WELL BTW-2085

PROJECT FPL MARTIN EC/CG JOB No. 19720-016

TEST TYPE CONSTANT RATE DATE TEST BEGUN 4/24/89 TO 4/25/89
 PUMPING WELL BTW-2 DIST. TO PPG WELL 68.1 ()
 STATIC 5.02'

TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()	TIME (24 HR DAY)	TIME-AFTER PUMP ON ()	DEPTH TO WATER ()	DRAW DOWN ()	DISCHARGE ()
1023	23	10.91	6.89		1135	95	12.84	7.82	
1024	24	10.97	6.95		1140	100	12.90	7.88	
1025	25	11.02	6.00		1145	105	12.95	7.95	9 1/2 - 10"
1026	26	11.05	6.03		1150	110	12.99	7.97	ADJ ↑
1027	27	11.09	6.07		1155	115	13.08	8.06	
1028	28	11.15	6.13		1200	120	13.14	8.12	
1029	29	11.20	6.18		1206	126	13.20	8.18	
1030	30	11.23	6.21		1210	130	13.24	8.22	200
1031	31	11.28	6.26		1215	135	13.27	8.25	
1032	32	11.35	6.33		1220	140	13.30	8.28	
1033	33	11.40	6.38		1225	145	13.33	8.31	
1034	34	11.44	6.42		1230	150	13.37	8.35	
1035	35	11.49	6.47		1235	155	13.40	8.38	
1036	36	11.52	6.50		1240	160	13.43	8.41	
1037	37	11.57	6.55		1245	165	13.47	8.45	
1038	38	11.60	6.58		1250	170	13.49	8.47	
1039	39	11.63	6.61		1255	175	13.53	8.51	
1040	40	11.67	6.65		1300	180	13.54	8.52	
1042	42	11.78	6.76		1310	190	13.58	8.56	
1044	44	11.84	6.82		1320	200	13.63	8.59	
1046	46	11.92	6.90		1330	210	13.65	8.63	
1048	48	11.96	6.94		1340	220	13.69	8.67	
1050	50	12.00	6.98		1350	230	13.73	8.71	
1052	52	12.05	7.03		1400	240	13.75	8.73	
1054	54	12.10	7.08		1410	250	13.80	8.78	
1056	56	12.16	7.14		1420	260	13.86	8.84	
1058	58	12.19	7.17		1430	270	13.89	8.88	
1100	60	12.24	7.22		1440	280	13.91	8.89	
1105	65	12.33	7.31	ADJ UP	1450	290	13.93	8.91	
1107	67	12.37	7.35	ADJ	1500	300	13.95	8.93	
1110	70	12.44	7.42		1510	310	13.96	8.94	
1115	75	12.54	7.52		1520	220	14.00	8.98	
1120	80	12.62	7.60		1530	330	14.04	9.02	
1125	85	12.64	7.67		1545	345	14.08	9.06	
1130	90	12.77	7.75		1600	360	14.08	9.06	

AQUIFER PUMPING TEST OBSERVATION WELL RTW-2 OBS
 PROJECT EPL MARTIN U/CG JOB No. 19720-016

TEST TYPE CONSTANT RATE DATE TEST BEGUN 9/24/89 to 9/25/89
 PUMPING WELL RTW-1 DIST. TO PPG WELL _____ (_____)

STATIC 5.02

TIME (24 HR DAY)	TIME-AFTER PUMP ON (_____)	DEPTH TO WATER (_____)	DRAW DOWN (_____)	DISCHARGE (_____)	TIME (24 HR DAY)	TIME-AFTER PUMP ON (_____)	DEPTH TO WATER (_____)	DRAW DOWN (_____)	DISCHARGE (_____)
1615	375	14.11	9.09	7.19247	330	1050	14.70	9.68	
1630	390	14.15	9.13	7.19247	400	1080	14.70	9.68	
1645	405	14.19	9.17	330 7.19247	430	1110	14.71	9.69	
1700	420	14.19	9.17	730 7.19247	500	1190	14.71	9.69	
1715	435	14.15	9.17		530	1170	14.71	9.69	
1730	450	14.22	9.20		600	1200	14.72	9.70	
1745	465	14.25	9.23		630	1230	14.72	9.70	
1800	480	14.27	9.25		700	1260	14.75	9.73	
1816	496	14.29	9.27		715	1275	14.73	9.71	
1830	510	14.30	9.28		730	1290	14.73	9.71	
1845	525	14.31	9.29		755				
1900	540	14.32	9.30		800	1320	14.70	9.68	
1915	555	14.33	9.31						
1930	570	14.36	9.34						
1945	585	14.37	9.35						
2000	600	14.41	9.39						
2015	615	14.45	9.43						
2030	630	14.50	9.48						
2045	645	14.51	9.49						
2100	660	14.53	9.51	X					
2115	675	14.52	9.50						
2130	690	14.54	9.52						
2200	720	14.58	9.56						
2215	735	14.60	9.58						
2230	750	14.61	9.59						
2245	765	14.61	9.59						
2315	795	14.62	9.60						
2330	810	14.63	9.61						
9/25 2000	820	14.66	9.64						
030	870	14.67	9.65						
100	900	14.70	9.68						
130	930	14.65	9.63	X					
200	960	14.68	9.66						
230	990	14.70	9.68						
300	1020	14.70	9.68						

RECORDED	AQUIFER RECOVERY TEST	OBSERVATION WELL BTW 2085
	PROJECT FPL MARTIN CC/CC	JOB NO. 19720

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT Top of 2" PVC CASING REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) 5.02' AVG. PUMPING RATE (GPM) 206
 PUMPING PERIOD (MIN.) 1320 *Figure Test 2* 4/25/89

27
13
4/25/89

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) <i>5'</i>	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO ↑/↑	c. to Rec REMARKS <i>5-5'</i>
8:00	1320	14.70	12.68 <i>0.62</i>	0		
8:00:10	1320.17	14.30	9.28	1.23 <i>0.7</i>	7766	0.50
8:00:20	1320.33	13.31	8.29	1.33	4001	1.19
8:00:30	1320.50	13.20	8.18	1.50	2691	1.60
8:00:40	1320.66	13.00	7.98	1.66	2001	1.80
8:00:50	1320.83	12.8	7.78	1.83	1591	2.00
8:01:00	1321.0	12.65	7.63	1.0	1321	2.15
8:01:15	1321.25	12.55	7.43	1.25	1057	2.35
8:01:30	1321.50	12.4	7.22	1.50	881	2.66
8:01:45	1321.75	11.98	6.96	1.75	755	2.82
8:02:00	1322.0	11.81	6.79	2.0	661	2.99
8:02:15	1322.25	11.6	6.67	2.25	588	3.11
8:02:30	1322.5	11.56	6.54	2.50	529	3.24
8:02:45	1322.75	11.4	6.44	2.75	481	3.39
8:03:00	1323.0	11.27	6.35	3.00	441	3.43
8:03:15	1323.25	11.21	6.22	3.25	407	3.56
8:03:30	1323.50	11.16	6.14	3.50	378	3.64
8:03:45	1323.75	11.11	6.09	3.75	353	3.69
8:04:00	1324.0	11.02	6.00	4.00	331	3.78
8:04:30	1324.5	10.87	5.85	4.5	299	3.93
8:05:00	1325.0	10.71	5.69	5.0	265	4.00
8:05:30	1325.5	10.64	5.62	5.5	241	4.16
8:06:00	1326.0	10.55	5.53	6.0	221	4.25
8:06:30	1326.5	10.42	5.40	6.5	209	4.38
8:07:00	1327	10.39	5.32	7.0	190	4.46
8:07:30	1327.5	10.25	5.23	7.5	177	4.55
8:08:00	1328.0	10.18	5.16	8.0	166	4.62
8:08:30	1328.5	10.08	5.06	8.5	156	4.72
8:09:00	1329.0	10.02	5.00	9.0	148	4.78
8:09:30	1329.5	9.94	4.92	9.5	140	4.86
8:10:00	1330.0	9.89	4.86	10.0	133	4.92
8:10:30	1330.5	9.80	4.78	10.5	127	5.00

BECHTEL	AQUIFER RECOVERY TEST	OBSERVATION WELL BTW-2081
PROJECT <u>FPL MARTIN CC/CC</u>		JOB NO. <u>17226</u>

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT _____ REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) 1320 9/25/89

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) S'	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO I/I'	col. Rec REMARKS S-S'
8:11:00	1331	9.72	4.70	11.0	121	5.05
1:30	1331.5	9.68	4.66	11.5	116	5.12
8:12:00	1332.0	9.63	4.61	12.0	111	5.17
1:30	1332.5	9.56	4.54	12.5	107	5.24
8:12:00	1333.0	9.51	4.49	13.0	103	5.29
1:30	1333.5	9.46	4.44	13.5	99	5.34
8:14:00	1334	9.41	4.39	14.0	95	5.39
1:30	1334.5	9.36	4.32	14.5	92	5.46
8:15	1335	9.30	4.28	15.0	89	5.50
8:16	1336	9.21	4.19	16.0	83.5	5.59
8:17	1337	9.12	4.10	17.0	79	5.68
8:18	1338	9.03	4.01	18.0	74	5.77
8:19	1339	8.95	3.93	19.0	70.5	5.85
8:20	1340	8.89	3.87	20.0	67	5.91
8:21	1341	8.82	3.80	21.0	64	5.98
8:22	1342	8.76	3.74	22.0	61	6.07
8:23	1343	8.69	3.67	23.0	58	6.11
8:24	1344	8.63	3.61	24.0	56	6.17
8:25	1345	8.56	3.54	25.	54	6.24
8:26	1346	8.50	3.48	26	52	6.31
8:27	1347	8.46	3.44	27	50	6.35
8:28	1348	8.40	3.38	28	48	6.41
8:29	1349	8.35	3.33	29	46.5	6.46
8:30	1350	8.30	3.28	30	45	6.51
8:31	1351	8.26	3.24	31	43.6	6.55
8:32	1352	8.21	3.19	32	42	6.60
8:33	1353	8.16	3.14	33	41	6.65
8:34	1354	8.13	3.11	34	40	6.68
8:35	1355	8.09	3.07	35	38.7	6.72
8:36	1356	8.05	3.03	36	37.7	6.76
8:37	1357	7.99	2.97	37	36.7	6.82
8:38	1358	7.97	2.95	38	35.7	6.84

	AQUIFER RECOVERY TEST	OBSERVATION WELL <u>BTW-2085</u>
	PROJECT <u>FPL MARTIN 02/06</u>	JOB NO. <u>19720</u>

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT _____ REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) _____ 7/25/89

DATE / TIME (24 hr DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) 5'	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO ↑/↓	Col REC REMARKS 5'-5'
0839	1359	7.92	2.90	39	31.8	6.89
0840	1360	7.90	2.88	40	31	6.91
0841	1361	7.87	2.85	41	33.2	6.94
0842	1362	7.83	2.81	42	32.4	6.95
0843	1363	7.81	2.79	43	31.7	7.00
0844	1364	7.77	2.75	44	31	7.04
0845	1365	7.74	2.72	45	30.3	7.06
0846	1366	7.71	2.69	46	29.7	7.10
0847	1367	7.68	2.66	47	29.1	7.13
0848	1368	7.64	2.62	48	28.5	7.17
0849	1369	7.62	2.60	49	27.9	7.19
0850	1370	7.59	2.57	50	27.4	7.22
0852	1372	7.55	2.53	52	26.7	7.26
0854	1374	7.50	2.48	54	25.4	7.31
0856	1376	7.45	2.43	56	24.6	7.36
0858	1378	7.39	2.37	58	23.8	7.42
0900	1380	7.34	2.32	60	23	7.47
0902	1382	7.31	2.29	62	22.3	7.50
0904	1384	7.26	2.24	64	21.6	7.55
0906	1386	7.22	2.20	66	21	7.59
0908	1388	7.20	2.18	68	20.4	7.61
0910	1390	7.16	2.14	70	19.9	7.65
0914	1394	7.08	2.06	74	18.5	7.73
0916	1396	7.05	2.03	76	18.4	7.76
0918	1398	7.01	1.99	78	17.9	7.81
0920	1400	6.99	1.97	80	17.5	7.83
0922	1402	6.97	1.95	82	17.1	7.85
0924	1404	6.93	1.91	84	16.7	7.89
0926	1406	6.91	1.89	86	16.4	7.91
0928	1408	6.88	1.86	88	16	7.94
0930	1410	6.85	1.83	90	15.7	7.97
0935	1415	6.79	1.77	95	14.9	8.03

RECHTEL	AQUIFER RECOVERY TEST	OBSERVATION WELL <u>BTW-2</u>
	PROJECT <u>EPL MARIANA a/c</u>	JOB NO. <u>19720</u>

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT _____ REFERENCE ELEV. (FT. AMSL) _____
 STATIC WATER LEVEL (FT.) 5.02' AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) _____

DATE/TIME (24 hr DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) S'	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO ↑/↑'	REL REC REMARKS S-S'
0940	1420	6.72	1.70	100	11.2	8.10
0945	1425	6.68	1.66	105	13.6	8.14
0950	1430	6.62	1.60	110	13	8.20
0955	1435	6.58	1.56	115	12.5	8.24
1000	1440	6.52	1.50	120	12	8.30
1005	1445	6.48	1.46	125	11.6	8.34
1010	1450	6.44	1.42	130	11.2	8.39
1015	1455	6.41	1.39	135	10.8	8.42
1020	1450	6.36	1.37	140	10.4	8.44
1025	1455	6.33	1.31	145	10.1	8.50
1030	1460	6.30	1.28	150	9.8	8.53
1035	1465	6.27	1.25	155	9.5	8.56
1040	1470	6.23	1.21	160	9.2	8.60
1045	1475	6.21	1.19	165	9	8.62
1050	1480	6.19	1.17	170	8.8	8.64
1055	1485	6.15	1.13	175	8.5	8.68
1102	1492	6.12	1.10	182	8.2	8.72
1110	1500	6.08	1.06	190	8.0	8.76
1120	1510	6.04	1.02	200	7.6	8.80
1130	1520	5.99	0.97	210	7.29	8.85
1140	1530	5.95	0.93	220	7.00	8.89
1150	1540	5.91	0.89	230	6.77	8.94
1200	1560	5.88	0.86	240	6.50	8.97
1210	1570	5.85	0.83	250	6.28	9.00
1220	1580	5.83	0.81	260	6.08	9.02
1230	1590	5.80	0.78	270	5.89	9.05
1240	1600	5.78	0.76	280	5.71	9.09
1250	1610	5.75	0.73	290	5.55	9.11
1300	1620	5.71	0.69	300	5.40	9.15
1315	1635	5.68	0.66	315	5.19	9.18
1330	1650	5.66	0.64	330	5.00	9.20
1345	1665	5.63	0.61	345	4.83	9.24

BECHTEL	AQUIFER RECOVERY TEST	OBSERVATION WELL BTW-2
	PROJECT FPL MARTIN 02/16	JOB NO. 19720-016

SCREENED INTERVAL (FT.) _____ TO _____ PUMPING WELL BTW-2
 MEASURING POINT _____ REFERENCE ELEV. (FT.AMSL) _____
 STATIC WATER LEVEL (FT.) _____ AVG. PUMPING RATE (GPM) _____
 PUMPING PERIOD (MIN.) _____

DATE/TIME (24 hr) DAY)	TIME AFTER PUMP ON ↑ (MIN)	DEPTH TO WATER (FT)	RESIDUAL DRAWDOWN (FT) S	TIME SINCE PUMPING STOPPED ↑ (MIN)	RATIO 1/1'	cal/ Res REMARKS 5'-5'
1400	1680	5.58	0.56	360	4.67	9.29
1415	1695	5.56	0.54	375	4.52	9.31
1430	1710	5.55	0.53	390	4.38	9.33
1500	1740	5.49	0.47	420	4.14	9.37
1530	1770	5.44	0.42	450	3.97	9.45
1600	1800	5.41	0.39	480	3.75	9.48
1630	1830	5.38	0.36	510	3.59	9.52