MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development 435.5
post-development _____

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T C	Cond	Turbidity	Initials	Comments
9/30/88	955	bail	--	71.5	--	--	--	soapy, very turbid	PSE	Bail majority of silts and clays from well. Bailer capacity = 5.5 gal.
9/30/88	1151	pump	--	71.5	--	--	--	soapy, very turbid	PSE	Turn pump on. Pump at 507'. Pump rate = 9 GPM.
9/30/88	1155	pump	36	107.5	7.40	23.5	1030	turbid	PSE	9 GPM.
9/30/88	1200	pump	18.8	126.3	7.45	24.0	1020	very cloudy	PSE	Generator running strangely. Discharge sporadic, ~ 3.75 GPM.
9/30/88	1214	pump	52.5	178.8	--	--	--	--	PSE	Shut pump off. Check generator. Fix electric fuel pump.
9/30/88	1230	pump	--	178.8	--	--	--	--	PSE	Start pump. Generator running fine. 9 GPM
9/30/88	1232	pump	18	196.8	7.50	23.8	1020	turbid	PSE	9 GPM.
9/30/88	1247	pump	135	331.8	7.45	23.5	1020	very cloudy	PSE	9 GLM.
9/30/88	1250	pump	27	358.8	--	--	--	--	PSE	Shut pump off.
9/30/88	1255	pump	--	358.8	--	--	--	clear, then slug of silt	PSE	Turn pump on. 9 GPM.
9/30/88	1304	pump	81	439.8	7.35	24.0	1030	cloudy	PSE	Recalibrate instruments. 9 GPM. Will continue cutting pump to remove silt.
9/30/88	1315	pump	99	538.8	7.40	23.9	1020	cloudy	PSE	9 GPM.

MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development 435.5'
post-development

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T C	Cond	Turbidity	Initials	Comments
9/30/88	1320	pump	45	583.8	—	—	—	slightly cloudy	PSE	Cut pump.
9/30/88	1325	pump	—	583.8	—	—	—	clear, then silt slug	PSE	Start pump. 9GPM.
9/30/88	1338	pump	117	700.8	7.45	23.7	1020	cloudy	PSE	9 GPM.
9/30/88	1356	pump	162	862.8	7.40	23.5	1020	slightly cloudy	PSE	9 GPM.
9/30/88	1400	pump	36	898.8	—	—	—	slightly cloudy	PSE	Cut pump.
9/30/88	1409	pump	—	898.8	—	—	—	clear, turbid, then cloudy	PSE	Start pump. 9 GPM.
9/30/88	1426	pump	153	1051.8	—	—	—	very cloudy	PSE	Cut pump.
9/30/88	1431	pump	—	1051.8	—	—	—	clear, then turbid	PSE	Start pump. 9 GPM.
9/30/88	1441	pump	90	1141.8	—	—	—	cloudy	PSE	Cut pump.
9/30/88	1446	pump	—	1141.8	—	—	—	clear, then turbid	PSE	Start pump. 9 GPM
9/30/88	1459	pump	117	1258.8	—	—	—	cloudy	PSE	Cut pump. Volume of silt slug is diminishing.
9/30/88	1504	pump	—	1258.8	—	—	—	clear, then turbid	PSE	Start pump. 9 GPM.
9/30/88	1523	pump	171	1429.8	—	—	—	cloudy	PSE	Cut pump.

MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development 435.5'
post-development

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T C	Cond	Turbidity	Initials	Comments
9/30/88	1528	pump	—	1429.8	—	—	—	slug present	PSE	Start pump. 9 GPM.
9/30/88	1537	pump	81	1510.8	—	—	—	cloudy	PSE	Cut pump.
9/30/88	1538	pump	—	1510.8	—	—	—	slug present	PSE	Start pump. 9 GPM
9/30/88	1547	pump	81	1591.8	—	—	—	cloudy	PSE	Cut pump.
9/30/88	1550	pump	—	1591.8	—	—	—	smaller slug present	PSE	Start pump. 9 GPM.
9/30/88	1601	pump	99	1690.8	—	—	—	cloudy	PSE	Cut pump.
9/30/88	1604	pump	—	1690.8	—	—	—	small slug present	PSE	Start pump. 9 GPM.
9/30/88	1617	pump	117	1807.8	—	—	—	cloudy	PSE	Cut pump.
9/30/88	1619	pump	—	1807.8	—	—	—	smaller slug present	PSE	Start pump. 9 GPM.
9/30/88	1637	pump	162	1969.8	7.30	24.0	1020	cloudy	PSE	Recalibrate instruments. Small sand particles in sample. Larjon has begun pouring grout. Continue pumping, 9 GPM.
9/30/88	1654	pump	153	2122.8	8.70	24.0	1020	slightly cloudy	PSE	More sand particles present. Grout is compressing completion material in well. PH increased. Discontinue pumping well until grouting is completed and grout has cured.

MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development 436.0'
post-development_____

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T C	Cond	Turbidity	Initials	Comments
10/2/88	1530	pump	--	2122.8	--	--	--	turbid	PSE	Start pump. 11 GPM. Pump at 486'. Slug of grout/water.
10/2/88	1557	pump	297	2419.8	--	--	--	cloudy	PSE	Cut pump.
10/2/88	1612	pump	--	2419.8	9.15	25.5	900	slightly cloudy	PSE	Start pump. 11 GPM. No slug of grout. Sample has white sediment, probably carbonate precipitate.
10/2/88	1625	pump	143	2562.8	8.50	25.0	1080	very slightly cloudy	PSE	11 GPM. Minute amount of sand and silt at bottom of sample jar.
10/2/88	1639	pump	154	2716.8	8.30	25.0	1090	almost clear	PSE	11 GPM. Minute amount of sand and silt at bottom of sample jar.
10/2/88	1648	pump	99	2815.8	--	--	--	almost clear	PSE	Cut pump.
10/2/88	1656	pump	--	2815.8	--	--	--	slightly cloudy then clear	PSE	Start pump. 11 GPM. No slug of grout.
10/2/88	1709	pump	143	2958.8	8.05	24.0	1090	almost clear	PSE	Recalibrate instruments. 11 GPM. Minute amount of sand and silt in sample.
10/2/88	1721	pump	132	3090.8	7.90	24.0	1090	clear	PSE	11 GPM.
10/2/88	1737	pump	176	3266.8	7.80	24.0	1090	clear	PSE	11 GPM.
10/2/88	1740	pump	33	3299.8	--	--	--	clear	PSE	Cut pump for 1 hour and almost gone, no silt in sample.

MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development 436.0'
post-development_____

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T C	Cond	Turbidity	Initials	Comments
10/2/88	1838	pump	—	3299.8	—	—	—	almost clear	PSE	Start pump. 11 GPM.
10/2/88	1841	pump	33	3332.8	8.65	23.9	1000	almost clear	PSE	11 GPM. White sediment in sample.
10/2/88	1853	pump	132	3464. 8	7.85	23.9	1020	clear	PSE	11 GPM. Minute amount of sand in sample.
10/2/88	1856	pump	33	3497.8	—	—	—	clear	PSE	Cut pump. PL-2 apparently developed except for an elevated pH caused by grout invasion. Will pump and study pH behavior in well.

MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development_____
post-development_____

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T C	Cond	Turbidity	Initials	Comments
10/6/88	1258	pump	2	2	9.10	22	720	cloudy	PSE	Start pump. Take sample immediately. 11 GPM.
10/6/88	1335	pump	407	409	7.55	24	1010	clear	PSE	11 GPM.
10/6/88	1351	pump	176	585	—	—	—	clear	PSE	Cut pump. Stop pumping because o. problems with pH meter.
10/7/88	0955	pump	—	—	—	—	—	—	JPK	Pump on. Discharge = 11 GPM.
10/7/88	0958	pump	6	6	8.25	21.1	99x10	cloudy	JPK	First slug of water.
10/7/88	0959	pump	11	17	—	—	—	cloudy	JPK	Discharge quits. Turn pump off.
10/7/88	1005	pump	—	—	—	—	—	—	JPK	Pump on. Discharge flutters at 4 min.
10/7/88	1009	pump	22	39	8.75	22.5	90x10	cloudy	JPK	
10/7/88	1013	pump	44	83	—	—	—	—	JPK	Discharge tails off and quits. Turn pump off.
10/7/88	1025	pump	—	—	—	—	—	—	JPK	Pump on.
10/7/88	1034	pump	66	149	8.15	23.1	101x10	cloudy	JPK	Discharge fluttered at 4 & 7 min.
10/7/88	1045	pump	121	270	7.45	23.1	109x10	slightly cloudy	JPK	Discharge occasionally flutters.
10/7/88	1100	pump	165	435	—	—	—	colorless	JPK	Turn discharge down to 9 GPM.
10/7/88	1120	pump	180	615	7.45	—	—	colorless	JPK	Pump off.

MONITOR WELL DEVELOPMENT

WELL: PL-2-504

Water Level
pre-development 439.46'
post-development --

REDEVELOPMENT

Date	Time	Method	Delta Volume (gallons)	Total Volume (gallons)	pH	T° C	Cond	Turbidity	Initials	Comments
06/05/89	1210	surge	--	--	--	--	--	--	RPC	Surged with surge-block 40 times each direction.
06/05/89	1416	pump	500	500	--	--	--	10	RPC	2 hp submersible pump set at 496 pump rate = 12.0 gpm, first water very turbid, milky brown in color.
06/05/89	1420	pump	30	530	--	--	--	--	RPC	Backwash 5 minutes.
06/05/89	1435	pump	120	650	--	--	--	>100	RPC	Water cleaner than 1st water but still turbid from backwash.
06/05/89	1455	pump	240	890	--	--	--	--	RPC	Pump quit.
06/05/89	1707	pump	560	1450	--	--	--	8	RPC	Backwash
06/05/89	1715	pump	100	1550	--	--	--	--	RPC	Backwash
06/05/89	1800	pump	540	2090	7.35	27	110	4.8	RPC	Pull pump