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December 19, 1980

NUCLEAR PRODUCTION DEPARTMENT

U.S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D.C. 20555

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station
Units 1 and 2
Docket Nos. 50-416 and 50-417
File 0260/8121
Plant Service Water Radial Wells
AECM-80/307

Attached are preliminary responses to NRC Questions 371.07, 340.22 and 340.23. Note that these are preliminary drafts and that some minor changes in format and/or content may be incorporated into the final version as they will appear in Amendment 5 to the Grand Gulf Nuclear Station Final Environmental Report. This amendment is currently scheduled for submittal to the NRC on January 30, 1980.

Yours truly,

L. F. Dale
Nuclear Project Manager

GOS/JGC/JDR:lm

Attachments: Draft Responses to NRC Questions

1. 371.07
2. 340.22
3. 340.23

cc: Mr. N. L. Stampley (w/o)
Mr. G. B. Taylor (w/o)
Mr. R. B. McGehee (w/o)
Mr. T. B. Conner (w/o)

Mr. Victor Stello, Jr., Director (w/a)
Division of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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371.07 The groundwater quality, as measured during testing of the Ranney wells, is apparently poorer than previously expected. Induced infiltration of Mississippi River water has seemingly not been achieved, due to high groundwater levels in the floodplain alluvium. Since groundwater levels, quality, and use differ from those parameters originally reported, we require the following additional information in order to assess the effects and impacts of the Ranney well system:

a. Provide the results of the pumping tests performed on each of the Ranney wells. Information provided should include pumping rate, drawdowns and water levels in the pumped well and observation wells, and comparisons of water quality between the water withdrawn and the Mississippi River water.

b. Provide analyses of the proportions and amounts of groundwater that will be withdrawn from the alluvial aquifer and the river under various conditions of groundwater levels and river levels. For each condition, discuss the expected differences in groundwater quality, as compared to the groundwater quality if induced infiltration were achieved.

c. Discuss the cause of the abnormal groundwater levels. Provide rainfall records, analyses of groundwater levels and movement, and other pertinent data which support your conclusions.

d. Discuss the adverse or beneficial effects of high groundwater levels on the Mississippi River, Hamilton Lake, Gin Lake, and other small nearby water bodies and streams.

e. Identify the potential impact on plant facilities of the degraded water quality.

Response

Evidence of induced infiltration was first demonstrated in the test well program conducted during 1973-1974 and described in Section 2.4.13.2.4 (Hydrogeologic Properties of Subsurface Materials) and Appendix 2.4A (Pump Test Data and Well Logs from Radial Collector Well Exploration and Testing Program) of the FSAR. The long-term pumping tests of Ranney Wells #3 and #5 also demonstrate the close hydraulic connection between the wells and the river. The hydrographs of the pumping wells and the river are parallel during the pumping tests, indicating the stabilization of ground water levels by recharge from the river. The ground water levels during the performance of the long-term testing does not materially differ from what was expected, based on the original test well program.

Because water quality changes caused by induced infiltration of river water involve actual mass transport, detection at the pumping wells will be much slower than the potentiometric changes shown by the hydrographs. Water presently in the aquifer between the wells and the river will have to be extracted before water infiltrating from the river arrives at the wells. Our calculations indicate it will take at least one year of continuous pumping before 70% of the water pumped is infiltrated river

water. However, this does not mean that water quality at the wells will reflect 70% of the water being derived from the river. Desorption of cations from the aquifer material can be expected to significantly alter the quality of the water. Therefore, it has been assumed that from a quality viewpoint only 50% of the pumped water will appear to be derived from the river.

a. A long-term pumping test was performed with two radial collector wells from August 7, 1979 to December 19, 1979 (134 days). Wells #3 and #5 (Figure 371.07-1) were pumped at the average rates of 8000 gpm and 7600 gpm, respectively. Well #1 was not included in the long-term pumping test because work was being performed in the caisson during the time of the pumping test. The Well #1 caisson was intermittently dewatered during the pumping test and this pumping had minor interference effects on observation wells RW-1A and RW-1B (Figure 371.07-1).

   Water level measurements were made periodically during the testing of Wells #3 and #5, at twenty-seven observation wells, and at staff gages in Hamilton Lake, Gin Lake, and the Mississippi River (locations shown in Figure 371.07-1). Periodic measurements of the pumping rates and the discharge water temperature from Wells #3 and #5, and the temperature of the Mississippi River were also taken. A compilation of all measurements made during the long-term pumping test is contained in Appendix 371.07-A.

   The quality of the water withdrawn during the pumping test may be compared to Mississippi River water quality using the analytical data gathered during the test. The accompanying tables (Tables 371.07.1 and 371.07.2) summarize the data as provided by Betz and Analytical Services Laboratory to Mississippi Power & Light. Note, however, that the data for both the river and wells represent short term transient conditions due to the limited duration of the tests. Comparisons of long-term water qualities can be made using the projected average radial well water quality and the long-term average river water quality as presented in the enclosed copy of Table 3.6.3 (Revised) of the Grand Gulf Environmental Report.

b. A complete description of the analysis used in responding to this question with appropriate figures will be submitted with the January Amendment to the Environmental Report. The following discussion incorporates the conclusions of the analysis.

   The change in water source after pumping commences is slow because the river water must travel from the effective recharge boundary to the well. The ultimate proportions of river water and ground water entering the wells under steady state conditions were determined by first constructing a potentiometric surface that would result from pumping all six Ranney Wells at 8000 gpm. Utilizing this predicted potentiometric surface, a flow net was constructed to determine the flow pattern to the wells. The basis for constructing the potentiometric surface was the response of the long-term pumping test of Ranney Well #3. The interference between the wells was determined by superimposing the drawdown conditions of all six wells. The amount of interference was subtracted from potentiometric

maps of high and low river stage conditions to generate maps of the potentiometric surface during pumping for both conditions. Lines of flow were drawn perpendicular to the potentiometric contours to produce flow tubes. The number of flow tubes originating from the river indicates that 77% of the discharge is derived from the river during low flow conditions and corresponding low groundwater conditions. Approximately 79% of the discharge is derived from the river during high water level conditions. However, these percentages are calculated for steady state conditions.

The time to reach steady state conditions was evaluated by calculating the length of time required for a water particle to travel along its flow path from the effective recharge boundary to the well. The evaluation indicates that it will take as long as one year for some water particles to arrive at the well. Thus, the minimum time for from 77% to 79% of the pumped water to be derived from the river is approximately one year. However, the quality of the water being pumped after one year will not reflect this ratio of river water and aquifer water because of the effects of absorption.

As river water of different quality enters the aquifer, ions absorbed onto the aquifer material will desorb into the infiltrating river water, increasing the dissolved solids content. Thus, the river water reaching the wells will be lesser quality. It is assumed that the available ion exchange capacity is large enough that the ultimate water quality of water pumped will be as if only 50% is derived from the river.

Projections based on statistical regression of test water quality data using a simple mixing model indicate approximately a 50:50 to a 75:25 volumetric mix. Due to the uncertainities inherent in currently employed hydrological methods for obtaining field data and the associated modeling procedures, no attempt has been made to predict short term radial well water quality as a function of changes in river water elevation or quality. Furthermore, due to the range of flow paths and time delays in river water traveling to the wells, along with the natural variations in river water quality, the relative mix of groundwater and river water exiting from the wells is not altogether straightforward. However, from an engineering standpoint, a simple, conservative, mixing assumption is adequate for systems evaluations. Given the above uncertainties and also since achieving a steady-state in terms of long-term water quality may require a year or more of plant operation, a new design water quality has been selected conservatively based on the 50:50 volumetric mix.

c. Abnormal groundwater levels do not exist at the site. Groundwater level contours constructed from prepumping static levels are shown in Figure 371.07-1. Groundwater level contours constructed from levels measured during the pumping test are shown in Figure 371.07-2. These figures show normal ground water levels expected in a flood plain environment.

The groundwater level in observation well MW-4 (location shown on FSAR Figure 2.4-35a) rose to greater than El. 112.0 in September, 1978 and El. 120.0 in January, 1979. These anomalously high water levels were caused by recharge to the sand backfill of ponded surface water at the observation well. A more complete description of the cause of the anomalously high levels and a description of the remedial action are given in the FSAR (Amendment 38) on page 2.5-64a. The hydrograph of observation well MW-4, showing the high groundwater levels and the return to normal levels after correction of the drainage condition, is shown in FSAR Figure 2.4-36a and Figure 2.4-36b.

d. See revised subsection 2.4.5.4 enclosed.

A survey of water users within 2 miles of the site revealed that most use rainwater stored in cisterns, rather than wells (Figure 2.4-10 and Table 2.4.12). Twenty-nine wells were surveyed. Of these, four lie within the site boundary and will be abandoned prior to completion of the Grand Gulf Nuclear Station. Of the remaining 25 wells, 12 are developed in the Catahoula Formation, 11 in the Pleistocene terrace deposits, and 2 in the Mississippi River alluvium.

The estimated total ground water withdrawal within a 2-mile radius of the site is about 500 gpd. Future ground water demands are expected to parallel population growth. From Table 2.1.1, the population within 2 miles of the plant is expected to increase by 36 persons in the next 50 years. It is conservatively assumed that the additional residents will all use well water and that per capita use will remain constant. The estimated total ground water use by the year 2020 is about 7500 gpd. Because of this gradual increase, no change of ground water flow direction due to offsite use is foreseen.

2.4.5.4 Ground Water Levels and Movements

There are three levels of ground water in the site area: (1) the regional water table in the Mississippi River alluvium and adjacent terrace deposits, (2) perched water tables in the terrace deposits, and (3) the potentiometric level of the confined aquifer within the Catahoula Formation. Ground water levels measured in selected piezometers (Table 2.4.13) and observation wells (Table 2.4.14) are presented as hydrographs in Figure 2.4-11 (5 sheets). Hydrographs of water levels of the Mississippi River in the vicinity of the site and in Gin and Hamilton Lakes, based on field observations from 1972 to 1976, are shown on Figure 2.4-12. In the site area, the ground water table slopes gently westward, with local gradients dipping toward the major tributary valleys. The gradient steepens toward Hamilton and Gin Lakes. West of the lakes, the ground water table slopes toward the river at a gradient that varies with the prevailing river stage (Figure 2.4-9). The regional ground water table within the site property ranges from about 60 to 80 feet msl during normal river elevations. The normal ground water gradient in the floodplain and the bluffs is temporarily reversed during flood stages of the Mississippi River. Figure 2.4-13 shows the configuration of the ground water table at the site during the spring flood of 1973. These ground water contours represent the highest ground water levels recorded at the site during the period January 1972 to May 1976. The water level contours shown in Figures 2.4-9 and 2.4-13 indicate that the interaction of ground water and surface water in the site area is such that the ground water discharges into the Mississippi River during normal conditions and receives recharge

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from the river during flood conditions. The water levels in Hamilton and Gin Lakes rise only when the lakes are recharged by the river during high flow periods (Figure 2.4-12). The water level fluctuations in observation wells and Hamilton and Gin Lakes (Figures 2.4-11 and 2.4-12) indicate that the lakes are not in direct hydraulic communication with the ground water.

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Insert revision See next page

Perched water zones occur in the areas indicated on Figure 2.4-9. The perched water levels range from 90 to 130 feet msl in the site area. The highest perched water level (130 feet msl) was recorded at observation well OW-201, located near the eastern site property line. Observation wells OW-6, OW-6A, OW-6B, OW-6C, OW-115A, OW-115B, OW-116, and OW-118 were constructed in the perched water zone in the vicinity of the power blocks for Units 1 and 2. The highest perched water level recorded in these wells was 112 feet msl at OW-6A (Figure 2.4-11, Sheets 4 and 5).

The water levels in observation wells and piezometers constructed within the Catahoula Formation range from about 55 to 80 feet msl during normal river elevations. The highest water level recorded in observation wells or piezometers in the Catahoula was 113 feet at P-117A; however, the hydrograph of P-117A (Figure 2.4-11, Sheet 5) indicates that the piezometer is not functioning properly. Therefore, the 113-foot water level does not represent actual ground water conditions. In the immediate station vicinity, the regional water table intersects the Catahoula Formation (Figure 2.4-14). In this area the Catahoula surface forms a ridge-like feature which rises above the regional water table to about 90 feet msl.

2.4.5.5 Ground Water Quality

Several samples of ground water and surface water were taken for chemical analyses to evaluate the quality of water in the site area. Ground water samples were taken from piezometers and observation wells at the site and from private wells completed in each of the local aquifers within the limits of the water-well survey. Surface water samples were obtained from the Mississippi River and Bayou Pierre. Locations where water samples were taken are shown on Figure 2.4-10, and results of chemical analyses are presented in Table 2.4.15.

Chemical analyses of samples taken from the Mississippi River alluvial aquifer indicate the water is a sodium-calcium bicarbonate type, high in total dissolved solids (358 to 604 ppm). Samples of ground water from the terrace deposits are a calcium-magnesium bicarbonate type with a total dissolved solids contents of 277 to 442 ppm. The total dissolved solids concentration of a water sample from the Catahoula Formation is 460 ppm. The surface water samples are low in dissolved solids and less mineralized than ground water sampled in the site locality.

INSERT TO FER SUBSECTION 2.4.5.4, p. 2.4-10.

The groundwater levels recorded in observation wells F-4 and F-6 and the water level in Hamilton Lake during the long-term pumping test of collector wells #3 and #5 are shown on the hydrograph in Figure 2.4-15. Hamilton Lake is located between observation wells F-4 and F-6 (Figure 371.07-1). The hydrograph indicates that the drawdown cone created during the test lowered ground water levels beneath Hamilton Lake. This phenomenon further indicates that Hamilton Lake is not in direct hydraulic communication with the ground water.

e. Two major potential impacts on plant operating facilities have been identified based on the change in radial well water quality as ascertained from data obtained during the pumping tests: (1) scaling and deposition in the cooling tower circulating water system, and (2) resin fouling plus slightly decreased capacity in the makeup demineralizer system. Each of these potential impacts is discussed briefly below.

The radial well is now projected to be significantly higher in hardness, alkalinity, and iron so as to be inherently scaling and iron depositing. Addition of appropriate scale inhibitors/dispersants will, therefore, be required for reliable operation of the circulating water system. Once such treatment is implemented, cycling of the chemical concentrations in the cooling tower loop due to evaporation can probably be increased. Therefore, assessment of the potential impacts due to blowdown from the cooling tower(s) are being revised to include operation at 5 cycles of concentration. Increased cycles of concentration may, in turn, reduce sulfuric acid addition requirements sufficiently such that operating costs are not greatly different than for operation at lower cycles of concentration with acid addition alone. In summary, calcium carbonate scaling and iron deposition control through appropriate chemical addition will limit the potentially serious impact of the lower quality radial well water on the circulating water system.

The higher total solids and iron levels, which are now being projected in the radial well water, present a potential impact on the plant's makeup demineralizer system. The former would reduce system capacity by increasing ionic loadings given the present design while the latter would cause fouling/degradation of cation exchange resins through oxidation and precipitation of soluble iron within the exchange media. Pretreatment of the well water is being investigated as a solution to both problems. In the short term, iron removal by oxidation and filtration (e.g., with greensand filters) should suffice, while in the long run, pretreatment to reduce hardness, alkalinity, and iron (e.g., by lime softening) may be preferred. The latter will most probably reduce both operating costs and problems as compared to the former while potentially increasing the capacity of the makeup demineralizer system. In summary, standard pretreatment of the radial well water will render it suitable as feed for the makeup demineralizer system in both the short and long term.

TABLE 371.07.1

INITIAL RADIAL WELL PUMPOUT AND RIVER WATER QUALITY

(mg/l except as noted)

	8/6/80			8/7/80		
	River	Well 3	Well 5	River	Well 3	River 5
Alkalinity M.O. ($CaCO_3$)	120	408	441	94	420	414
Alkalinity P ($CaCO_3$)	0	0	0	0	0	0
Aluminum (Al)	9.6	0.28	0.17	11	0.14	0.17
Ammonia (N)	0.38	0.65	0.67	0.36	0.79	0.65
Calcium (Ca)	41	138	147	43	145	148
Carbon Organic (C)	<1	<1	<1	4	5	8
COD (O_2)	<50	<50	<50	<50	<50	<50
Chloride (Cl)	26	15	14	19	15	14
Chromium Total (Cr)	-	-	-	-	-	-
Color (APHA)	20	12	12	24	14	18
Copper (Cu)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoride (F)	-	-	-	-	-	-
Hardness ($CaCO_3$)	158	488	506	164	512	511
Iron Total (Fe)	9.4	22.8	18.4	11.2	18.8	18.0
Magnesium (Mg)	13	35	34	14	36	34
Nitrate (N)	5.9	2.5	<1.0	5.9	<1.0	<1.0
Nitrite (N)	<1.0	<1.0	1.6	<1.0	<1.0	1.8
Nitrogen, Kjeldahl (N)	0.44	0.15	0.14	0.49	0.13	0.31
pH	7.2	6.9	7.1	7.1	7.1	7.0
Potassium (K)	4.4	3.8	3.4	4.9	3.3	3.3
Silica Soluble (SiO_2)	33	26	25	45	26	24
Sodium (Na)	17.9	20.2	16.8	18.3	21.0	16.8
Solids Dissolved	290	508	522	228	530	530
Solids Suspended	-	-	-	-	-	-
Sp. Cond. 25°C µmhos/cm	375	810	853	366	848	850
Sulfate (SO_4)	57	<10	<10	57	<10	<10
Sulfide (S)	0.1	0.21	<0.1	0.42	<0.1	<0.1
Turbidity (FTU)	82	92	115	110	115	110
Zinc (Zn)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulfite (SO_3)	Included In Sulfate					
Aromatic Acids	-	-	-	-	-	-
Carbon Dioxide (CO_2)	-	-	-	-	-	-

NOTE: Analyses by Betz

TABLE 371.07.2

RADIAL WELL PUMPOUT AND RIVER WAT

(mg/l ex

	11/13			11/15			11/27			11/29			12/4		
	River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5
Alkalinity M.O. ($CaCO_3$)	-	205	265	-	270	240	-	250	220	-	248	208	-	248	200
Alkalinity P ($CaCO_3$)	-	0	0	-	0	0	-	0	0	-	0	0	-	0	0
Aluminum (Al)	-	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Ammonia (N)	-	0.7	0.7	-	0.6	0.2	-	0.7	0.6	-	0.8	1.0	-	1.3	1.2
Calcium (Ca)	-	72	74	-	73	68	-	80	76	-	76	68	-	72	66
Carbon Organic(C)	-	5	8	-	5	5	-	6	6	-	8	6	-	8	3
COD (O_2)	-	8	8	-	12	12	-	4	8	-	4	4	-	8	<4
Chloride (Cl)	-	17	18	-	17	16	-	21	23	-	21	24	-	18	18
Chromium Total (Cr)	-	<0.03	<0.03	-	<0.03	<0.03	-	<0.03	<0.03	-	<0.03	<0.03	-	<0.03	<0.03
Color (APHA)	-	65	90	-	85	75	-	97	60	-	85	50	-	64	45
Copper (Ca)	-	0.04	0.05	-	<0.02	<0.02	-	<0.02	<0.02	-	<0.02	<0.02	-	<0.02	<0.02
Fluoride (F)	-	0.2	0.2	-	0.17	0.16	-	0.18	0.17	-	0.19	0.18	-	0.16	0.15
Hardness ($CaCO_3$)	-	244	284	-	284	276	-	275	255	-	280	244	-	260	248
Iron Total (Fe)	-	7.5	12	-	14	8.4	-	15	8.5	-	13	8.3	-	14	5.0
Magnesium (Mg)	-	16	24	-	24	25	-	18	16	-	22	18	-	19	20
Nitrate (N)	-	<0.1	0.3	-	0.3	0.2	-	1.3	2.3	-	0.4	0.4	-	0.7	1.3
Nitrite (N)	-	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	-	<0.01	<0.01
Nitrogen, Kjeldahl (N)	-	0.7	0.7	-	0.9	1.2	-	1.2	1.0	-	0.9	1.0	-	1.6	1.2
pH	-	7.1	7.0	-	7.0	7.0	-	7.2	7.2	-	7.3	7.3	-	7.1	7.3
Potassium (K)	-	2.4	2.8	-	2.7	2.3	-	2.8	2.4	-	3.0	2.4	-	3.8	2.7
Silica Soluble (SiO_2)	-	20	22	-	20	20	-	22	18	-	22	20	-	20	17
Sodium (Na)	-	14	19	-	20	15	-	22	20	-	20	20	-	21	18
Solids Dissolved	-	310	364	-	362	334	-	328	310	-	328	348	-	386	324
Solids Suspended	-	10	30	-	26	20	-	28	16	-	24	14	-	44	32
Sp. Cond., 25°C µmhos/cm	-	500	600	-	600	550	-	590	530	-	510	520	-	570	510
Sulfate (SO_4)	-	29	26	-	27	29	-	24	30	-	25	32	-	37	37
Sulfide (S)	-	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1	-	<0.1	<0.1
Turbidity (NTU)	-	57	87	-	86	60	-	110	63	-	111	64	-	90	61
Zinc (Zn)	-	<0.02	0.13	-	0.1	<0.02	-	0.04	0.03	-	0.03	0.03	-	0.18	0.22
Sulfite (SO_3)	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	-	<0.5	<0.5
Aromatic Acids	-	1.3	1.6	-	1.0	1.6	-	0.6	0.8	-	1.5	0.8	-	0.5	2.3
Carbon Dioxide (CO_2)	-	33	52	-	54	48	-	31	27	-	26	21	-	39	20

NOTE: Analyses by Analytical Services Laboratory

:R QUALITY IN NOVEMBER AND DECEMBER 1980

TABLE 371.07.2

:ept as noted)

12/6			No Date			12/12			12/14			12/17			Average			
River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5	River	Well 3	Well 5	Well 355
-	230	180	84	230	200	81	224	196	88	228	208	95	180	215	87	231	213	222
-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-	<0.1	<0.1	1.7	<0.1	<0.1	1.7	<0.1	<0.1	8.2	<0.1	<0.1	2.6	<0.1	<0.1	3.6	<0.1	<0.1	<0.1
-	0.9	0.7	0.4	1.0	0.3	0.7	0.8	1	0.3	0.8	0.7	0.2	0.8	0.8	0.4	0.8	0.7	0.8
-	74	62	26	66	53	27	66	58	30	67	66	35	54	67	30	70	66	68
-	7	5	8	7	7	6	10	2	6	10	6	2	2	2	6	7	5	6
-	<4	<4	14	6	10	4	4	<4	8	12	8	4	<4	<4	8	<7	<7	<7
-	21	22	21	20	20	21	20	18	21	19	19	20	19	18	21	19.3	19.6	19.5
-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
-	50	35	-	-	-	15	74	50	30	75	60	15	75	60	20	67	52	60
-	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
-	0.21	0.18	0.14	0.19	0.18	0.13	0.28	0.16	0.14	0.19	0.16	0.16	0.22	0.19	0.14	0.2	0.17	0.19
-	260	228	124	256	224	124	256	240	130	260	260	140	210	240	130	258	250	254
-	14	7.7	2.7	9.9	6.3	2.5	11	7.0	3.2	11	6.5	3.5	13	7.5	3.0	12.2	7.7	10.0
-	18	18	15	22	19	14	22	23	13	22	23	13	18	19	14	20.1	20.5	20
-	0.3	<0.1	1.0	0.4	<0.1	1.4	0.2	0.2	1.6	<0.1	1.2	0.9	0.1	0.4	1.2	0.4	0.6	0.5
-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01
-	1.2	0.7	0.9	1.0	0.9	1.2	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.8	0.9	1.0	0.9	1.0
-	7.1	7.2	7.6	7.1	7.2	7.2	7.2	7.2	7.6	7.3	7.3	7.5	7.1	7.1	7.4	7.1	7.2	7.2
-	3.0	2.6	3.6	2.5	2.2	3.3	2.6	2.5	4.1	4.2	3.7	3.8	2.5	2.4	3.7	3.0	2.6	2.8
-	21	19	10	23	18	11	22	21	16	21	20	21	20	21	14	20.6	19.6	20
-	18	20	16	21	19	17	22	18	18	22	19	19	20	19	18	20	19	19
-	356	280	182	358	274	204	330	328	238	356	326	226	308	330	212	342	322	332
-	28	16	70	26	22	22	18	16	112	42	22	92	30	24	74	28	21	24
-	550	510	330	560	530	360	590	540	340	570	570	360	480	530	348	552	539	546
-	37	38	35	36	38	36	36	36	38	36	38	46	40	36	39	33	30	31
-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
-	87	55	58	87	62	-	83	54	51	90	62	56	82	66	55	88	63	76
-	<0.02	0.16	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.1	0.05	<0.02	0.36	0.05	0.4	<0.13	<0.05	0.07	<0.06
-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
-	<0.1	0.3	2.5	2.3	1.1	5.8	2.8	0.4	5.1	1.7	1.0	8	0.5	1.0	5.4	1.2	1.1	1.2
-	37	24	1.2	35	25	9	27	25	4	23	25	6	29	34	5	33	30	32

TABLE 3.6.3

INTAKE, CIRCULATING, BLOWDOWN, MISSISSIPPI RIVER AND DISCHARGE LIMIT WATER QUALITIES (a)

(mg/l or other units as noted)

Parameter	Intake (Radial Well System) Water	Circulating Water & Blowdown (b) 2 Cycles	3 Cycles	5 Cycles	Mississippi River (d)	Federal Discharge Limit (e)
Dissolved Solids	376	752	1128	1880	230	-
Hardness ($CaCO_3$)	332	664	996	1660	40	-
Calcium	93	186	279	465	39	-
Magnesium	24	48	72	120	10	-
Sodium	18.4	36.8	55.2	92.0	20	-
Potassium	4.1	8.2	12.3	20.5	2.8	-
Sulfate (c)	33.5	385	653	1410	50	-
Chloride	19	38	57	95	23	-
Nitrate	3.6	7.2	10.8	18.0	2.8	-
Silica	17	34	51	85	8.7	-
Nitrogen (total)	5.5	11.0	16.5	27.5	2.0	-
Ammonia - Nitrogen	0.53	1.1	1.6	2.7	0.13	-
Aluminum	< 0.11	< 0.22	< 0.33	< 0.55	< 0.024	-
Copper	< 0.05	< 0.1	< 0.15	< 0.25	0.012	-
Iron (total)	10	20	30	50	0.039	-
Zinc	< 0.1	< 0.2	< 0.3	< 0.5	0.046	-
Chlorine Demand	3.9	7.8	11.7	19.5	2.4	-
Chlorine (free available)	N/A (k)	(f)	(f)	(f)	-	0.5 max., 0.2 avg.

TABLE 3.6.3

INTAKE, CIRCULATING, BLOWDOWN, MISSISSIPPI RIVER AND DISCHARGE LIMIT WATER QUALITIES (a)

(mg/l or other units as noted)

Parameter	Intake (Radial Well System) Water	Circulating Water & Blowdown (b) 2 Cycles	3 Cycles	5 Cycles	Mississippi River (d)	Federal Discharge Limit (e)
Dissolved Oxygen	N/A (k)	(g)	(g)	(g)	8.6	-
Carbon Dioxide	N/A (k)	(h)	(h)	(h)	4.0	-
pH (i)	7.2	8.0-8.5	8.0-8.5	8.0-8.5	7.5	6.0-9.0
Suspended Solids (j)	19.1	38.3	57.6	95.5	150	-
Conductivity	576	1152	1728	2880	370	-

(a) Values in this table represent site specific groundwater quality with the exception of the data presented for the Mississippi River (see footnote d).
(b) Blowdown refers to cooling tower blowdown not plant effluent. Plant service water may be mixed with blowdown prior to discharge.
(c) Sulfate concentrations include sulfate from sulfuric acid addition.
(d) U.S. Army Corps of Engineers Water Quality Data for St. Francisville, Louisiana (1954-1968) and Delta Point, Louisiana (1959-1968) plus river site monitoring data (November 1972 - November 1973) for dissolved oxygen suspended solids, and pH.
(e) Federal discharge limitations are taken from U.S. EPA Standards of Performance for New Sources (40 CFR 423.15).
(f) Chlorination is controlled to effect a maximum of less than 0.5 mg/l and an average of less than 0.2 mg/l free available chlorine in the blowdown. Neither free available chlorine nor total residual chlorine is discharged from any unit for more than two hours in any one day and not more than one unit will discharge free available or total residual chlorine at any one time.
(g) Absorption in the cooling towers is expected to lead to concentrations consistently greater than 5.0 mg/l.
(h) Carbon dioxide could vary from around 0.5 to tens of mg/l; several mg/l (of the order of the river) are usually to be expected.
(i) pH will be adjusted during circulating water system operation.
(j) Although suspended solids in the well water, as produced, are expected to be less than 1.0 mg/l, iron precipitation leads to significant suspended solids levels in the circulating water assuming ferric hydroxide formation.
(k) N/A - Not Available

APPENDIX 371.07-A

2.4C-49

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
P-1	78.90	21.03	552430N 273590E	080779	0850

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	22.21	56.69	1.18
080279	0000	-7230.	22.21	56.69	1.18
080379	0000	-5790.	22.11	56.79	1.08
080479	0000	-4350.	21.92	56.98	.89
080579	0000	-2910.	21.80	57.10	.77
080679	1025	-1325.	21.43	57.47	.40
080779	0818	-12.	21.03	57.87	.00
080779	0852	22.	21.03	57.87	.00
080779	0959	89.	21.02	57.88	-.01
080779	1057	147.	21.00	57.90	-.03
080779	1227	237.	20.97	57.93	-.06
080779	1330	300.	20.95	57.95	-.08
080779	1427	357.	20.90	58.00	-.13
080779	1526	416.	20.87	58.03	-.16
080779	1715	525.	20.84	58.06	-.19
080779	1842	612.	20.83	58.07	-.20
080779	2217	837.	20.82	58.08	-.21
080879	0100	990.	20.78	58.12	-.25
080879	0805	1215.	20.79	58.11	-.24
080879	0815	1925.	20.78	58.12	-.25
080879	1325	1735.	20.75	58.15	-.28
080879	2210	2260.	20.80	58.10	-.23
080979	0300	3650.	20.84	58.06	-.19
080979	0815	2865.	20.91	57.99	-.12
080979	1815	3865.	20.82	58.08	-.21
081079	0030	3840.	20.92	57.98	-.11
081079	0730	4260.	20.94	57.96	-.09
081079	1255	4585.	20.98	57.92	-.05
081079	1910	4960.	20.99	57.91	-.04
081179	0015	5265.	21.04	57.86	.01
081179	0615	5625.	21.22	57.68	.19
081179	1415	6105.	21.15	57.75	.12
081179	1910	6600.	21.21	57.69	.18
081279	0030	6720.	21.32	57.58	.29
081279	0630	7080.	21.45	57.45	.42
081279	1245	7455.	21.61	57.29	.58
081279	1910	7880.	21.58	57.32	.55
081279	2400	8130.	21.67	57.23	.64
081379	0630	8520.	21.85	57.05	.82
081379	1400	8970.	21.93	56.97	.90
081379	2100	9390.	22.09	56.81	1.06
081379	2400	9570.	22.11	56.79	1.08
081479	0630	9960.	22.08	56.82	1.05
081479	1830	10680.	22.21	56.69	1.18
081579	0700	11870.	22.06	56.84	1.03
081579	1810	12100.	22.55	56.35	1.52
081679	0730	12900.	22.80	56.10	1.77
081679	1825	13555.	22.90	56.00	1.87
081779	0645	14295.	23.18	55.72	2.15
081779	1825	14995.	23.30	55.60	2.27

2.4C-50

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
P-1	78.99	21.03	5529SUN ' 2735SUE	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081879	0700	15750.	23.54	55.36	2.51
081879	1830	16440.	23.65	55.25	2.62
081979	0915	17325.	23.96	54.94	2.93
081979	1850	17900.	24.08	54.82	3.05
082079	0700	18630.	24.33	54.57	3.30
082079	1845	19335.	24.46	54.44	3.43
082179	0700	20070.	24.58	54.22	3.65
082179	1910	20800.	24.86	54.04	3.83
082279	1745	22155.	24.98	53.92	3.95
082379	1750	23600.	25.11	53.79	4.08
082879	1755	25085.	25.39	53.51	4.36
082579	1805	26495.	25.68	53.22	4.65
082679	1750	27920.	26.11	52.79	5.08
082779	1800	29370.	26.49	52.41	5.46
082879	1800	30810.	26.87	52.03	5.84
082979	1800	32250.	27.21	51.69	6.18
083079	1750	33680.	27.48	51.42	6.45
083179	1535	34985.	27.57	51.33	6.54
090179	0925	36055.	27.54	51.36	6.51
090279	0920	37490.	27.46	51.44	6.43
090379	0940	38950.	27.25	51.65	6.22
090479	1515	40725.	26.92	51.98	5.89
090579	1840	42130.	26.79	52.11	5.76
090779	1640	45130.	26.18	52.72	5.15
090979	0815	47505.	25.89	52.91	4.96
091179	0930	50460.	25.79	53.11	4.76
091379	0755	53245.	25.62	53.28	4.59
091579	1220	56390.	26.28	52.62	5.25
091779	1515	59445.	26.59	52.31	5.56
091979	1055	62065.	27.20	51.70	6.17
092179	0810	64780.	27.76	51.14	6.73
092579	0935	70625.	27.80	51.10	6.77
092779	1050	73580.	27.22	51.68	6.19
092979	1540	76750.	26.70	52.20	5.67
100179	1455	79585.	26.39	52.51	5.36
100379	1110	82240.	26.04	52.86	5.01
100579	1345	85275.	25.25	53.65	4.22
100779	1515	88245.	24.98	53.92	3.95
100979	1045	90855.	25.11	53.79	4.08
101179	1335	93905.	25.37	53.53	4.34
101579	1910	100000.	26.18	52.72	5.15
101879	1530	104100.	26.50	52.40	5.47
102079	1605	107015.	27.06	51.84	6.03
102279	1540	109870.	27.78	51.12	6.75
102479	1400	112690.	28.40	50.50	7.37
102679	0855	115225.	28.82	50.08	7.79
102879	1045	118575.	29.26	49.64	8.23
103079	1255	121225.	29.41	49.49	8.38
110279	1050	125420.	29.58	49.32	8.55
110479	0920	128210.	30.12	48.78	9.09

2.4C-57

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
Fm1	78.90	21.03	55293UN 27559UE	080779	0850

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110679	1055	131185.	30.90	48.00	9.87
110679	0910	133960.	31.48	47.42	10.45
111379	1255	181385.	32.53	46.37	11.50
111679	0915	145485.	32.38	46.52	11.35
112679	1730	160380.	31.29	47.61	10.26
112979	1105	164315.	30.65	48.25	9.62
121079	1600	180850.	23.63	55.27	2.60
121379	1520	184730.	22.60	56.30	1.57

2.4C-52

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
P-2	68.61	10.37	551546N 2737646E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	11.87	56.74	1.50
080279	0000	-7230.	11.88	56.73	1.51
080379	0000	-5790.	11.64	56.97	1.27
080479	0000	-4350.	11.32	57.29	.95
080579	1130	-2700.	11.36	57.25	.99
080679	1130	-1260.	10.80	57.81	.43
080779	0822	-8.	10.37	58.24	.00
080779	1030	120.	10.33	58.28	-.04
080779	1230	240.	10.30	58.31	-.07
080779	1430	360.	10.26	58.35	-.11
080779	1630	480.	10.22	58.39	-.15
080779	1829	599.	10.21	58.40	-.16
080879	1910	2080.	10.09	58.52	-.28
080879	2100	2190.	10.12	58.49	-.25
080879	2300	2310.	10.13	58.48	-.24
080979	0100	2430.	10.12	58.49	-.25
080979	0300	2550.	10.11	58.50	-.26
080979	0500	2670.	10.11	58.50	-.26
080979	0700	2790.	10.13	58.48	-.24
080979	0900	2910.	10.15	58.46	-.22
080979	1100	3030.	10.15	58.46	-.22
080979	1300	3150.	10.15	58.46	-.22
080979	1500	3270.	10.14	58.47	-.23
080979	1700	3390.	10.14	58.47	-.23
080979	1900	3510.	10.16	58.45	-.21
080979	2100	3630.	10.18	58.43	-.19
080979	2300	3750.	10.22	58.39	-.15
081079	0100	3870.	10.23	58.38	-.14
081079	0300	3990.	10.23	58.38	-.14
081079	0500	4110.	10.26	58.35	-.11
081079	0715	4245.	10.28	58.33	-.09
081079	0900	4350.	10.29	58.32	-.08
081079	1100	4470.	10.29	58.32	-.08
081079	1300	4590.	10.29	58.32	-.08
081079	1500	4710.	10.28	58.33	-.09
081079	1700	4830.	10.29	58.32	-.08
081079	1900	4950.	10.29	58.32	-.08
081079	2100	5070.	10.35	58.26	-.02
081079	2300	5190.	10.37	58.24	.00
081179	0100	5310.	10.39	58.22	.02
081179	0300	5430.	10.39	58.22	.02
081179	0500	5550.	10.40	58.21	.03
081179	0709	5670.	10.43	58.18	.06
081179	0900	5790.	10.48	58.13	.11
081179	1100	5910.	10.50	58.11	.13
081179	1200	5970.	10.52	58.09	.15
081179	1400	6090.	10.54	58.07	.17
081179	1600	6210.	10.57	58.04	.20
081179	1800	6330.	10.60	58.01	.23
081179	2000	6450.	10.65	57.96	.28

2.4C-53

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-2	68.61	10.47	551590N , 273760E	080779	0930

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081179	2900	6690.	10.75	57.86	.38
081279	0900	6930.	10.80	57.81	.43
081279	0800	7170.	10.89	57.72	.52
081279	1200	7410.	10.98	57.63	.61
081279	1600	7650.	11.04	57.57	.67
081279	2000	7890.	11.12	57.49	.75
081279	2400	8130.	11.22	57.39	.85
081379	0600	8490.	11.38	57.23	1.01
081379	1200	8850.	11.51	57.10	1.14
081379	1800	9210.	11.62	56.99	1.25
081379	2400	9570.	11.75	56.86	1.38
081479	0600	9930.	11.89	56.72	1.52
081479	1800	10650.	12.05	56.56	1.68
081579	0600	11370.	12.28	56.33	1.91
081579	1810	11860.	12.36	56.25	1.99
081679	0600	12810.	12.62	55.99	2.25
081679	1800	13530.	12.75	55.86	2.38
081779	0600	14250.	12.92	55.69	2.55
081779	1800	14970.	13.08	55.57	2.67
081879	0600	15690.	13.25	55.36	2.88
081979	1515	17685.	13.65	54.96	3.28
082079	0600	18570.	13.90	54.71	3.53
082079	1900	19350.	14.04	54.57	3.67
082179	0600	20010.	14.20	54.41	3.83
082179	1500	20550.	14.26	54.35	3.89
082279	0600	21450.	14.45	54.16	4.08
082279	1800	22170.	14.62	53.99	4.25
082379	0600	22890.	14.69	53.92	4.32
082379	1800	23610.	14.77	53.84	4.40
082479	0600	24330.	14.95	53.66	4.58
082479	1740	25030.	15.03	53.58	4.66
082579	0600	25770.	15.23	53.38	4.86
082579	1800	26490.	15.36	53.25	4.99
082679	0200	26970.	15.45	53.16	5.08
082679	1730	27900.	15.55	53.06	5.18
082879	0900	30270.	16.10	52.51	5.73
082979	0600	31530.	16.34	52.27	5.97
083079	1900	33790.	16.83	51.78	6.46
083179	1750	35120.	16.99	51.62	6.62
090279	1045	37575.	17.08	51.53	6.71
090379	0935	38905.	17.08	51.53	6.71
090479	1310	40600.	16.83	51.78	6.46
090579	1115	41925.	16.83	51.78	6.46
090779	1625	45115.	16.56	52.05	6.19
090979	0805	47895.	16.31	52.30	5.94
091179	0940	50870.	16.13	52.48	5.76
091379	0740	53230.	16.10	52.51	5.73
091579	1230	56400.	16.47	52.14	6.10
091779	1535	59865.	16.73	51.88	6.36
091979	1050	62060.	17.18	51.43	6.81

2.4C-54

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-2	68.61	10.37	5515904 ' 2737694E	080779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
092179	0810	69780.	17.35	51.26	6.98
092579	0930	70620.	17.51	51.10	7.14
092779	1100	73590.	17.06	51.55	6.69
092979	1350	76640.	16.75	51.86	6.38
100179	1510	79600.	16.38	52.23	6.01
100379	1325	82375.	15.87	52.74	5.50
100579	1755	85525.	15.31	53.30	4.94
100779	1525	88255.	15.46	53.15	5.09
100979	1105	90875.	15.60	53.01	5.23
101179	1345	93915.	15.81	52.80	5.44
101679	1930	101460.	16.58	52.03	6.21
101879	1540	104110.	16.82	51.79	6.45
102079	1615	107025.	17.20	51.41	6.83
102279	1550	109880.	17.78	50.83	7.41
102679	1810	112900.	18.40	50.21	8.03
102679	1330	115500.	18.55	50.06	8.18
102879	1655	118585.	18.95	49.66	8.58
103079	1305	121235.	19.19	49.42	8.82
110279	1100	125030.	19.60	49.01	9.23
110479	0930	128220.	19.94	48.67	9.57
110679	1105	131195.	20.42	48.19	10.05
110879	0920	133970.	20.82	47.79	10.45
111379	1310	141000.	21.98	46.67	11.57
111679	0925	145495.	22.12	46.49	11.75
112679	710	160360.	21.85	47.16	11.08
112979	1115	164325.	21.13	47.48	10.76
121479	1130	185940.	11.96	56.65	1.59

2.4C-55

WELL NO.	ELEV OF MEAS PT.(FT MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
E-3	70.97	12.87	550498N [illegible]2615E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	10.67	56.30	2.20
080279	0000	-7230.	10.65	56.32	2.18
080379	1320	-5870.	10.17	56.80	1.70
080479	0000	-4350.	13.67	57.30	1.20
080579	1100	-2730.	13.55	57.42	1.08
080679	1030	-1320.	12.91	58.06	.44
080779	0800	10.	12.87	58.50	.00
080779	1100	150.	12.50	58.47	.03
080779	1300	270.	12.68	58.29	.21
080779	1500	390.	12.83	58.14	.36
080779	1800	630.	12.96	58.02	.48
080879	0915	1485.	13.36	57.61	.89
080879	1955	2125.	13.65	57.32	1.18
080879	2200	2250.	13.74	57.23	1.27
080979	0000	2370.	13.78	57.19	1.31
080979	0200	2490.	13.80	57.17	1.33
080979	0400	2610.	13.85	57.12	1.38
080979	0600	2730.	13.92	57.05	1.45
080979	0800	2850.	13.98	56.99	1.51
080979	1000	2970.	14.00	56.97	1.53
080979	1200	3090.	14.05	56.92	1.58
080979	1400	3210.	14.07	56.90	1.60
080979	1600	3330.	14.10	56.87	1.63
080979	1800	3450.	14.15	56.82	1.68
080979	2000	3570.	14.18	56.79	1.71
080979	2200	3690.	14.25	56.72	1.78
081079	0000	3810.	14.28	56.69	1.81
081079	0200	3930.	14.30	56.67	1.83
081079	0400	4050.	14.32	56.65	1.85
081079	0600	4170.	14.36	56.61	1.89
081079	0815	4305.	14.39	56.58	1.92
081079	1000	4410.	14.37	56.60	1.90
081079	1200	4530.	14.38	56.59	1.91
081079	1400	4650.	14.38	56.59	1.91
081079	1600	4770.	14.40	56.57	1.93
081079	1800	4890.	14.42	56.55	1.95
081079	2000	5010.	14.50	56.47	2.03
081079	2200	5130.	14.55	56.42	2.08
081179	0000	5250.	14.58	56.39	2.11
081179	0200	5370.	14.59	56.38	2.12
081179	0400	5490.	14.63	56.34	2.16
081179	0600	5610.	14.66	56.31	2.19
081179	0800	5730.	14.73	56.24	2.26
081179	1000	5850.	14.75	56.22	2.28
081179	1230	6000.	14.80	56.17	2.33
081179	1400	6090.	14.82	56.15	2.35
081179	1600	6210.	14.86	56.11	2.39
081179	1800	6330.	14.90	56.07	2.43
081179	2000	6450.	14.97	56.00	2.50
081179	2200	6570.	15.05	55.92	2.58

2.4C-56

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-3	70.97	16.47	550498N - 272613E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081279	0000	6090.	15.08	55.89	2.61
081279	0200	6810.	15.09	55.88	2.62
081279	0400	6930.	15.13	55.84	2.66
081279	0600	7050.	15.22	55.75	2.75
081279	0800	7170.	15.28	55.69	2.81
081279	1000	7290.	15.33	55.64	2.86
081279	1200	7410.	15.37	55.60	2.90
081279	1400	7530.	15.41	55.56	2.94
081279	1600	7650.	15.43	55.54	2.96
081279	1800	7770.	15.47	55.50	3.00
081279	2000	7890.	15.52	55.45	3.05
081279	2200	8010.	15.58	55.39	3.11
081379	0000	8130.	15.61	55.36	3.14
081379	0400	8370.	15.71	55.26	3.24
081379	0800	8610.	15.83	55.14	3.36
081379	1200	8850.	15.89	55.08	3.42
081379	1600	9090.	15.96	55.01	3.49
081379	2000	9330.	16.07	54.90	3.60
081879	0000	9570.	16.10	54.87	3.67
081479	0400	9810.	16.25	54.72	3.78
081879	0800	10050.	16.31	54.66	3.84
081479	1200	10290.	16.34	54.63	3.87
081879	1600	10530.	16.83	54.58	3.96
081479	2000	10770.	16.59	54.38	4.12
081579	0000	11010.	16.66	54.31	4.19
081579	1500	11910.	16.83	54.14	4.36
081579	1900	12150.	16.90	54.07	4.43
081579	2300	12390.	17.02	53.95	4.55
081679	0300	12630.	17.05	53.92	4.58
081679	0700	12870.	17.14	53.83	4.67
081679	1100	13110.	17.20	53.73	4.77
081679	1520	13370.	17.28	53.69	4.81
081679	1900	13590.	17.35	53.62	4.88
081679	2300	13830.	17.44	53.53	4.97
081779	0300	14070.	17.48	53.49	5.01
081779	0700	14310.	17.58	53.39	5.11
081779	1100	14550.	17.65	53.32	5.18
081779	1500	14790.	17.68	53.29	5.21
081779	1900	15030.	17.73	53.24	5.26
081779	2300	15270.	17.82	53.15	5.35
081879	0300	15510.	17.87	53.10	5.40
081879	0700	15750.	17.94	53.03	5.47
081879	1100	15990.	18.00	52.97	5.53
081879	1500	16230.	18.03	52.94	5.56
081879	1900	16470.	18.08	52.89	5.61
081879	2300	16710.	18.19	52.78	5.72
081979	1600	17730.	18.36	52.59	5.91
081979	2000	17970.	18.45	52.52	5.98
082079	0000	18210.	18.55	52.42	6.08
082079	0400	18450.	18.57	52.40	6.10

2.4C-57

WELL NO.	ELEV OF MEAS PT.(FT MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
P-3	70.97	12.87	550N98W r 272E13E	082779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
082079	0800	18690.	18.65	52.32	6.18
082079	1200	18930.	18.70	52.27	6.23
082079	1600	19170.	18.74	52.23	6.27
082079	2000	19410.	18.81	52.16	6.34
082179	0000	19650.	18.88	52.09	6.41
082179	0400	19890.	18.93	52.04	6.46
082179	0800	20130.	19.00	51.97	6.53
082179	1515	20565.	19.02	51.95	6.55
082179	1900	20790.	19.08	51.89	6.61
082279	0100	21150.	19.19	51.78	6.72
082279	0700	21510.	19.24	51.73	6.77
082279	1500	21990.	19.33	51.64	6.86
082279	2100	22350.	19.42	51.55	6.95
082379	0500	22830.	19.51	51.46	7.04
082379	1300	23310.	19.59	51.38	7.12
082379	1900	23670.	19.65	51.32	7.18
082479	0500	24270.	19.80	51.17	7.33
082479	1100	24630.	19.88	51.09	7.41
082479	1825	25075.	19.98	50.99	7.51
082579	0000	25810.	20.07	50.90	7.60
082579	0800	25890.	20.18	50.79	7.71
082579	1600	26370.	20.27	50.70	7.80
082679	0000	26850.	20.39	50.58	7.92
082679	0600	27210.	20.50	50.47	8.03
082679	1800	27690.	20.59	50.38	8.12
082679	1925	28015.	20.69	50.28	8.22
083079	1925	33775.	21.33	49.64	8.86
083179	1720	35090.	21.45	49.52	8.98
090279	1025	37555.	22.08	48.89	9.61
090379	1050	39020.	22.16	48.81	9.69
090479	1305	40595.	22.08	48.89	9.61
090579	1120	41930.	22.08	48.89	9.61
090779	1710	45160.	21.60	49.37	9.13
090979	0850	47540.	21.36	49.61	8.89
091179	0805	50415.	21.12	49.85	8.65
091379	0830	53280.	21.15	49.82	8.68
091579	1145	56355.	21.55	49.82	9.08
091779	1450	59420.	21.90	49.07	9.43
091979	1220	62150.	22.25	48.72	9.78
092179	0900	64830.	22.55	48.42	10.08
092379	1320	70850.	22.28	48.69	9.81
092779	0855	73465.	21.98	48.99	9.51
092979	1510	76720.	21.61	49.36	9.14
100179	1425	79555.	21.33	49.64	8.86
100379	1305	82355.	20.93	50.04	8.46
100579	1735	85505.	20.56	50.41	8.09
100779	1820	88190.	20.88	50.09	8.01
100979	1000	90810.	20.63	50.34	8.16
101179	1300	93870.	20.88	50.09	8.41
101679	1840	101410.	21.81	49.16	9.34

2.4/C-58

WELL NO.	ELEV OF MEAS PT.(FT%MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
P-3	70.97	12.47	550498N - 272615E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
101879	1425	104035.	22.22	48.75	9.75
102079	1505	106955.	22.71	48.26	10.24
102279	1435	109805.	23.19	47.78	10.72
102479	1720	112650.	23.63	47.34	11.16
102679	0825	115195.	23.88	47.09	11.41
102879	1610	118540.	24.39	46.58	11.92
103079	0945	121035.	24.74	46.23	12.27
110279	1000	125370.	25.31	45.66	12.84
110479	0830	128160.	25.82	45.15	13.35
110679	0835	131045.	26.32	44.65	13.85
110879	0830	133920.	26.78	44.19	14.31
111379	1055	141265.	27.54	43.43	15.07
111679	0830	145980.	27.98	43.53	14.97
112679	0930	159900.	26.56	44.41	14.09
112979	1010	164260.	26.14	44.83	13.67
121179	0930	181500.	16.87	54.10	4.40
121379	1020	188670.	16.81	54.16	4.34

2.4C-59

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-8	68.30	8.69	5695354 +272015E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	12.17	56.13	3.48
080279	0000	-7230.	12.02	56.28	3.33
080379	1345	-5885.	11.25	57.05	2.56
080479	0000	-4350.	10.67	57.63	1.98
080579	1015	-2775.	10.18	58.12	1.49
080679	1000	-1350.	9.39	58.91	.70
080779	0822	-8.	8.69	59.61	.00
080779	1050	620.	9.57	58.73	.88
080779	2000	890.	9.65	58.65	.96
080779	2200	810.	9.75	58.55	1.06
080779	2400	940.	9.79	58.51	1.10
080879	0200	1050.	9.81	58.49	1.12
080879	0400	1170.	9.83	58.47	1.14
080879	0600	1290.	9.89	58.41	1.20
080879	0845	1455.	9.98	58.32	1.29
080879	1010	1540.	10.15	58.15	1.46
080879	1200	1650.	10.17	58.13	1.48
080879	1400	1770.	10.18	58.12	1.49
080879	1600	1890.	10.22	58.08	1.53
080879	1800	2010.	10.28	58.02	1.59
080879	2000	2130.	10.36	57.94	1.67
080879	2200	2250.	10.43	57.87	1.74
080879	2400	2370.	10.47	57.83	1.78
080979	0200	2490.	10.50	57.80	1.81
080979	0400	2610.	10.53	57.77	1.84
080979	0600	2730.	10.56	57.74	1.87
080979	0800	2850.	10.62	57.68	1.93
080979	1000	2970.	10.71	57.59	2.02
080979	1200	3090.	10.77	57.53	2.08
080979	1400	3210.	10.81	57.49	2.12
080979	1600	3330.	10.85	57.45	2.16
080979	1800	3450.	10.89	57.41	2.20
080979	2000	3570.	10.91	57.39	2.22
080979	2200	3690.	10.95	57.35	2.26
080979	2400	3810.	10.97	57.33	2.28
081079	0400	4050.	10.98	57.32	2.29
081079	0800	4290.	11.05	57.25	2.36
081079	1200	4530.	11.14	57.16	2.45
081079	1600	4770.	11.18	57.12	2.49
081079	2000	5010.	11.31	56.99	2.62
081079	2400	5250.	11.39	56.91	2.70
081179	0400	5490.	11.43	56.87	2.74
081179	0800	5730.	11.50	56.76	2.85
081179	1200	5970.	11.61	56.69	2.92
081179	1600	6210.	11.68	56.62	2.99
081179	2000	6450.	11.82	56.48	3.13
081179	2400	6690.	11.93	56.37	3.24
081279	0600	7050.	12.13	56.17	3.44
081279	1200	7410.	12.28	56.02	3.59
081279	1500	7590.	12.37	55.93	3.68

2.4C-60

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-9	68.30	8.09	549535N 2120152E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081279	1800	7770.	12.93	55.87	3.74
081279	2400	8130.	12.61	55.69	3.92
081379	0600	8490.	12.79	55.51	4.10
081379	1200	8850.	12.95	55.35	4.26
081379	1800	9210.	13.12	55.18	4.43
081379	2400	9570.	13.30	55.00	4.61
081479	0600	9930.	13.49	54.80	4.75
081479	1200	10290.	13.58	54.72	4.89
081479	1800	10650.	13.67	54.63	4.98
081479	2200	10890.	13.73	54.57	5.04
081579	1530	11988.	14.17	54.13	5.48
081579	1800	12090.	14.21	54.09	5.52
081579	2400	12450.	14.37	53.93	5.68
081679	0600	12810.	14.48	53.82	5.79
081679	1800	13530.	14.78	53.52	6.09
081779	0600	14250.	15.04	53.26	6.35
081779	1800	14970.	15.28	53.02	6.59
081879	0600	15690.	15.50	52.80	6.81
081879	1800	16410.	15.66	52.64	6.97
081979	0600	17130.	15.86	52.44	7.17
081979	1800	17850.	15.98	52.32	7.29
082079	0600	18570.	16.15	52.15	7.46
082079	1800	19290.	16.37	51.93	7.68
082179	0600	20010.	16.50	51.80	7.81
082179	1530	20580.	16.62	51.68	7.93
082179	1800	20730.	16.66	51.64	7.97
082279	1800	22170.	17.05	51.25	8.36
082379	1800	23610.	17.29	51.01	8.60
082479	1915	25125.	17.69	50.61	9.00
082579	1800	26490.	18.17	50.13	9.48
082679	1900	27990.	18.72	49.58	10.03
082779	1800	29370.	19.22	49.08	10.53
082879	0940	30310.	19.45	48.85	10.76
082979	1800	32250.	19.78	48.52	11.09
083079	1900	33750.	19.84	48.46	11.15
083179	1630	35040.	19.72	48.58	11.03
090279	1035	37565.	19.19	49.11	10.50
090379	1025	38995.	18.90	49.40	10.21
090479	1300	40590.	18.56	49.74	9.87
090579	1130	41940.	18.40	49.90	9.71
090779	1740	45190.	17.75	50.55	9.06
090979	0930	47580.	17.43	50.87	8.74
091179	0810	50380.	17.35	50.95	8.66
091379	0900	53310.	17.75	50.55	9.06
091579	1100	56310.	18.47	49.83	9.78
091779	1405	59375.	19.17	49.13	10.48
091979	1125	62095.	19.45	48.85	11.16
092179	0945	64875.	19.77	48.53	11.08
092579	1345	70875.	18.39	49.91	9.70
092779	0830	73490.	17.88	50.42	9.19

2.4C-61

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
FWA	68.30	8.64	589535N * 272015E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
092479	1440	76690.	17.47	50.83	8.78
100179	1345	79515.	17.33	50.97	8.64
100379	1245	82335.	16.48	51.86	8.15
100579	1715	85485.	16.53	51.77	7.84
100779	1350	88160.	16.56	51.74	7.87
100979	0930	90780.	17.15	51.15	8.46
101179	1230	93800.	17.69	50.61	9.00
101679	1815	101385.	19.25	49.05	10.56
101879	1335	103985.	19.88	48.42	11.19
102079	1350	106880.	20.31	47.99	11.62
102279	1330	109740.	20.81	47.49	12.12
102479	1710	112890.	21.10	47.16	12.45
102679	0805	115175	21.35	46.95	12.66
102879	1545	118515.	21.76	46.54	13.07
103079	0910	121000.	22.89	45.81	13.80
110279	0920	125330.	23.43	44.87	14.74
110479	0750	128120.	23.94	44.36	15.25
110679	0755	131005.	24.42	43.88	15.73
110879	0805	133895.	24.84	43.46	16.15
111379	1015	141225.	24.42	43.88	15.73
111679	0740	145390.	23.71	44.59	15.02
112679	1000	159930.	22.16	46.14	13.47
112879	0930	164220.	21.62	46.68	12.93

2.4C-62

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-5	69.58	8.80	548124N - 209488E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	13.42	56.16	4.56
080279	0000	-7230.	12.96	56.62	4.10
080379	0000	-5790.	12.11	57.47	3.25
080479	0000	-4350.	10.98	58.60	2.12
080579	1320	-2590.	10.10	59.48	1.24
080679	0930	-1380.	9.39	60.19	.53
080779	0743	-47.	8.86	60.72	.00
080779	0844	14.	8.86	60.72	.00
080779	0950	80.	8.86	60.72	.00
080779	1047	137.	8.82	60.76	-.04
080779	1218	228.	8.81	60.77	-.01
080779	1319	289.	8.83	60.75	-.03
080779	1415	345.	8.79	60.79	-.07
080779	1517	407.	8.77	60.81	-.09
080779	1613	463.	8.76	60.82	-.10
080779	1806	576.	8.73	60.85	-.13
080779	2035	725.	8.70	60.88	-.16
080779	2234	844.	8.65	60.93	-.21
080879	0015	905.	8.62	60.96	-.24
080879	0430	1200.	8.52	61.06	-.34
080879	0745	1395.	8.43	61.15	-.43
080879	1320	1730.	8.48	61.10	-.38
080879	2220	2270.	8.42	61.16	-.44
080979	0230	2520.	8.39	61.19	-.47
080979	0800	2850.	8.30	61.28	-.56
080979	1835	3485.	8.35	61.23	-.51
081079	0015	3825.	8.32	61.26	-.54
081079	0700	4230.	8.27	61.31	-.59
081079	1305	4595.	8.30	61.28	-.56
081079	1920	4970.	8.42	61.16	-.44
081079	2400	5250.	8.53	61.05	-.33
081179	0615	5625.	8.47	61.11	-.39
081179	1425	6115.	8.52	61.06	-.34
081179	1915	6405.	8.59	60.99	-.27
081179	2400	6690.	8.68	60.90	-.18
081279	0630	7080.	8.74	60.84	-.12
081279	1230	7440.	8.89	60.69	.03
081279	1920	7850.	9.07	60.51	.21
081279	2345	8115.	9.20	60.38	.34
081379	0630	8520.	9.34	60.24	.48
081379	1410	8980.	9.21	60.37	.35
081379	2000	9330.	9.10	60.48	.24
081379	2400	9570.	9.97	59.61	1.11
081479	0615	9985.	10.10	59.48	1.24
081479	1820	10670.	10.51	59.07	1.65
081579	0730	11460.	10.02	59.56	1.16
081579	1800	12090.	11.06	58.52	2.20
081679	0720	12890.	11.31	58.27	2.45
081679	1820	13550.	11.65	57.93	2.79
081779	0635	14285.	11.91	57.67	3.05

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WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
EWS	69.58	8.86	5081248 ' 2099808	080779	0830

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1815	18985.	12.20	57.38	3.38
081879	0650	15740.	12.41	57.17	3.55
081879	1815	16825.	12.55	57.03	3.69
081979	1020	17390.	12.76	56.82	3.90
081979	1840	17890.	12.82	56.76	3.96
082079	0650	18620.	12.87	56.71	4.01
082079	1830	19320.	13.10	56.48	4.24
082179	0640	20050.	13.18	56.40	4.32
082179	1905	20795.	13.27	56.11	4.61
082279	1740	22150.	13.73	55.85	4.87
082379	1745	23595.	14.17	55.41	5.31
082479	1725	25015.	14.86	54.72	6.00
082579	1815	26505.	15.59	53.99	6.73
082679	1720	27890.	16.34	53.24	7.48
082779	1750	29360.	17.00	52.58	8.14
082879	1755	30805.	17.04	52.54	8.18
082979	1760	32240.	15.69	53.89	6.83
083079	1740	33670.	16.02	53.56	7.16
083179	1530	34980.	15.42	54.16	6.56
090179	0920	36050.	14.75	54.83	5.89
090279	0910	37480.	13.92	55.66	5.06
090379	0830	38890.	13.33	56.25	4.47
090479	1500	40760.	12.71	56.87	3.85
090579	1455	42185.	12.17	57.41	3.31
090779	1600	45090.	11.33	58.25	2.47
090979	0750	47480.	11.04	58.54	2.18
091179	0950	50880.	11.59	57.99	2.73
091379	0730	53220.	12.52	57.06	3.66
091579	1235	56805.	14.06	55.52	5.20
091779	1545	59475.	15.32	54.26	6.46
091979	1030	62080.	16.21	53.37	7.35
092179	0742	64752.	15.33	54.25	6.47
092579	0915	70605.	11.19	58.39	2.33
092779	1110	73600.	11.28	58.30	2.42
092979	1555	76785.	10.82	58.76	1.96
100179	1515	79605.	10.75	58.83	1.89
100379	1115	82285.	10.22	59.36	1.36
100579	1350	85280.	10.46	59.12	1.60
100779	1530	88260.	10.66	58.92	1.80
100979	1115	90885.	11.85	57.73	2.99
101179	1350	93920.	12.88	56.70	4.02
101679	1935	101465.	15.55	54.03	6.69
101879	1555	104125.	16.40	53.18	7.54
102079	1625	107035.	16.32	53.26	7.46
102279	1600	109890.	16.52	53.06	7.66
102479	1815	112905.	16.88	52.74	7.98
102679	1335	115505.	17.35	52.23	8.49
102879	1700	118590.	17.93	51.65	9.07
103079	1315	121245.	19.56	50.02	10.70
110279	1110	125490.	20.89	48.69	12.03

2.4C-64

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
F-5	69.58	8.89	548129N - 2044WUE	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110479	0935	128225.	20.82	48.76	11.96
110679	1110.	135200.	21.23	48.35	12.37
110879	0925	133975.	21.02	48.56	12.16
111379	1315	141405.	17.58	52.00	8.72
111679	0935	185505.	16.19	53.39	7.33
112679	1720	160370.	13.61	55.97	4.75
112979	1120	169330.	13.00	56.58	4.14
121179	1105	181595.	6.43	63.15	-2.43
121379	1530	189740.	7.33	62.25	-1.53

2.4C-65

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	GROUNDWATER	START DATE	START TIME
Fwb	80.78	21.61	SEASON = 272010E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	23.23	57.51	1.62
080279	0000.	-7230.	23.21	57.53	1.60
080379	0000	-5790.	23.13	57.61	1.52
080479	0000	-4350.	22.75	57.99	1.14
080679	1320	-2590.	22.08	58.66	.47
080679	0945	-1365.	22.05	58.69	.44
080779	0737	-53.	21.61	59.13	.00
080779	0840	10.	21.61	59.13	.00
080779	0845	75.	21.61	59.13	.00
080779	1042	132.	21.61	59.13	.00
080779	1213	223.	21.63	59.11	.02
080779	1311	281.	21.63	59.11	.02
080779	1410	340.	21.63	59.11	.02
080779	1511	401.	21.63	59.11	.02
080779	1607	457.	21.63	59.11	.02
080779	1802	572.	21.65	59.09	.04
080779	2027	717.	21.70	59.04	.09
080779	2227	837.	21.64	59.10	.03
080879	0045	975.	21.64	59.10	.03
080879	0830	1200.	21.61	59.13	.00
080879	0745	1395.	21.62	59.12	.01
080879	1315	1725.	21.73	59.01	.12
080879	2230	2280.	21.81	58.93	.20
080979	0230	2520.	21.85	58.89	.24
080979	0800	2850.	21.79	58.95	.18
080979	1830	3480.	21.87	58.87	.26
081079	2000	5250.	22.00	58.74	.39
081079	0015	3825.	21.90	58.84	.29
081079	0605	8215.	21.90	58.84	.29
081079	1310	9600.	21.97	58.77	.36
081079	1925	8975.	21.98	58.76	.37
081179	0600	5610.	22.20	58.54	.59
081179	1830	6120.	22.13	58.61	.52
081179	1920	6410.	22.16	58.58	.55
081279	0015	6705.	22.32	58.42	.71
081279	0615	7065.	22.38	58.36	.77
081279	1235	7485.	22.50	58.24	.89
081279	1925	7855.	22.59	58.15	.98
081279	2345	8115.	22.71	58.03	1.10
081379	0630	8520.	22.92	57.82	1.31
081379	1015	8985.	23.12	57.62	1.51
081379	1955	9325.	23.23	57.51	1.62
081379	2400	9570.	23.31	57.43	1.70
081479	0615	9945.	23.35	57.39	1.74
081479	1815	10665.	23.50	57.20	1.93
081579	0720	11450.	23.75	56.99	2.14
081579	1755	12085.	23.96	56.78	2.35
081679	0710	12880.	24.22	56.52	2.61
081679	1815	13585.	24.34	56.40	2.73
081779	0640	14290.	24.54	56.20	2.93

2.4C-66

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
P-6	80.74	21.61	594858N 272V10E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1820	14990.	28.69	56.05	3.08
081879	0645	15735.	28.88	55.86	3.27
081879	1820	16930.	29.14	55.80	3.33
081979	1025	17395.	25.21	55.53	3.60
081979	1835	17885.	25.27	55.47	3.66
082079	0640	18610.	25.49	55.25	3.88
082079	1835	19325.	25.55	55.19	3.94
082179	0650	20060.	25.72	55.02	4.11
082179	1900	20790.	25.80	54.94	4.19
082279	1735	22145.	26.04	54.70	4.43
082379	1740	23590.	26.28	54.46	4.67
082479	1720	25010.	26.59	54.15	4.98
082579	1820	26510.	26.91	53.83	5.30
082679	1715	27885.	27.22	53.52	5.61
082779	1745	29355.	27.61	53.13	6.00
082879	1750	30800.	27.85	52.89	6.24
082979	1745	32235.	28.05	52.69	6.44
083079	1740	33670.	28.13	52.61	6.52
083179	1525	34975.	28.18	52.60	6.53
090179	0915	36085.	28.17	52.57	6.56
090279	0915	37485.	28.00	52.74	6.39
090379	0835	38885.	27.96	52.78	6.35
090479	1535	40785.	27.96	52.78	6.35
090579	1850	42140.	27.83	52.91	6.22
090779	1555	45085.	27.46	53.28	5.85
090979	0750	47480.	27.30	53.44	5.69
091179	0955	50485.	27.37	53.37	5.76
091379	0725	53215.	27.41	53.33	5.80
091579	1240	56910.	27.93	52.81	6.32
091779	1550	59480.	28.33	52.41	6.72
091979	1025	62035.	28.69	52.05	7.08
092179	0745	64755.	28.57	52.17	6.96
092579	0910	70600.	28.01	52.73	6.40
092779	1115	73605.	27.99	52.75	6.38
092979	1600	76770.	27.52	53.22	5.91
100179	1520	79610.	27.43	53.31	5.82
100379	1120	82250.	27.16	53.58	5.55
100579	1355	85285.	26.98	53.76	5.37
100779	1535	88265.	26.91	53.93	5.20
100979	1120	90890.	27.23	53.51	5.62
101179	1800	93930.	27.58	53.16	5.97
101679	1940	101470.	28.59	52.15	6.98
101879	1600	104130.	29.01	51.73	7.40
102079	1630	107040.	29.08	51.66	7.47
102279	1605	109895.	29.33	51.41	7.72
102479	1820	112910.	29.68	51.06	8.07
102679	1340	115510.	29.95	50.79	8.34
102879	1705	118595.	30.23	50.51	8.62
103079	1315	121295.	30.79	49.95	9.18
110279	1115	125495.	31.28	49.46	9.67

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WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PMA	80.78	21.81	SUBASAN 212010E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110879	0940	128230.	31.81	89.53	9.80
110679	1115	131205.	31.87	88.87	10.26
110879	0930	133980.	31.97	88.77	10.36
111379	1320	141410.	32.09	88.65	10.48
111679	0940	145510.	31.91	88.83	10.30
112679	1725	160375.	31.51	89.43	9.70
112979	1130	164300.	31.08	89.70	9.83
121079	1610	180460.	26.1-	54.60	4.53
121379	1535	188705.	25.56	55.18	3.95

2.4C-68

WELL NO.	ELEV. OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-1A	68.67	7.8M	549117N - 270501E	080779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	14.13	54.54	6.25
080279	0000	-7230.	13.46	55.21	5.58
080379	0000	-5790.	12.49	56.18	4.61
080479	0000	-4350.	10.18	58.49	2.30
080579	0000	-2910.	9.17	59.50	1.29
080679	0935	-1375.	9.23	59.44	1.35
080779	0727	-63.	7.88	60.79	.00
080779	0916	46.	8.69	59.98	.81
080779	1010	100.	8.67	60.00	.79
080779	1109	159.	8.66	60.01	.78
080779	1223	233.	8.67	60.00	.79
080779	1325	295.	8.67	60.00	.79
080779	1415	345.	8.68	59.99	.80
080779	1505	395.	8.67	60.00	.79
080779	1605	455.	8.62	60.05	.74
080779	1835	605.	8.59	60.08	.71
080779	2135	785.	8.26	60.41	.38
080779	2310	880.	8.10	60.57	.22
080879	0130	1020.	7.86	60.81	-.02
080879	0530	1260.	7.96	61.21	-.42
080879	0830	1440.	8.49	60.18	.61
080879	1425	1795.	8.57	60.10	.69
080879	2145	2235.	8.25	60.42	.37
080979	0300	2550.	7.69	60.98	-.19
080979	0845	2895.	8.53	60.14	.65
080979	1650	3380.	8.49	60.18	.61
081079	0045	3855.	7.89	60.78	.01
081079	0745	4275.	7.76	60.91	-.12
081079	1200	4530.	8.77	59.90	.89
081079	1815	4905.	8.54	60.13	.66
081179	0045	5295.	8.22	60.45	.34
081179	0645	5655.	8.01	60.66	.13
081179	1320	6050.	8.15	60.52	.27
081179	1815	6345.	8.30	60.37	.42
081279	0045	6735.	8.48	60.19	.60
081279	0645	7095.	8.65	60.02	.77
081279	1410	7560.	8.81	59.86	.93
081279	1815	7785.	8.90	59.77	1.02
081379	0015	8145.	9.18	59.49	1.30
081379	0700	8550.	9.57	59.10	1.69
081379	1340	8950.	10.77	57.90	2.89
081379	2020	9350.	10.77	57.90	2.89
081479	0030	9600.	10.45	58.22	2.57
081479	0700	9990.	10.26	58.41	2.38
081479	1925	10735.	11.58	57.09	3.70
081579	0815	11505.	11.98	56.69	4.10
081579	1830	12120.	12.21	56.46	4.33
081679	0750	12920.	12.59	56.08	4.71
081679	1900	13590.	12.71	55.96	4.83
081779	0735	14385.	13.45	55.22	5.57

2.4C-69

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-1A	68.67	7.88	S49111N * 27050IE	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1900	15030.	13.05	55.62	5.17
081879	0735	15785.	12.96	55.71	5.08
081879	1910	16880.	13.10	55.57	5.22
081979	0945	17355.	13.28	55.39	5.40
081979	1920	17930.	13.30	55.37	5.42
082079	0730	18660.	14.93	54.20	6.55
082079	1910	19360.	14.81	54.26	6.51
082179	0730	20100.	14.70	53.97	6.82
082179	1930	20820.	14.75	53.92	6.87
082279	1820	22190.	15.23	53.44	7.35
082379	1820	23630.	15.80	52.87	7.92
082479	1935	25145.	16.41	52.26	8.53
082579	1650	26420.	15.93	52.74	8.05
082679	1840	27970.	17.54	51.13	9.66
082779	1905	29835.	18.99	49.68	11.11
082879	1855	30865.	18.85	49.82	10.97
082979	1855	32305.	18.20	50.47	10.32
083079	1850	33740.	17.25	51.42	9.37
083179	1610	35020.	16.82	52.25	8.58
090179	0950	36080.	14.79	53.88	6.91
090279	0950	37520.	13.50	55.17	5.62
090379	1005	38975.	13.83	54.84	5.95
090479	1055	40705.	13.67	55.00	5.79
090579	1430	42120.	12.96	55.71	5.08
090779	1805	45215.	11.66	57.01	3.78
090979	0950	47600.	10.67	58.00	2.79
091179	0750	50360.	12.96	55.71	5.08
091379	0920	53330.	14.15	54.52	6.27
091579	1050	56300.	14.52	54.15	6.68
091779	1335	59345.	17.08	51.59	9.20
091979	1105	62075.	18.10	50.57	10.22
092179	1000	64890.	16.56	52.11	8.68
092579	1305	70835.	14.82	53.85	6.98
092779	0810	73420.	13.72	54.95	5.84
092879	1020	74670.	10.88	58.23	2.56
100179	1315	79485.	14.44	54.23	6.56
100379	1030	82200.	14.05	54.62	6.17
100579	1300	85230.	13.27	55.40	5.39
100779	1325	88135.	10.86	58.21	2.58
100979	0905	90755.	15.51	53.16	7.63
101179	1210	93820.	16.83	51.84	8.95
101679	1755	101365.	18.66	50.01	10.78
101879	1310	103960.	21.75	46.92	13.87
102079	1320	106850.	16.93	51.74	9.05
102279	1300	109710.	18.89	50.18	10.61
102479	1420	112670.	20.97	48.20	12.59
102679	0745	115155.	20.61	48.06	12.73
102879	1530	118500.	18.92	49.75	11.04
103079	0850	120980.	20.66	48.01	10.78
110179	1135	124025.	27.93	41.24	19.55

2.4C-70

WELL NO.	ELEV OF MEAS PT (FT,MSL)	STATIC WATER LEVEL (FT)	COORDINATES		START DATE	START TIME
RW-1A	68.67	7.80	549117N	2705018E	082779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED (MIN)	DEPTH TO WATER (FT)	WATER LEVEL ELEV (FT,MSL)	DRAWDOWN (FT)
110279	0900	125310.	26.30	42.37	18.42
110479	0730	128100.	21.92	46.75	14.04
110679	0740	130990.	23.81	43.86	16.93
110879	0745	133875.	21.98	46.69	14.10
111379	0950	141200.	23.11	45.56	15.23
111679	0715	145365.	19.13	49.54	11.25
112679	1020	159950.	18.34	50.33	10.46
112979	0905	164195.	12.80	55.87	4.92
121179	0905	181975.	5.59	63.08	-2.29
121379	1330	186620.	6.84	61.83	-1.04

2.4C-71

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
Rx-18	71.21	10.00	S4918aN 2705S2E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	URANIUM (FT)
080179	0000	-8670.	16.42	54.79	5.98
080279	0000	-7230.	15.79	55.42	5.35
080379	0000	-5790.	14.79	56.42	4.35
080479	0000	-4350.	12.91	58.30	2.47
080579	0000	-2910.	11.67	59.54	1.23
080679	0930	-1380.	11.54	59.67	1.10
080779	0730	-60.	10.88	60.33	.44
080779	0914	14.	10.91	60.30	.47
080779	1009	99.	11.00	60.21	.56
080779	1105	155.	10.93	60.28	.49
080779	1220	230.	10.96	60.25	.52
080779	1322	292.	10.98	60.23	.54
080779	1415	345.	10.99	60.22	.55
080779	1502	392.	10.99	60.22	.55
080779	1002	92.	10.96	60.25	.52
080779	1840	810.	10.88	60.33	.44
080779	2130	784.	10.66	60.55	.22
080779	2305	875.	10.51	60.70	.07
080879	0130	1020.	10.37	60.84	-.07
080879	0530	1260.	10.00	61.21	-.44
080879	0830	1440.	10.83	60.38	.39
080879	1425	1795.	10.85	60.36	.41
080879	2140	2210.	10.64	60.57	.20
080979	0300	2550.	10.28	60.93	-.16
080979	0845	2895.	11.63	59.58	1.19
080979	1655	3385.	10.79	60.42	.35
081079	0045	3855.	10.38	60.83	-.06
081079	0745	4275.	10.29	60.92	-.15
081079	1200	4530.	11.08	60.13	.64
081079	1815	4905.	10.94	60.27	.50
081179	0045	5295.	10.70	60.51	.26
081179	0645	5655.	10.58	60.63	.14
081179	1320	6050.	10.71	60.50	.27
081179	1815	6345.	10.85	60.36	.41
081279	0045	6735.	11.01	60.20	.57
081279	0645	7095.	11.18	60.03	.74
081279	1410	7580.	11.45	59.76	1.01
081279	1815	7785.	11.58	59.63	1.14
081379	0015	8145.	11.72	59.49	1.28
081379	0700	8550.	12.12	59.09	1.68
081379	1345	8955.	13.12	58.09	2.68
081379	2025	9355.	13.16	58.05	2.72
081479	0030	9600.	12.97	58.24	2.53
081479	0700	9990.	12.79	58.42	2.35
081479	1925	10735.	13.96	57.25	3.52
081579	910	11500.	14.32	56.89	3.88
081579	1830	12120.	14.57	56.64	4.13
081679	0750	12970.	14.97	56.24	4.53
081679	1855	13585.	15.14	56.07	4.70
081779	0755	14305.	15.78	55.43	5.34

2HC-72

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
R7-1H	71.21	10.44	5091860	2705320	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1900	15030.	15.53	55.68	5.09
081879	0730	15780.	15.52	55.69	5.08
081879	1910	16480.	15.65	55.56	5.21
081979	0950	17360.	15.85	55.36	5.41
081979	1920	17930.	15.98	55.33	5.44
082079	0730	18660.	16.74	54.47	6.30
082079	1910	19350.	16.78	54.43	6.34
082179	0730	20100.	17.03	54.18	6.59
082179	1930	20820.	17.11	54.10	6.67
082279	1020	22190.	17.58	53.63	7.14
082379	1820	23630.	18.15	53.06	7.71
082479	1945	25155.	18.18	53.03	7.74
082579	1650	26420.	19.20	52.01	8.76
082679	1840	27970.	20.11	51.10	9.67
082779	1905	29435.	20.69	50.52	10.25
082879	1855	30865.	20.59	50.62	10.15
082979	1855	32305.	20.53	50.68	10.09
083079	1850	33740.	19.00	52.21	8.56
083179	1610	35020.	18.82	52.39	8.38
090179	0950	36080.	17.38	53.83	6.94
090279	0950	37520.	16.54	54.67	6.10
090379	1000	38970.	15.83	55.38	5.39
090879	1455	40705.	15.92	55.29	5.48
090579	1430	42120.	15.29	55.92	4.85
090779	1800	45210.	14.19	57.11	3.66
090979	0950	47600.	13.30	57.91	2.86
091179	0750	50360.	14.96	56.25	4.52
091379	0920	53330.	16.40	54.81	5.96
091579	1050	56300.	17.08	54.13	6.64
091779	1335	59345.	19.46	51.75	9.02
091979	1105	62075.	20.39	50.82	9.95
092179	1000	64890.	18.93	52.28	8.49
092579	1312	70842.	17.10	54.11	6.66
092779	0810	73420.	16.21	55.00	5.77
092979	1020	76670.	13.01	58.20	2.57
100179	1315	79485.	16.06	55.15	5.62
100379	1030	82200.	16.71	54.50	6.27
100579	1300	85230.	15.07	56.14	4.63
100779	1325	88135.	13.05	58.16	2.61
100979	0905	90755.	17.23	53.98	6.79
101179	1210	93020.	18.50	52.71	8.06
101679	1755	101365.	20.56	50.65	10.12
101879	1310	103960.	23.30	47.91	12.86
102079	1320	106850.	19.53	51.68	9.09
102279	1300	109710.	20.57	50.64	10.13
102479	1020	112670.	22.30	48.91	11.86
102679	0745	115155.	22.98	48.73	12.04
102879	1530	118500.	21.49	49.72	11.05
103079	0850	120980.	26.19	45.02	15.75
110179	1135	124025.	28.51	42.70	18.07

2.4C-73

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RhvIH	71.21	10.88	5091860N 270532E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110279	0900	125310.	27.87	43.34	17.03
110479	0730	128100.	24.52	46.69	13.68
110679	0700	130980.	26.83	44.38	16.39
110879	0745	133875.	24.63	46.58	13.19
111379	0850	141200.	24.52	46.69	13.68
111679	0715	145365.	21.19	50.02	10.75
112679	1020	159450.	19.90	51.31	9.46
112979	0905	164195.	15.49	55.72	5.05
121079	1055	180185.	7.98	63.23	-2.46
121379	1330	184620.	9.49	61.72	-.95

2-4C-74

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
RW-3A	75.63	15.25	550713N	271404E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	19.90	55.73	4.65
080279	0000	-7230.	19.63	56.00	4.38
080379	0000	-5790.	18.63	57.00	3.38
080479	0000	-4350.	17.55	58.08	2.30
080579	0000	-2910.	16.71	58.92	1.46
080679	1020	-1330.	15.83	59.80	.58
080779	0759	-90.	15.25	60.38	.00
080779	0854	24.	19.48	56.15	4.23
080779	0949	79.	22.35	53.28	7.10
080779	1044	138.	23.07	52.56	7.82
080779	1203	213.	23.83	52.20	8.18
080779	1250	260.	23.60	52.03	8.35
080779	1345	315.	23.82	51.81	8.57
080779	1440	370.	23.93	51.70	8.68
080779	1512	402.	23.98	51.65	8.73
080779	1812	582.	24.26	51.37	9.01
080779	2110	760.	24.55	51.08	9.30
080779	2300	870.	24.61	51.02	9.36
080879	0130	1020.	24.90	50.73	9.65
080879	0515	1245.	24.93	50.70	9.68
080879	0830	1440.	24.75	50.88	9.50
080879	1400	1770.	26.74	48.89	11.49
080879	2110	2200.	28.92	46.71	13.67
080979	0300	2550.	29.76	45.87	14.51
080979	0845	2895.	30.77	44.86	15.52
080979	1730	3420.	31.70	43.93	16.45
081079	0045	3855.	29.95	45.70	14.68
081079	0730	4260.	30.06	45.57	14.81
081079	1220	4550.	30.14	45.49	14.89
081079	1845	4935.	32.47	43.16	17.22
081179	0030	5280.	32.49	43.14	17.24
081179	0630	5640.	32.77	42.86	17.52
081179	1350	6090.	33.11	42.52	17.86
081179	1845	6375.	33.35	42.28	18.10
081279	0030	6720.	33.59	42.04	18.34
081279	0630	7080.	33.76	41.87	18.51
081279	1345	7515.	34.20	41.43	18.95
081279	1845	7805.	34.40	41.23	19.15
081379	0015	8145.	34.38	41.25	19.13
081379	0645	8535.	34.72	40.91	19.47
081379	1320	8930.	35.00	40.63	19.75
081379	2030	9360.	35.32	40.31	20.07
081479	0015	9585.	35.34	40.29	20.09
081479	0645	9975.	35.39	40.24	20.14
081479	1900	10310.	35.71	39.92	20.46
081579	080	11490.	36.12	39.51	20.87
081579	1[illegible]	12110.	36.45	39.18	21.20
081679	[illegible]	12985.	37.01	38.62	21.76
081679	1[illegible]	13580.	36.74	38.89	21.49
081779	07[illegible]	14335.	36.65	38.98	21.40

2-4C-75

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-3A	75.63	15.25	550713N 271W00E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1850	15020.	36.75	38.88	21.50
081879	0725	15775.	36.97	38.66	21.72
081879	1900	16870.	37.18	38.49	21.89
081979	0935	17345.	37.41	38.22	22.16
081979	1910	17920.	37.66	37.97	22.41
082079	0720	18650.	37.95	37.68	22.70
082079	1900	19350.	38.10	37.53	22.85
082179	0720	20090.	38.10	37.53	22.85
082179	1920	20810.	38.11	37.52	22.86
082279	1810	22180.	38.40	37.23	23.15
082479	1815	23626.	38.74	36.89	23.49
082479	1900	25110.	38.61	37.02	23.36
082579	1720	26450.	39.40	36.23	24.15
082679	1825	27955.	40.99	34.64	25.74
082779	1830	29400.	41.57	34.06	26.32
082879	1840	30850.	41.37	34.26	26.12
082979	1835	32286.	41.43	34.20	26.18
083079	1835	33725.	41.11	34.52	25.86
083179	1600	35010.	40.69	34.94	25.44
090179	0945	36075.	41.00	34.63	25.75
090279	0945	37515.	40.77	34.86	25.52
090379	0950	38960.	40.42	35.21	25.17
090479	1445	40695.	39.75	35.88	24.50
090579	1400	42090.	39.96	35.67	24.71
090779	1725	45175.	38.07	37.56	22.82
090979	0915	47565.	37.67	37.96	22.42
091179	0825	50395.	37.75	37.88	22.50
091379	0845	53295.	37.99	37.64	22.74
091579	1125	56335.	39.03	36.21	24.18
091779	1425	59395.	40.34	35.29	25.09
091979	1145	62115.	41.01	34.62	25.76
092179	0910	64840.	38.96	36.67	23.71
092579	1325	70855.	38.06	37.57	22.81
092779	0835	73485.	37.57	38.06	22.32
092979	1450	76200.	37.40	38.23	22.15
100179	1410	79540.	37.08	38.55	21.83
100379	1040	82210.	35.55	40.08	20.30
100579	1310	85240.	36.32	39.31	21.07
100779	1000	88170.	36.82	38.81	21.57
100979	0900	90790.	37.53	38.10	22.28
101179	1245	93655.	38.31	37.32	23.06
101679	1825	101395.	40.75	34.88	25.50
101879	1355	104005.	41.83	33.80	26.58
102079	1005	106895.	42.70	32.93	27.45
102279	1340	109750.	42.54	33.09	27.30
102479	1425	112675.	42.78	32.85	27.53
102679	0815	115185.	43.14	32.49	27.89
102879	1555	118525.	44.32	31.31	29.07
103079	0920	121010.	44.93	30.70	29.68
110179	1145	124035.	45.61	30.02	30.36

2.4C-76

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
RR-3A	75.63	15.25	550713Y	2714048	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110279	0930	125340.	46.20	29.43	30.95
110879	0805	128135.	46.95	28.68	31.70
110679	0805	131015.	47.76	28.07	32.31
110879	0815	133905.	47.98	27.69	32.69
111379	1030	141280.	46.17	29.46	30.92
111679	0800	145410.	45.00	30.63	29.75
112679	0940	159910.	43.97	32.16	28.22
112979	0945	168235.	42.63	33.00	27.38
121079	1140	180190.	36.30	39.33	21.05
121379	1400	184650.	36.48	39.15	21.23

2.4C-77

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
RW-3B	76.09	15.12	550650N	271650E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	19.75	56.34	4.63
080279	0000	-7230.	19.32	56.77	4.20
080379	0000	-5790.	18.82	57.27	3.70
080479	0000	-4350.	17.38	58.71	2.26
080579	0000	-2910.	16.54	59.55	1.42
080679	1015	-1335.	15.67	60.42	.55
080779	0748	-82.	15.12	60.97	.00
080779	0850	20.	19.20	56.89	4.08
080779	0951	81.	21.50	54.59	6.38
080779	1050	140.	21.73	54.36	6.61
080779	1205	215.	21.55	54.54	6.43
080779	1254	264.	22.20	53.89	7.08
080779	1350	320.	22.35	53.74	7.23
080779	1445	375.	22.45	53.64	7.33
080779	1545	435.	22.57	53.52	7.45
080779	1815	585.	22.87	53.22	7.75
080779	2115	765.	23.11	52.98	7.99
080779	2300	870.	23.23	52.86	8.11
080879	0130	1020.	23.40	52.69	8.28
080879	0515	1245.	23.62	52.47	8.50
080879	0830	1440.	23.62	52.47	8.50
080879	1400	1770.	24.97	51.12	9.85
080879	2115	2205.	26.78	49.31	11.66
080979	0300	2550.	26.18	49.91	11.06
080979	0845	2895.	28.47	47.62	13.35
080979	1730	3420.	29.35	46.74	14.23
081079	0045	3855.	27.25	48.84	12.13
081079	0730	4260.	28.02	48.07	12.90
081079	1225	4555.	28.16	47.93	13.04
081079	1845	4935.	29.93	46.16	14.81
081179	0030	5280.	30.12	45.97	15.00
081179	0630	5640.	30.42	45.67	15.30
081179	1350	6080.	30.73	45.36	15.61
081179	1840	6370.	30.99	45.10	15.87
081279	0030	6720.	31.28	44.81	16.16
081279	1350	7520.	31.85	44.24	16.73
081279	1835	7805.	32.05	44.04	16.93
081379	0015	8145.	31.33	44.76	16.21
081379	0700	8550.	32.38	43.71	17.26
081379	1320	8930.	32.64	43.45	17.52
081379	2030	9360.	32.90	43.19	17.78
081479	0015	9585.	32.98	43.11	17.86
081479	0645	9975.	33.03	43.06	17.91
081479	1900	10710.	33.40	42.69	18.28
081579	0805	11495.	33.09	43.00	17.97
081579	1825	12115.	34.19	41.90	19.07
081679	0815	12885.	34.90	41.19	19.78
081679	1850	13580.	34.43	41.66	19.31
081779	0725	14335.	34.56	41.53	19.44
081779	1850	15020.	34.67	41.42	19.55

2.4C-78

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
RW-3R	76.09	15.12	550650N	271300E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081879	0725	15775.	34.90	41.19	19.78
081879	1900	16470.	35.07	41.02	19.95
081979	0940	17350.	35.33	40.76	20.21
081979	1910	17920.	35.55	40.54	20.43
082079	0720	18650.	35.83	40.26	20.71
082079	1900	19350.	35.90	40.19	20.78
082179	0720	20090.	36.03	40.06	20.91
082179	1925	20815.	35.67	40.42	20.55
082279	1815	22185.	36.36	39.73	21.24
082379	1815	23625.	35.98	40.11	20.86
082879	1900	25110.	37.28	38.81	22.16
082579	1715	26445.	35.60	40.49	20.48
082679	1825	27955.	39.04	37.05	23.92
082779	1835	29405.	39.56	36.53	24.44
082879	1840	30850.	39.41	36.68	24.29
082979	1835	32285.	39.63	36.46	24.51
083079	1835	33725.	39.21	36.88	24.09
083179	1600	35010.	38.85	37.24	23.73
090179	0950	36080.	39.08	37.01	23.96
090279	0945	37515.	38.77	37.32	23.65
090379	0955	38965.	38.37	37.72	23.25
090479	1450	40700.	37.75	38.34	22.63
090579	1005	42095.	37.15	38.94	22.03
090779	1725	45175.	36.12	39.97	21.00
090979	0915	47565.	35.72	40.37	20.60
091179	0825	50395.	35.78	40.31	20.66
091379	0845	53295.	36.43	39.66	21.31
091579	1120	56330.	37.47	38.62	22.35
091779	1025	59395.	38.52	37.57	23.40
091979	1140	62110.	39.14	36.95	24.02
092179	0915	64845.	37.12	38.97	22.00
092579	1330	70860.	36.14	39.95	21.02
092779	0835	73845.	35.67	40.42	20.55
092979	1450	76700.	35.48	40.61	20.36
100179	1910	79580.	35.16	40.93	20.04
100379	1040	82210.	33.77	42.32	18.65
100579	1310	85240.	34.39	41.70	19.27
100779	1400	88170.	34.85	41.24	19.73
100979	0940	90790.	35.51	40.58	20.39
101179	1245	93855.	36.25	39.84	21.13
101679	1825	101395.	38.00	37.43	23.54
101879	1350	104000.	39.73	36.36	24.61
102079	1005	106695.	40.52	35.57	25.40
102279	1340	109750.	40.88	35.61	25.36
102479	1425	112675.	40.61	35.48	25.49
102679	0815	115185.	40.92	35.17	25.80
102879	1555	118525.	42.01	34.08	26.89
103079	0920	121010.	42.64	33.45	27.52
110179	1145	124035.	43.35	32.74	28.23
110279	0930	125300.	43.32	32.17	28.80

2.4C-79

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
HW-3H	76.09	15.12	5506SON	2713AVE	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110879	08 3	128135.	90.65	31.00	29.53
110879	0805	131015.	45.20	30.89	30.08
110879	0815	133905.	45.57	30.52	30.45
111379	1030	141240.	43.79	32.30	28.67
111679	0800	145410.	42.53	33.56	27.41
112679	0945	159915.	40.79	35.30	25.67
112979	0900	160230.	40.12	35.97	25.00
121079	1140	180190.	33.38	42.71	18.26
121379	1000	188650.	33.65	42.44	18.53

2.4C-80

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-5A	77.08	18.39	553095N 272382E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	22.50	54.58	4.16
080279	0000	-7230.	22.27	54.81	3.93
080379	0000	-5790.	21.51	55.57	3.17
080479	0000	-4350.	20.80	56.28	2.46
080579	0000	-2910.	19.73	57.35	1.39
080679	1105	-1285.	18.72	58.36	.38
080779	0754	-36.	18.34	58.74	.00
080779	0857	27.	18.29	58.79	-.05
080779	1006	96.	18.25	58.83	-.09
080779	1103	153.	22.15	54.93	3.81
080779	1230	240.	22.68	54.40	4.34
080779	1335	305.	23.02	54.06	4.68
080779	1431	361.	23.21	53.87	4.87
080779	1532	422.	23.37	53.71	5.03
080779	1635	485.	23.56	53.52	5.22
080779	1808	618.	23.90	53.18	5.56
080779	2048	7[illegible].	24.10	52.98	5.76
080779	2249	859.	24.19	52.89	5.85
080879	0100	990.	24.35	52.73	6.01
080879	0500	1230.	24.58	52.50	6.24
080879	0815	1425.	24.69	52.39	6.35
080879	1330	1740.	25.69	51.39	7.35
080879	2200	2250.	27.60	49.48	9.26
080979	0300	2550.	28.26	48.82	9.92
080979	0830	2880.	28.65	48.43	10.31
080979	1800	3450.	29.20	47.88	10.86
081079	0030	3840.	29.12	47.96	10.78
081079	0730	4260.	28.51	48.57	10.17
081079	1245	4575.	28.72	48.36	10.38
081079	1905	4955.	29.55	47.53	11.21
081179	0030	5280.	29.77	47.31	11.43
081179	0615	5625.	30.02	47.06	11.68
081179	1410	6100.	30.15	46.93	11.81
081179	1900	6390.	30.34	46.74	12.00
081279	0030	6720.	30.44	46.64	12.10
081279	0630	7080.	30.75	46.33	12.41
081279	1255	7465.	31.11	45.97	12.77
081279	1900	7830.	31.14	45.94	12.80
081279	2400	8130.	30.45	46.63	12.11
081379	0630	8520.	31.46	45.62	13.12
081379	1300	8910.	31.60	45.48	13.26
081379	2050	9360.	31.72	45.36	13.38
081479	0015	9585.	31.81	45.27	13.47
081479	0645	9975.	31.82	45.26	13.48
081479	1835	10685.	31.77	45.31	13.43
081579	0745	11875.	32.80	44.28	14.46
081579	1810	12100.	33.02	44.06	14.68
081679	0735	12905.	33.65	43.43	15.31
081679	1830	13560.	34.00	43.08	15.66
081779	0705	14315.	34.48	42.60	16.14

2.4C-81

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-5A	77.08	18.30	5550950N 2725826E	080779	0830

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1830	15000.	32.08	45.00	13.78
081879	0710	15760.	34.91	42.17	16.57
081879	1800	16050.	35.25	41.85	16.89
081979	0920	17330.	35.61	41.47	17.27
081979	1900	17910.	35.88	41.20	17.50
082079	0710	18600.	35.97	41.11	17.63
082079	1850	19300.	36.08	41.00	17.78
082179	0710	20080.	36.24	40.84	17.90
082179	1910	20800.	33.38	43.70	15.08
082279	1800	22170.	32.14	44.94	13.80
082379	1805	23615.	33.63	43.45	15.29
082479	1805	25055.	35.79	41.29	17.45
082579	1755	26485.	37.63	39.45	19.29
082679	1810	27940.	38.71	38.37	20.37
082779	1815	29385.	37.00	39.68	19.06
082879	1815	30825.	37.64	39.04	19.30
082979	1810	32260.	38.69	38.39	20.35
083079	1815	33705.	36.71	40.37	18.37
083179	1550	35000.	32.38	44.70	14.08
090179	0935	36065.	31.25	45.83	12.91
090279	0930	37500.	30.38	46.70	12.08
090379	0940	38950.	29.92	47.16	11.58
090479	1020	40470.	31.46	45.62	13.12
090579	1345	42075.	30.00	47.08	11.66
090779	1655	45145.	31.95	45.13	13.61
090979	0830	47520.	32.65	44.43	14.31
091179	0900	50430.	30.31	46.77	11.97
091379	0810	53260.	33.77	43.31	15.43
091579	1200	56570.	32.97	44.11	14.63
091779	1510	59440.	36.32	40.76	17.98
091979	1240	62170.	38.23	38.85	19.89
092179	0825	64795.	38.02	39.06	19.68
092579	1055	70705.	33.57	43.51	15.23
092779	1015	73545.	32.78	44.30	14.44
092979	1540	76740.	33.20	43.88	14.86
100179	1440	79570.	32.69	44.39	14.35
100579	1055	82225.	27.20	49.88	8.86
100579	1320	85250.	29.30	47.78	10.96
100779	1435	88205.	31.17	45.91	12.83
100979	1015	90825.	32.04	45.04	13.70
101179	1315	93885.	33.06	44.02	14.72
101679	1855	101425.	30.73	46.35	12.39
101879	1455	104065.	37.31	39.77	18.97
102079	1525	106975.	38.32	38.76	19.98
102279	1455	109825.	39.20	37.88	20.86
102479	1740	112870.	39.57	37.51	21.23
102679	0840	115210.	37.66	39.42	19.32
102879	1625	118555.	37.04	40.04	18.70
103079	1000	121050.	34.33	42.75	15.99
110179	1200	124050.	34.25	42.83	15.91

2.4C-82

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-5A	77.08	14.39	553095N 2723R2E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110279	1020	125390.	57.43	39.65	19.09
110479	0850.	128180.	42.68	34.40	24.34
110679	0910	131080.	41.67	35.41	23.33
110879	0850	133980.	43.95	33.13	25.61
111379	1120	141290.	42.14	34.94	23.80
111679	0845	145455.	40.93	36.15	22.59
112079	1045	159975.	37.77	39.31	19.43
112979	1030	160280.	35.63	41.45	17.29
121079	1595	180435.	28.52	48.56	10.18
121379	1440	184690.	30.85	46.23	12.51

2.4C-83

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
RW-SH	77.08	19.05	553035N	272255E	080779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	23.13	53.95	4.08
080279	0000	-7230.	22.92	54.16	3.87
080379	0000	-5790.	22.20	54.88	3.15
080479	0000	-4350.	21.48	55.60	2.43
080579	0000	-2910.	20.82	56.26	1.77
080679	1110	-1280.	19.41	57.67	.36
080779	0757	-33.	19.05	58.03	.00
080779	0859	29.	19.00	58.08	-.05
080779	1010	100.	18.95	58.13	-.10
080779	1104	154.	21.99	55.09	2.94
080779	1215	225.	22.50	54.58	3.45
080779	1239	249.	22.83	54.25	3.78
080779	1438	368.	23.02	54.06	3.97
080779	1538	428.	23.18	53.90	4.13
080779	1640	490.	23.36	53.72	4.31
080779	1850	620.	23.64	53.44	4.59
080779	2047	737.	23.90	53.18	4.85
080779	2253	863.	24.00	53.08	4.95
080879	0100	990.	24.13	52.95	5.08
080879	0500	1230.	24.39	52.69	5.34
080879	0815	1425.	24.46	52.62	5.41
080879	1335	1745.	25.25	51.83	6.20
080879	2200	2250.	26.97	50.11	7.92
080979	0300	2550.	26.35	50.73	7.30
080979	0830	2880.	27.92	49.16	8.87
080979	1805	3455.	28.52	48.56	9.47
081079	0030	3840.	28.24	48.84	9.19
081079	0730	4260.	27.96	49.12	8.91
081079	1250	4580.	28.17	48.91	9.12
081079	1905	4955.	28.91	48.17	9.86
081179	0030	5280.	29.12	47.96	10.07
081179	0615	5625.	29.94	47.14	10.89
081179	1010	6100.	29.53	47.55	10.48
081179	1855	6385.	29.71	47.37	10.66
081279	0030	6720.	29.88	47.20	10.83
081279	0630	7080.	30.12	46.96	11.07
081279	1300	7470.	30.49	46.59	11.44
081279	1855	7825.	30.56	46.52	11.51
081279	2000	8130.	29.98	47.10	10.93
081379	0645	8535.	30.83	46.25	11.78
081379	1300	8910.	31.05	46.03	12.00
081379	2050	9380.	31.21	45.87	12.16
081479	0015	9585.	31.26	45.82	12.21
081479	0645	9975.	31.28	45.80	12.23
081479	1800	10690.	31.27	45.81	12.22
081579	0745	11475.	31.90	45.18	12.85
081579	1815	12105.	32.08	44.60	13.03
081679	0700	12910.	33.07	44.01	14.02
081679	1830	13560.	33.42	43.66	14.37
081779	0710	14520.	33.93	43.15	14.88

2.4C-84

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
RM-5R	77.00	19.05	553035N	272358E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1835	15005.	32.07	45.01	13.02
081879	0715	15765.	34.40	42.68	15.35
081879	1840	16450.	34.60	42.40	15.63
081979	0920	17330.	35.06	42.02	16.01
081979	1900	17910.	35.32	41.76	16.27
082079	0710	18640.	35.44	41.64	16.39
082079	1850	19340.	35.55	41.53	16.50
082179	0710	20080.	35.71	41.37	16.66
082179	1915	20805.	33.08	43.00	14.43
082279	1800	22170.	32.15	44.93	13.10
082379	1805	23615.	33.30	43.78	14.25
082479	1810	25060.	35.33	41.75	16.28
082579	1755	26485.	37.12	39.96	18.07
082679	1810	27940.	38.20	38.88	19.15
082779	1815	29385.	37.29	39.79	18.24
082879	1815	30825.	37.19	39.89	18.14
082979	1815	32265.	38.20	38.88	19.15
083079	1815	33705.	36.45	40.63	17.40
083179	1550	35000.	32.58	44.50	13.53
090179	0940	36070.	31.42	45.66	12.37
090279	0935	37505.	30.56	46.52	11.51
090379	0945	38955.	30.12	46.96	11.07
090479	1025	40475.	31.15	45.93	12.10
090579	1450	42140.	30.21	46.87	11.16
090779	1655	45185.	31.50	45.52	12.51
090979	0830	47520.	32.21	44.87	13.16
091179	0900	50430.	30.42	46.66	11.37
091379	0810	53260.	33.30	43.78	14.25
091579	1200	56370.	33.08	44.00	14.03
091779	1510	59480.	35.96	41.12	16.91
091979	1240	62170.	37.84	39.24	18.79
092179	0825	64795.	37.71	39.37	18.66
092579	1055	70705.	33.27	43.81	14.22
092779	1015	73545.	32.46	44.62	13.41
092979	1530	76740.	32.84	44.20	13.83
100179	1440	79570.	32.37	44.71	13.32
100379	1055	82225.	27.49	49.59	8.44
100579	1320	85250.	29.12	47.96	10.07
100779	1435	88205.	30.91	46.17	11.86
100979	1015	90825.	31.71	45.37	12.66
101179	1315	93885.	32.76	44.32	13.71
101679	1855	101425.	30.98	46.10	11.93
101879	1850	104060.	36.81	40.27	17.76
102079	1525	106475.	37.83	39.25	18.78
102279	1855	109825.	38.71	38.37	19.66
102479	1740	112870.	39.06	38.02	20.01
102679	0840	115210.	37.80	39.28	18.75
102879	1625	118555.	36.91	40.17	17.86
103079	1000	121050.	34.53	42.55	15.48
110179	1200	124050.	34.54	42.54	15.49

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
RW-5M	77.00	14.05	SSSU55N 2125ME	080779	0850

2.4C-85

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110279	1020	125390.	33.05	44.05	11.00
110479	0850	124180.	42.10	34.90	25.05
110679	0910	131080.	41.20	35.80	22.15
110879	0950	134000.	43.40	33.60	24.35
111379	1120	141280.	41.54	35.46	22.50
111679	0845	145455.	40.34	36.74	21.29
112079	1040	159970.	37.37	34.71	18.32
112979	1030	164280.	35.23	41.85	16.18
121079	1505	180435.	27.90	44.10	8.85
121379	1440	184090.	30.00	47.00	10.95

2.UC-86

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-6A	71.22	+11.17	549611N 271171E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	15.87	55.35	4.70
080279	0000	-7230.	15.58	55.64	4.41
080379	0000	-5790.	14.80	56.42	3.63
080479	0000	-4350.	13.57	57.65	2.40
080579	1015	-2535.	12.58	58.64	1.41
080679	0950	-1360.	11.90	59.32	.73
080779	0739	-51.	11.17	60.05	.00
080779	0906	36.	11.26	59.96	.09
080779	1020	90.	11.29	59.93	.12
080779	1100	150.	11.40	59.82	.23
080779	1218	228.	11.53	59.69	.36
080779	1311	281.	11.57	59.65	.40
080779	1408	338.	11.58	59.64	.41
080779	1500	390.	11.61	59.61	.44
080779	1600	450.	11.64	59.53	.52
080779	1830	600.	11.83	59.39	.66
080779	2128	778.	11.90	59.32	.73
080779	2320	890.	11.94	59.28	.77
080879	0130	1020.	11.85	59.37	.68
080879	0545	1275.	11.92	59.30	.75
080879	0830	1440.	11.94	59.28	.77
080879	1420	1790.	12.02	59.20	.85
080879	2050	2180.	12.18	59.04	1.01
080979	0300	2550.	12.26	58.96	1.09
080979	0900	2910.	12.36	58.86	1.19
080979	1710	3400.	12.53	58.69	1.36
081079	0100	3870.	12.54	58.68	1.37
081079	0800	4290.	12.54	58.68	1.37
081079	1210	4590.	12.72	58.50	1.55
081079	1825	4915.	12.85	58.37	1.68
081179	0100	5310.	12.92	58.30	1.75
081179	0645	5655.	13.02	58.20	1.85
081179	1335	6065.	13.16	58.06	1.99
081179	1825	6355.	13.30	57.92	2.13
081279	0045	6735.	13.52	57.70	2.35
081279	0700	7110.	13.68	57.54	2.51
081279	1400	7530.	13.90	57.32	2.73
081279	1820	7790.	14.04	57.18	2.87
081379	0030	8160.	14.13	57.09	2.96
081379	0700	8550.	14.56	56.66	3.39
081379	1335	8945.	14.78	56.44	3.61
081379	2015	9345.	15.05	56.17	3.88
081479	0030	9600.	15.19	56.03	4.02
081479	0700	9990.	15.22	56.00	4.05
081479	1915	10725.	15.62	55.60	4.45
081579	0825	11515.	15.95	55.27	4.78
081579	1835	12125.	16.22	55.00	5.05
081679	0800	12930.	16.59	54.63	5.42
081679	1905	13595.	16.92	54.30	5.75
081779	0700	14350.	17.06	54.16	5.89

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	STAND DATE	STAND TIME
Pw-84	71.22	11.17	SAVALIN : 2111TIE	UNUTIV	UNSU

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1910	15080.	17.82	53.80	6.25
081879	0745	15795.	17.69	53.53	6.52
081879	1920	16890.	17.80	53.82	6.63
081979	1000	17370.	18.08	53.14	6.91
081979	1910	17940.	18.17	53.05	7.00
082079	0740	18670.	18.37	52.85	7.20
082079	1920	19370.	18.53	52.69	7.36
082179	0740	20110.	18.70	52.52	7.53
082179	1935	20825.	18.84	52.38	7.67
082279	1825	22195.	19.19	52.03	8.02
082379	1825	23636.	19.43	51.59	8.46
082479	1930	25140.	19.59	51.63	8.42
082579	1700	26430.	20.13	51.09	8.96
082679	1850	27980.	21.72	49.50	10.55
082779	1900	29830.	22.32	48.90	11.15
082879	1850	30860.	22.61	48.61	11.44
082979	1850	32300.	22.55	48.67	11.38
083079	1845	33735.	21.46	49.76	10.29
083179	1625	35035.	20.96	50.26	9.79
090179	1050	36140.	21.08	50.14	9.91
090279	1000	37530.	20.54	50.68	9.37
090379	1010	38980.	19.92	51.30	8.75
090479	1605	40716.	19.42	51.80	8.25
090579	1420	42110.	19.00	52.22	7.83
090779	1755	45205.	17.98	53.28	6.77
090979	0940	47590.	17.55	53.67	6.38
091179	0755	50365.	17.98	53.29	6.81
091379	0910	53320.	18.99	52.23	7.82
091579	1100	56310.	20.08	51.22	8.83
091779	1350	59360.	21.19	50.03	10.02
091979	1115	62085.	22.08	49.18	10.91
092179	1130	64980.	21.52	49.70	10.35
092579	1350	70880.	18.51	52.71	7.34
092779	0820	73430.	17.96	53.26	6.79
092879	1430	74680.	17.54	53.70	6.35
100179	1330	79500.	17.60	53.62	6.43
100379	1235	82325.	17.05	54.17	5.88
100579	1710	85480.	16.67	54.55	5.50
100779	1335	88185.	16.97	54.25	5.80
100979	0915	90765.	18.18	53.04	7.01
101179	1220	93830.	19.07	52.15	7.90
101679	1805	101375.	21.41	49.81	10.24
101879	1320	103970.	22.29	48.93	11.12
102079	1335	106865.	22.45	48.77	11.28
102279	1315	109725.	22.91	48.31	11.74
102479	1700	112850.	23.24	47.98	12.07
102679	0755	115145.	23.37	47.85	12.20
102879	1535	118505.	24.10	47.12	12.93
103079	0940	120990.	25.39	45.83	14.22
110279	0905	125315.	26.73	44.49	15.56

6.4C-81

2.4C-88

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-04	71.22	13.17	549011N 2711718E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110979	0740	128110.	29.94	44.28	15.77
110679	0745	130995.	27.43	43.79	16.26
110879	0750	133080.	27.71	43.51	16.54
111379	1000	141210.	25.67	45.55	14.50
111879	0725	145175.	24.21	46.95	13.10
112079	1015	159405.	22.04	49.18	10.87
112979	0915	169205.	21.23	49.99	10.06
121079	1100	180150.	13.59	57.83	2.22
121379	1335	184625.	13.47	57.25	2.80

2.4C-89

WELL NO.	ELEV OF MEAS PT. (FT, MSL)	STATIC WATER LEVEL (FT)	COORDINATES	START DATE	START TIME
PW-6H	70.91	10.61	549581N : 271065E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED (MIN)	DEPTH TO WATER (FT)	WATER LEVEL ELEV (FT, MSL)	DRAWDOWN (FT)
080179	0000	-8670.	15.46	55.45	4.85
080279	0000	-7230.	15.08	55.83	4.47
080379	0000	-5790.	14.17	56.74	3.56
080479	0000	-4350.	12.90	58.01	2.29
080579	1415	-2535.	11.81	59.10	1.20
080679	0945	-1365.	11.18	59.73	.57
080779	0909	39.	10.61	60.30	.00
080779	1003	93.	10.64	60.27	.03
080779	1102	152.	10.72	60.19	.11
080779	1215	225.	10.81	60.10	.20
080779	1310	280.	10.83	60.08	.22
080779	1405	335.	10.87	60.04	.26
080779	1455	385.	10.93	59.98	.32
080779	1555	445.	10.96	59.95	.35
080779	1825	595.	11.03	59.88	.42
080779	2126	776.	11.10	59.81	.49
080779	2315	885.	11.09	59.82	.48
080879	0130	1020.	11.03	59.88	.42
080879	0545	1275.	10.97	59.94	.36
080879	0830	1440.	11.02	59.89	.41
080879	1820	1790.	11.20	59.71	.59
080879	2045	2175.	11.29	59.62	.68
080979	0300	2550.	11.30	59.61	.69
080979	0900	2910.	11.43	59.48	.82
080979	1710	3400.	11.59	59.32	.98
081079	0100	3870.	11.49	59.42	.88
081079	0800	4290.	11.63	59.28	1.02
081079	1210	4540.	11.78	59.13	1.17
081079	1825	4915.	11.90	59.01	1.29
081179	0100	5310.	11.92	58.99	1.31
081179	0645	5655.	12.06	58.85	1.45
081179	1330	6060.	12.15	58.76	1.54
081179	1820	6350.	12.32	58.59	1.71
081279	0045	6735.	12.54	58.37	1.93
081279	0700	7110.	12.67	58.24	2.06
081279	1405	7535.	12.89	58.02	2.28
081279	1825	7795.	13.02	57.89	2.41
081379	0030	8160.	13.09	57.82	2.48
081379	0700	8550.	13.55	57.36	2.94
081379	1335	8945.	13.81	57.10	3.20
081379	2015	9345.	14.12	56.79	3.51
081479	0030	9600.	14.18	56.73	3.57
081479	0700	9990.	14.22	56.69	3.61
081479	1920	10730.	14.69	56.22	4.08
081579	0820	11510.	15.00	55.91	4.39
081579	1835	12125.	15.32	55.59	4.71
081679	0800	12930.	15.66	55.25	5.05
081679	1910	13600.	15.99	54.92	5.38
081779	0745	14355.	16.37	54.54	5.76
081779	1910	15040.	16.54	54.37	5.93

2.4C-90

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-6M	70.91	18.81	5495AIN - P7106SE	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081879	0745	15795.	16.76	54.15	6.15
081879	1920	16490.	16.90	54.01	6.29
081979	1000	17370.	17.14	53.77	6.53
081979	1930	17940.	17.21	53.70	6.60
082079	0740	18670.	17.45	53.46	6.84
082079	1920	19370.	17.61	53.30	7.00
082179	0740	20110.	17.76	53.15	7.15
082179	1935	20825.	17.90	53.01	7.29
082279	1825	22195.	18.27	52.64	7.66
082379	1825	23635.	18.66	52.25	8.05
082479	1940	25180.	18.71	52.20	8.10
082579	1700	26430.	20.03	50.88	9.42
082679	1850	27980.	20.90	50.01	10.29
082779	1900	29430.	21.56	49.35	10.95
082879	1850	30880.	21.15	49.76	10.54
082979	1850	32300.	20.97	49.94	10.36
083079	1845	33735.	20.87	50.04	9.86
083179	1625	35035.	19.71	51.20	9.10
090179	1055	36185.	19.68	51.03	9.27
090279	0955	37525.	19.29	51.62	8.68
090379	1010	38980.	18.67	52.24	8.06
090479	1505	40715.	18.25	52.66	7.64
090579	1815	42105.	17.58	53.33	6.97
090779	1755	45205.	16.57	54.34	5.96
090979	0940	47590.	16.21	54.70	5.60
091179	0755	50305.	16.71	54.20	6.10
091379	0910	53320.	17.81	53.10	7.20
091579	1100	56310.	18.97	51.94	8.36
091779	1350	59300.	20.25	50.66	9.64
091979	1115	62045.	21.15	49.76	10.54
092179	1130	64980.	20.43	50.48	9.82
092579	1350	70880.	17.21	53.70	6.60
092779	0820	73430.	16.65	54.26	6.04
092979	1830	76680.	16.15	54.76	5.54
100179	1330	79500.	16.31	54.60	5.70
100379	1235	82325.	15.80	55.11	5.19
100579	1710	85480.	15.55	55.36	4.94
100779	1335	88185.	15.72	55.19	5.11
100979	0915	90765.	17.08	53.83	6.47
101179	1220	93830.	18.04	52.87	7.43
101679	1845	101375.	20.50	50.41	9.89
101879	1320	103970.	21.43	49.48	10.82
102079	1335	106865.	21.43	49.48	10.82
102279	1315	109725.	21.93	48.98	11.32
102479	1700	112830.	22.22	48.69	11.61
102679	0755	115165.	22.46	48.45	11.87
102879	1535	118505.	23.14	47.77	12.53
110379	0900	165630.	24.61	46.30	14.00
110279	0905	125315.	25.97	44.94	15.36
110479	0740	128110.	26.14	44.77	15.53

2.4C-91

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	LOCATION	START DATE	START TIME
PW-8R	70.91	10.81	5845RIN * 2710A5E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110879	0745	130995.	26.55	44.36	15.98
110879	0750.	133840.	26.72	44.19	16.11
111379	1000	141210.	20.08	50.83	13.87
111679	0725	145375.	22.91	48.00	12.30
112079	1010	150480.	20.71	50.20	10.10
112979	0915	164205.	19.78	51.13	9.17
121079	1100	180150.	11.91	59.00	1.30
121379	1335	184625.	12.65	58.26	2.04

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-7A	72.36	12.79	551180N' 2114012E	080779	0830

2.4C-72

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	16.02	50.34	3.28
080279	0000	-7230.	15.85	50.51	3.11
080379	0000	-5790.	15.34	51.02	2.60
080479	0000	-4350.	14.65	51.71	1.91
080579	1400	-2550.	13.97	52.39	1.23
080679	1050	-1300.	13.31	53.05	.57
080779	0804	-26.	12.74	53.62	.00
080779	0909	39.	13.27	53.09	.53
080779	1020	110.	13.75	52.61	1.01
080779	1118	168.	13.96	52.40	1.22
080779	1253	263.	14.18	52.18	1.44
080779	1356	326.	14.28	52.08	1.54
080779	1500	390.	14.37	51.99	1.63
080779	1548	438.	14.43	51.93	1.69
080779	1653	503.	14.51	51.85	1.77
080779	1904	634.	14.64	51.72	1.90
080779	2100	750.	14.78	51.58	2.04
080779	2330	900.	14.85	51.51	2.11
080879	0145	1035.	14.94	51.42	2.20
080879	0600	1290.	14.92	51.44	2.18
080879	0930	1500.	15.12	51.24	2.38
080879	1350	1760.	15.38	50.98	2.64
080879	2120	2210.	15.88	50.48	3.14
080979	0330	2580.	16.13	50.23	3.39
080979	0900	2910.	16.41	49.95	3.67
080979	1750	3440.	16.70	49.66	3.96
081079	0115	3885.	16.60	49.76	3.86
081079	0845	4335.	16.79	49.57	4.05
081079	1235	4565.	16.80	49.56	4.06
081079	1850	4940.	17.14	49.22	4.40
081179	0100	5310.	17.38	48.98	4.64
081179	0630	5640.	17.53	48.83	4.79
081179	1355	6085.	17.64	48.72	4.90
081179	1850	6380.	17.85	48.51	5.11
081279	0100	6750.	17.93	48.43	5.19
081279	0715	7125.	18.02	48.34	5.28
081279	1315	7485.	18.41	47.95	5.67
081279	1845	7815.	18.59	47.77	5.85
081379	0045	8175.	18.69	47.67	5.95
081379	0715	8565.	18.95	47.41	6.21
081379	1315	8925.	19.06	47.30	6.32
081379	2045	9375.	19.34	47.02	6.60
081479	0100	9630.	19.32	47.04	6.58
081479	0700	9990.	19.46	46.90	6.72
081479	1855	10705.	19.65	46.71	6.91
081579	0755	11485.	20.02	46.34	7.28
081579	1840	12130.	20.26	46.10	7.52
081679	0820	12950.	20.67	45.69	7.93
081679	1920	13610.	20.92	45.44	8.18
081779	0755	14365.	21.12	45.24	8.38

2.4C-93

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-7A	72.36	12.78	551180N - 2714678	080779	0830

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1930	15060.	21.27	51.09	8.51
081879	0800	15810.	21.51	50.85	8.75
081879	1940	16510.	21.68	50.68	8.92
081979	1010	17380.	21.95	50.41	9.21
081979	1940	17960.	22.13	50.23	9.39
082079	0755	18685.	22.32	50.04	9.58
082079	1935	19385.	22.51	49.85	9.77
082179	0755	20125.	22.71	49.65	9.97
082179	2005	20855.	22.91	49.45	10.17
082279	1835	22205.	23.12	49.24	10.38
082379	1835	23605.	23.33	49.03	10.59
082479	1815	25085.	23.90	48.46	11.16
082579	1750	26480.	24.06	48.30	11.32
082679	1815	27945.	25.07	47.29	12.33
082779	1825	29395.	25.60	46.76	12.86
082879	1825	30835.	25.91	46.45	13.17
082979	1825	32275.	26.06	46.30	13.32
083079	1825	33715.	25.35	47.01	12.61
083179	1655	35065.	25.14	47.22	12.40
090179	1235	36285.	25.62	46.74	12.88
090279	0935	37505.	25.54	46.82	12.80
090379	1035	39005.	25.92	46.44	12.68
090479	1440	40490.	25.08	47.16	12.24
090579	1400	42090.	24.79	47.57	12.05
090779	1700	45150.	24.03	48.33	11.29
090979	0840	47530.	23.83	48.53	11.09
091179	0850	50420.	23.68	48.68	10.98
091379	0920	53270.	24.09	48.27	11.35
091579	1150	56360.	24.74	47.57	12.05
091779	1455	59425.	25.50	46.86	12.76
091979	1225	62155.	26.14	46.17	13.45
092179	0850	64920.	25.81	46.55	13.07
092579	1300	70630.	24.52	47.84	11.78
092779	1005	73535.	24.09	48.27	11.35
092979	1515	76725.	23.86	48.50	11.12
100179	1430	79560.	23.56	48.80	10.82
100379	1310	82360.	22.84	49.47	10.15
100579	1740	85510.	22.78	49.58	10.04
100779	1625	88195.	22.96	49.40	10.22
100979	1005	90815.	23.33	49.03	10.59
101179	1305	93675.	23.81	48.55	11.07
101679	1845	101415.	25.90	46.96	12.66
101879	1935	104095.	26.13	46.23	13.39
102079	1515	106965.	26.86	45.50	14.12
102279	1440	109810.	27.30	45.06	14.56
102479	1725	112855.	27.61	44.75	14.87
102679	0830	115200.	27.84	44.52	15.10
102879	1615	118545.	28.69	43.67	15.95
103079	0950	121080.	29.22	43.14	16.48
110279	1010	125340.	30.03	42.33	17.29

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PM-7A	72.36	12.19	551140N 2714078	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110979	0835	128165.	30.72	41.64	17.98
110679	0900	131070.	31.51	41.05	16.57
110879	0835	133425.	31.92	40.54	19.08
111379	1100	141270.	31.94	40.42	18.70
111679	0835	145885.	30.63	41.73	17.89
112679	0920	159890.	29.14	43.22	16.40
112979	1015	169265.	28.91	43.45	15.67
121079	1240	180250.	21.73	50.63	8.99
121379	1030	189080.	20.95	51.41	8.21

2.4C-74

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
PW-84	78.43	19.57	552152N	2122222E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8670.	23.08	55.35	3.51
080279	0000	-7230.	22.94	55.49	3.37
080379	0000	-5790.	22.29	56.14	2.72
080479	0000	-4350.	21.74	56.69	2.17
080579	1350	-2560.	20.18	58.25	.61
080679	1100	-1290.	20.00	58.43	.43
080779	0800	-26.	19.57	58.86	.00
080779	0900	34.	19.57	58.86	.00
080779	1015	105.	19.53	58.90	-.04
080779	1111	161.	19.50	58.93	-.07
080779	1246	256.	19.55	58.88	-.02
080779	1349	319.	19.52	58.91	-.05
080779	1455	385.	19.51	58.92	-.06
080779	1542	432.	19.50	58.93	-.07
080779	1647	497.	19.53	58.90	-.04
080779	1858	628.	19.52	58.91	-.05
080779	2055	746.	19.59	58.84	.02
080779	2345	915.	19.60	58.83	.03
080879	0200	1050.	19.52	58.91	-.05
080879	0600	1290.	19.62	58.81	.05
080879	0930	1500.	19.59	58.84	.02
080879	1343	1753.	19.57	58.86	.00
080879	2130	2220.	19.73	58.70	.16
080979	0330	2580.	19.81	58.62	.24
080979	0915	2925.	19.78	58.65	.21
080979	1755	3405.	19.93	58.50	.36
081079	0115	3885.	20.00	58.43	.43
081079	0845	4335.	20.11	58.32	.54
081079	1200	4570.	20.12	58.31	.55
081079	1855	4905.	20.24	58.19	.67
081179	0100	5310.	20.29	58.14	.72
081179	0630	5640.	20.45	57.98	.88
081179	1400	6090.	20.56	57.87	.99
081179	1855	6585.	20.71	57.72	1.14
081279	0100	6750.	20.83	57.60	1.26
081279	0715	7125.	20.96	57.47	1.39
081279	1310	7880.	21.19	57.24	1.62
081279	1850	7520.	21.36	57.07	1.79
081379	0100	8190.	21.54	56.89	1.97
081379	0730	8580.	21.74	56.69	2.17
081379	1310	8920.	21.89	56.54	2.32
081379	2040	9370.	22.16	56.27	2.59
081479	0100	9630.	22.20	56.23	2.63
081479	0715	10005.	22.25	56.18	2.68
081479	1850	10700.	22.55	55.88	2.98
081579	0750	11480.	22.95	55.48	3.38
081579	1815	12105.	23.12	55.31	3.55
081679	0745	12915.	23.59	54.84	4.02
081679	1840	13570.	23.86	54.57	4.29
081779	0715	14325.	24.23	54.20	4.66

2.4C-96

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-8A	78.93	19.57	552152N 2122226E	080779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1040	15410.	29.48	53.49	4.87
081879	0720	15770.	29.75	53.68	5.18
081879	1050	16490.	29.49	53.49	5.37
081979	0930	17340.	25.20	53.15	5.71
081979	1905	17415.	25.81	53.02	5.88
082079	0715	18695.	25.63	52.80	6.06
082079	1855	19395.	25.75	52.80	6.18
082179	0715	20085.	25.95	52.48	6.38
082179	2010	20960.	26.06	52.37	6.49
082279	1840	22210.	26.11	52.32	6.54
082379	1840	23650.	25.87	52.76	6.10
082479	1810	25060.	26.30	52.13	6.73
082579	1740	26470.	27.91	50.52	8.34
082679	1810	27940.	28.62	49.81	9.05
082779	1820	29390.	29.29	49.19	9.67
082879	1820	30850.	29.20	49.23	9.63
082979	1820	32270.	29.02	49.41	9.45
083079	1820	33710.	29.58	49.85	9.01
083179	1555	35005.	27.80	50.57	8.29
090179	1105	36155.	27.25	51.18	7.68
090279	1010	37540.	26.71	51.72	7.14
090379	1040	39010.	26.29	52.14	6.72
090479	1030	40480.	25.87	52.76	6.10
090579	1355	42085.	25.44	52.99	5.87
090779	1055	45145.	29.90	53.47	9.89
090979	0835	47525.	29.54	53.89	9.97
091179	0855	50425.	24.89	53.54	5.32
091379	0940	53350.	25.54	52.89	5.97
091579	1155	56305.	27.02	51.41	7.45
091779	1500	59430.	27.82	50.61	8.25
091979	1230	62160.	29.01	49.42	9.44
092179	0840	64810.	29.01	49.42	9.44
092579	1305	70035.	25.51	52.92	5.94
092779	1010	73540.	25.14	53.29	5.57
092979	1520	76730.	25.10	53.33	5.53
100179	1435	79565.	24.77	53.66	5.20
100379	1315	82365.	24.10	54.33	4.53
100579	1740	85510.	23.74	54.69	4.22
100779	1430	88200.	24.33	54.10	4.76
100979	1010	90820.	24.88	53.55	5.31
101179	1310	93840.	25.58	52.85	6.01
101679	1850	101420.	27.34	51.09	7.77
101879	1445	104055.	29.34	50.09	8.77
102079	1520	106970.	29.12	49.31	9.55
102279	1445	109815.	29.73	48.70	10.16
102479	1730	112860.	30.01	48.42	10.44
102679	0835	115205.	30.35	48.08	10.78
102879	1620	118550.	31.01	47.42	11.44
103079	0955	121045.	31.08	46.45	11.41
110279	1015	125385.	32.09	46.39	12.47

2.WC-97

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
PW-8A	78.83	14.57	552152N 212222E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110879	0805	128175.	93.31	85.12	13.78
110679	0905	131075.	90.08	84.35	14.51
110879	0840	133930.	90.55	83.88	14.98
111379	1110	141280.	93.29	85.14	13.72
111679	0840	145450.	92.09	86.14	12.52
112079	0910	159880.	90.15	88.28	10.58
112979	1025	168275.	79.08	84.39	9.87
121079	1245	180255.	21.52	56.91	1.95
121379	1435	188635.	21.80	56.57	2.29

2.4C-98

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
IM-4	29.21	15.47	550400N 1272175E	080779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080179	0000	-8070.	15.67	58.36	-.30
080279	0000	-7230.	15.77	58.46	-.20
080379	0000	-5790.	15.94	58.29	-.03
080479	0000	-4350.	15.96	58.27	-.01
080579	0000	-2910.	16.00	58.23	.03
080679	1010	-1340.	15.96	58.27	-.01
080779	0745	-95.	15.97	58.26	.00
080779	0900	30.	15.99	58.24	.02
080779	0950	80.	15.96	58.27	-.01
080779	1050	144.	15.98	58.25	.01
080779	1209	213.	15.96	58.27	.01
080779	1300	270.	15.95	58.28	-.02
080779	1400	330.	15.95	58.28	-.02
080779	1450	380.	15.94	58.29	-.03
080779	1550	440.	15.95	58.28	-.02
080779	1820	590.	16.10	58.13	.13
080779	2120	770.	15.98	58.25	.01
080779	2330	900.	16.03	58.20	.06
080879	0145	1035.	16.01	58.22	.04
080879	0545	1275.	16.02	58.21	.05
080879	0900	1470.	16.06	58.17	.09
080879	1410	1780.	16.09	58.14	.12
080879	2150	2240.	16.18	58.05	.21
080979	0330	2580.	16.27	57.96	.30
080979	0900	2910.	16.21	58.02	.24
080979	1720	3410.	16.32	57.91	.35
081079	0100	3870.	16.42	57.81	.45
081079	0800	4290.	16.50	57.73	.53
081079	1415	4865.	16.56	57.67	.59
081079	1835	4925.	16.62	57.61	.65
081179	0100	5310.	16.68	57.55	.71
081179	0645	5655.	16.80	57.43	.83
081179	1345	6075.	16.88	57.37	.89
081179	1835	6365.	16.98	57.29	.97
081279	0045	6735.	17.01	57.20	1.06
081279	0700	7110.	17.13	57.10	1.16
081279	1355	7525.	17.39	56.84	1.42
081279	1830	7800.	17.46	56.77	1.49
081379	0045	8175.	17.54	56.69	1.57
081379	0715	8565.	17.69	56.54	1.72
081379	1325	8935.	17.79	56.44	1.82
081379	2035	9365.	17.92	56.31	1.95
081479	0045	9615.	18.01	56.22	2.04
081479	0700	9990.	18.02	56.21	2.05
081479	1910	10720.	18.17	56.06	2.20
081579	0830	11520.	18.43	55.80	2.46
081579	1835	12125.	18.42	55.81	2.45
081679	0810	12940.	18.89	55.34	2.92
081679	1915	13605.	19.12	55.11	3.15
081779	0750	14360.	19.40	54.83	3.43

2.4C-99

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
TH-4	74.23	15.97	550000N ,271475E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
081779	1920	15050.	19.60	54.63	3.63
081879	0755.	15805.	19.85	54.38	3.88
081879	1930	16500.	20.02	54.21	4.05
081979	1005	17375.	20.33	53.90	4.36
081979	1815	17865.	20.51	53.72	4.54
082079	0745	18675.	20.73	53.50	4.76
082079	1930	19380.	20.93	53.30	4.96
082179	0750	20120.	21.19	53.04	5.22
082179	1845	20835.	21.37	52.86	5.40
082279	1830	22200.	21.75	52.48	5.78
082379	1830	23640.	22.13	52.10	6.16
082479	1905	25115.	21.81	52.42	5.84
082579	1705	26435.	22.18	52.05	6.21
082679	1835	27965.	22.61	51.62	6.64
082779	1845	29415.	23.66	50.57	7.69
082879	1845	30855.	24.07	50.16	8.10
082979	1840	32200.	23.81	50.42	7.84
083079	1840	33730.	24.18	50.05	8.21
083179	1645	35065.	24.47	49.76	8.50
090179	1100	36150.	25.42	48.81	9.45
090279	1005	37535.	25.63	48.60	9.66
090379	1025	38995.	25.88	48.35	9.91
090479	1600	40710.	26.08	48.15	10.11
090579	1410	42100.	26.08	48.15	10.11
090779	1735	45185.	26.35	47.88	10.38
090979	0925	47575.	26.49	47.74	10.52
091179	0820	50390.	26.62	47.61	10.65
091379	0855	53305.	26.77	47.46	10.80
091579	1115	56125.	26.95	47.28	10.98
091779	1410	59380.	27.22	47.01	11.25
091979	1130	62100.	27.49	46.74	11.52
092179	0935	64865.	27.78	46.45	11.81
092579	1220	70790.	28.18	46.05	12.21
092779	0750	73400.	28.25	45.98	12.28
092979	1445	76495.	28.34	45.89	12.37
100179	1350	79520.	28.36	45.87	12.39
100379	1250	82380.	28.31	45.92	12.34
100579	1720	85490.	28.26	45.97	12.29
100779	1355	88165.	28.22	46.01	12.25
100979	0935	90785.	28.22	46.01	12.25
101179	1235	93845.	28.25	45.98	12.28
101679	1820	101390.	28.50	45.73	12.53
101879	1340	103990.	28.69	45.54	12.72
102079	1400	106890.	28.97	45.26	13.00
102279	1335	109745.	29.28	44.95	13.31
102479	1710	112840.	29.61	44.62	13.64
102679	0810	115180.	29.84	44.39	13.87
102879	1550	118520.	30.34	43.89	14.37
103079	0915	121005.	30.60	43.63	14.63
110279	0925	125335.	30.96	43.27	14.99

2.4C-100

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
IM-9	74.21	15.97	550400N 2714752E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
110479	0755	120125.	31.35	42.88	15.38
110679	0800.	131010.	31.63	42.60	15.66
110879	0810	133900.	32.19	42.04	16.22
111379	1020	141230.	33.03	41.20	17.06
111679	0745	145195.	33.26	40.97	17.29
112679	0950	159920.	33.56	40.67	17.59
112979	0935	169225.	33.57	40.66	17.60
121079	1110	180160.	32.27	41.96	16.30
121379	1350	189690.	31.50	42.73	15.53

2.4C-101

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
D02S-11E2	78.56	.00	5580SIN' 273W92E	080779	0850

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
100579	1340	85270.	16.25	58.31	.00
100779	1510	88240.	16.63	57.93	.00
100979	1040	90850.	17.06	57.50	.00
101179	1330	93900.	17.65	56.91	.00
101679	1005	101435.	19.54	55.02	.00
101879	1520	104090.	20.28	54.28	.00
102079	1600	107010.	21.05	53.51	.00
102279	1535	109865.	21.63	52.93	.00
102479	1755	112885.	21.96	52.60	.00
102679	0850	115220.	22.25	52.31	.00
102879	1605	118675.	22.88	51.68	.00
103079	1250	121220.	23.60	50.96	.00
110279	1050	125420.	24.46	50.10	.00
110479	0915	128205.	25.21	49.35	.00
110679	0935	131105.	25.80	48.76	.00
110879	0905	133955.	26.18	48.38	.00
111379	1140	141310.	28.97	49.58	.00
111679	0910	145480.	23.67	50.89	.00
112679	1710	160360.	21.26	53.30	.00
112979	1055	164305.	20.36	54.20	.00
121079	1625	180875.	15.08	54.52	.00

R.4C-102

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
DR-9	77.90	7.59	5510.3YN '.2764.5E	082779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT.MSL)	DRAWDOWN (FT)
080679	0000	-1970.	7.59	70.40	.00
082079	0004	18210.	8.60	69.30	1.10
083179	0000	34050.	9.40	68.50	1.90
091479	0000	54210.	9.90	68.00	2.40
092879	0000	70370.	10.00	67.90	2.50
101279	0000	94530.	10.20	67.70	2.70
102679	0000	110690.	10.50	67.40	3.00
110979	0000	130850.	10.40	67.50	2.90
112679	0000	159330.	10.90	67.00	3.40
120779	0000	175170.	11.40	66.50	3.90

2.4C-163

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
DW-8A	78.00	9.20	5518SON .2760855E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080679	0000	-1870.	9.20	68.80	.00
082079	0000	18210.	10.20	67.80	1.00
083179	0000	38050.	11.00	67.00	1.80
091479	0000	54210.	11.60	66.40	2.40
092879	0000	74370.	11.30	66.70	4.10
101279	0000	94530.	12.00	66.00	2.80
102679	0000	114690.	12.60	65.40	3.40
110979	0000	134850.	13.00	65.00	3.80
112679	0000	159330.	12.60	65.40	3.40
120779	0000	175170.	10.70	67.30	1.50

2.4C.104

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
BH-5	157.30	82.30	551200N * 279200E	060779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
060679	0000	-1470.	82.30	75.00	.00
062079	0000	18210.	82.80	74.50	.50
063179	0000	34050.	83.10	74.20	.80
071479	0000	54210.	83.60	73.70	1.30
072879	0000	72570.	83.90	73.40	1.60
101279	0000	94530.	84.20	73.10	1.90
102679	0000	114090.	84.60	72.70	2.30
110479	0000	134850.	84.90	72.40	2.60
112679	0000	159330.	85.00	72.30	2.70
120779	0000	175170.	85.40	71.90	3.10

2.4C-105

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
OW-7	158.50	85.60	508515N 276280E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080679	0000	-1070.	85.60	72.90	.00
082079	0000	18210.	86.80	71.70	1.20
083179	0000	30050.	87.60	70.90	2.00
091479	0000	54210.	88.00	70.50	2.40
092679	0000	78370.	88.00	70.60	2.40
101279	0000	94530.	89.00	69.50	3.40
102679	0000	114690.	89.70	68.80	4.10
110979	0000	134850.	89.70	68.80	4.10
112679	0000	159330.	89.50	69.00	3.90
120779	0000	175170.	89.50	69.00	3.90

2.4C-106

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
BH-10	157.00	77.90	553970N ' 277440E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080679	0000	-1470.	77.90	79.10	.00
082079	0000	18210.	78.60	78.40	.70
083179	0000	34050.	79.10	77.90	1.20
091479	0000	54210.	79.60	77.40	1.70
092679	0000	78570.	79.90	77.10	2.00
101279	0000	99450.	80.20	76.80	2.30
102679	0000	119690.	80.70	76.30	2.80
110979	0000	134650.	80.70	76.30	2.80
112679	0000	159330.	80.80	76.20	2.90
120779	0000	175170.	81.70	75.30	3.80

2.4C-168

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
OM-69A	82.50	17.70	550245N	216245E	080779	0850

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080679	0000	-1470.	17.70	64.80	.00
082079	0000	18210.	18.60	63.90	.90
083179	0000	34050.	19.30	63.20	1.60
091479	0000	54210.	19.90	62.60	2.20
092879	0000	70370.	20.50	62.00	2.80
101279	0000	90530.	21.20	61.30	3.50
102679	0000	110690.	22.30	60.20	4.60
110979	0000	130850.	22.40	60.10	4.70
112679	0000	150930.	22.30	60.20	4.60
120779	0000	175170.	22.60	59.90	4.90

2.4C-107

WELL NO.	ELEV OF MEAS PT. (FT, MSL)	STATIC WATER LEVEL (FT)	COORDINATES	START DATE	START TIME
BW-29A	162.70	97.80	550250N 2765408	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED (MIN)	DEPTH TO WATER (FT)	WATER LEVEL ELEV (FT, MSL)	DRAWDOWN (FT)
080679	0000	-1870.	97.80	64.90	.00
082079	0000	18210.	98.80	63.90	1.00
083179	0000	34050.	98.80	63.90	1.00
091479	0000	54210.	100.20	62.50	2.40
092879	0000	74170.	99.40	63.30	1.60
101279	0000	94530.	100.30	62.40	2.50
102679	0000	114690.	103.50	59.20	5.70
110979	0000	134850.	103.50	59.20	5.70
112379	0000	159330.	101.80	60.90	4.00
120779	0000	175170.	103.10	59.60	5.30

2.4C-109

WELL NO.	ELEV OF MEAS PT. (FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
OW-202	199.00	116.90	548770N	2198RUE	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080679	0000	-1870.	116.90	77.10	.00
082079	0000	18210.	117.20	76.80	.30
083179	0000	34050.	117.50	76.50	.60
091479	0000	54210.	117.90	76.10	1.00
092879	0000	74370.	117.90	76.10	1.00
101279	0000	94530.	118.00	76.00	1.10
102679	0000	114690.	118.50	75.50	1.60
110979	0000	134850.	118.50	75.50	1.60
112679	0000	159330.	118.50	75.50	1.60
120779	0000	175170.	118.20	75.80	1.30

2.4C-110

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
OW-209A	198.20	110.00	5491A5N 2745UUE	UAU7/9	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080079	0000	-1470.	110.00	88.20	.00
082079	0000	18210.	109.90	88.30	-.10
083179	0000	39050.	109.70	88.50	-.30
091479	0000	54210.	110.00	88.20	.00
092879	0000	79370.	109.90	88.30	-.10
101279	0000	94530.	109.80	88.40	-.20
102679	0000	119690.	109.90	88.30	-.10
110979	0000	134850.	109.90	88.30	-.10
112679	0000	159330.	109.90	88.30	-.10
120779	0000	175170.	110.00	88.20	.00

2.4C-111

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
WELL #3	100.52	39.89	550776N	271431E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
080679	1630	-960.	40.30	60.22	.81		0
080779	0815	-15.	39.89	60.63	.00		0
080779	1000	90.	49.54	50.98	9.65		6100
080779	1200	210.	50.31	50.21	10.42		6100
080779	1400	330.	50.60	49.92	10.71		6100
080779	1600	450.	50.84	49.68	10.95		6100
080779	1800	570.	51.00	49.52	11.11		6100
080779	2000	690.	51.15	49.37	11.26		6100
080779	2200	810.	51.32	49.20	11.43		6000
080779	2400	930.	51.53	48.99	11.64		5950
080879	0200	1050.	51.67	48.85	11.78		6000
080879	0400	1170.	51.78	48.74	11.89		6000
080879	0600	1290.	51.86	48.66	11.97		6000
080879	0800	1410.	51.97	48.55	12.08	64	6000
080879	1000	1530.	52.03	48.49	12.14		6000
080879	1200	1650.	52.08	48.44	12.19	65	6000
080879	1400	1770.	54.08	46.44	14.19		7300
080879	1600	1890.	54.30	46.22	14.41		7300
080879	1800	2010.	55.34	45.18	15.45		8100
080879	2000	2130.	56.21	44.31	16.32		9400
080879	2200	2250.	56.88	43.64	16.99		9300
080879	2200	2250.	56.88	43.64	16.99		9300
080979	0200	2490.	57.34	43.18	17.45		9300
080979	0400	2610.	57.48	43.04	17.59	61	9300
080979	0700	2790.	57.66	42.86	17.77		9100
080979	0800	2850.	59.00	41.52	19.11	61	10200
080979	1000	2970.	59.24	41.28	19.35		10100
080979	1200	3090.	59.41	41.11	19.52	64	10100
080979	1400	3210.	59.68	40.84	19.79		10100
080979	1600	3330.	59.84	40.68	19.95	65	10100
080979	1800	3450.	55.01	45.51	15.12		5450
080979	2000	3570.	58.17	42.35	18.28	64	9100
080979	2200	3690.	56.43	44.09	16.54		8000
080979	2400	3810.	57.33	43.19	17.44		8000
081079	0200	3930.	57.35	43.17	17.46		8000
081079	0400	4050.	57.37	43.15	17.48		8000
081079	0600	4170.	57.40	43.12	17.51		8000
081079	0800	4290.	57.44	43.08	17.55	61	8000
081079	1000	4410.	57.46	43.06	17.57		8000
081079	1200	4530.	57.49	43.03	17.60		8000
081079	1400	4650.	57.52	43.00	17.63	62	8800
081079	1600	4770.	59.82	40.70	19.93	61	9900
081079	1800	4890.	60.03	40.49	20.14		9900
081079	2000	5010.	61.10	39.42	21.21	60	9800
081079	2200	5130.	60.73	39.79	20.84		9500
081079	2400	5250.	60.50	40.02	20.61	61	9400
081179	0200	5370.	[illegible]	39.88	20.75		9400
081179	0400	5490.	60.71	39.81	20.82		9400
081179	0600	5610.	60.77	39.75	20.88	60	9850
081179	0800	5730.	60.87	39.65	20.98		9850

2.4C-112

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL (FT)	COORDINATES	START DATE	START TIME
WELL #3	109.52	34.89	550770N 2214437E	080779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
081179	1000	5850.	61.05	34.47	21.16		9950
081179	1200	5970.	61.10	34.42	21.21	60	9950
081179	1800	6090.	61.20	34.32	21.31		9950
081179	1600	6210.	61.25	34.27	21.36	60	9950
081179	1800	6330.	61.35	34.17	21.46		9950
081179	2000	6450.	61.78	33.74	21.85	60	9850
081179	2400	6690.	61.81	33.71	21.92	61	9850
081279	0400	6930.	61.89	33.63	22.00		9850
081279	0800	7170.	62.14	33.38	22.25	60	9850
081279	1200	7410.	62.21	33.31	22.32	60	9850
081279	1600	7650.	62.35	33.17	22.46	60	9850
081279	2000	7890.	62.53	32.99	22.64	60	9800
081279	2400	8130.	62.85	32.67	22.96	60	9700
081379	0400	8490.	62.90	32.62	23.01	60	9700
081379	1200	8850.	63.06	32.46	23.17	60	9700
081379	1800	9210.	63.36	32.16	23.47	60	9700
081379	2400	9570.	63.48	32.04	23.59	60	9650
081479	0700	9990.	64.15	31.37	24.26	60	9650
081479	1800	10850.	64.56	30.96	24.67	60	9500
081579	0600	11370.	66.13	29.39	26.24	60	9400
081579	1800	12090.	66.98	28.54	26.55	61	9400
081679	0600	12810.	67.69	27.83	27.80	60	9700
081679	1800	13530.	68.07	27.45	28.18	61	9700
081779	0600	14250.	66.70	28.82	26.81	61	8400
081779	1800	14970.	66.85	28.67	26.96	61	8300
081879	0600	15690.	66.91	28.61	27.02	61	8300
081879	1800	16410.	66.09	29.43	26.20	62	8200
081979	0600	17130.	66.40	29.12	26.51	62	8200
081979	1800	17850.	66.91	28.61	27.02	62	8400
082079	0600	18570.	66.93	28.59	27.04	62	8400
082079	1500	19110.	66.86	28.66	26.99	63	8400
082179	1300	20430.	69.88	25.64	29.99	63	8300
082179	1800	20730.	69.89	25.63	30.00	64	8300
082279	0600	21450.	70.04	25.48	30.15		8300
082279	1800	22170.	70.08	25.44	30.19	64	8300
082379	0600	22890.	70.15	25.37	30.26		8300
082379	1800	23610.	70.97	25.05	30.58	65	8200
082479	0600	24330.	70.55	24.97	30.64		8200
082479	1800	25050.	71.14	24.33	31.30	65	8100
082579	1200	26130.	69.66	25.86	29.77		8100
082579	1800	26490.	67.60	27.92	27.71	66	8300
082679	0600	27210.	68.02	27.50	28.13		8500
082679	1800	27930.	68.53	26.99	28.64	66	8400
082779	1800	29370.	68.95	26.57	29.06	66	8400
082879	1800	30810.	69.36	26.16	29.47	67	8300
082979	1800	32250.	69.43	26.09	29.54	67	8300
083079	1800	33690.	68.97	26.55	29.08	68	8400
090179	1600	35010.	68.39	27.13	28.50	68	8400
090179	1800	35370.	68.07	27.45	28.18		8200
090279	1800	36810.	67.81	27.71	27.92		8300

2.4C-113

WELL NO.	ELEV OF MEAS PT (FT, MSL)	STATIC WATER LEVEL (FT)	COORDINATES	START DATE	START TIME
WELL #3	100.52	34.89	550770N 271437E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED (MIN)	DEPTH TO WATER (FT)	WATER LEVEL ELEV (FT, MSL)	DRAWDOWN (FT)	WATER TEMP (F)	WELL FLOW (GPM)
090379	1800	39450.	67.51	33.01	27.62		8500
090479	1800	40890.	67.12	33.40	27.23		8700
090579	1800	42330.	66.14	34.38	26.25		8200
090779	1700	45150.	65.30	35.22	25.41	67	8300
090979	0800	47490.	64.90	36.02	26.01	67	8400
091179	0800	50370.	65.00	35.52	25.11	67	8300
091379	0900	53310.	65.70	34.82	25.81	68	8200
091579	1100	56310.	66.68	33.84	26.79	68	8100
091779	1435	59405.	67.65	32.87	27.76	68	8000
091979	1150	62120.	68.28	32.24	28.39	69	8000
092179	0815	64785.	66.50	34.02	26.61	68	8200
092379	1200	67870.	66.68	33.84	26.79		8100
092579	1125	70715.	65.18	35.34	25.29	71	8300
092779	0740	73390.	64.65	35.87	24.76	70	8300
092979	1330	76620.	64.53	35.99	24.64	71	8400
100179	1255	79465.	64.24	36.28	24.35	71	8400
100379	0935	82105.	63.60	36.92	23.71	71	7900
100579	1625	85555.	63.63	36.89	23.74	71	8200
100779	1205	88055.	64.12	36.40	24.23	71	8200
100979	0850	90740.	64.90	35.62	25.01	71	8200
101179	1155	93805.	65.75	34.77	25.86	71	8200
101379	1600	96930.	65.84	34.68	25.95		8200
101679	2010	101500.	68.48	32.04	28.59	70	8000
101879	1410	104020.	69.67	30.85	29.78	70	7900
102079	1840	106930.	70.33	30.19	30.44	70	8000
102279	1355	109765.	70.11	30.41	30.22	70	7900
102479	1935	112685.	70.41	30.11	30.52	70	7900
102679	1215	115425.	70.83	29.69	30.94	70	7600
102879	1555	118525.	71.82	28.70	31.93	70	7700
103079	0930	121020.	72.46	28.06	32.57	70	7700
110279	0940	125350.	74.13	26.39	34.24	69	7600
110479	0810	128140.	74.88	25.64	34.99	69	7500
110679	0815	131025.	75.60	24.92	35.71	68	7400
110879	1030	134040.	75.99	24.53	36.10	69	7250
111079	1200	137010.	75.78	24.74	35.89		7400
111379	1035	141245.	74.23	26.29	34.34	68	7400
111679	0805	145415.	73.10	27.42	33.21	68	7300
111979	1200	149970.	74.13	26.39	34.24		7600
112279	1200	154290.	73.00	27.52	33.11		7600
112679	1735	160385.	71.96	28.56	32.07	68	7300
112979	0950	164240.	71.55	28.97	31.66	67	7700
120279	1200	168690.	70.00	30.52	30.11		7500
120579	1200	173010.	67.60	32.92	27.71		7050
120879	1200	177330.	65.68	34.84	25.79		7550
121079	1105	180195.	65.72	34.80	25.83	67	8200
121379	1410	184660.	66.10	34.42	26.21	66	8200
121679	1300	188850.	67.78	32.74	27.89		8000
121879	2300	192390.	68.25	32.27	28.36		7600

2.4C-114

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
WELL #5	100.57	40.54	553163N - 2172421E	080779	0930

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
080879	1320	=1150.	40.90	59.67	.56		0
080779	0730	=60.	40.54	60.23	.00		0
080779	1200	210.	46.01	54.56	5.67		6400
080779	1400	330.	46.62	53.95	6.28		6300
080779	1600	450.	46.98	53.63	6.60		6300
080779	1800	570.	47.17	53.40	6.83		6300
080779	2000	690.	47.40	53.17	7.06		6400
080779	2200	810.	47.57	53.00	7.23		6200
080779	2400	930.	47.70	52.87	7.36		6200
080879	0200	1050.	47.83	52.74	7.49		6200
080879	0400	1170.	47.90	52.61	7.62		6200
080879	0600	1290.	48.01	52.56	7.67		6200
080879	0800	1410.	48.07	52.50	7.73	65	6400
080879	1000	1530.	48.10	52.47	7.76		6200
080879	1200	1650.	48.15	52.42	7.81		6400
080879	1400	1770.	49.48	51.09	9.14		7600
080879	1600	1890.	50.20	50.31	9.92		8100
080879	1800	2010.	50.30	50.27	9.96		8100
080879	2000	2130.	50.52	50.05	10.18		8100
080879	2200	2250.	51.59	48.98	11.25		9600
080879	2400	2370.	51.78	48.79	11.44		9800
080979	0200	2490.	51.98	48.59	11.64		9800
080979	0400	2610.	52.13	48.44	11.79	62	9800
080979	0600	2730.	52.25	48.32	11.91		9800
080979	0800	2850.	52.50	47.99	12.24	62	10100
080979	1000	2970.	52.71	47.86	12.37		10100
080979	1200	3090.	52.79	47.78	12.45	65	10100
080979	1400	3210.	52.90	47.67	12.56		10100
080979	1600	3330.	53.00	47.57	12.66	65	10100
080979	1800	3450.	53.30	47.27	12.96		10000
080979	2000	3570.	53.37	47.20	13.03	64	10000
080979	2200	3690.	52.58	47.99	12.24		9600
080979	2400	3810.	52.39	48.23	12.00		9300
081079	0200	3930.	48.81	51.76	8.47		8000
081079	0400	4050.	52.11	48.46	11.77		9300
081079	0600	4170.	52.30	48.27	11.96		9300
081079	0800	4290.	52.36	48.21	12.02		9600
081079	1000	4410.	52.43	48.14	12.09		9600
081079	1200	4530.	52.49	48.08	12.15		9300
081079	1400	4650.	52.54	48.03	12.20	64	9300
081079	1600	4770.	53.20	47.37	12.86	64	10000
081079	1800	4890.	53.30	47.27	12.96		10000
081079	2000	5010.	53.41	47.16	13.07	63	9950
081079	2200	5130.	53.52	47.05	13.18		9950
081079	2400	5250.	53.62	46.95	13.28	62	9950
081179	0200	5370.	53.67	46.90	13.33		10100
081179	0400	5490.	53.70	46.87	13.36		9950
081179	0600	5610.	53.78	46.79	13.44	62	9950
081179	0800	5730.	53.84	46.73	13.50		9900
081179	1000	5850.	53.90	46.67	13.56		9800

2-4C-115

WELL NO.	ELEV OF MEAS PT (FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
WELL #5	100.57	80.58	553165N ''2724218	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
081179	1200	5470.	53.94	46.63	13.60	63	9800
081179	1400.	6090.	54.00	46.57	13.66		9800
081179	1600	6210.	54.05	46.52	13.71	64	9800
081179	1800	6330.	54.12	46.45	13.78		9800
081179	2000	6450.	54.22	46.35	13.88	64	9800
081179	2400	6690.	54.32	46.25	13.98	64	10000
081279	0400	6930.	54.44	46.13	14.10		10000
081279	0800	7170.	54.55	46.02	14.21	64	10000
081279	1200	7410.	54.70	45.87	14.36	64	10000
081279	1600	7650.	54.82	45.75	14.48	64	9600
081279	2000	7890.	53.74	46.83	13.40	64	10000
081279	2400	8130.	53.55	47.02	13.21	64	6500
081379	0600	8490.	55.15	45.42	14.81	64	9900
081379	1200	8850.	55.39	45.18	15.05	64	9850
081379	1800	9210.	55.03	45.54	14.69	64	9600
081379	2400	9570.	55.33	45.24	14.99	64	9600
081479	0600	9930.	55.55	45.02	15.21	64	9400
081479	1800	10650.	55.47	45.10	15.13	64	9100
081579	0600	11370.	56.03	44.54	15.69	64	9100
081579	1800	12090.	56.84	43.73	16.50	64	9800
081679	0600	12810.	57.39	43.18	17.05	64	9800
081679	1800	13530.	57.85	42.72	17.51	64	9600
081779	0600	14250.	58.26	42.31	17.92	64	9700
081779	1700	14910.	58.42	42.15	18.08	64	9700
081879	0600	15690.	58.70	41.87	18.36	64	9700
081879	1800	16410.	59.15	41.42	18.81	64	9700
081979	0600	17130.	59.32	41.25	18.98	64	9600
081979	1800	17850.	59.73	40.84	19.39	64	9600
082079	0600	18570.	59.74	40.83	19.40	64	9600
082079	1800	19290.	59.88	30.69	19.54	64	9600
082179	0600	20010.	60.18	40.39	19.84	64	9400
082179	1800	20730.	61.13	39.44	20.79	64	6100
082279	0600	21450.	60.84	39.73	20.50		5000
082279	1800	22170.	55.25	45.32	14.91	65	5500
082379	0600	22890.	55.21	45.36	14.87		5500
082379	1800	23610.	57.40	43.17	17.06	64	8000
082479	0600	24330.	59.88	40.69	19.54		9600
082479	1800	25050.	59.75	40.82	19.41	64	8900
082579	0600	25770.	60.91	39.66	20.57		8800
082579	1800	26490.	61.44	39.13	21.10	65	8600
082679	0600	27210.	62.25	38.32	21.91		8700
082679	1800	27930.	62.77	37.80	22.43	65	8700
082779	1800	29370.	60.88	39.69	20.54	65	5400
082879	1800	30810.	61.39	39.18	21.05	66	8600
082979	1800	32250.	62.28	38.29	21.94	66	8900
083079	1800	33690.	59.92	40.65	19.58	66	7600
083179	1800	34890.	55.39	45.18	15.05	67	8600
090179	0900	36030.	54.89	45.68	14.55	68	4500
090279	0900	37470.	53.10	47.47	12.76	67	4600
090379	0900	38910.	52.69	47.88	12.35	67	5000

2.4C-116

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
WELL #5	100.57	90.30	533165N 272421E	090779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
090979	1200	4U530.	52.07	48.50	11.73	67	4900
090579	1500	42150.	52.25	48.32	11.91	67	4700
090779	1700	45150.	55.00	49.41	15.32	66	4400
090979	0900	47490.	54.38	44.19	16.04	66	4400
091179	0900	50850.	53.08	47.49	12.79	68	5300
091279	1600	52240.	47.18	53.39	6.89		0
091379	0800	53250.	57.49	43.08	17.15	68	9300
091579	1300	54850.	57.88	42.69	17.54	69	7700
091779	1500	59430.	60.14	40.43	19.80	68	8400
091979	1745	62175.	61.94	38.58	21.65	68	8700
092179	0830	64200.	61.68	38.89	21.38	68	8700
092379	1200	67890.	59.36	41.21	19.02		8400
092579	1020	70470.	57.21	43.36	16.87	70	8700
092779	0730	73560.	58.28	44.29	15.94	70	9400
092979	1300	76590.	58.94	43.73	16.50	70	9300
100179	1240	79450.	56.36	44.21	16.02	70	8600
100379	0920	82130.	49.58	51.03	9.20	72	9500
100579	1810	85540.	53.24	47.33	12.90	70	7600
100779	1135	88025.	59.63	45.94	14.29	70	7600
100979	0835	90725.	55.62	44.45	15.28	70	7650
101179	1140	93740.	56.60	43.47	16.26	70	7500
101379	1200	96690.	58.20	42.37	17.86		9100
101679	2005	101535.	53.08	47.09	13.18	70	8100
101879	1510	104080.	61.28	39.29	20.98	70	6600
102079	1540	106990.	62.27	38.30	21.93	69	8700
102279	1500	109830.	63.[illegible]	37.47	22.76	69	8500
102479	1745	112875.	63.90	37.11	23.12	69	8500
102679	1230	115480.	58.59	41.98	18.25	69	5600
102879	1625	118555.	60.20	40.37	19.86	69	5700
103079	1005	121055.	56.73	43.84	16.39	70	3400
110279	1020	125390.	61.64	38.93	21.30	69	7650
110479	0855	128185.	66.62	33.95	26.28	68	8100
110679	0915	131085.	65.75	34.82	25.41	68	7400
110879	1050	134060.	67.81	32.76	27.47	69	7600
111079	1200	137010.	67.58	32.99	27.24		7450
111379	1120	141490.	65.02	34.55	25.68	69	8200
111679	0850	145460.	64.90	35.67	24.56	69	8300
111979	1200	149370.	64.45	36.12	24.11		8400
112279	1200	153290.	63.87	36.70	23.53		8000
112679	1815	160425.	60.87	39.70	20.53	68	6900
112979	1040	164290.	59.98	41.09	19.14	68	6900
120279	1200	168690.	57.03	43.54	16.69		6800
120579	1200	173010.	53.51	47.06	13.17		6950
120879	1200	177330.	55.33	47.24	12.99		7400
121079	1555	180485.	52.65	47.92	12.31	67	7400
121379	1445	184895.	55.35	45.22	15.01	66	8450
121679	1200	188850.	55.90	44.67	15.56		7800
121879	2300	192390.	57.69	42.88	17.35		7400

2.4C-117

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
MISS RIVER	61.10	.00	553492N , 212368E	080779	0830

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
080179	0000	-8670.	.00	55.75	.00		
080279	0000	-7230.	.00	57.00	.00		
080379	0000	-5790.	.00	57.70	.00		
080479	0000	-4350.	.00	59.10	.00		
080579	1340	-2670.	.00	60.15	.00		
080679	1100	-1290.	.00	61.10	.00		
080679	1830	-1080.	.00	61.20	.00		
080679	1700	-930.	.00	61.30	.00		
080779	0740	-50.	.00	61.70	.00		
080779	0935	65.	.00	61.70	.00		
080779	1100	150.	.00	61.80	.00		
080779	1200	210.	.00	61.80	.00		
080779	1330	300.	.00	61.80	.00		
080779	1530	420.	.00	61.80	.00		
080779	1600	450.	.00	61.80	.00		
080779	1700	510.	.00	61.90	.00		
080779	1800	570.	.00	61.90	.00		
080779	1900	630.	.00	61.90	.00		
080879	0500	1230.	.00	62.00	.00		
080879	0900	1470.	.00	62.00	.00	83	
080879	1225	1675.	.00	62.10	.00		
080979	0400	2610.	.00	62.20	.00	81	
080979	0830	2880.	.00	62.20	.00	81	
080979	1325	3175.	.00	62.10	.00	83	
080979	1625	3355.	.00	62.20	.00	84	
080979	1900	3510.	.00	62.20	.00	84	
081079	0930	4380.	.00	62.20	.00	83	
081079	1225	4555.	.00	62.10	.00	84	
081079	1515	4725.	.00	62.00	.00	88	
081079	1720	4850.	.00	61.90	.00	84	
081079	1955	5005.	.00	61.90	.00	83	
081179	0130	5340.	.00	61.90	.00	83	
081179	0700	5670.	.00	61.70	.00	83	
081179	1150	5960.	.00	61.60	.00	84	
081179	1445	6135.	.00	61.50	.00	85	
081179	1700	6270.	.00	61.40	.00	84	
081179	2005	6455.	.00	61.30	.00	84	
081279	0100	6750.	.00	61.25	.00	84	
081279	0730	7140.	.00	61.10	.00	84	
081279	1300	7470.	.00	60.90	.00	85	
081279	1630	7680.	.00	60.70	.00	85	
081279	1950	7880.	.00	60.60	.00	84	
081379	0100	8190.	.00	60.40	.00	84	
081379	0645	8535.	.00	60.20	.00	84	
081379	1250	8900.	.00	59.90	.00	84	
081379	2010	9340.	.00	59.70	.00	83	
081379	2400	9570.	.00	59.50	.00	83	
081479	0630	9960.	.00	59.30	.00	83	
081479	1845	10695.	.00	59.00	.00	84	
081579	0740	11470.	.00	58.50	.00	84	

2.4C-118

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
MISS RIVER	61.10	.00	553992N	272369E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
081579	1845	12135.	.00	58.30	.00	85	
081679	0825	12955.	.00	57.80	.00	83	
081679	1930	13620.	.00	57.40	.00	84	
081779	0610	14260.	.00	57.10	.00	84	
081779	1830	15000.	.00	56.80	.00	85	
081879	0710	15760.	.00	56.40	.00	84	
081879	1835	16495.	.00	56.25	.00	85	
081979	1010	17380.	.00	56.15	.00	85	
081979	1800	17850.	.00	56.10	.00	85	
082079	0700	18630.	.00	56.05	.00	85	
082079	2000	19410.	.00	55.95	.00	85	
082179	0800	20130.	.00	55.80	.00	84	
082179	2020	20870.	.00	55.60	.00	82	
082279	1755	22165.	.00	55.20	.00	83	
082379	1755	23605.	.00	54.60	.00	84	
082479	1800	25050.	.00	53.50	.00	82	
082579	1800	26490.	.00	52.30	.00	81	
082679	1800	27930.	.00	51.30	.00	82	
082779	1805	29375.	.00	50.90	.00	82	
082879	1810	30820.	.00	51.30	.00	83	
082979	1805	32255.	.00	52.20	.00	85	
083079	1755	33685.	.00	53.50	.06	83	
083179	1540	34990.	.00	54.50	.00	85	
090179	0930	36060.	.00	55.40	.00		
090279	0930	37500.	.00	57.30	.00		
090379	0845	38895.	.00	57.20	.00		
090479	1200	40530.	.00	57.90	.00		
090579	1510	42160.	.00	58.90	.00		
090779	1645	45135.	.00	59.70	.00	80	
090979	0820	47510.	.00	59.60	.00	78	
091179	0920	50450.	.00	58.95	.00	80	
091379	0800	53250.	.00	57.00	.00	78	
091579	1210	56190.	.00	55.90	.00	80	
091779	1505	59435.	.00	53.35	.00	77	
091979	1310	62200.	.00	52.30	.00	76	
092179	0820	64790.	.00	54.30	.00	74	
092579	1045	70695.	.00	60.30	.00	74	
092779	1020	73550.	.00	60.10	.00	73	
092979	1535	76745.	.00	60.10	.00	75	
100179	1445	79575.	.00	60.85	.00	77	
100379	1100	82230.	.00	61.30	.00	73	
100579	1330	85260.	.00	60.90	.00	73	
100779	1445	88215.	.00	59.70	.00	71	
100979	1030	90840.	.00	59.00	.00	70	
101179	1325	93895.	.00	57.60	.00	70	
101679	1900	101430.	.00	53.90	.00	66	
101879	1500	104070.	.00	53.00	.00	70	
102079	1550	107000.	.00	52.50	.00	69	
102279	1510	109840.	.00	52.80	.00	69	
102479	1740	112870.	.00	52.90	.00	66	

2-4C-119

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
MISS MINER	61.10	.00	553892N 512SAME	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)	WATER TEMP(F)	WELL FLOW (GPM)
102679	1250	115480.	.00	52.25	.00	60	
102879	1635	118565.	.00	50.20	.00	64	
103079	0830	120960.	.00	49.20	.00	66	
110179	0830	123840.	.00	48.10	.00	69	
110379	1040	125410.	.00	.00	.00	68	
110479	0900	126190.	.00	.00	.00	63	
110579	0800	129570.	.00	47.40	.00		
110679	0920	131090.	.00	47.40	.00	61	
110879	0855	133985.	.00	47.80	.00	60	
111379	1130	141300.	.00	53.40	.00	58	
111479	1413	144360.	.00	55.20	.00		
111679	0855	145865.	.00	55.40	.00	53	
112679	1820	160430.	.00	58.50	.00	55	
112879	1300	162990.	.00	58.60	.00		
112979	1705	164675.	.00	58.45	.00	53	
113079	1330	165900.	.00	59.80	.00		
121079	1600	180450.	.00	60.20	.00	48	
121179	0915	181485.	.00	65.80	.00		
121379	1450	184700.	.00	64.10	.00	49	
121479	1115	185925.	.00	63.10	.00		

2.4C-100

WELL NO.	ELEV OF MEAS PT.(FT.MSL)	STATIC WATER LEVEL(FT)	COORDINATES		START DATE	START TIME
MAM LAKE	.00	.00	5443534W	27345VE	VMV779	VM50

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080579	1310	-2600.	.00	59.25	.00
080679	1350	-1120.	.00	61.00	.00
080779	0710	-60.	.00	61.00	.00
080779	0942	72.	.00	61.00	.00
080779	1038	128.	.00	61.00	.00
080779	1205	215.	.00	61.00	.00
080779	1408	338.	.00	61.05	.00
080779	1618	466.	.00	61.10	.00
080779	1809	579.	.00	61.15	.00
080879	0430	1200.	.00	61.90	.00
080879	0745	1395.	.00	62.00	.00
080879	1310	1720.	.00	62.00	.00
080879	2245	2205.	.00	62.10	.00
080979	0230	2520.	.00	62.10	.00
080979	0800	2850.	.00	62.10	.00
080979	1305	3155.	.00	62.10	.00
080979	1800	3890.	.00	62.10	.00
081079	0005	3815.	.00	62.10	.00
081079	0605	4215.	.00	62.05	.00
081079	1315	4605.	.00	62.00	.00
081079	1500	4710.	.00	61.95	.00
081079	1930	4980.	.00	61.90	.00
081079	2800	5250.	.00	61.80	.00
081179	0600	5610.	.00	61.80	.00
081179	1035	6125.	.00	61.80	.00
081179	1925	6415.	.00	61.50	.00
081279	0015	6705.	.00	61.40	.00
081279	0615	7065.	.00	61.10	.00
081279	1245	7435.	.00	61.00	.00
081279	1520	7610.	.00	60.90	.00
081279	1930	7860.	.00	60.80	.00
081279	2345	8115.	.00	60.80	.00
081379	0615	8505.	.00	60.50	.00
081379	1420	8990.	.00	60.30	.00
081379	1950	9320.	.00	60.10	.00
081379	2345	9555.	.00	60.00	.00
081479	0615	9945.	.00	59.80	.00
081479	1810	10660.	.00	59.60	.00
081579	0717	11487.	.00	59.30	.00
081579	1750	12080.	.00	59.50	.00
081679	0700	12070.	.00	59.00	.00
081679	1810	13540.	.00	58.50	.00
081779	0630	14280.	.00	58.30	.00
081779	1810	14980.	.00	58.25	.00
081879	0640	15730.	.00	58.15	.00
081879	1810	16420.	.00	58.10	.00
081979	1030	17400.	.00	58.05	.00
081979	1830	17880.	.00	58.00	.00
082079	0655	18625.	.00	58.00	.00
082079	1840	19330.	.00	58.00	.00

2.4C-121

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
MAM LAKE	.00	.00	S0935SN 2134SUE	080279	0850

DATE	HOUR	TIME AFTER PUMPING START(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
082179	0855	20005.	.00	58.00	.00
082179	1855	21745.	.00	58.00	.00
082279	1730	22180.	.00	58.00	.00
082379	1735	23585.	.00	58.00	.00
082479	1710	25000.	.00	58.00	.00
082579	1820	26510.	.00	58.00	.00
082679	1710	27880.	.00	58.00	.00
082779	1735	29305.	.00	57.95	.00
082879	1740	30790.	.00	57.95	.00
082979	1740	32230.	.00	57.95	.00
083079	1730	33660.	.00	57.90	.00
083179	1520	34970.	.00	57.85	.00
090179	0900	36030.	.00	57.90	.00
090279	0900	37470.	.00	58.00	.00
090379	0820	38870.	.00	58.00	.00
090479	1530	40740.	.00	58.10	.00
090579	1405	42135.	.00	58.20	.00
090779	1545	45075.	.00	59.70	.00
090879	0745	45875.	.00	59.70	.00
091179	1000	50490.	.00	59.00	.00
091279	0720	51210.	.00	58.20	.00
091579	1205	56015.	.00	57.90	.00
091779	1545	59045.	.00	57.90	.00
091979	1005	62015.	.00	57.90	.00
092179	0750	64760.	.00	58.60	.00
092579	0905	70595.	.00	60.15	.00
092779	1115	73605.	.00	60.20	.00
092979	1600	76770.	.00	60.10	.00
100179	1525	79815.	.00	60.90	.00
100379	1125	82255.	.00	61.25	.00
100579	1000	85290.	.00	60.90	.00
100779	1540	88270.	.00	59.85	.00
100979	1120	90690.	.00	59.00	.00
101179	1400	93930.	.00	58.30	.00
101379	1240	101070.	.00	58.20	.00
101679	1610	104140.	.00	58.15	.00
102079	1630	107000.	.00	58.15	.00
102279	1610	109400.	.00	58.15	.00
102579	1825	112915.	.00	58.15	.00
102679	1345	115515.	.00	58.15	.00
102879	1710	118400.	.00	58.10	.00
103079	1320	121250.	.00	58.35	.00
110279	1115	125095.	.00	58.30	.00
110479	0940	128230.	.00	58.45	.00
110679	1120	131210.	.00	58.45	.00
110879	0935	133985.	.00	58.45	.00
111479	1320	141410.	.00	58.50	.00
111679	0940	145510.	.00	58.50	.00
112079	1125	149375.	.00	59.25	.00
112479	1130	149340.	.00	59.20	.00

2-4C-122

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
MAM LAKE	.00	.00	549355N ''273450E	090779	0930

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
121079	1615	189465.	.00	66.20	.00
121379	1539	184745.	.00	64.10	.00

2.4C-123

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
GIN LAKE	.00	.00	555429N 215791E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
080579	1300	72610.	.00	61.00	.00
080679	1000	71350.	.00	61.00	.00
080779	0722	7064.	.00	61.00	.00
080779	1142	192.	.00	61.05	.00
080779	1628	478.	.00	61.10	.00
080779	1815	585.	.00	61.15	.00
080879	0800	1170.	.00	61.40	.00
080879	0730	1380.	.00	61.45	.00
080879	1300	1710.	.00	61.60	.00
080879	1900	2070.	.00	61.70	.00
080979	0200	2490.	.00	61.80	.00
080979	0800	2850.	.00	61.60	.00
080979	1315	3165.	.00	61.90	.00
080979	1850	3500.	.00	62.00	.00
081079	0010	3820.	.00	62.10	.00
081079	0630	4200.	.00	62.00	.00
081079	1320	4610.	.00	62.00	.00
081079	1510	4720.	.00	61.95	.00
081079	1940	4980.	.00	61.90	.00
081079	2400	5250.	.00	61.80	.00
081179	0600	5610.	.00	61.80	.00
081179	1940	6130.	.00	61.60	.00
081179	1930	6420.	.00	61.50	.00
081179	2400	6690.	.00	61.45	.00
081279	0615	7065.	.00	61.30	.00
081279	1215	7425.	.00	61.25	.00
081279	1525	7615.	.00	61.20	.00
081279	1940	7870.	.00	61.10	.00
081279	2305	8115.	.00	61.00	.00
081379	0615	8505.	.00	60.90	.00
081379	1030	9000.	.00	60.80	.00
081379	1945	9315.	.00	60.70	.00
081379	2305	9555.	.00	60.60	.00
081479	0600	9930.	.00	60.50	.00
081479	1800	10650.	.00	60.40	.00
081579	0711	11491.	.00	60.30	.00
081579	1755	12085.	.00	60.30	.00
081679	0655	12865.	.00	60.10	.00
081679	1800	13530.	.00	60.10	.00
081779	0620	14270.	.00	60.10	.00
081779	1800	14970.	.00	60.05	.00
081879	0630	15720.	.00	60.05	.00
081879	1800	16410.	.00	60.05	.00
081979	1040	17410.	.00	60.00	.00
081979	1950	17960.	.00	60.00	.00
082079	0810	18700.	.00	60.00	.00
082079	1945	19190.	.00	60.00	.00
082179	0635	20045.	.00	60.00	.00
082179	1850	20780.	.00	59.95	.00
082279	1725	22135.	.00	59.95	.00

WELL NO.	ELEV OF MEAS PT.(FT,MSL)	STATIC WATER LEVEL(FT)	COORDINATES	START DATE	START TIME
					2-4C-124
GIN LANE	.00	.00	555324N 2257976E	080779	0830

DATE	HOUR	TIME AFTER PUMPING STARTED(MIN)	DEPTH TO WATER(FT)	WATER LEVEL ELEV(FT,MSL)	DRAWDOWN (FT)
082579	1750	23580.	.00	59.95	.00
082679	1705.	24990.	.00	59.95	.00
082579	1825	26515.	.00	59.95	.00
082679	1705	27875.	.00	59.90	.00
082779	1730	29380.	.00	59.90	.00
082879	1725	30775.	.00	59.90	.00
082979	1735	32225.	.00	59.80	.00
083079	1725	33655.	.00	59.80	.00
083179	1515	34965.	.00	59.80	.00
090179	0900	36030.	.00	59.80	.00
090279	0850	37080.	.00	59.90	.00
090379	0810	38080.	.00	59.90	.00
090479	1200	40530.	.00	59.90	.00
090579	1525	42175.	.00	59.90	.00
090779	1535	45085.	.00	59.80	.00
090979	0735	47065.	.00	59.80	.00
091179	1005	50495.	.00	59.70	.00
091379	0715	53205.	.00	59.70	.00
091579	1255	56825.	.00	59.70	.00
091779	1600	59490.	.00	59.60	.00
091979	1360	62230.	.00	59.60	.00
092179	1015	64905.	.00	61.10	.00
092379	0850	70500.	.00	60.75	.00
092579	1129	73615.	.00	60.60	.00
092779	1810	76780.	.00	60.90	.00
100179	1930	79620.	.00	60.70	.00
100379	1130	82280.	.00	60.00	.00
100579	1805	85295.	.00	60.90	.00
100779	1505	88275.	.00	60.80	.00
100979	1125	90895.	.00	60.75	.00
101179	1905	93935.	.00	60.70	.00
101379	1945	101475.	.00	60.55	.00
101579	1820	104150.	.00	60.50	.00
101779	1640	107050.	.00	60.50	.00
101979	1615	109905.	.00	60.85	.00
102179	1830	112920.	.00	60.40	.00
102379	1550	115520.	.00	60.35	.00
102579	1710	118600.	.00	60.35	.00
102779	1325	121455.	.00	60.50	.00
110279	1120	125450.	.00	60.60	.00
110479	0950	128280.	.00	60.55	.00
110679	1125	131215.	.00	60.50	.00
110879	0940	133990.	.00	60.50	.00
111379	1525	141415.	.00	60.55	.00
111879	0950	145520.	.00	60.55	.00
112679	1755	150405.	.00	61.40	.00
112879	1115	153185.	.00	61.45	.00
121079	1630	160480.	.00	60.30	.00
121379	1500	163750.	.00	60.35	.00

340.22 (3.6, 5.3) Based on current water quality of the service water makeup from the radial collector wells update tables 3.6.3, 5.3.3 through 5.3.6, and sections 3.6.1, 3.6.2, 5.1.4.5.3, 5.3.2.2, 5.3.2.3, and 5.3.3.

Response

The three attached tables contain the plant effluent data necessary for updating the aforementioned ER Tables and for performing the chemical plume analysis using the current water quality data for makeup water from the radial collector wells. Tables 1 and 2 contain the water quantity and quality data for the plant effluent for 1 and 2 unit operation, respectively. These tables summarize the plant effluent characteristics for operation with 2, 3 or 5 cycles of concentration in the cooling tower and with a 100% load factor. It can be seen in these tables that for 2 unit operation, the effluent discharge is double that for 1 unit operation, while temperature and chemicals concentration are independent of the number of units operating. Table 3 summarizes the effluent chemical characteristics to be used for the chemical plume analysis for both 1 and 2 unit operation for the various cycles of concentration. A winter case (January) and summer case (July) were chosen to perform the dispersion of the chemical plume as discussed in the ER.

Inspection of Tables 1 and 2 indicates that the chloride concentration is below the Miss./La. Water Quality criteria of 75 mg/l (see ER Table 5.3.1) for all times and modes of operation.

Comparison of Table 3 and ER Table 5.3.3 indicates that the expected concentrations of TDS and sulfates for 2 and 3 cycle cases are relatively higher than the ones reported earlier.

The preliminary chemical plume analysis for 2 unit operation with 2 and 3 cycles of concentration was performed using the current water quality parameters of Table 3 and the corresponding discharges. The 1980 Mississippi River hydrographic survey taken by the U.S. Army Corps of Engineers (Figure 1) was used in estimating the hydraulic characteristics of the river in the vicinity of the site for the dispersion analysis. The modeling techniques and river flow and water level data were identical to those described in the ER Section 5.3.2.1. The results of this preliminary analysis were compared to those given in ER Tables 5.3.4 through 5.3.6. For the mean river flow cases (Table 5.3.4), the new plume lengths and areas are slightly longer. For the 7-day-10-year low river flow cases, the plumes are slightly smaller than those presented in ER Table 5.3.5, and for the lowest flow of record cases (Mississippi River at elevation 28 feet MSL), the plumes are smaller than those presented in Table 5.3.6. This can be attributed mainly to the channel improvements and bank stabilization performed by the U.S. Army Corps of Engineers in the vicinity of the site.

Since the largest plumes were governed by the lowest flow of record cases (Table 5.3.6), it can be concluded that the change in makeup water quality does not result in an increase in the controlling plume areas given in the ER. Plumes for 1 unit operation will, of course, be smaller due to the reduction in the plant effluent discharge.

The results of the revised chemical plume analysis for 2, 3 and 5 cycles and 1 and 2 unit operation will be submitted in the next ER Amendment.

GRAND GULF NUCLEAR PLANT

TABLE 1 - PLANT EFFLUENT WATER QUANTITY AND QUALITY (1 UNIT OPERATION)

MONTH	2-CYCLE					3-CYCLE					5-CYCLE				
	FLOW gpm	TEMP °F	TDS mg/l	SULFATE mg/l	CHLORIDE mg/l	FLOW gpm	TEMP °F	TDS mg/l	SULFATE mg/l	CHLORIDE mg/l	FLOW gpm	TEMP °F	TDS mg/l	SULFATE mg/l	CHLORIDE mg/l
JAN	11750	75.3	752	446	38	9083	83.3	861	492	44	9083	90.7	861	479	44
FEB	11900	76.4	752	446	38	8933	83.6	876	507	44	8933	90.8	876	492	44
MAR	12300	79.0	752	446	38	8533	84.3	917	545	46	8533	91.1	917	529	46
APR	12400	82.8	752	446	38	8433	86.8	929	556	47	8433	92.4	929	537	47
MAY	13200	87.5	752	446	38	7613	88.9	1030	650	52	7613	93.4	1030	631	52
JUN	13550	91.2	752	446	38	7283	91.7	1075	694	54	7283	94.8	1075	674	54
JUL	13610	92.5	752	446	38	7223	92.8	1083	703	55	7223	95.4	1083	682	55
AUG	13650	92.0	752	446	38	7183	92.3	1090	708	55	7183	95.1	1090	688	55
SEP	13400	89.3	752	446	38	7433	90.2	1053	674	53	7433	94.1	1053	654	53
OCT	12900	84.4	752	446	38	7933	86.9	989	611	50	7933	92.5	989	593	50
NOV	12250	78.7	752	446	38	8583	84.2	914	540	46	8583	91.1	916	525	46
DEC	11850	75.7	752	446	38	8983	83.3	872	502	44	8983	90.6	872	488	44
AVG	12730	83.7	752	446	38	8101	87.4	974	599	49	8101	92.7	974	581	49

NOTE: Number of cycles refer to the cycles of concentration in the cooling tower loop.

GRAND GULF NUCLEAR PLANT

TABLE 2 - PLANT EFFLUENT WATER QUANTITY AND QUALITY (2 UNIT OPERATION)

MONTH	2-CYCLE					3-CYCLE					5-CYCLE				
	FLOW gpm	TEMP °F	TDS mg/l	SULFATE mg/l	CHLORIDE mg/l	FLOW gpm	TEMP °F	TDS mg/l	SULFATE mg/l	CHLORIDE mg/l	FLOW gpm	TEMP °F	TDS mg/l	SULFATE mg/l	CHLORIDE mg/l
JAN	23500	75.3	752	446	38	18166	83.3	861	492	44	18166	90.7	861	479	44
FEB	23800	76.4	752	446	38	17866	83.6	876	507	44	17866	90.8	876	492	44
MAR	24600	79.0	752	446	38	17066	84.3	917	545	46	17066	91.1	917	529	46
APR	24800	82.8	752	446	38	16866	86.8	929	556	47	16866	92.4	929	537	47
MAY	26400	87.5	752	446	38	15226	88.9	1030	650	52	15226	93.4	1030	631	52
JUN	27100	91.2	752	446	38	14566	91.7	1075	694	54	14566	94.8	1075	674	54
JUL	27220	92.5	752	446	38	14446	92.8	1083	703	55	14446	95.4	1083	682	55
AUG	27300	92.0	752	446	38	14366	92.3	1090	708	55	14366	95.1	1090	688	55
SEP	26800	89.3	752	446	38	14866	90.2	1053	674	53	14866	94.1	1053	654	53
OCT	25800	84.4	752	446	38	15866	86.9	989	611	50	15866	92.5	989	593	50
NOV	24500	78.7	752	446	38	17166	84.2	914	540	46	17166	91.1	914	525	46
DEC	23700	75.7	752	446	38	17966	83.3	872	502	44	17966	90.6	872	488	44
AVG	25460	83.7	752	446	38	16202	87.4	974	599	49	16202	92.7	974	581	49

NOTE: Number of cycles refer to the cycles of concentration in the cooling tower loop.

GRAND GULF NUCLEAR PLANT

TABLE 3

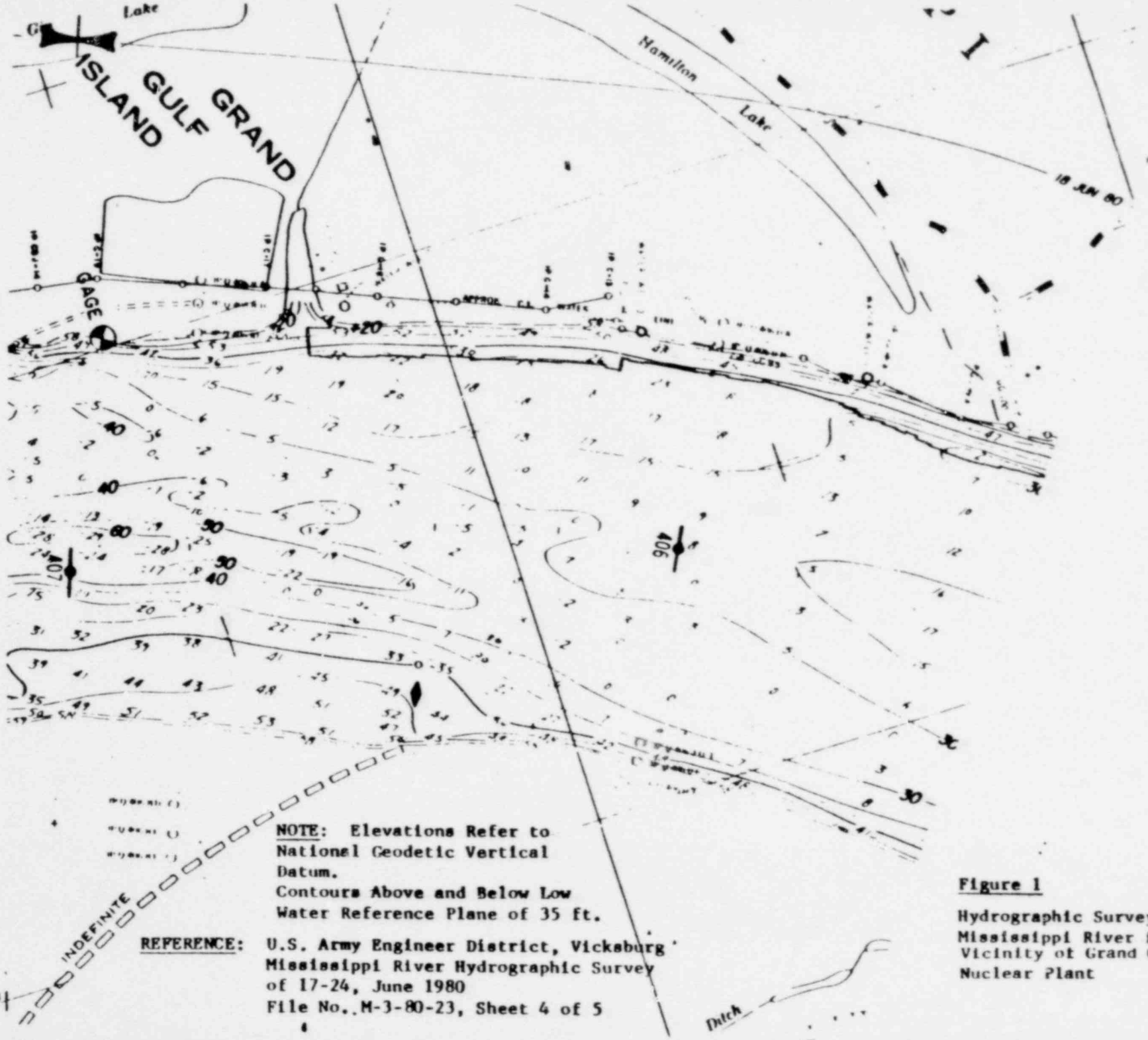
PLANT EFFLUENT WATER QUALITY FOR
CHEMICAL PLUME ANALYSIS

	CONCENTRATION, mg/l					
	2 CYCLES		3 CYCLES		5 CYCLES	
CONSTITUENTS	WINTER+	SUMMER++	WINTER	SUMMER	WINTER	SUMMER
SULFATES	446	446	492	703	479	682
CHLORIDE*	38	38	44	55	44	55
TDS	752	752	861	1083	861	1083

* For all cases the chlorides are below the State Water Quality Criteria of 75 mg/l.

+ Month of January

++ Month of July



NOTE: Elevations Refer to National Geodetic Vertical Datum.
Contours Above and Below Low Water Reference Plane of 35 ft.

REFERENCE: U.S. Army Engineer District, Vicksburg
Mississippi River Hydrographic Survey
of 17-24, June 1980
File No. M-3-80-23, Sheet 4 of 5

Figure 1

Hydrographic Survey of Mississippi River in the Vicinity of Grand Gulf Nuclear Plant

340.23 Provide a copy of the current NPDES permit for the Grand Gulf site. Also provide a short narrative of the current status of the NPDES renewal activities.

Response

The present NPDES permit MS0029521 for the Grand Gulf Nuclear Station expires on June 30, 1981. Samples of all outfalls have been taken and analysis is proceeding at this time in order to insure that the revised permit application will be completed by December 31, 1980. A copy of the present permit (MS0029521) has been enclosed.

State of Mississippi
Water Pollution Control
PERMIT

TO DISCHARGE WASTEWATER IN ACCORDANCE WITH THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

THIS CERTIFIES THAT

Mississippi Power and Light Company
Grand Gulf Nuclear Station
Port Gibson, Mississippi

has been granted permission to discharge wastewater into the Mississippi River and Hamilton Lake,

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III hereof. This permit is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402 (b) of the Federal Water Pollution Control Act.

Issued this 11th day of February, 19 80.

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
BUREAU OF POLLUTION CONTROL PERMIT BOARD

Charles H. Chisolm

Charles H. Chisolm, P. E., Director

Expires 30th day of June, 19 81.

Permit No. MS0029521

Application No. MS0029521

MPC 3-74

PART I

Permit No. MS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 001 - Discharge Basin.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	-	-	-	-	Continuous	Recorder
Temperature*	-	-	-	-	Continuous	Recorder

*Discharge temperature shall not exceed the lowest temperature of the recirculating cooling water prior to the addition of make-up.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored weekly with a grab sample.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the plant discharge basin (following consolidation of Outfall Serial Numbers 002 - 008), but prior to entry into the Mississippi River.

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PART I

Permit No. MS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 002 (Unit A) and 003 (Unit B) - Cooling Tower Blowdown.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Chlorination Period		Measurement	Sample
	Daily Avg.	Daily Max	Avg.	Instan. Max.	Frequency	Type
Flow – M^3Day (MGD)	-	-	-	-	3/Week	Instantaneous
Total Residual Chlorine	-	-	-	-	**	Multiple Grabs***
Free Available Chlorine	-	-	0.2 mg/l	0.5 mg/l	**	Multiple Grabs***
Time of Chlorine Discharge*	-	-	-	120 min.	**	Observation

*Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit may discharge free available or total residual chlorine at any one time. The exact time of discharge of free available or total residual chlorine shall be recorded for each unit and reported as required in Part I.C.2.

**During the first year of substantially full power operation of each unit, monitoring shall follow each application of chlorine to the condenser cooling water system for 3 days/week until sufficient operating experience has been obtained to assure conformance with limitations and then monitoring frequency may be reduced to one day/week. Start-up of blowdown shall not occur until a series of multiple grab samples indicate that the discharge is in conformance with the permit limitations.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each cooling tower blowdown point prior to mixing with any other waste streams.

***Multiple grab samples shall consist of a series of grab samples taken every 30 minutes following start-up of blowdown after chlorine addition until no total residual chlorine is detectable.

PART I

Permit No. MS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning **February 1, 1980,** and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 004 (Unit A) and 005 (Unit B). Standby Service Cooling Tower Blowdown.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Chlorination Period		Measurement	Sample
	Daily Avg.	Daily Max	Avg.	Instan. Max.	Frequency	Type
Flow – M^3Day (MGD)	-	-	-	-	3/Week	Instantaneous
Total Residual Chlorine	-	-	-	-	**	Multiple Grabs***
Free Available Chlorine	-	-	0.2 mg/l	0.5 mg/l	**	Multiple Grabs***
Time of Chlorine Discharge*	-	-	-	120 min.	**	Observation

*Neither free available chlorine nor total residual chlorine may be discharged from any unit for more than two hours in any one day and not more than one unit may discharge free available or total residual chlorine at any one time. The exact time of discharge of free available or total residual chlorine shall be recorded for each unit and reported as required in Part I.C.2.

**During the first year of substantially full power operation of each unit, monitoring shall follow each application of chlorine to the condenser cooling water system for 3 days/week until sufficient operating experience has been obtained to assure conformance with limitations and then monitoring frequency may be reduced to one day/week. Start-up of blowdown shall not occur until a series of multiple grab samples indicate that the discharge is in conformance with the permit limitations.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at each cooling tower blowdown point prior to mixing with any other waste streams.

***Multiple grab samples shall consist of a series of grab samples taken every 30 minutes following start-up of blowdown after chlorine addition until no total residual chlorine is detectable.

PART I

Permit No. NS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 006 - Demineralizer Regeneration Waste.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day) Daily Avg.	kg/day (lbs/day) Daily Max	Other Units (Specify) Daily Avg.	Other Units (Specify) Daily Max.	Measurement Frequency	Sample Type
Flow – M^3Day (MGD)	–	–	–	–	1/Week	*
Oil and Grease	4.5(10.0)	18.2(40.0)	15 mg/l	20 mg/l	1/Week	Grab
Total Suspended Solids	9.1(20.0)	91(200)	30 mg/l	100 mg/l	1/Week	Grab

*Weir reading, pump logs, or calculation for batch discharge. The flow reported shall be the total volume discharged in a 24-hour period.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Discharge from the treatment facility prior to mixing with any other water or wastewater.

PART I

Permit No. MS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 007 - Water Treatment Building and Diesel Generator Drain. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	–	–	–	–	1/Week	*
Oil and Grease	32.8(72.1)	43.7(96.1)	15 mg/1	20 mg/1	1/Week	Grab
Total Suspended Solids	65.5(144.1)	218.4(480.4)	30 mg/1	100 mg/1	1/Week	Grab

*Weir reading, pump logs, or calculation for batch discharge. The flow reported shall be the total volume discharged in a 24-hour period.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge from the oil separator treatment unit prior to mixing with any other water or wastewater.

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PART I

Permit No. NS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 008 - Fire Water Pump House Oily Waste Sump.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	–	–	–	–	1/Week	*
Oil and Grease	16.4(36.0)	21.8(48.0)	15 mg/1	20 mg/1	1/Week	Grab
Total Suspended Solids	3[illegible]	109.2(240.2)	30 mg/1	100 mg/1	1/Week	Grab

*Weir reading, pump logs, or calculation for batch discharge. The flow reported shall be the total volume discharged in a 24-hour period.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge from the oil separator treatment unit prior to mixing with any other water or wastewater.

Permit No. MS0029521

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 009 - Administrative Building Floor Drains.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	–	–	–	–	1/Week	*
Oil and Grease	4.1(9.0)	5.5(12.0)	15 mg/1	20 mg/1	1/Week	Grab
Total Suspended Solids	8.2(18.0)	27.3(60.0)	30 mg/1	100 mg/1	1/Week	Grab

*Weir reading, pump logs, or calculation for batch discharge. The flow reported shall be the total volume discharged in a 24-hour period.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge from the oil separator treatment unit prior to mixing with any other water or wastewater.

EI

PART I

Permit No. MS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 010 - Sewage Treatment Plant Effluent.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	-	-	171(0.045)	-	2/Week	Instantaneous
BOD_5	5.1(11.3)	7.7(16.9)	30 mg/l	45 mg/l	1/Quarter	24-Hour Composite
Total Suspended Solids	5.1(11.3)	7.7(16.9)	30 mg/l	45 mg/l	1/Quarter	24-Hour Composite

2. The pH shall not be le s than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 2/week with a grab sample.

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge from the combined effluent of the three sewage treatment units prior to mixing with any other water or wastewater.

5. Influent and effluent pH, dissolved oxygen in the aeration basin, and 30-minute sludge settleability shall be monitored 2 days per week with a grab sample, for each of the three units.

6. Upon issuance of this permit, NPDES Permits MS0027031 and MS0029173 shall be void.

EI

Permit No. MS0029521

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 011 - Liquid Radwaste System.
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	–	–	–	–	*	*
Total Suspended Solids	–	–	–	30 mg/l	*	Grab

*Measurements shall be taken daily whenever a batch is discharged. The flow reported shall be the total volume discharged in a 24-hour period.

2. The pH shall not be less than N/A standard units nor greater than N/A standard units and shall be monitored N/A

3. There shall be no discharge of floating solids or visible foam in other than trace amounts.

4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge from the radwaste treatment system prior to mixing with any other water or wastewater.

Permit No. MS0029521

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Number 012 - Preoperational Flushing and Metal Cleaning Wastes. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day Daily Avg.	(lbs/day) Daily Max	Other Units (Specify) Daily Avg.	Daily Max.	Measurement Frequency	Sample Type
Flow – M^3Day (MGD)	–	–	–	–	**	Pump Logs or Batch Calculation
Total Suspended Solids	*	*	30 mg/l	100 mg/l	**	Composite***
Total Copper	–	*	–	1.0 mg/l	**	Composite***
Total Iron	–	*		1.0 mg/l	**	Composite***
Total Phosphorus (as P)	–	*	–	2.0 mg/l	**	Composite***
Oil and Grease	*	*	15 mg/l	20 mg/l	**	Grab

"Preoperational Flushing and Metal Cleaning Wastes" shall mean any cleaning compounds, rinse waters, or any other waterborne residues derived from cleaning any metal process equipment including, but notllimited to, boiler tube cleaning, boiler fireside cleaning and air preheater cleaning. This definition shall specifically exclude any water used for the sole purpose of hydrostatic testing, or flushing operations not involving the use of chemicals.

*The quantity of pollutants specified above shall not exceed the quantity (Kg/day or lbs/day) determined by multiplying the flow of the wastewater times the concentrations shown above.

**1/Day whenever a discharge occurs from any flushing or cleaning operation.

2. There shall be no discharge of floating solids or visible foam in other than trace amounts.

3. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

***A composite shall consist of 3 grab samples taken at the beginning of discharge, at the end of discharge, and a third taken at approximately equal time lapse between the beginning and end.

PART I

Permit No. MS0029521

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning February 1, 1980, and lasting until June 30, 1981, the permittee is authorized to discharge from Outfall Serial Numbers 013 - 014 (Construction Runoff) (Basins A and B, respectively).
Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations				Monitoring Requirements	
	kg/day (lbs/day)		Other Units (Specify)		Measurement	Sample
	Daily Avg.	Daily Max	Daily Avg.	Daily Max.	Frequency	Type
Flow – M^3Day (MGD)	-	-	-	-	1/Month*	Instantaneous
Total Suspended Solids	-	-	-	-	1/Month*	Grab

*Sampling shall be done during periods of actual discharge.

2. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month with a grab sample.
3. There shall be no discharge of floating solids or visible foam in other than trace amounts.
4. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): discharge point prior to mixing with any other water or wastewater.
5. Construction practices and control of site runoff shall be consistent with sound engineering practices. Ponds utilized for control of construction runoff shall be capable of containing a 10-year, 24-hour rainfall event.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

a. Blowdown Minimization Report
(See Page 21, Part III.A.e.)

1. Study Plan - 90 days prior to Unit 1 fuel loading.

2. Initial Report - 15 months after commercial operation date of Unit 1.

3. Subsequent Reports - Annually after initial report.

b. Chlorine Minimization Report
(See Page 21, Part III.A.i.)

1. Study Plan - 90 days prior to Unit 1 fuel loading.

2. Report - 15 months after start-up of Unit 1 & 2.

2. No later than 10 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

C. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous 3 months shall be summarized for each month and reported on a Discharge Monitoring Report From (EPA No. 3320-1), postmarked no later than the 28th day of the month following the completed reporting period. The first report is due on April 28, 1980 . Signed copies of these, and all other reports required herein, shall be submitted to the Mississippi Air and Water Pollution Control Permit Board at the following address:

State of Mississippi
Air and Water Pollution Control Permit Board
P. O. Box 827
Jackson, Mississippi 39205

3. Definitions

a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days during the calendar month when the measurements were made.

b. The "daily maximum" discharge means the total discharge by weight during any 24-hour period.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulation published pursuant to Section 304(g) of the Federal Water Pollution Control Act, as amended.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The exact place, date, and time of sampling;

b. The dates the analyses were performed;

c. The person(s) who performed the analyses;

d. The analytical techniques or methods used; and

e. The results of all required analyses.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained for a maximum of three (3) years, or longer if requested by the Permit Board.

PART II

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions or treatment modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new NPDES application, or if such changes will not violate the effuent limitations specified in this permit, by notice to the Mississippi Air and Water Pollution Control Permit Board of such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any effluent limitation specified in this permit, the permittee shall provide the Mississippi Air and Water Pollution Control Permit Board with the following information, in writing, within five (5) days of becoming aware of such conditions:

a. A description of the discharge and cause of noncompliance; and

b. The period of noncompliance, including exact dates and times; or if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to State waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Bypassing

Any diversion from or bypass of wastewater collection and treatment facilities is prohibited, except (i) where unavoidable to prevent loss of life or severe

property damage, or (ii) where excessive storm drainage or runoff would damage any facilities necessary for compliance with the effuent limitations and prohibitions of this permit. The permittee shall notify the Mississippi Air and Water Pollution Control Permit Board in writing of each such diversion or bypass within 72 nours of the diversion or bypass and shall submit a plan to prevent recurrence of the bypass diversion within 30 days of the date of the incident.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering State waters.

7. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

a. In accordance with the Schedule of Compliance contained in Part I, provide an alternate power source sufficient to operate the wastewater collection and treatment facilities;

or, if such alternate power source is not in existence, and no date for its implementation appears in Part I,

b. Provide a method whereby the effluent limitations contained in Part I shall be met upon the reduction, loss, or failure of the primary source of power to the wastewater collection and treatment facilities.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Mississippi Air and Water Pollution Control Commission and the Regional Administrator of the U. S. Environmental Protection Agency and/or their authorized representatives, upon the presentation of credentials:

a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which

the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Mississippi Air and Water Pollution Control Permit Board.

3. Availability of Records

Except for data determined to be confidential under the Mississippi Air and Water Pollution Control Law, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of the Mississippi Air and Water Pollution Control Commission.

4. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to:

a. Violation of any terms or conditions of this permit;

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

c. A change in any condition that required either a temporary or permanent reduction or elimination of the authorized discharge.

5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Water Pollution Control Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the permittee so notified.

6. Civil and Criminal Liability

Except as provided ir permit conditions on "Bypassing" (Part II, A-5), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Federal Water Pollution Control Act and applicable provisions of the Mississippi Air and Water Pollution Control Law pertaining to spills of oil and hazardous materials.

8. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

9. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstance, and the remainder of this permit, shall not be affected thereby.

10. Expiration of Permit

Permittee shall not discharge after the expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the agency authorized to issue permits no later than 180 days prior to the expiration date.

PART III

A. OTHER REQUIREMENTS

a. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under sections 301(b)(2) (C), and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

(1) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
(2) Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

b. If the permittee, after monitoring for at least 12 months, determines that he is consistently meeting the effluent limits contained herein, the permittee may request of the Permit Board that the monitoring requirements be reduced to a lesser frequency or be eliminated.

c. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid. In the event that PCB containing equipment is used on site, administrative procedures shall be instituted to (1) maintain a detailed inventory of PCB use, (2) assure engineering design and construction to preclude release of PCB's to the environment, and (3) effectively detect the loss of PCB's from equipment. Detail of such procedures shall be submitted within sixty (60) days following the effective date of this permit.

d. Blowdown shall contain no detectable amount of materials added for corrosion inhibition including, but not limited to, zinc, chromium and phosphorus. The company shall notify the Permit Board in writing not later than sixty (60) days prior to instituting use of any additional biocide or chemical used in cooling systems, other than chlorine, which may be toxic to aquatic life other than those previously reported to the Environmental Protection Agency. Such notification shall include:

1. name and general composition of biocide or chemical,
2. 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge shall occur,
3. quantities to be used,
4. frequencies of use,
5. proposed discharge concentrations, and
6. EPA registration number, if applicable.

OTHER REQUIREMENTS (Continued)

e. Discharge of blowdown from the cooling system shall be limited to the minimum discharge of recirculating water necessary for the purpose of discharging materials contained in the process, the further build-up of which would cause concentrations or amounts exceeding limits established by best engineering practice. Discharge temperature shall not exceed the lowest temperature of the recirculating cooling water prior to the addition of make-up. A study of blowdown minimization including the minimization of the make-up bypass shall be implemented by the commercial operation date of Unit 1. A study plan, including detailed operational control procedures, shall be submitted for approval by the Permit Board no later than 90 days prior to fuel loading. Annual reports of operations experience shall be submitted starting 15 months after commercial cooperation date of Unit 1 and shall include data from Unit 2 when placed in commercial operation.

f. The receiving water shall not exceed a maximum water temperature change of 2.8°C (5.0°F) relative to the intake temperature, outside a mixing zone which shall not exceed a maximum width of 60 feet from the river edge and a maximum length of 6,000 feet downstream from the point of discharge, as measured at a depth of 5 feet. The maximum water temperature shall not exceed 32.2°C (90°F) outside the same mixing zone, except when ambient temperatures approach or exceed this value. Intake water temperature shall be monitored weekly and reported as required in Part I.C.2. The permittee shall monitor the Mississippi River within and surrounding the mixing area to document conformance with the thermal requirements of this paragraph. Such monitoring shall be conducted semiannually (once in winter and once in summer) during substantially full power production and shall be submitted to the Permit Board as required in Part I.C.2 of this permit.

g. Copies of any and all routine liquid effluent and water quality monitoring reports submitted to the Nuclear Regulatory Commission (NRC) shall be simultaneously submitted to the Mississippi Air and Water Pollution Control Permit Board and EPA. Copies of all routine and non-routine reports submitted to the Permit Board and EPA shall also be submitted to the NRC.

h. Discharge of uncontaminated wastes including fire protection water, condensate from air conditioning equipment, cooling tower make-up bypasses, and yard drains to the yard drainage system is permitted without limitation or monitoring requirements.

i. A study shall be instituted to evaluate practicable methods to reduce total residual chlorine levels, including, but not limited to (1) minimization of chlorine addition commensurate with control requirements and (2) discontinuation of blowdown during chlorination and subsequent periods of high concentration. Results of this study including facilities and/or methods proposed to reduce total chlorine residual shall be submitted no later than 15 months after the start-up dates of Units 1 and 2 respectively.