

RENO CREEK
Pattern I
PRODUCTION WELL P-1

TABLE 1

Parameter*	Baseline Range	CDM 6/03/81	NML 6/03/81	NML 7/23/81	NML 8/14/81	NML 9/02/81	NML 10/6/81	NML 11/3/81	NML 12/1/81	NML 1/25/82	CDM 1/25/82	NML 2/26/82	NML 3/15/82	NML 4/19/82	NML 5/12/82	NML 6/10/82	CDM 6/10/82	NML 12/13/82	NML 6/4/83	NML 1/10/84	NML 6/1/84	NML 12/1/84
Field																						
pH	7.9-8.6		4.8	4.8	5.1	5.3	5.3	5.3	4.4	5.4	----	5.2	5.3	5.1	5.3	5.3	4.6	5.5	5.8	5.6	5.8	5.9
Conductivity	1400-2000		2600	2750	3556	3011	2800	2800	2250	3000	----	3000	2500	2700	2600	2900	2800	2700	2200	2800	2600	2179
Major Constituents																						
Bicarbonate	13-98	0	10	10.6	2	Trace	9	18	10	16	9	21	22	19	26	9	0	12	20	34	37	38
Carbonate	0-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alkalinity (CaCO ₃ eq)	11-80	0	Trace	Trace	Trace	Trace	8	15	8	13	7	17	18	16	21	7	0	10	16	28	30	31
Calcium	80-120	230	248	271	309	206	309	196	204	292	270	300	307	314	269	306	280	259	243	277	247	236
Chloride	8-18	12	54	67	53	45	57	58	37	52	51	60	57	54	59	52	45	50	37	27	27	27
Magnesium	15-29	42	40	62	63	90	72	60	55	72	70	77	67	72	66	58	66	56	54	57	53	46
Potassium	10-20	44	52	48	49	49	49	52	51	40	37	94	97	94	40	40	33	39	41	37	36	30
Sodium	210-323	300	360	345	354	346	291	294	320	368	290	290	288	286	296	287	230	293	300	264	268	268
Sulfate	700-900	1370	1430	1466	1485	1528	1459	1662	1257	1555	1600	1666	1607	1625	1621	1550	1600	1550	1576	1260	1363	1398
TDS	1124-1492	2410	2500	2580	2640	2700	2660	2600	2180	2600	2470	2500	2640	2454	2430	2350	2400	2300	2378	2360	2020	2180
Anion/cation	99										94	99	101	101	95	99	87	96	96	106	99	98
Minor Constituents																						
Ammonia as N	0.1-0.5	0.9	--							----	1.0						1.4					
Nitrate as N	0.1-0.5	0.05	--							----	0.05						0.05					
Nitrite as N	0.1	0.05	--							----	0.05						0.05					
Aluminum	0.10-0.28	5.1	4.2	3.7						5.0	5.8						5.1					
Arsenic	0.01-0.03	0.005	0.005							----	0.005						0.020					
Barium	0.1	0.2	--							0.41	0.2								0.011	0.009	0.009	
Boron	0.11-2.6	0.1	--							----	0.3						0.2					
Cadmium	0.01	0.01	0.017							0.01	0.005						0.1					
Chromium	0.01	0.02	0.25							0.03	0.02						0.008					
Copper	0.01	0.02	0.01							----	0.010						0.010					
Fluoride	ND-0.22	0.4	--							----	0.1						0.005					
Iron	0.01-0.21	28	37.1	35.5	40.1	36	40	40	38	57	46	42	43	49	41	40	0.6					
Lead	0.01	0.005	0.08							0.01	0.005						35	35	25	30	24	31
Manganese	0.01-0.03	0.76	1.19							----	1.03						0.005					
Mercury	0.0001	0.0001	--							----	0.0001						1.1					
Molybdenum	ND-0.08	0.005	0.03							0.05	0.006						0.0001					
Nickel	0.01	0.10	0.07							0.07	0.06						0.007					
Selenium	ND-0.05	0.005	--							----	0.005						0.06					
Vanadium	0.05-0.38	0.15	0.33	0.31	0.78	0.56	0.48	0.52	0.42	0.59	0.56	0.14	0.21	0.36	0.36	0.35	0.005		0.006	<0.001	0.003	
Zinc	0.1	0.06	0.04							0.03	0.045						0.79	0.69	0.13	0.167	0.170	0.227
Silica (SiO ₂)		98	101							90	----						0.046					
Radiochemistry																						
Uranium as U ₃ O ₈	0.15-1.05	1.1	1.164	2.05	1.79	1.79	1.77	1.54	1.44	1.57	1.65	1.690	0.616	1.635	1.579	1.370	1.2	1.130	0.553	0.819	0.445	0.462
Radium - 226	160-686	680	1019	1050				1179	1113		1000						860		747	834	635	365
Thorium - 230	0.4-0.8	38	7.5	10.9				11.4	40		35						42					

* Units in mg/l (ppm) except pH (std. units), conductivity (umhos/cm) and Ra-226, Th-230 (pCi/l).

RENO CREEK
Pattern I
PRODUCTION WELL P-2

TABLE 2

Parameter*	Baseline Range	CDM 6/03/81	NML 6/03/81	NML 7/23/81	NML 8/14/81	NML 9/02/81	NML 10/6/81	NML 11/3/81	NML 12/1/81	NML 1/25/82	CDM 1/25/82	NML 2/26/82	NML 3/15/82	NML 4/20/82	NML 5/12/82	NML 6/09/82	CDM 6/09/82	NML 12/13/82	NML 6/4/83	NML 1/10/84	NML 6/1/84	NML 12/1/84
Field																						
pH	7.9-8.6		4.7	4.6	4.9	5.0	5.0	4.9	4.4	5.4	---	5.2	4.8	4.8	5.0	5.2	4.5	5.2	4.6	5.6	5.5	5.5
Conductivity	1400-2000		2500	2700	3278	3111	3000	3000	2000	3150	---	3200	2800	2900	2900	3100	3000	2800	2500	3200	3000	2692
Major Constituents																						
Bicarbonate	13-98	0	11	7.6	Trace	0	5	14	8	14	7	14	13	13	6	5	0	18	12	47	40	37
Carbonate	0-75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alkalinity (CaCO ₃ eq)	11-18	0	0	0	Trace	0	4	11	7	11	6	11	10	10	5	4	0	15	10	39	33	30
Calcium	18-120	230	210	282	256	244	249	232	271	381	260	281	282	278	289	302	280	259	274	277	264	250
Chloride	8-18	12	44	89	57	61	66	78	40	65	60	69	70	69	69	64	66	53	44	42	39	40
Magnesium	15-29	41	42	61	73	85	69	47	37	77	74	78	72	79	72	64	73	71	63	57	66	55
Potassium	10-20	43	61	61	58	57	61	67	38	50	47	129	136	129	54	53	47	59	63	65	65	55
Sodium	210-323	290	339	354	358	343	300	330	266	256	290	292	294	308	297	304	250	312	321	282	270	299
Sulfate	700-900	1400	1312	1607	1573	1548	1644	1697	956	1591	1600	1828	1685	1730	1742	1730	1800	1625	1768	1419	1469	1581
TDS	1124-1492	2340	2340	2560	2640	2680	2700	2780	1600	2820	2640	2684	2545	2640	2526	2545	2500	2490	2765	2580	2400	2380
Anion/cation		103									94	95	99	99	95	97	81	100	96	102	99	97
Minor Constituents																						
Ammonia as N	0.1-0.5	0.7	---							---	1.1						1.2					
Nitrate as N	0.1-0.5	0.05	---							---	0.05						0.05					
Nitrite as N	0.1	0.05	---							---	0.05						0.05					
Aluminum	0.10-0.28	5.3	5.3	3.7						4.9	5.8						5.3					
Arsenic	0.01-0.03	0.005	0.002							---	0.005						0.008		<0.005	0.004	0.001	
Barium	0.1	0.2	---							0.13	0.2						0.2					
Boron	0.11-2.6	0.1	---							---	0.3						0.2					
Cadmium	0.01	0.01	0.015							0.01	0.005						0.008					
Chromium	0.01	0.02	0.24							0.03	0.02						0.008					
Copper	0.01	0.02	0.01							---	0.010						0.005					
Fluoride	ND-0.22	0.4	---							---	0.1						0.5					
Iron	0.01-0.21	30.2	30.2	35.1	40.7	34	38	38	20	59	46	50	46	50	51	40	42	53	42	55	52	54
Lead	0.01	0.005	0.10							0.01	0.005						0.005					
Manganese	0.01-0.03	0.78	0.82							---	1.03						1.2					
Mercury	0.0001	0.0001	---							---	0.0001						0.0004					
Molybdenum	ND-0.08	0.005	0.03							0.05	0.006						0.005					
Nickel	0.01	0.05	0.06							---	0.06						0.05					
Selenium	ND-0.05	0.005	---							---	0.005						0.005			0.007	<0.001	0.001
Vanadium	0.05-0.38	0.13	0.10	0.12	0.11	0.09	0.14	0.07	0.12	0.04	0.56	0.18	0.04	0.13	0.07	0.05	0.12	0.10	0.01	0.062	0.062	0.073
Zinc	0.1	0.07	0.04							0.04	0.045						0.057					
Silica (SiO ₂)		---	99							91	---						65					
Radiochemistry																						
Uranium as U ²³⁸	0.15-1.05	1.1	0.919	1.12	1.12	1.02	1.09	0.89	0.61	0.88	0.96	1.000	0.581	1.013	1.669	1.025	0.83	1.000	0.542	0.647	0.543	0.439
Radium - 226	160-886	500	786	998				1053	859		980						1200		984	741	522	349
Thorium - 230	0.4-0.6	33	5.2	1.7				2.3	9.9		11						14					

* Units in mg/l (ppm) except pH (std. units), conductivity (umhos/cm) and Ra-226, Th-230 (pci/l).

**Same baseline range as RC-P1.

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RENO CREEK
Pattern 1
MONITOR WELL M-1

TABLE 3

PARAMETER**	BASELINE		NML		CMH		NML		NML		NML		NML		NML		CMH	
	RANGE		6/10/81	6/10/81	7/07/81	8/25/81	9/03/81	10/6/81	11/3/81	12/2/81	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82
Field																		
pH	7.8-8.3		7.42		7.70	7.88	8.05	7.65	7.97	8.15	7.94							
Conductivity	1220-1570		1831		1793	1849	1806	1740	1705	1600	1800							
Major Constituents																		
Bicarbonate	57-122			126	137	142	74	134	147	83	142							
Carbonate	0-48		0	0	0	0	0	0	0	0	0							
Alkalinity (CaCO ₃ eq)	47-100			103	112	116	61	110	120	68	116							
Calcium	79-98		98	80	102	91.8	108	92	82	108	124							
Chloride	14-21		18.4	11	25	11.3	16	20	15	14	17							
Magnesium	13-22		22	21	19	23	21	20	17	20	21							
Potassium	7.0-11.2		8.1	5.9	7.3	7.4	7.6	7.5	6.6	6.9	7.0							
Sodium	201-208		308	250	259	242	251	244	268	278	190							
Sulfate	486-776		746	732	731	671	713	671	774	751	723							
TDS	1006-1292		1300	1230	1440	1340	1440	1280	1220	1360	1320							
Anion/Cation				95														
Minor Constituents																		
Ammonia as N	0.01-0.18		--	0.2														
Nitrate as N	0.10-0.24		--	0.05														
Nitrite as N	0.1		--	0.05														
Aluminum	0.10-0.18		0.07	--														
Arsenic	0.01-0.03		0.001	0.005														
Barium	0.1		--	0.2														
Boron	0.10-0.26		--	0.1														
Cadmium	0.01		0.001	0.01														
Chromium	0.01		0.003	0.02														
Copper	0.01		0.003	0.05														
Fluoride	0.10-0.67		--	0.2														
Iron	0.01-0.24		0.03	0.05														
Lead	0.01		0.11	0.005														
Manganese	0.01-0.07		0.07	0.05														
Mercury	0.0001		--	0.0001														
Molybdenum	0.01		0.18	0.005														
Nickel	0.01		0.05	0.05														
Selenium	0.01-0.02		--	0.005														
Vanadium	0.05-0.17		0.25	0.048														
Zinc	0.1		0.004	0.02														
Silica SiO ₂			10.9	--														
Radiochemistry																		
Uranium as U ⁰	0.023-0.102		0.055	0.043	0.064	0.010	0.071	0.041	0.020	0.050	0.020							
Radium-226	3.8 109-398		310	310						254								
Thorium-230	0.6-1.0		0.1	0.1						1.0								

* Units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).

**Billed Sample

***Artificial Sample

28/76

TABLE 3

PARAMETER	BASELINE		NMTL		NMTL		NMTL		NMTL		CMM		CMM		NMTL		NMTL		NMTL		NMTL	
	RANGE		2/26/82		3/13/82		4/20/82		5/19/82		6/16/82		6/16/82		12/13/82		6/4/83		1/10/84		6/1/84	
Field																						
pH	7.8-8.3		8.20		7.9		7.9		7.8**		8.1**		8.2***		8.1		8.4		7.9		7.9	
Conductivity	1220-1570		1800		1530		1600		1760		1825		1800		1550		1500		1700		1625	
Major Constituents																						
Bicarbonate	57-122		148		179		165		137		131		146		120		130		215		148	
Carbonate	0-48		0		0		0		0		0		0		0		0		6		154	
Alkalinity (CaCO ₃ eq)	47-100		121		147		135		112		107		120		100		110		176		131	
Calcium	79-99		133		130		135		100		115		102		98		95		97		95	
Chloride	14-21		18		18		18		20		16		16		11		11		4		17	
Magnesium	13-22		19		18		19		20		20		20		20		20		17		19	
Potassium	7.0-11.2		8.1		6.3		6.5		6.8		6.4		6.5		4.8		5.1		7.4		8.1	
Sodium	201-208		265		273		270		259		264		264		230		230		253		261	
Sulfate	486-776		753		802		810		798		887		725		700		660		776		677	
TDS	1006-1292		1240		1335		1340		1280		1400		1240		1200		1100		1075		1240	
Antion/Cation			103		100		100		96		98		105		99		102		101		93	
Minor Constituents																						
Ammonia as N	0.01-0.18																					
Nitrate as N	0.10-0.24																					
Nitrite as N	0.1																					
Aluminum	0.10-0.18																					
Arsenic	0.01-0.03																					
Barium	0.1																					
Boron	0.10-0.26																					
Cadmium	0.01																					
Chromium	0.01																					
Copper	0.01																					
Fluoride	0.10-0.67																					
Iron	0.01-0.24		0.01		0.14		0.08		0.33		0.87		1.97		0.2		0.2		0.32		0.03	
Lead	0.01														0.11		0.025					
Manganese	0.01-0.07														0.070		0.080					
Mercury	0.0001														0.0003		0.0002					
Molybdenum	0.01														0.008		0.009					
Nickel	0.01														0.03		0.03					
Selenium	0.01-0.02														0.005		0.005					
Vanadium	0.03-0.17		0.01		0.01		0.05		0.065		0.03		0.03		0.037		0.043		0.06		0.05	
Zinc															0.15		0.062					
Silica (SiO ₂)															13		11					
Radiochemistry																						
Uranium as U ⁰	0.023-0.102		0.062		0.056		0.43		0.014		0.012		0.025		0.03		0.056		0.013		0.050	
Radium-226	3.8 109-398														140		300				147	
Thorium-230	0.6-1.0														3.9		12				130	
																					92	

RENO CREEK
Pattern 1
MONITOR WELL M-2

TABLE 4

PARAMETER*	BASLINE	NRL	CMH	NRL	NRL	NRL	NRL	NRL	NRL	CMH	NRL	NRL	NRL	NRL	NRL	NRL	CMH	NRL	NRL	NRL	NRL	NRL
	RANGE	6/17/81	6/17/81	7/07/81	8/14/81	9/02/81	10/09/81	11/3/81	12/2/81	1/25/82	1/25/82	2/26/82	3/15/82	4/20/82	5/19/82	6/10/82	6/10/82	12/13/82	6/4/83	1/10/84	6/1/84	12/1/84
Field																						
pH	7.9-8.2	8.15	—	7.96	7.92	7.95	7.89	7.98	8.25	8.02	—	8.10	8.0	8.0	7.9	7.8	8.0	8.0	6.4	7.9	8.0	8.0
Conductivity	1250-1760	1585	—	1895	1848	1824	1800	1860	900	1825	—	1800	1620	1640	1780	1820	1800	1725	1620	1760	1750	1282
Major Constituents																						
Bicarbonate	56-121	96	105	88	84	103	101	51	107	85	113	113	112	105	104	95	108	105	107	115	111	
Carbonate	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	
Alkalinity (CaCO ₃ eq)	46-99	86	72	69	84	83	42	88	70	93	93	92	86	85	78	89	96	88	94	91		
Calcium	88-119	106	116	106	118	118	114	129	100	133	130	125	109	104	98	101	83	114	100	101		
Chloride	6-22	16	8	14	13	11	13	13	14	8	16	18	18	17	16	14	14	14	17	14		
Magnesium	15-28	22	22	22	21	21	18	23	21	21	19	19	20	21	22	20	19	18	20	18		
Potassium	7.0-11.3	8.5	5.9	7.5	7.3	7.6	6.8	7.2	7.3	5.4	8.3	6.8	6.9	7.0	6.5	4.8	7.3	8.5	6.9	7.4		
Sodium	220-290	336	260	308	251	250	264	266	202	250	254	258	258	249	283	230	263	264	242	251		
Sulfate	640-860	791	797	734	734	736	831	742	749	780	784	743	760	757	751	710	757	828	733	811		
TDS	1103-1392	1440	1280	1380	1340	1440	1340	1320	1300	1300	1212	1280	1300	1280	1240	1200	1225	1318	1270	1300		
Anion/Cation		95									99	102	105	103	102	105	101	101	94	102	96	

Minor Constituents

Ammonia as N	0.10-0.85	---	0.2	-----	0.2	---	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----	0.2	-----
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Radiochemistry

Uranium as U	0.007-0.027	0.069	0.008	0.175	0.015	0.010	0.045	0.005	0.018	0.018	0.029	0.044	0.033	0.034	0.032	0.016	0.015	0.047	0.023	0.050	0.021	0.021
Radium-226	3.8	11.7-23.9	25								19						20			24	44	22
Thorium-230	0.6-2.6		-0.2								0.0											

* Units expressed in ug/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).
**Bailed Sample
***Air-lifted Sample

RENO CREEK
Pattern 1
MONITOR WELL M-3

TABLE 5

PARAMETER*	BASLINE RANGE	NML 6/17/81	CDM 9/17/81	NML 7/07/81	NML 8/25/81	NML 9/03/81	NML 10/6/81	NML 11/3/81	NML 12/2/81	NML 1/25/82	CDM 1/25/82
Field											
pH	8.2-10.8	8.95	---	8.58	8.39	8.51	8.67	8.66	8.69	9.09	---
Conductivity	1300-2000	1941	---	1869	2244	1972	1750	1900	900	1875	---
Major Constituents											
Bicarbonate	48-102	65	80	72	81	77	92	48	69	31	
Carbonate	0-32	8	6.1	Trace	Trace	12	Tr	Tr	19	9	
Alkalinity (CaCO ₃ eq)	39-84	53	76	59	66	83	75	39	88	41	
Calcium	88-113	120	88	117	109	112	105	98	121	131	100
Chloride	10-19	16	8	14	11.3	11	15	14	13	15	8
Magnesium	17-29	21	21	20	23	18	21	18	21	16	15
Potassium	8-14	9.2	6.7	8.0	8.6	8.4	9.1	7.2	7.8	8.2	6.2
Sodium	220-272	324	280	283	272	270	268	283	286	235	260
Sulfate	625-821	778	824	778	811	863	775	852	808	743	810
TDS	1061-1466	1380	1320	1440	1420	1480	1500	1380	1460	1340	1260
Anion/Cation		98									99

Minor Constituents

Ammonia as N	ND-0.74	---	0.2								0.2
Nitrate as N	ND-0.5	---	0.05								0.05
Nitrite as N	0.1	---	0.05								0.05
Aluminum	0.1-0.6	0.01	---								0.06
Arsenic	0.01-0.02	0.002	0.005								0.005
Barium	0.1	---	0.02								0.79
Boron	0.10-0.36	---	0.1								0.2
Cadmium	0.01	0.01	0.01								0.01
Chromium	0.01	0.02	0.02								0.02
Copper	0.01	0.01	0.05								0.01
Fluoride	0.10-0.23	---	0.2								0.1
Iron	0.10-0.13	0.29	0.07	0.05				0.01	0.02	0.13	0.1
Lead	0.01	0.05	0.005								0.13
Manganese	0.01-0.02	0.02	0.05								0.11
Mercury	0.0001	---	0.0001								0.11
Molybdenum	ND-0.09	0.06	0.005								0.08
Nickel	0.01	0.01	0.05								0.02
Selenium	0.01-0.02	---	0.005								0.02
Vanadium	0.05-0.14	0.03	0.058	0.04	0.09	0.06	0.04	0.01	0.01	0.01	0.01
Zinc	0.1	0.01	0.01								0.01
Silica SiO ₂											7.7

Radiochemistry

Uranium as U	0.205-0.750	0.142	0.11	0.128	0.119	0.096	0.114	0.096	0.119	0.138	0.235
Radium-226	3.8 6.7-20.7	95							140	73	
Thorium-230	0.6-0.9	0.2							0.9	0.2	

* Units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).
**Bailed Sample
***Artificial Sample
28/7/1

TABLE 5

PARAMETER*	BASELINE RANGE	NML 2/26/82	NML 3/15/82	NML 4/20/82	NML 5/19/82	NML 6/04/82	NML 6/04/82	CDM 6/04/82	CDM 6/04/82	NML 12/13/82	NML 6/4/83	NML 1/10/84	NML 6/1/84	NML 12/1/84
<u>Field</u>														
pH	8.2-10.8	8.76	11.3**	11.3	11.3**	10.6**	8.3***	8.8**	8.1***	10.5	8.8	9.1	8.5	8.4
Conductivity	1300-2000	1900	1950	1950	1990	1775	1950	1700	1900	1560	1680	1800	1820	1795
<u>Major Constituents</u>														
Bicarbonate	48-102	31	27 (OH)	30 (OH)	37 (OH)	87	98	47	80	102	78	59	94	85
Carbonate	0-32	9	119	150	167	Trace	0	9	0	32	8	10	4	11
Alkalinity (CaCO ₃ eq)	39-84	41						54	66	137	77	67	82	78
Calcium	88-113	119	112	115	143	140	133	130	120	85	115	107	107	113
Chloride	10-19	16	16	17	16	0.8	14	9	8	11	15	15	15	18
Magnesium	17-29	19	14	6	0.5	21	24	15	22	1.5	12	15	19	17
Potassium	8-14	7.9	6.7	7.2	8.7	8.3	7.6	6.6	5.9	9.6	9.7	7.4	8.6	7.3
Sodium	220-272	240	252	245	245	275	277	210	220	251	282	244	277	282
Sulfate	625-821	794	817	808	740	986	1015	790	805	687	893	809	949	850
TDS	1057-1466	1240	1240	1200	1100	1400	1440	1200	1200	1225	1350	1340	1440	1380
Anion/Cation		101	89	87	92	97	95	96	96	95	97	97	94	99
<u>Minor Constituents</u>														
Ammonia as N	ND-0.74							2.6	0.3					
Nitrate as N	ND-0.5							0.05	0.05					
Nitrite as N	0.1							0.05	0.05					
Aluminum	0.1-0.6							1.1	2.4					
Arsenic	0.01-0.02							0.01	0.01			<0.005	0.003	0.004
Barium	0.1							0.2	0.2					
Boron	0.10-0.36							0.1	0.1					
Cadmium	0.01							0.005	0.005					
Chromium	0.01							0.11	0.027					
Copper	0.01							0.011	0.005					
Fluoride	0.10-0.23							0.2	0.2					
Iron	0.10-0.13	0.01	0.04	0.04	0.51	4.44	1.38	1.1	1.3	0.24	0.02	0.03	0.05	0.05
Lead	0.01							0.12	0.005					
Manganese	0.01-0.02							0.060	0.030					
Mercury	0.0001							0.0002	0.0002					
Molybdenum	ND-0.09							0.011	0.010					
Nickel	0.01							0.03	0.03					
Selenium	0.01-0.02							0.005	0.005			0.013	<0.001	0.001
Vanadium	0.05-0.14	0.01	0.01	0.01	0.01	0.09	0.08	0.056	0.040	0.08	<0.01	0.001	0.002	0.003
Zinc	0.1							0.35	0.054					
Silica (SiO ₂)								11	10					
<u>Radiochemistry</u>														
Uranium as U ₃ O ₈	0.205-0.750	0.148	0.034	0.041	0.037	0.226	0.312	0.18	0.30	0.022	0.198	0.115	0.163	0.127
Radium-226	67-207							98	180			68	92	77
Thorium-230	0.6-0.9							5.1	5.0					

RAMO CREEK
Pattern 1
MONITOR WELL M-4

TABLE 6

PARAMETER*	BASELINE		NHL		CDM		NHL		NHL		NHL		NHL		NHL		NHL		CDM	
	RANGE		6/10/81	7/07/81	8/25/81	9/04/81	10/6/81	11/3/81	12/2/81	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82	1/27/82
Field																				
pH	7.8-9.0		11.48**	---	11.51**	11.30**	11.58**	11.53**	11.59**	11.92**	12.23**	---								
Conductivity	1220-1650		2989	---	1981	2989	2609	2500	2400	2400	2500	---								
563																				
Major Constituents																				
Bicarbonate	33-102		0	0	45	0	0	98	38	0	0									
Carbonate	0-65		397	300	364	---	417	260	619	494	45									
Alkalinity	27-84		7	500	644	---	695	514	1063	823	562									
Calcium (CaCO ₃ eq)	90-117		149	150	180	177	184	155	136	181	251	160								
Chloride	8-17		42	8	32	1337	113	11	30	37	49	6								
Fluoride	19-29		6	1.6	1.6	1.0	2.5	1.0	1.2	1.0	0.4	0.6								
Magnesium	8.0-12.9		16.3	14.0	13.2	15.9	13.0	15.6	13.0	11.7	18.0	12								
Potassium	200-278		297	240	281	247	259	260	279	322	194	220								
Sodium	670-953		681	635	684	531	663	627	644	669	400	310								
Sulfate	970-1452		1280	1250	1440	1300	1200	1620	1260	1180	1260	1080								
TDS																				
Action/Conc'n																				
Minor Constituents																				
Ammonia as N	0.01-0.85		---	2.5	---	---	---	---	---	---	---	---								
Nitrate as N	0.1-0.8		---	0.05	---	---	---	---	---	---	---	---								
Nitrite as N	0.1		0.20	---	---	---	---	---	---	---	---	---								
Aluminum	0.1-0.2		0.005	---	---	---	---	---	---	---	---	---								
Arsenic	ND-0.01		0.001	0.2	---	---	---	---	---	---	---	---								
Barium	0.1		---	0.1	---	---	---	---	---	---	---	---								
Boron	90-117		---	0.01	---	---	---	---	---	---	---	---								
Cadmium	0.01		0.01	0.01	---	---	---	---	---	---	---	---								
Chromium	0.01		0.02	0.02	---	---	---	---	---	---	---	---								
Copper	0.01		0.01	0.05	---	---	---	---	---	---	---	---								
Fluoride	0.10-0.14		---	0.2	---	---	---	---	---	---	---	---								
Iron	0.10-0.34		0.72	0.29	0.19	0.38	0.45	0.24	0.22	0.14	0.38	1.4								
Lead	0.01		0.04	0.027	---	---	---	---	---	---	---	---								
Manganese	0.01-0.04		0.02	0.05	---	---	---	---	---	---	---	---								
Mercury	0.0001		---	0.0002	---	---	---	---	---	---	---	---								
Molybdenum	ND-0.10		0.04	0.012	---	---	---	---	---	---	---	---								
Nickel	0.01		0.05	0.05	---	---	---	---	---	---	---	---								
Selenium	0.01-0.02		---	0.005	---	---	---	---	---	---	---	---								
Silver	ND-0.05		0.39	0.053	0.03	0.07	0.06	0.08	0.01	0.01	0.01	0.01								
Vanadium	0.01		0.03	0.04	---	---	---	---	---	---	---	---								
Zinc	0.01		3.4	---	---	---	---	---	---	---	---	---								
Silica (SiO ₂)																				
Radiochemistry																				
Uranium as U ²³⁸	0.25-0.55		0.047	0.009	0.044	0.016	0.015	0.007	0.006	0.016	0.005	0.018								
Radium-226	40-136		12	---	---	---	---	---	---	---	---	---								
Thorium-230	0.6-0.9		0.1	---	---	---	---	---	---	---	---	---								

* Units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).
**Airtight Sample
***Airtight Sample

TABLE 6

PARAMETER*	BASLINE RANGE	NPL 2/26/82	NPL 3/15/82	NPL 4/20/82	NPL 5/12/82	NPL 6/09/82	NPL 6/09/82	CIM 6/09/82	CIM 6/09/82	NPL 12/13/82	NPL 6/4/83	NPL 1/10/84	NPL 6/1/84	NPL 12/1/84
Field														
pH	7.8-9.0	11.77**	11.75**	12.01**	11.2**	9.4**	8.0***	8.3**	7.9***	12.1	8.1	8.8	8.6	8.3
Conductivity	1220-1650	2500	2200	2200	1875	1940	2000	1800	2000	2200	1650	2100	2100	1859
Major Constituents														
Bicarbonate	33-102	0	83 (OH)	73 (OH)	23 (OH)	63	96	61	0	0	98	78	100	90
Carbonate	0-65	359	329	287	120	Trace	0	0	285	285	0	78	4	11
Alkalinity (CaCO ₃ eq)	27-84	753	637	600	238	52	79	50	70	475	80	194	85	93
Calcium	90-117	197	203	217	159	145	168	120	130	161	104	140	122	123
Chloride	8-17	18	16	16	25	15	15	7	8	15	13	15	17	19
Magnesium	19-29	0.7	2.3	1.2	0.5	26	22	23	23	1.5	22	23	22	20
Potassium	8.0-12.9	13.0	7.9	11.8	10.0	7.7	7.8	6.6	5.9	11.0	9.5	7.9	8.6	8.1
Sodium	200-278	265	269	272	276	268	306	210	240	267	312	283	282	297
Sulfate	670-953	650	708	633	733	984	1050	780	870	591	927	788	949	896
TDS	970-1452	1260	1160	1280	1320	1420	1600	1200	1300	1175	1498	1460	1360	1460
Anion/Cation		93	92	125	101	98	100	99	96	95	99	102	96	100
Minor Constituents														
Ammonia as N	0.01-0.85							0.8	0.4					
Nitrate as N	0.1-0.8							0.05	0.05					
Nitrate as N	0.1							0.05	0.05					
Aluminum	0.1-0.2							4.5	1.5					
Arsenic	NE-0.01							0.009	0.009			<0.005	0.001	0.002
Barium	0.1							0.2	0.2					
Boron	90-117							0.1	0.1					
Cadmium	0.01							0.005	0.005					
Chromium	0.01							0.031	0.009					
Copper	0.01							0.025	0.005					
Fluoride	0.01-0.14							0.2	0.2					
Iron	0.10-0.34	0.26	0.12	0.09	0.08	3.59	0.89	4.0	0.80	0.22	0.03	0.07	<0.05	0.07
Lead	0.01							0.19	0.023					
Manganese	0.01-0.04							0.090	0.080					
Mercury	0.0001							0.0002	0.0001					
Molybdenum	ND-0.10							0.015	0.009					
Nickel	0.01							0.04	0.02					
Selenium	0.01-0.02							0.005	0.005					
Vanadium	ND-0.05	0.03	0.07	0.01	0.03	0.01	0.03	0.005	0.005	0.10	<0.01	0.001	0.001	0.001
Zinc	0.01							0.23	0.040					
Silica (SiO ₂)								8	10					
Radiochemistry														
Uranium as U	0.27-0.55	0.052	0.060	0.026	1.093	0.377	1.379	0.31	1.2	0.039	1.200	1.401	1.37	1.17
Radium-226	3.6-40-136							50	72		76	63	66	35
Thorium-230	0.6-0.9							9.0	3.3					

RENO CREEK
PATIENT 1
MONITOR WELL LSM-1

TABLE 7

PARAMETER*	RANGE	NEL 6/10/81	CDM 6/10/81	NEL 7/07/81	NEL 8/25/81	NEL 9/03/81	NEL 10/6/81	NEL 11/3/81	NEL 12/2/81	NEL 1/25/82	CDM 1/25/82
Field											
pH	11.7-12.2	11.20		11.67	11.44	11.05	11.2	11.3	11.2	12.1	-----
Conductivity	1840-2700	2128		2075	1792	2143	2020	1780	1880	2000	-----
Major Constituents											
Bicarbonate	0	0	0	0	0	0	45	0	0	0	0
Carbonate	58-145	380	817	430	458	478	475	466	480	282	82
Alkalinity (CaCO ₃ eq)	236-589	633	7	717	763	797	792	814	815	470	374
Calcium	114-150	74	92	142	109	115	120	79	105	136	98
Chloride	13-66	29	20	51	34	18	35	56	43	48	19
Magnesium	6-20	1.0	0.3	1.0	1.1	1.5	1.5	0.2	0.5	0.2	0.2
Potassium	16-29	9.7	7.6	7.9	8.4	8.3	8	7.7	8.0	5.3	5.4
Sodium	203-245	164	120	148	116	129	120	110	120	117	100
Sulfate	25-99	27.9	90	44	18	47	31	26	35	12	7
TDS	118-1370	660	579	600	600	840	720	540	620	560	472
Anion/Cation											
Minor Constituents											
Ammonia as N	ND-0.15	---	3.5							---	4.8
Nitrate as N	ND-0.2	---	0.05							---	0.05
Nitrite as N	0.1	---	0.05							---	0.05
Aluminum	0.78-1.03	14.9	---	9.6						0.06	4.2
Arsenic	ND-0.01	0.003	0.007							0.007	0.007
Barium	0.1	---	0.2							0.69	0.2
Boron	0.04-1.08	---	0.1							---	0.1
Cadmium	0.01	0.01	0.01							0.01	0.005
Chromium	0.01	0.05	0.02							0.03	0.01
Copper	0.01	0.08	0.06							---	0.010
Fluoride	0.29-0.40	---	0.5							0.7	0.1
Iron	0.03-3.0	0.25	0.28	0.12	0.16	0.06	0.05	0.08	0.16	0.98	0.43
Lead	0.1	0.07	0.032							0.01	0.026
Manganese	ND-0.12	0.02	0.05							1.11	0.010
Mercury	0.0001	---	0.0002							---	0.0001
Molybdenum	0.01	0.02	0.05							0.22	0.005
Nickel	0.01	0.08	0.019							0.02	0.02
Selenium	ND-0.04	---	0.009							---	0.005
Vanadium	ND-0.10	0.61	0.55	0.10	0.30	0.09	0.05	0.20	0.10	0.23	0.26
Zinc	0.1	0.31	0.05							0.02	0.019
Silica (SiO ₂)		6.9								10.7	---
Radiochemistry											
Uranium as U ²³⁸	0.001-0.003	0.096	0.11	0.040	0.026	0.017	0.021	0.005	0.005	0.015	0.027
Radium-226	3.8	2.1-27.8	36							20	2.7
Thorium-230	0.6-2.1	3.7									

* Units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).

28/14

**Airlifted Sample

RENO CREEK (Fig. 2)
Pattern 1
MONITOR WELL LSM-1

TABLE 7

PARAMETER*	RANGE	NPL 2/26/82	NPL 3/15/82	NPL 4/20/82	NPL 5/19/82	NPL 6/08/82	NPL 6/08/82	COM 6/11/82	COM 6/11/82	NPL 12/13/82	NPL 6/4/83	NPL 1/10/84	NPL 6/1/84	NPL 12/1/84
Field														
pH	11.7-12.2	11.9	12.0	12.2	11.7	11.6**	10.0***	11.5**	10.1***	11.3	11.8	11.9	11.6	11.7
Conductivity	1840-2700	1930	1800	1900	1975	1075	450	860	400	500	1240	1630	1350	640
Major Constituents														
Bicarbonate	0	0	117(OH)	137(OH)	119(OH)	64(OH)	233	0	81	0	0	0	0	0
Carbonate	58-145	536	500	533	480	278	83	64	67	140	392	409	433	254
Alkalinity (CaCO ₃ eq)	236-589	1113	1028	1117	998	570	329	260	180	233	822	682	722	423
Calcium	114-150	54	84	118	94	109	12	85	13	11	52	66	53	46
Chloride	13-66	28	56	29	33	50	26	20	21	21	26	47	30	33
Magnesium	6-20	3.9	0.8	0.6	0.5	0.2	0.1	0.5	0.5	0.2	0.2	0.4	0.2	0.2
Potassium	16-29	5.6	5.9	8.5	4.5	6.5	4.4	5.2	3.4	5.8	6.8	5.3	5.4	44
Sodium	203-245	134	95	115	117	118	97	93	77	98	106	97	97	101
Sulfate	25-99	9	21	19	17	18	12	8	4	33	20	11	11	31
TD5	1118-1370	735	760	580	620	580	350	270	220	400	462	420	440	340
Anion/Cation								96	98	91	93			
Minor Constituents														
Ammonia as N	ND-0.15							4.4	1.2					
Nitrate as N	ND-0.2							0.05	0.05					
Nitrite as N	0.1							0.05	0.05					
Aluminum	0.78-1.03							3.5	1.1					
Arsenic	ND-0.01							0.010	0.011					
Barium	0.1							0.2	0.2					
Boron	0.04-1.08							0.1	0.1					
Cadmium	0.01							0.005	0.005					
Chromium	0.01							0.011	0.005					
Copper	0.29-0.40							0.006	0.005					
Fluoride	0.03-3.0	1.74	0.61	1.69	1.27	0.31	0.11	0.34	0.17	0.08	0.07	0.25	0.30	0.27
Iron	0.1							0.043	0.005					
Lead	ND-0.12							0.008	0.005					
Manganese	0.0001							0.0001	0.0001					
Mercury	0.01							0.010	0.009					
Molybdenum	0.01							0.003	0.002					
Nickel	ND-0.04							0.005	0.005					
Selenium	ND-0.10	0.01	0.70	0.09	0.03	0.12	0.04	0.11	0.16	1.31	0.06	0.005	<0.021	0.001
Vanadium	0.1							0.14	0.16					0.026
Zinc	0.1							14	12					
Silica (SiO ₂)														
Radiochemistry														
Uranium as U ²³⁸	0.001-0.003	0.019	0.075	0.028	0.023	0.004	0.041	0.009	0.007	0.064	0.025	0.036	0.055	0.084
Radium-226	2.1-27.8							26	4.8			9	16	32
Thorium-230	0.6-2.1							0.8	0.4					

RENO CREEK
Pattern 1
MONITOR WELL USM-1

TABLE 8

PARAMETER*	BASELINE		NML	COW	NML	NML	NML	NML	NML	NML	NML	COW
	RANGE		6/10/81	6/10/81	7/07/81	8/25/81	9/04/81	10/6/81	11/3/81	12/2/81	1/25/82	1/25/82
Field												
pH	7.9-8.7	7.77**			7.33**	7.68**	7.44**	7.56**	7.63**	7.59**	7.05**	-----
Conductivity	300-430	671			585	700	582	650	620	680	750	-----
Major Constituents												
Bicarbonate	59-297	398			385	285	336	340	350	340	418	396
Carbonate	0-129	0			0	0	0	0	0	0	0	0
Alkalinity (CaCO ₃ eq)	85-258	326			316	234	275	279	287	279	343	327
Calcium	10-20	26			31	31	29	30	28	32	49	36
Chloride	17-36	27			26	23	27	25	26	26	23	22
Magnesium	2.7-8.0	6			39	5.4	4.7	5	7	5	7.4	6.6
Potassium	6-13	5.8			4.5	4.9	5.1	5	5	5	3.6	3.6
Sodium	95-110	172			130	173	136	140	135	142	138	130
Sulfate	11-25	7.9			8.3	10	9.7	12	11	11	8	58
TDS	320-364	400			440	440	440	450	460	440	520	420
Anion/Cation		102										97
Minor Constituents												
Ammonia as N	ND-0.19	---			0.2							0.2
Nitrate as N	ND-0.5	---			0.05							0.05
Nitrite as N	0.1	---			0.05							0.05
Aluminum	ND-1.45	0.46			---							6.7
Arsenic	0.01-0.03	0.001			0.005							0.005
Barium	0.1	---			0.2							0.49
Boron	1.14-1.25	---			0.1							0.3
Cadmium	0.01	0.01			0.01							0.01
Chromium	0.01	0.02			0.02							0.01
Copper	0.01	0.01			0.05							0.06
Fluoride	0.95-1.00	---			0.8							---
Iron	ND-3.0	0.71			1.05	0.75	0.71	0.82	0.95	0.84	0.54	0.2
Lead	0.1	0.06			0.008							0.5
Manganese	0.01-1.10	0.11			0.05							0.2
Mercury	0.0001	---			0.0001							0.01
Molybdenum	0.01	0.05			0.005							0.06
Nickel	0.01	0.02			0.05							0.12
Selenium	0.01	---			0.005							0.05
Vanadium	ND-0.07	0.18			0.041	0.22	0.04	0.03	0.03	0.03	0.04	0.02
Zinc	0.1	0.12			0.11							0.005
Silica (SiO ₂)		9.7										0.04
												0.01
												0.074
												10.1
Radiochemistry												
Uranium as U ²³⁸	ND-0.014	0.035			0.001	0.049	0.005	0.012	0.009	0.010	0.008	0.005
Radium-226	3.3-31.2	0.9			0.4							0.004
Thorium-230	0.6-2.3	0.4										1.6
												1.3

Units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).

**Galled Sample

***Airlifted Sample

28/L3

* Units expressed in mg/l (ppm) except conductivity (umhos/cm) and radionuclides (pCi/l).

**Batted Sample

***Airlifted Sample

28/73

RENO CREEK (Pg 2)
Pattern 1
MONITOR WELL USM-1

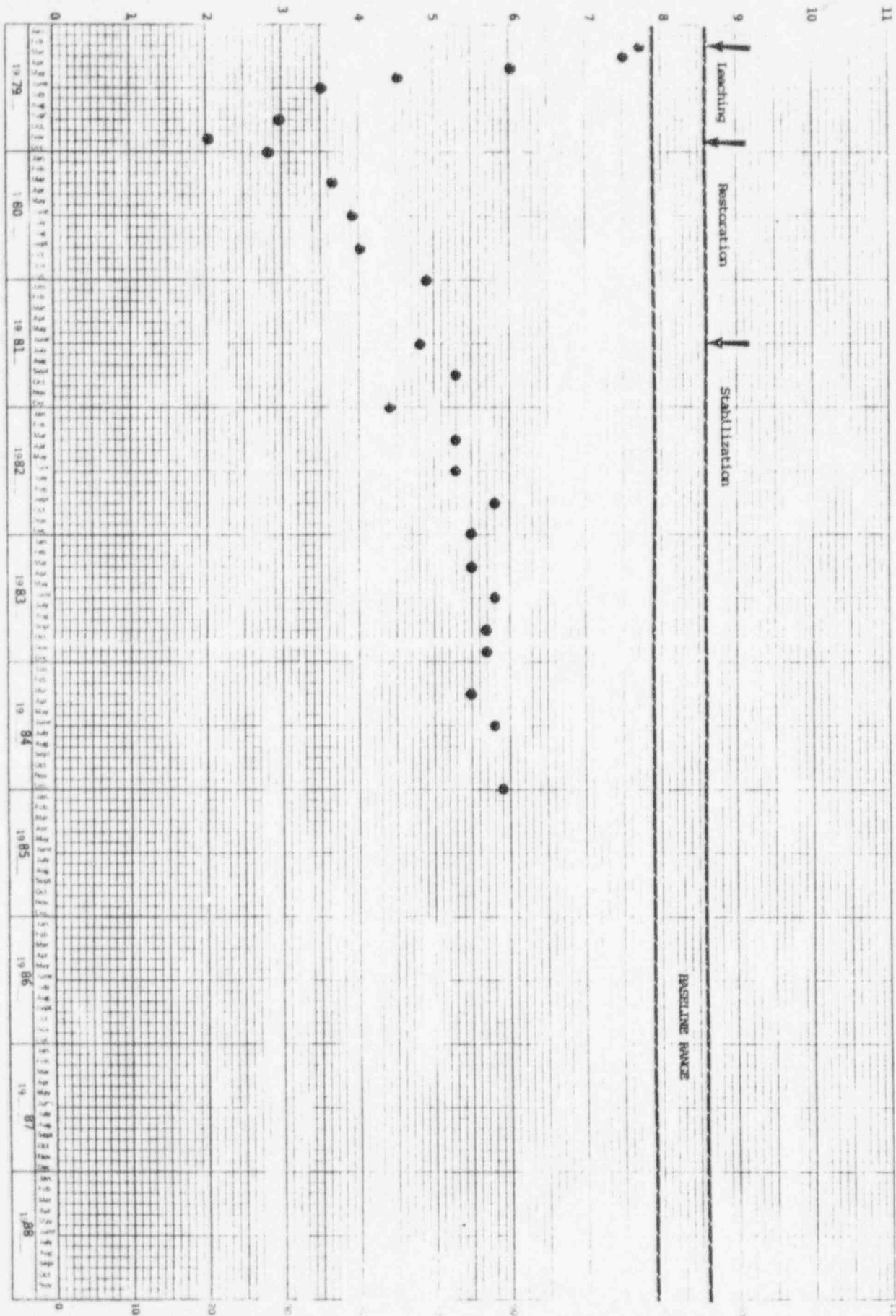
TABLE 8

PARAMETER	BASLINE RANGE	NPL 2/26/82	NPL 3/15/82	NPL 4/20/82	NPL 5/12/82	NPL 6/11/82	NPL 6/11/82	CMH 6/11/82	CMH 6/11/82	NPL 12/13/82	NPL 6/4/83	NPL 1/10/84	NPL 6/1/84	NPL 12/1/84
Field														
pH	7.9-8.7	7.47**	7.32**	7.5**	8.3**	8.1**	8.1***	8.2**	8.2***	8.1	7.7	7.5	7.4	7.1
Conductivity	300-430	750	675	660	650	750	680	650	600	600	520	700	650	641
Major Constituents														
Bicarbonate	59-297	521	517	496	451	464	421	440	390	390	349	474	445	430
Carbonate	0-129	0	0	0	0	0	0	0	0	0	0	0	0	0
Alkalinity (CaCO ₃ eq)	85-258	427	424	407	370	380	345	360	320	320	286	389	365	352
Calcium	10-20	140	134	146	94	39	43	31	34	31	23	53	34	37
Chloride	17-36	93	121	129	130	28	12	21	22	21	20	27	27	25
Magnesium	2.7-8.0	0.3	3.7	2.8	4.4	6.8	7.7	6.5	7.0	4.4	3.8	8.0	24	4.5
Potassium	6-13	8.1	5.1	5.4	7.0	4.8	4.9	3.7	4.0	4.6	5.2	5.6	5.2	4.0
Sodium	95-110	113	122	131	81	143	136	115	99	123	113	127	113	121
Sulfate	11-25	10	15	17	15	13	12	6	6	2	16	6	9	7.2
TDS	320-364	380	360	400	420	400	420	420	370	380	395	400	400	400
Antion/Cation		103	101	119	87	101	108	90	94	96	96	100	103	97
Minor Constituents														
Ammonia as N	ND-0.19							0.2	0.2					
Nitrate as N	ND-0.5							0.05	0.05					
Nitrite as N	0.1							0.05	0.05					
Aluminum	ND-1.45							2.8	5.0					
Arsenic	0.01-0.03							0.012	0.012					
Barium	0.1							0.2	0.2					
Boron	1.14-1.25							0.1	0.1					
Cadmium	0.01							0.005	0.005					
Chromium	0.01							0.010	0.011					
Copper	0.01							0.010	0.025					
Fluoride	0.95-1.00							0.9	1.1					
Iron	ND-3.0	0.84	1.53	0.43	0.04	2.54	5.12	3.1	7.1	0.85	0.77	5.6	1.6	1.4
Lead	0.1							0.041	0.047					
Manganese	0.01-1.10							0.12	0.17					
Mercury	0.0001							0.0081	0.0001					
Molybdenum	0.01							0.009	0.012					
Nickel	0.01							0.03	0.04					
Selenium	0.01							0.005	0.005					
Vanadium	ND-0.07	0.76	0.01	0.01	0.01	0.01	0.01	0.005	0.037	0.21	0.03	0.008	<0.001	0.001
Zinc	0.1							0.16	0.18					
Silica (SiO ₂)								12	10					
Radiochemicals														
Uranium as U ⁰	ND-0.014	0.189	0.017	0.043	0.044	0.022	0.016	0.003	0.006	0.009	0.015	0.035	0.015	0.013
Radium-226	3.8							3.1	6.0			19.2	9.5	8.4
Thorium-230	0.6-2.3							1.3	2.6					

ROAD CREEK PATTER 1

PRODUCTION WELL P-1

pH

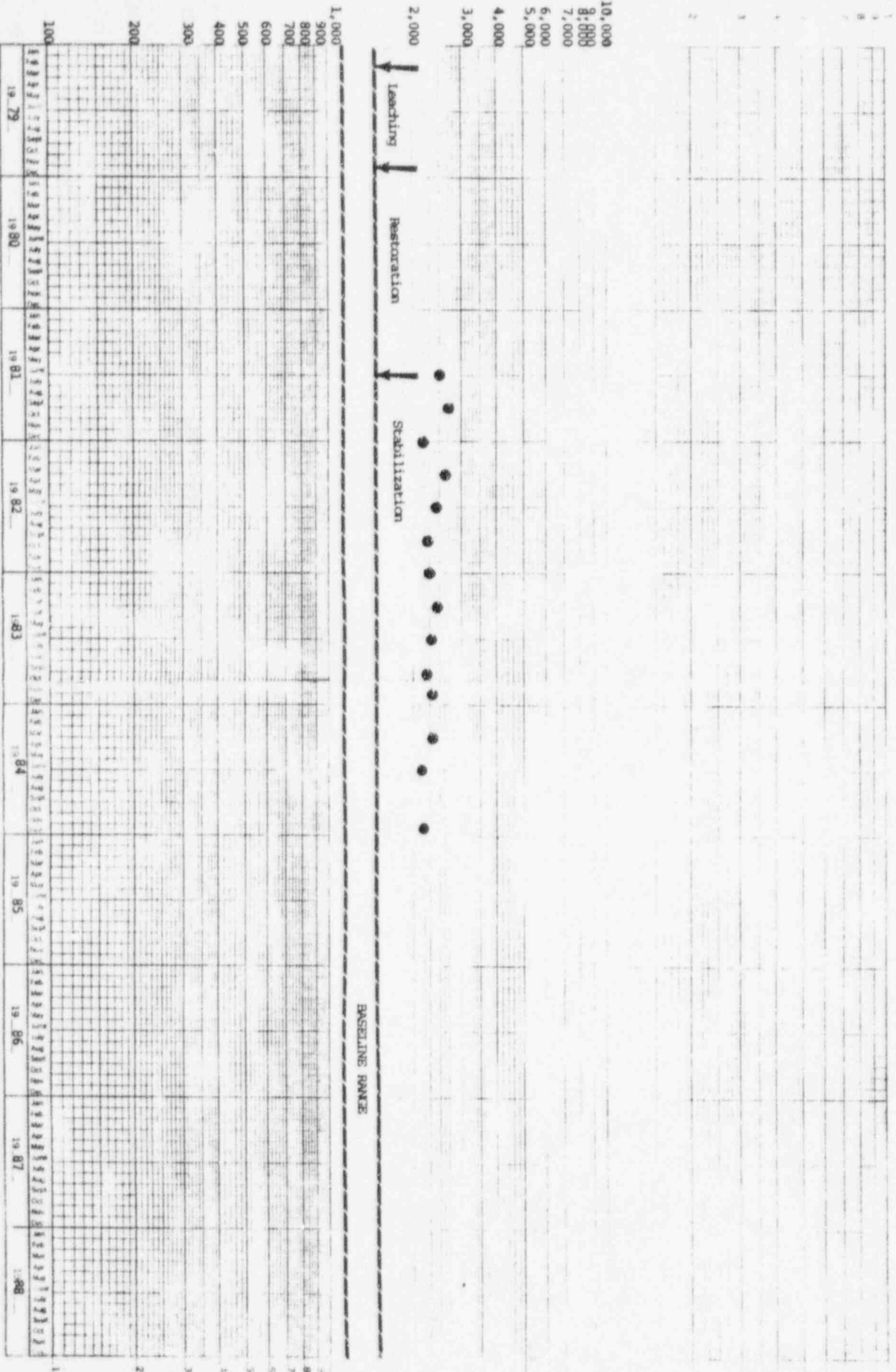


RENO CREEK PATERN 1

PRODUCTION WELL P-1

TDS

TDS mg/l



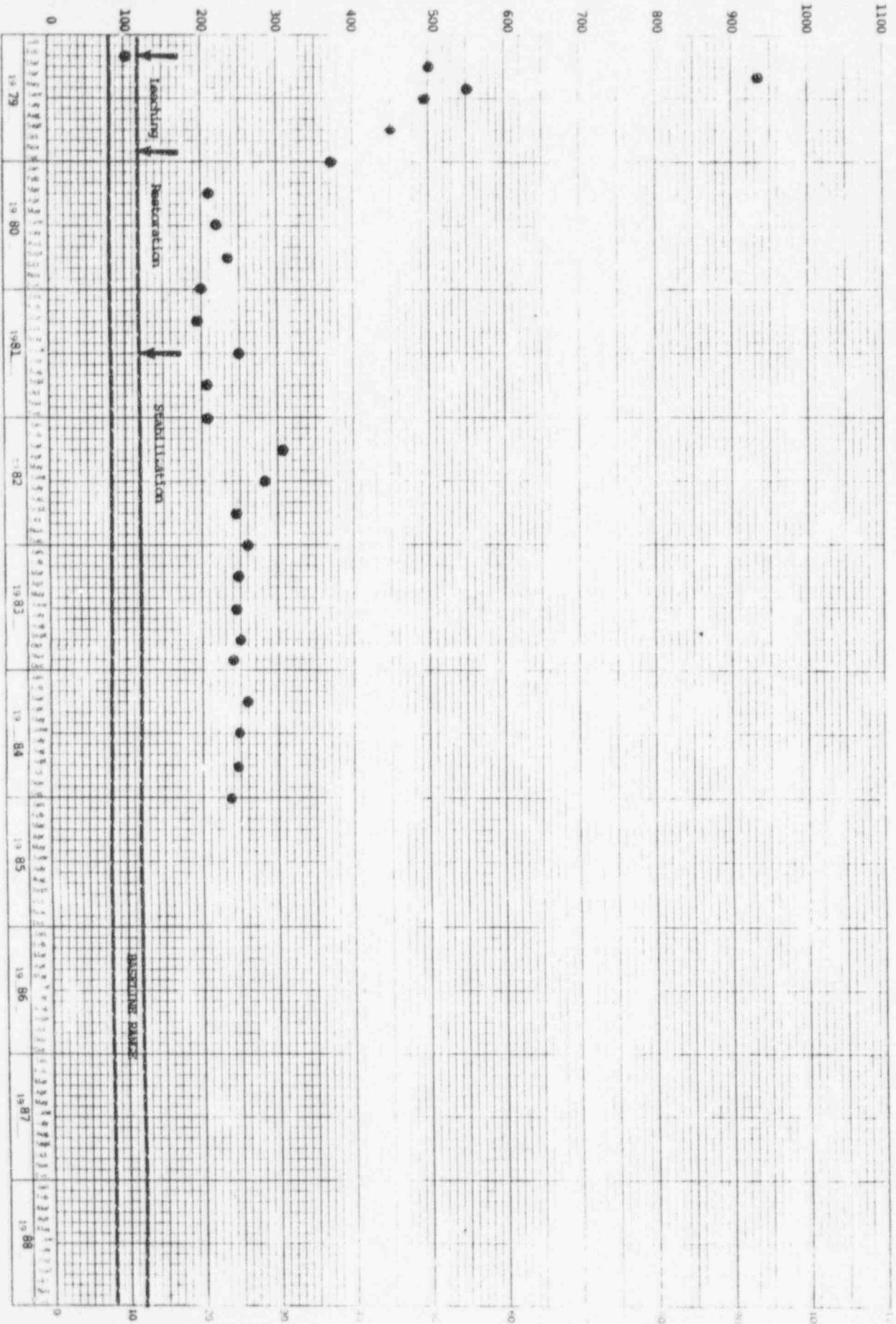
BASELINE RANGE

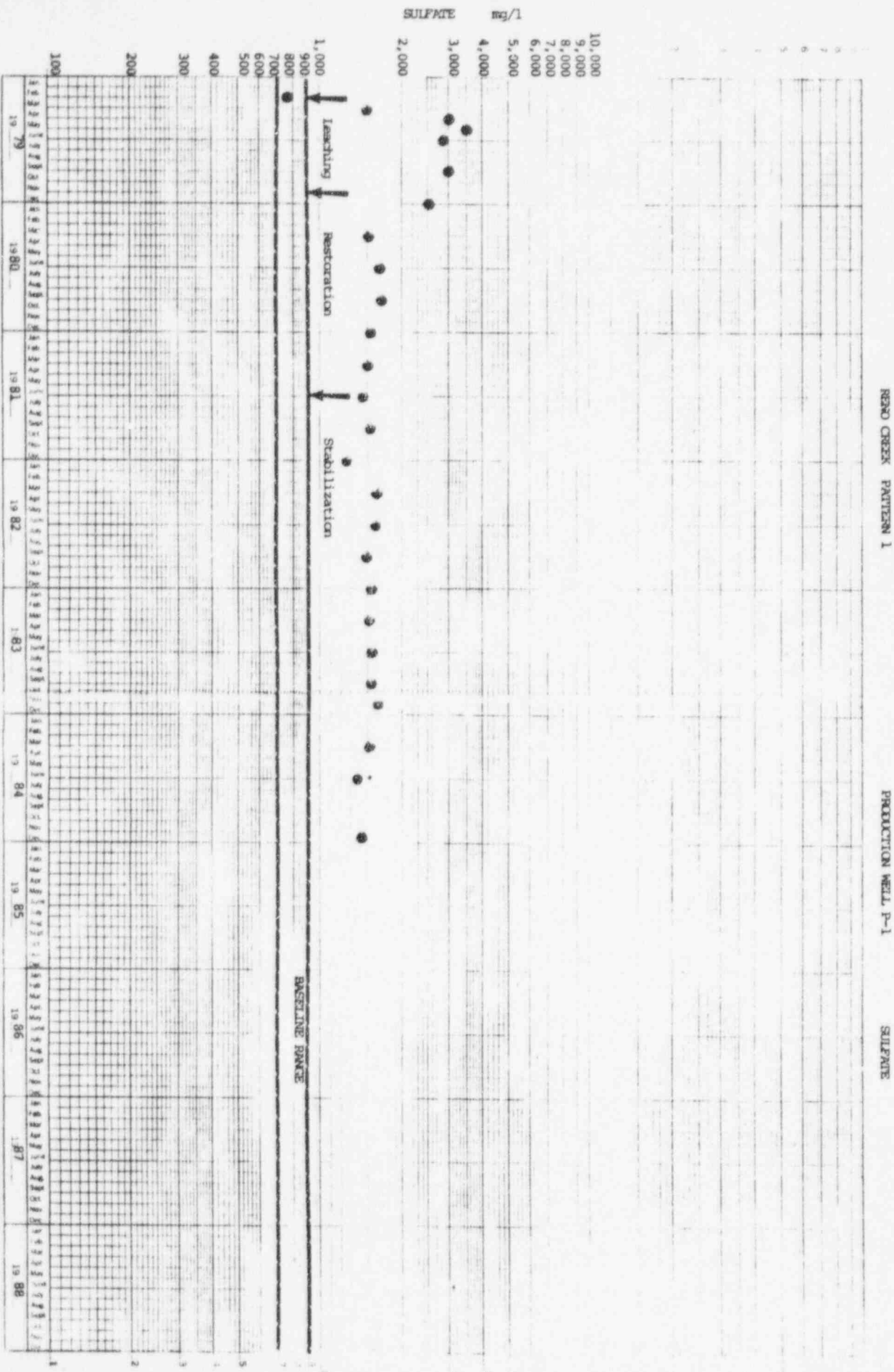
RENO CREEK PATTERNS 1

PRODUCTION WELL P-1

CALCIUM

CALCIUM mg/l



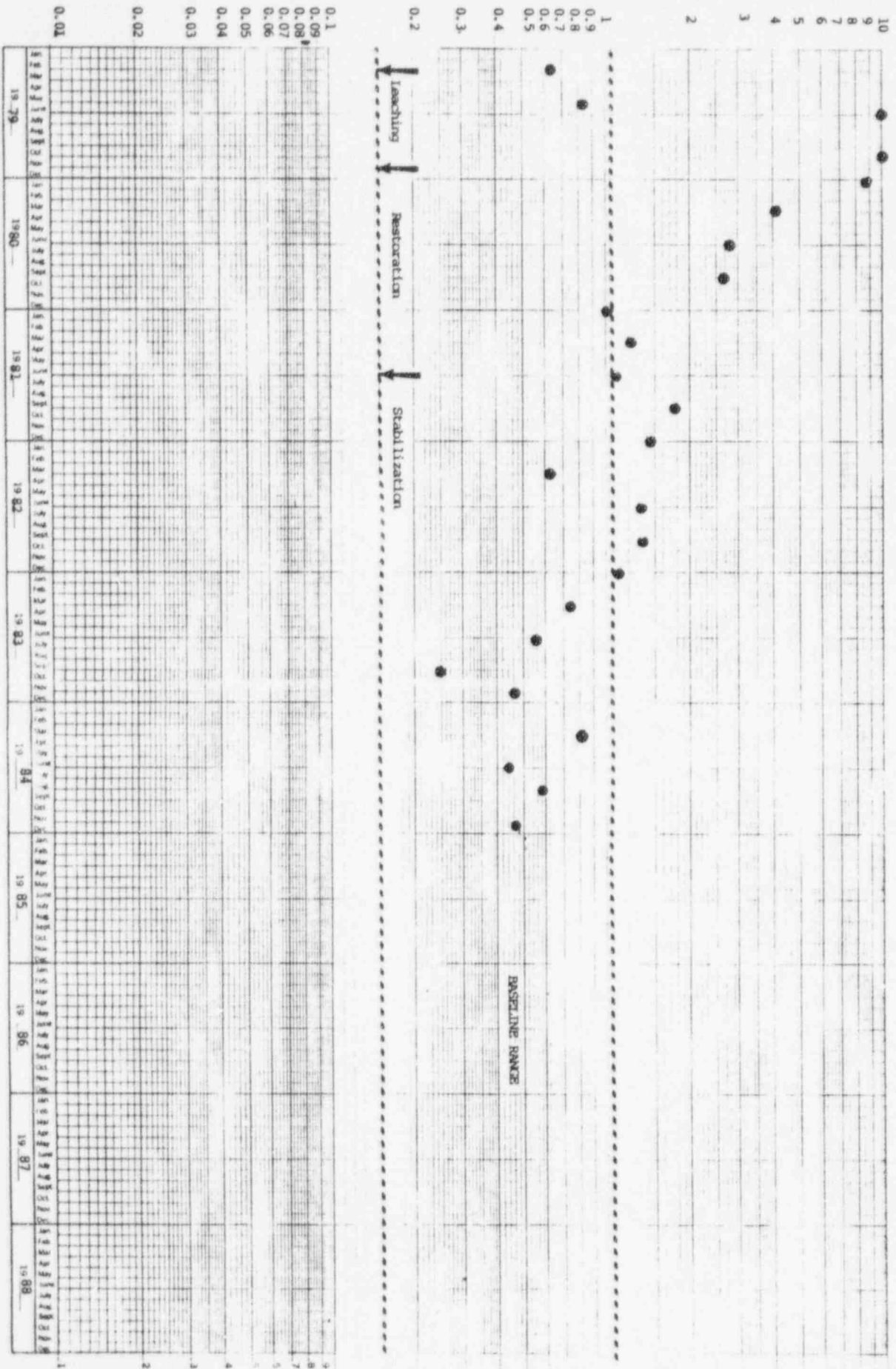


URANIUM AS U_3O_8 mg/l

RENO CREEK PATERN 1

PRODUCTION WELL P-1

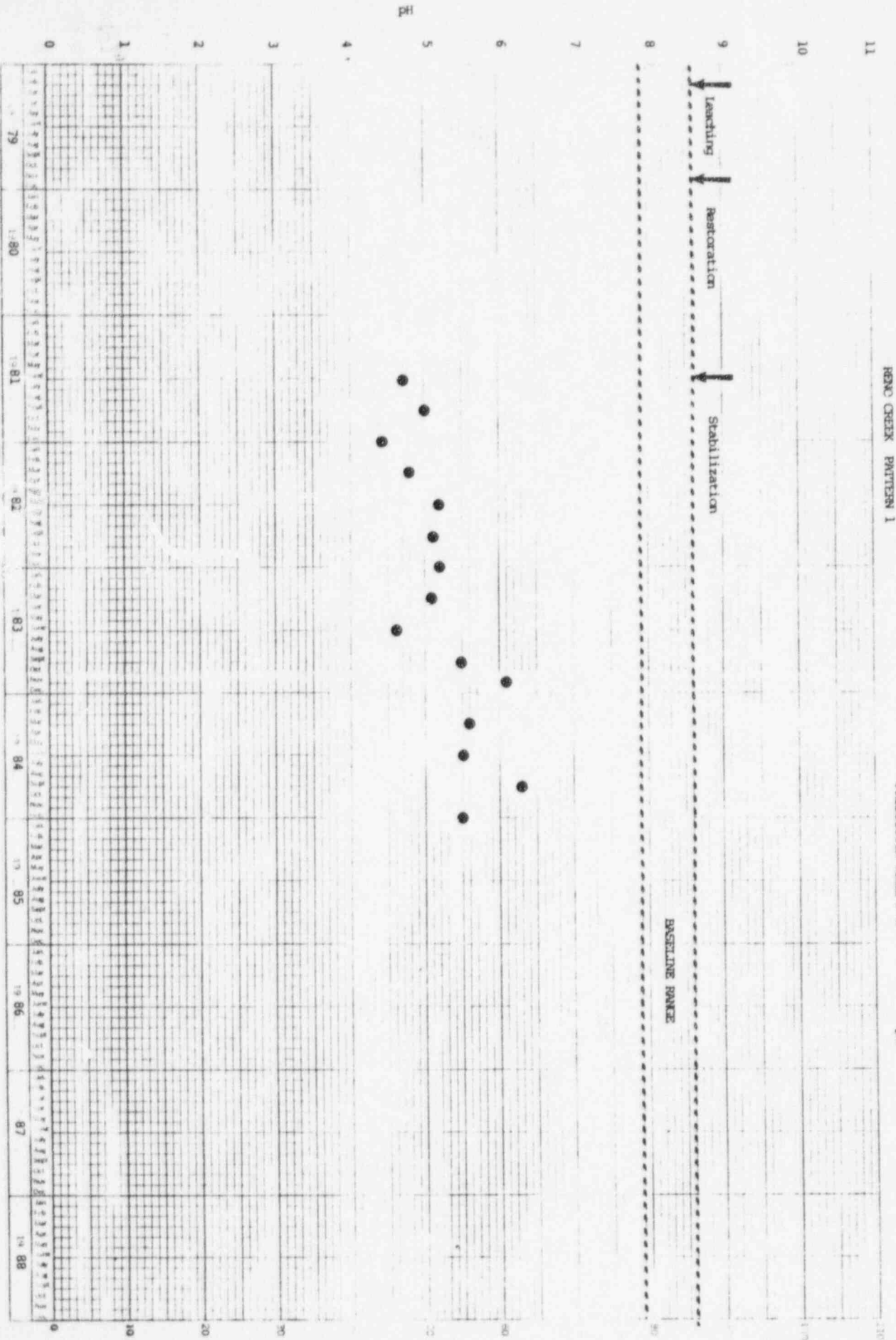
URANIUM as U_3O_8



RENO CREEK PATTERN 1

PRODUCTION WELL P-2

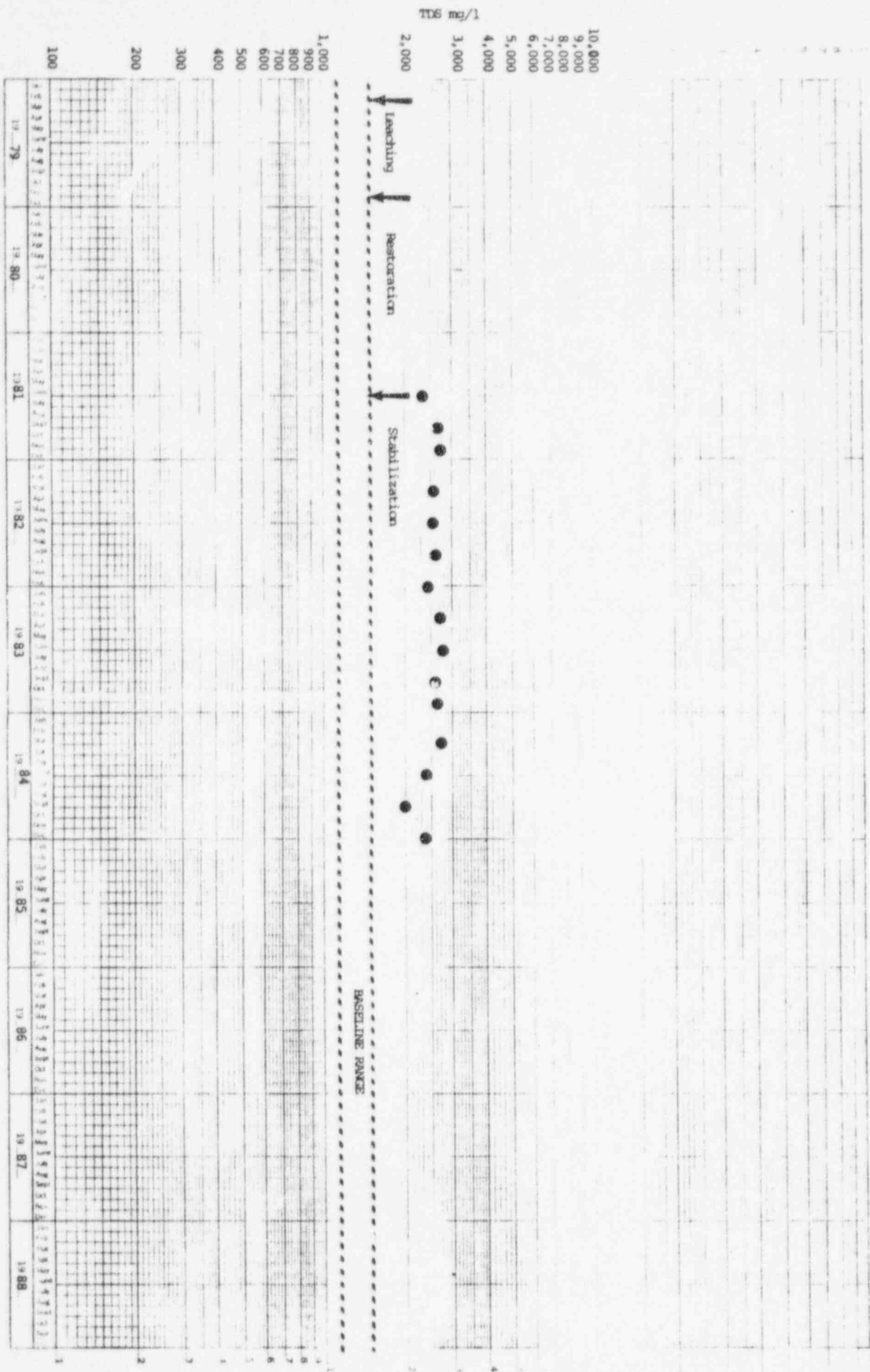
pH



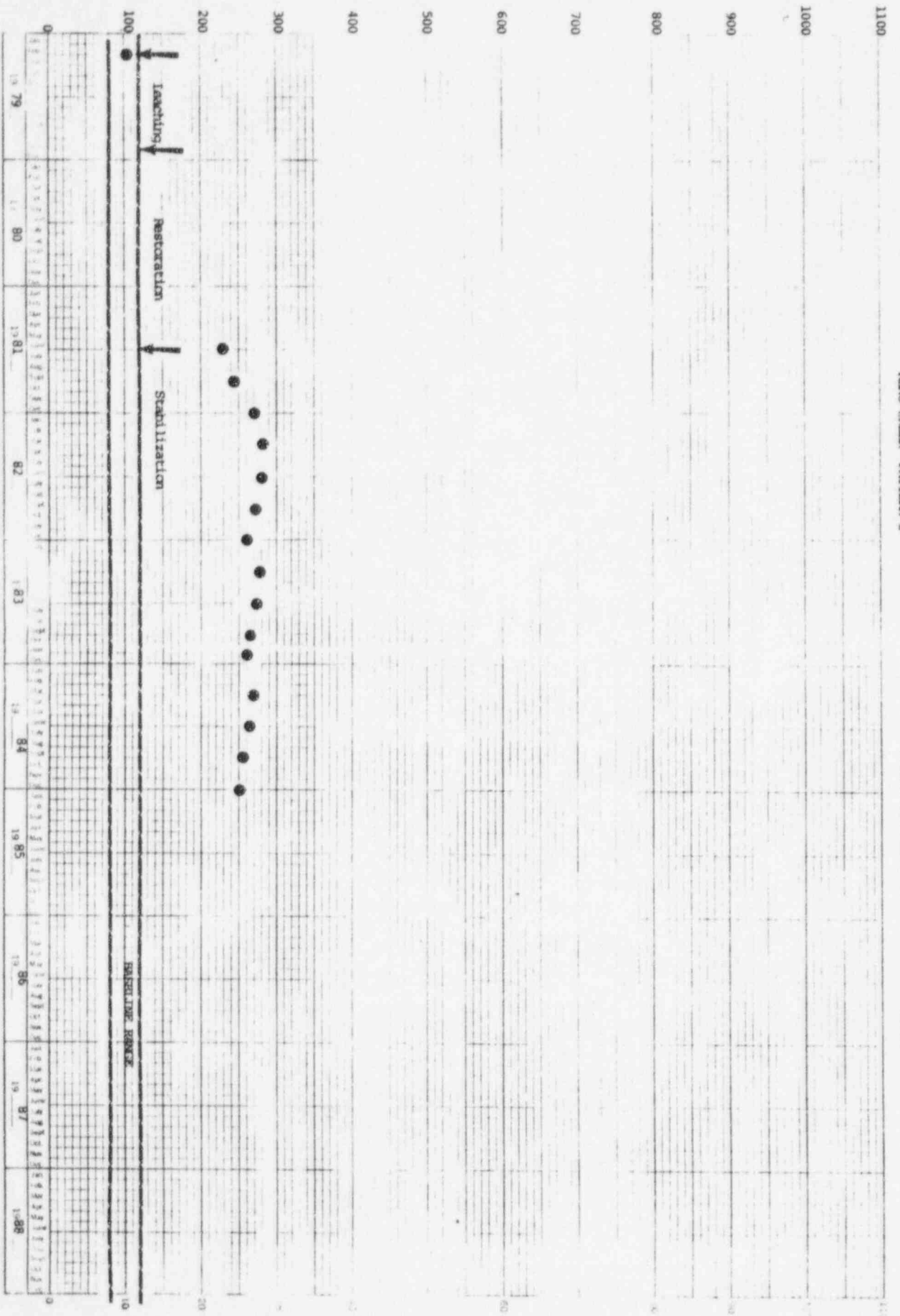
RINO CREEK PATTERN 1

PRODUCTION WELL P-2

TDS

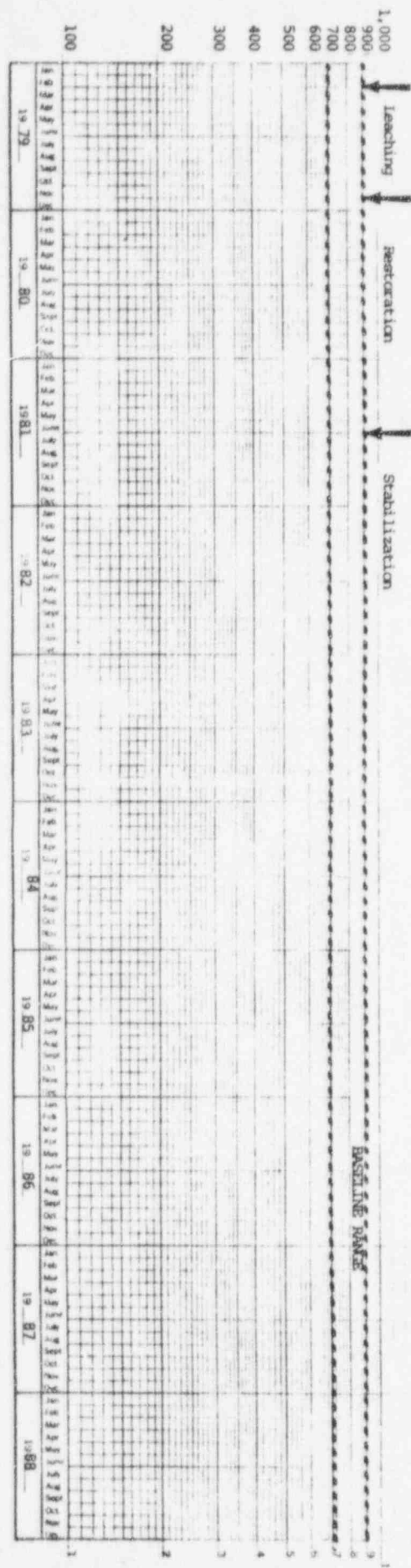


CALCIUM mg/l



SULFATE mg/l

10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000



RENO CREEK PATTERN 1

PRODUCTION WELL P-2

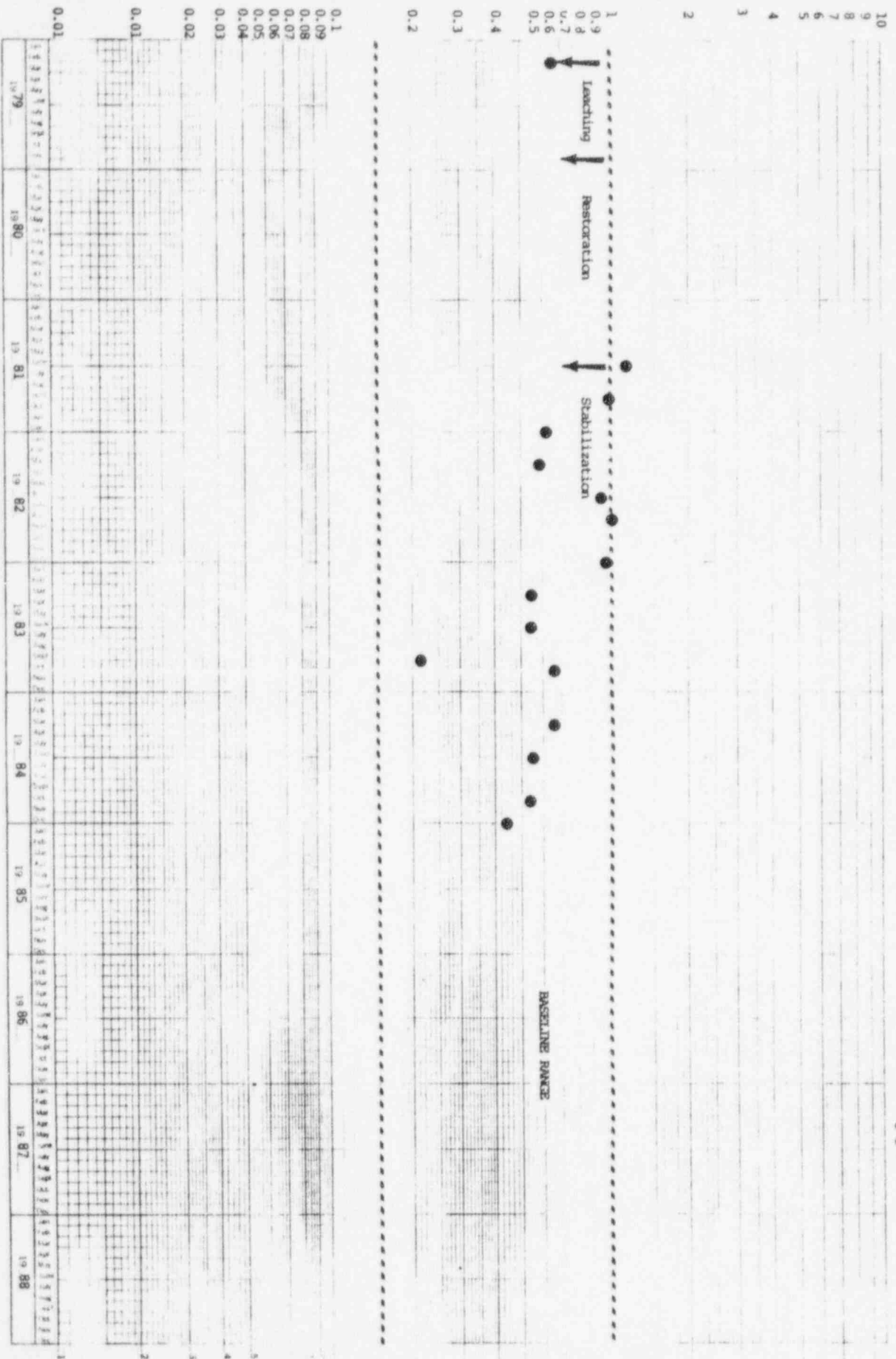
SULFATE

REMO CREEK PATTERN 1

PRODUCTION WELL P-2

Uranium as U_3O_8

URANIUM as U_3O_8



RENO CREEK

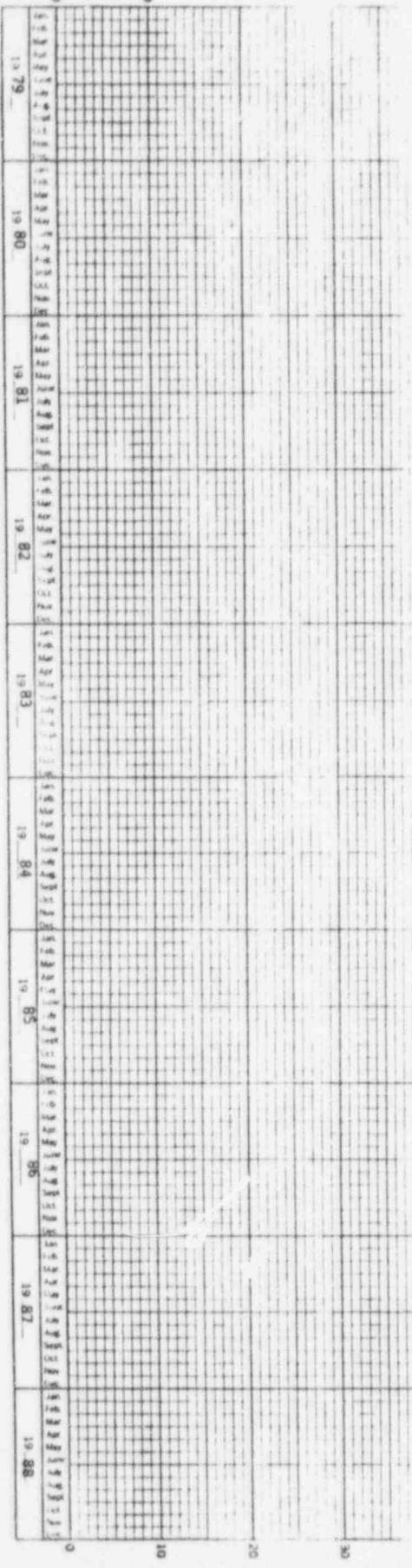
PATTERN 1

MONITOR WELL N-1

pH



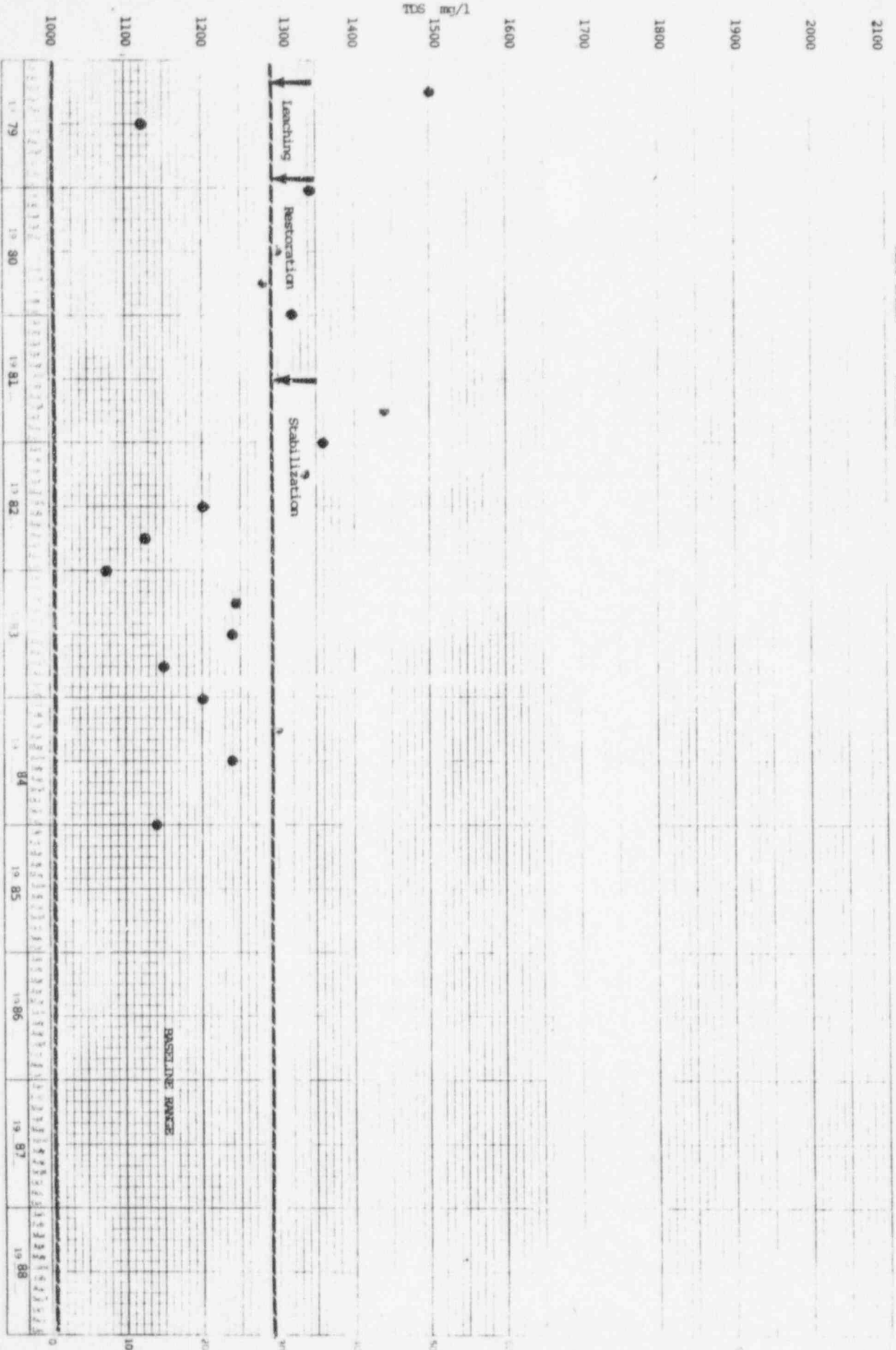
pH



REDWOOD CREEK PARTIAN 1

MONITOR WELL N-1

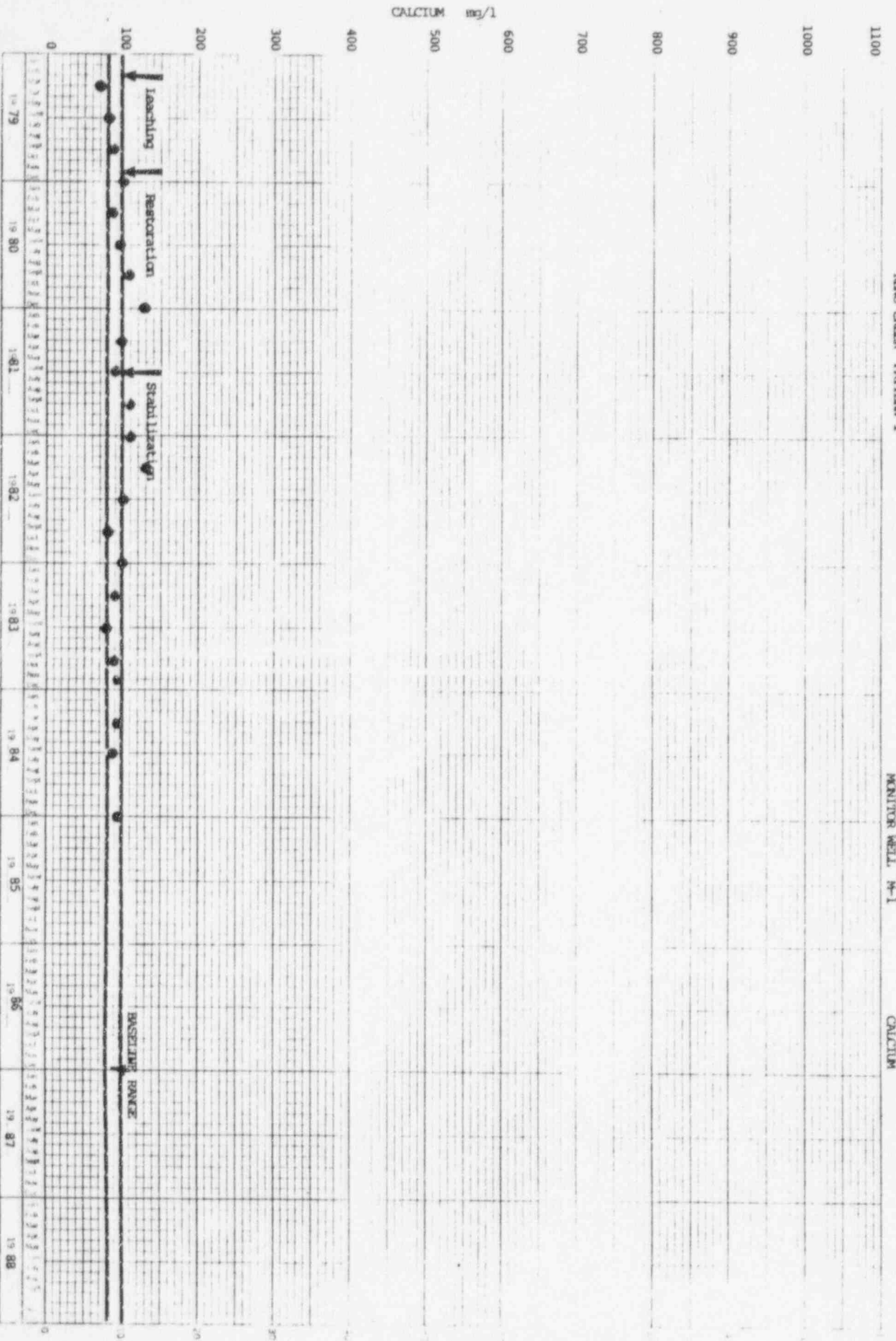
TDS



ROUND CREEK PATTERNS 1

MONITOR WELL N-1

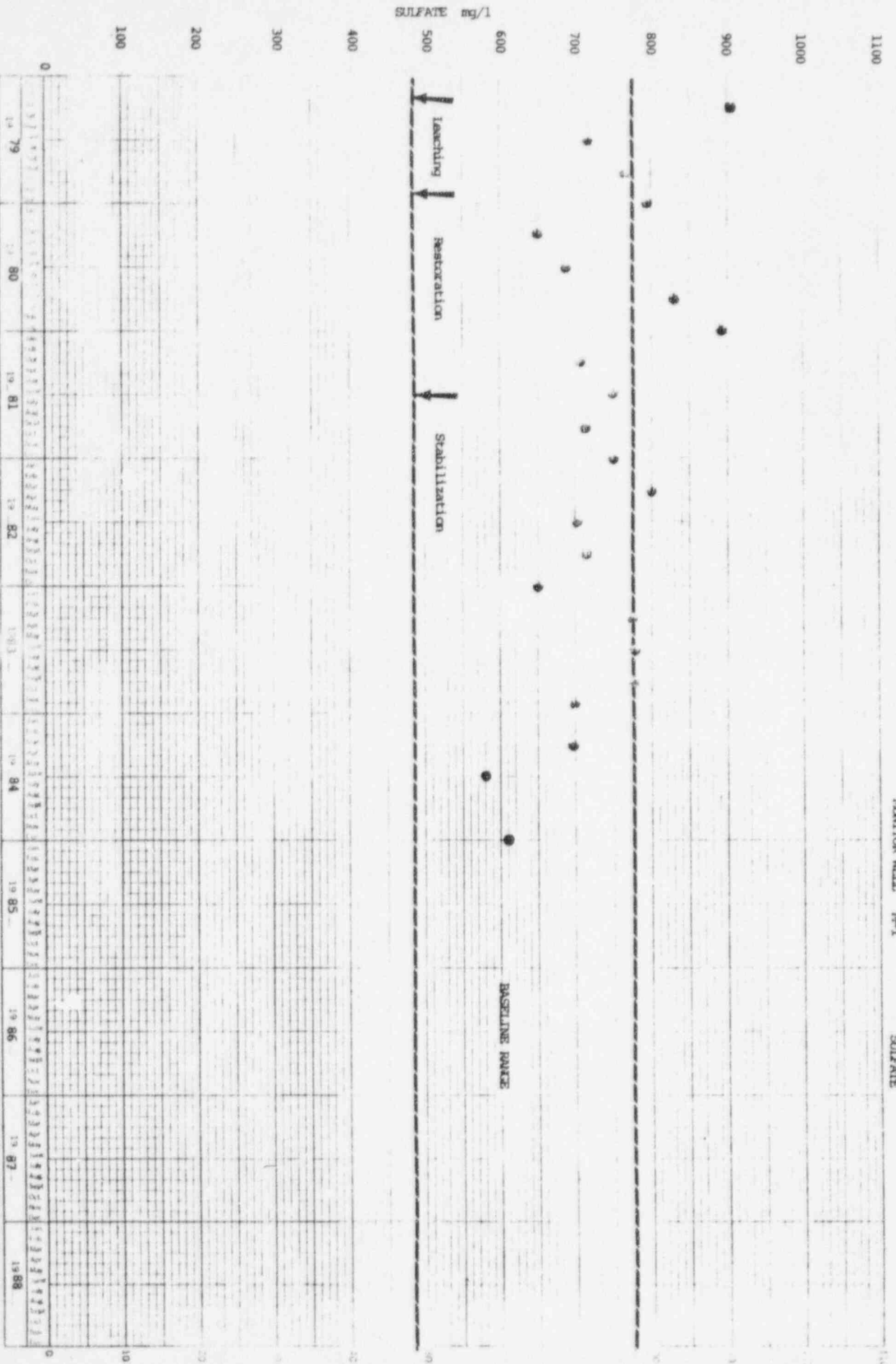
CALCIUM



RENO CREEK PATTERN 1

MONITOR WELL M-1

SULFATE



URANIUM as U_3O_8 mg/l

.11

RENO CREEK PATERN 1

MONITOR WELL M-1

URANIUM

.10

Leaching

Restoration

Stabilization

.09

.08

.07

.06

.05

.04

.03

.02

.01

.0

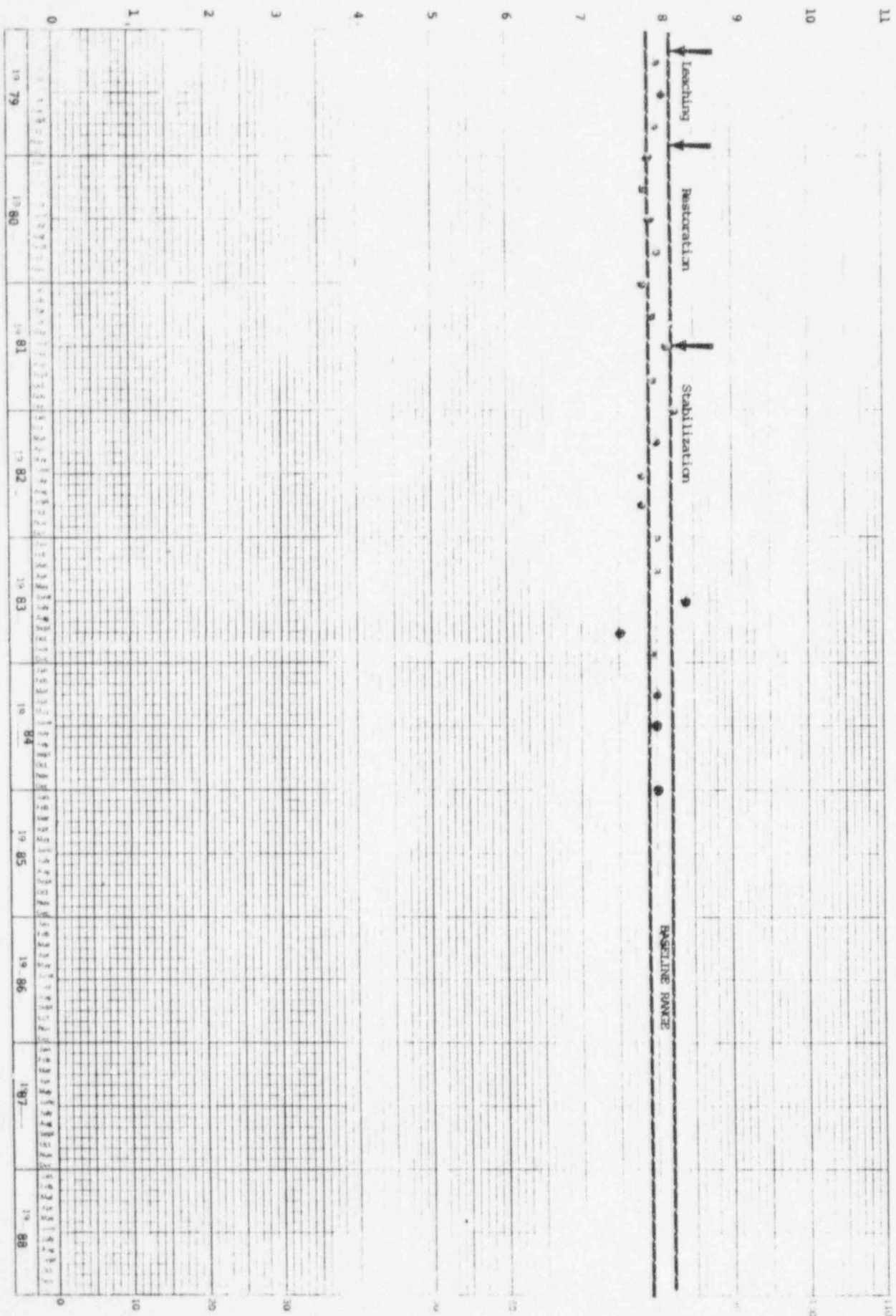
1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88

BASLINE RANGE

RENO CREEK PATTERNS 1

MONITOR WELL M-2

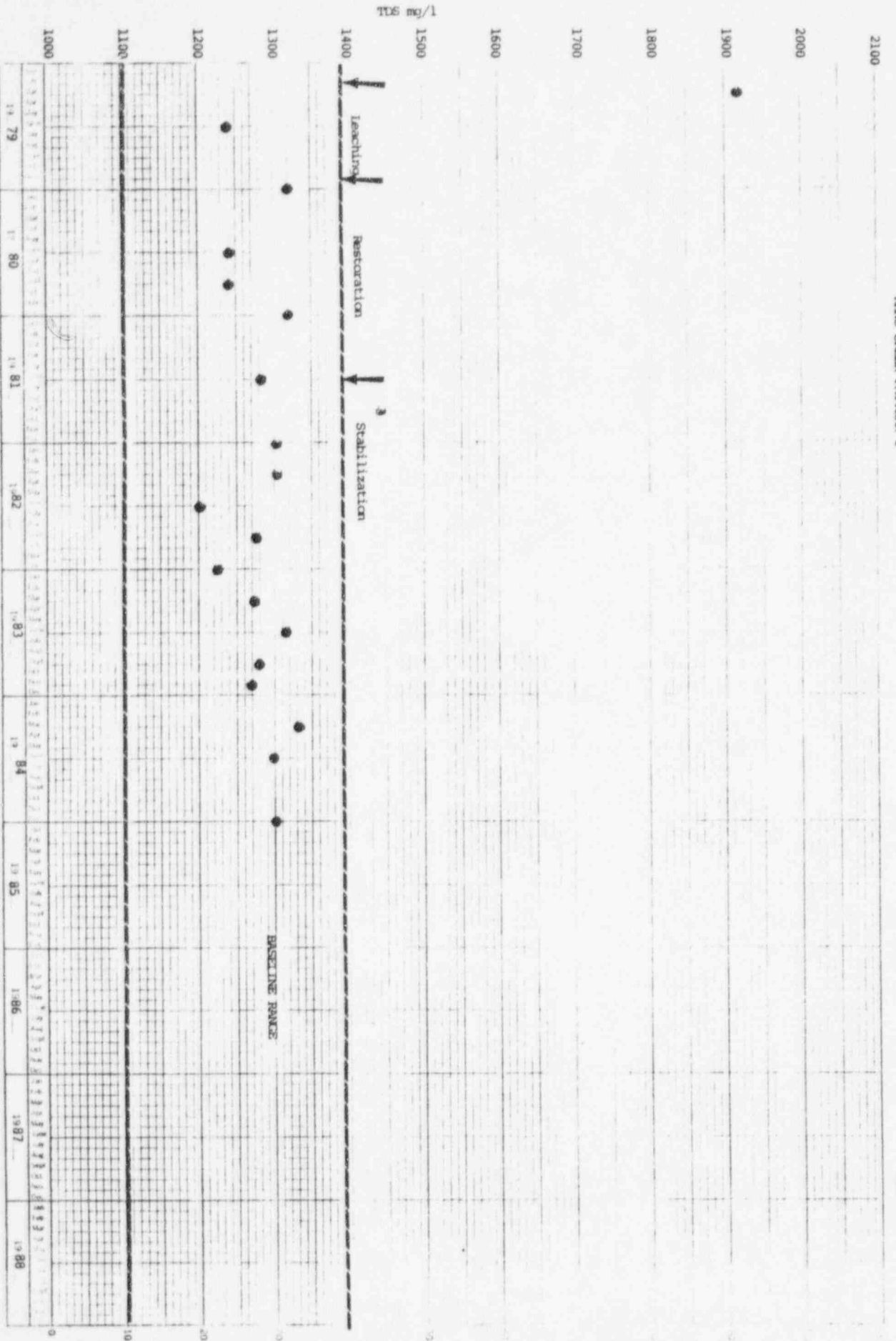
PH



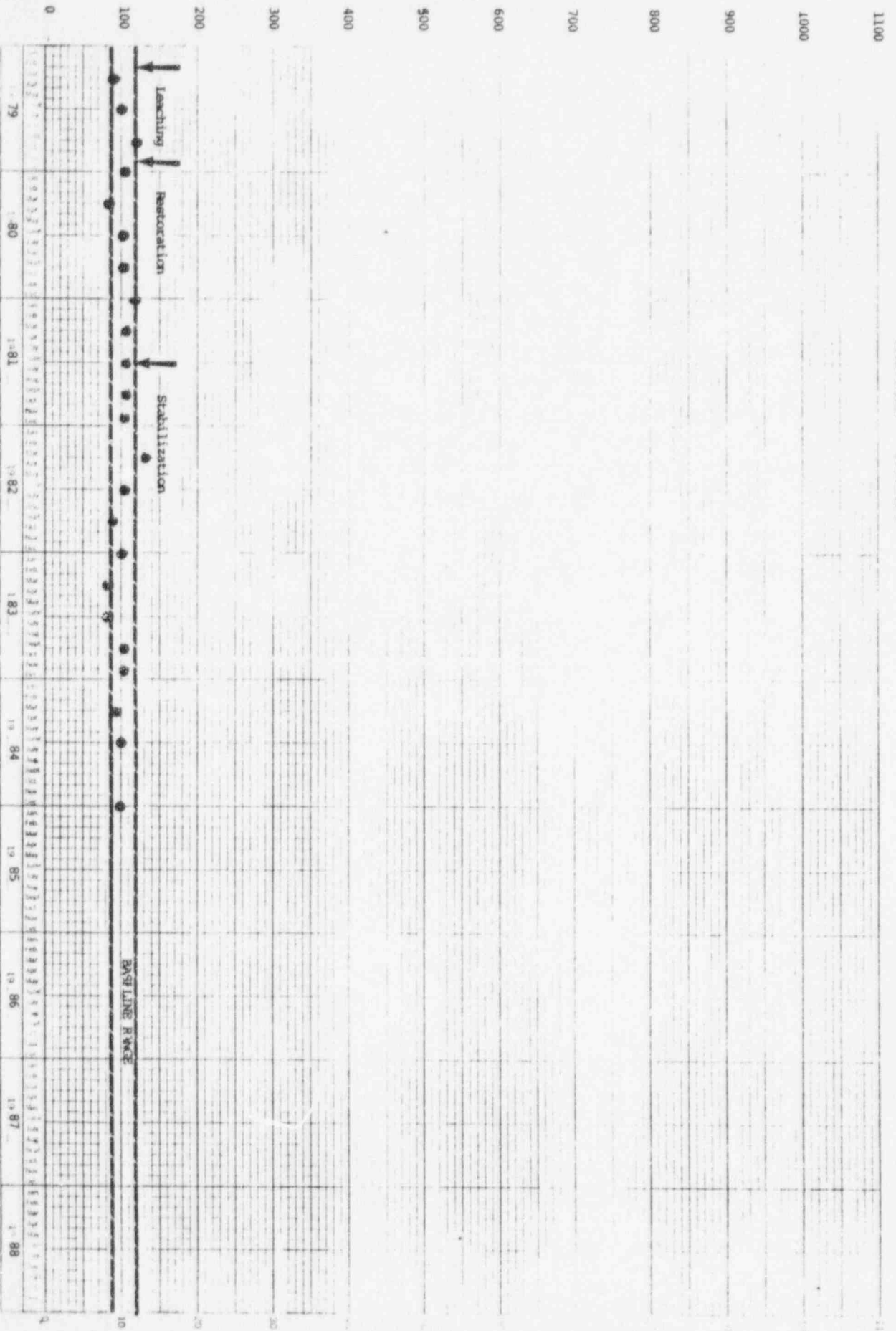
RENO CREEK PATTER 1

MONITOR WELL M-2

TDS



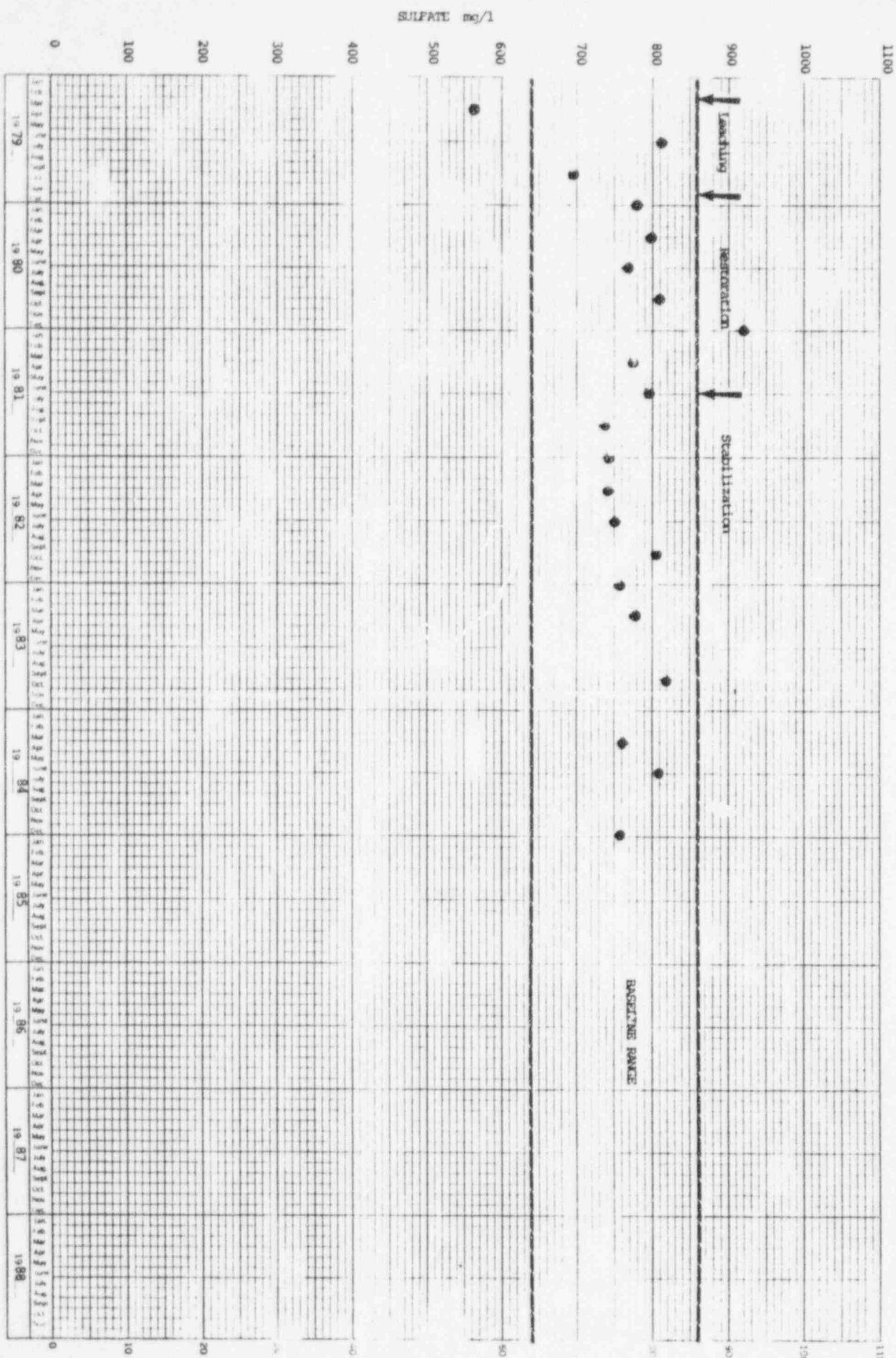
CALCIUM mg/l



RENO CREEK PATTERN 1

MONITOR WELL, M-2

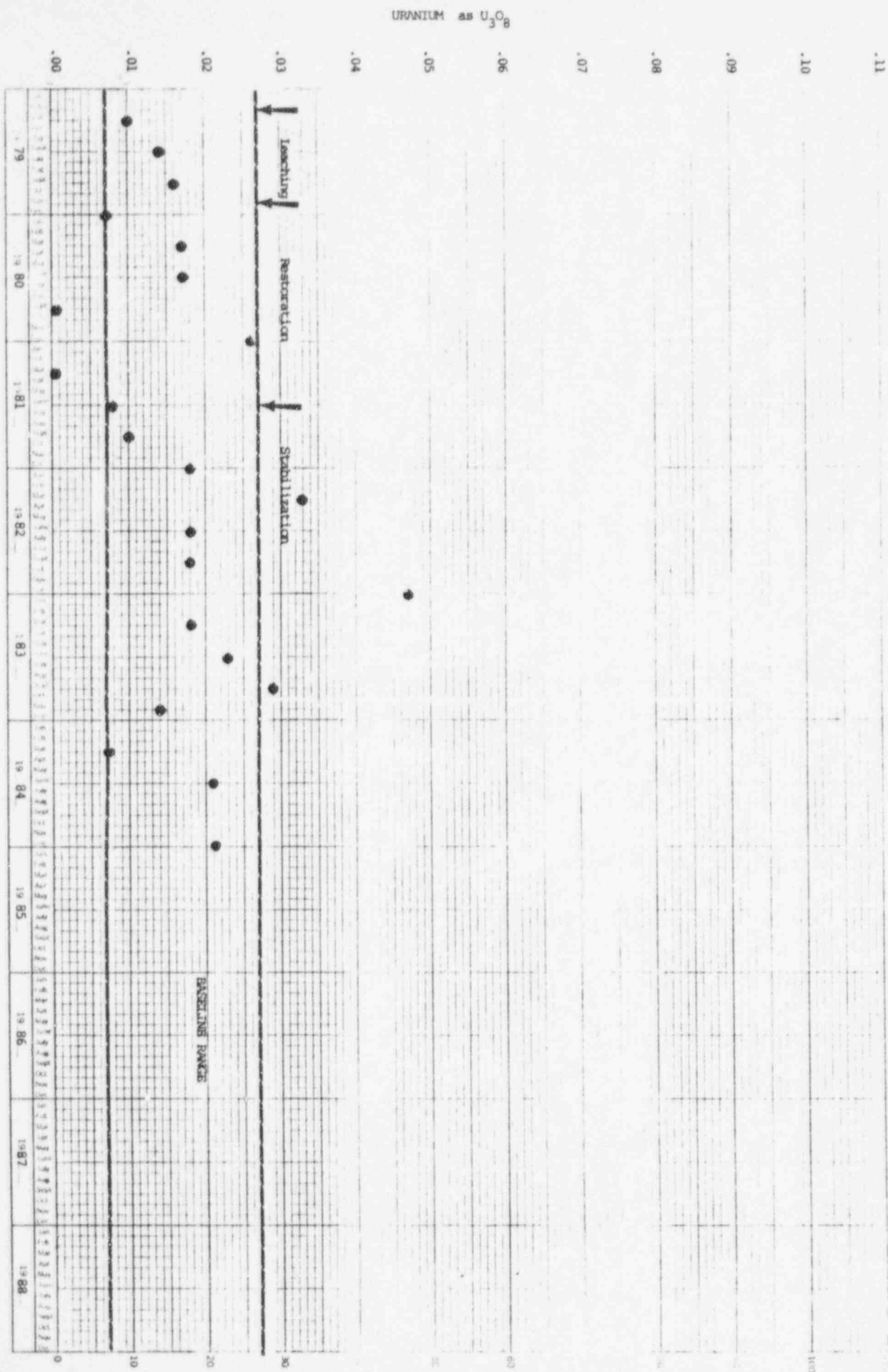
SULFATE



RENO CREEK PATTERN 1

MONITOR WELL M-2

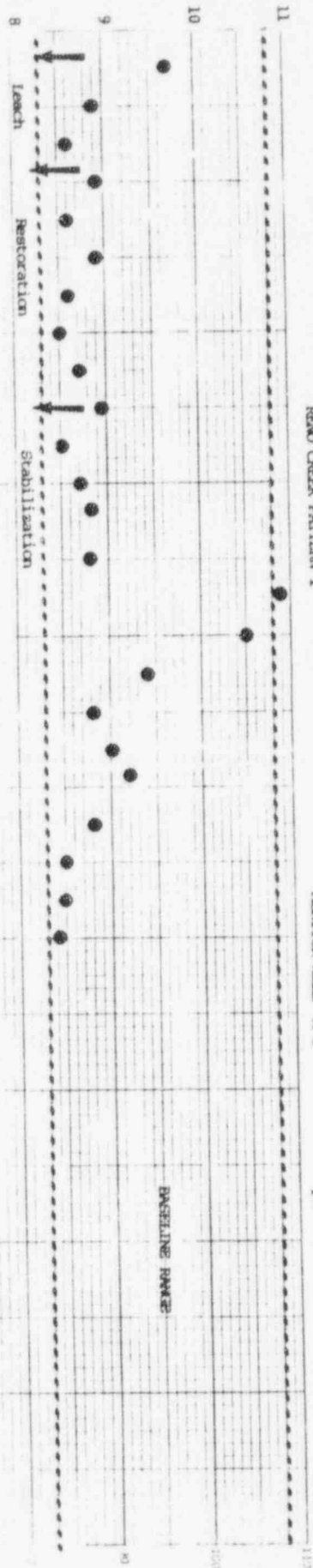
URANIUM as U_3O_8



RENO CREEK PATTERNS 1

MONITOR WELL #3

pH

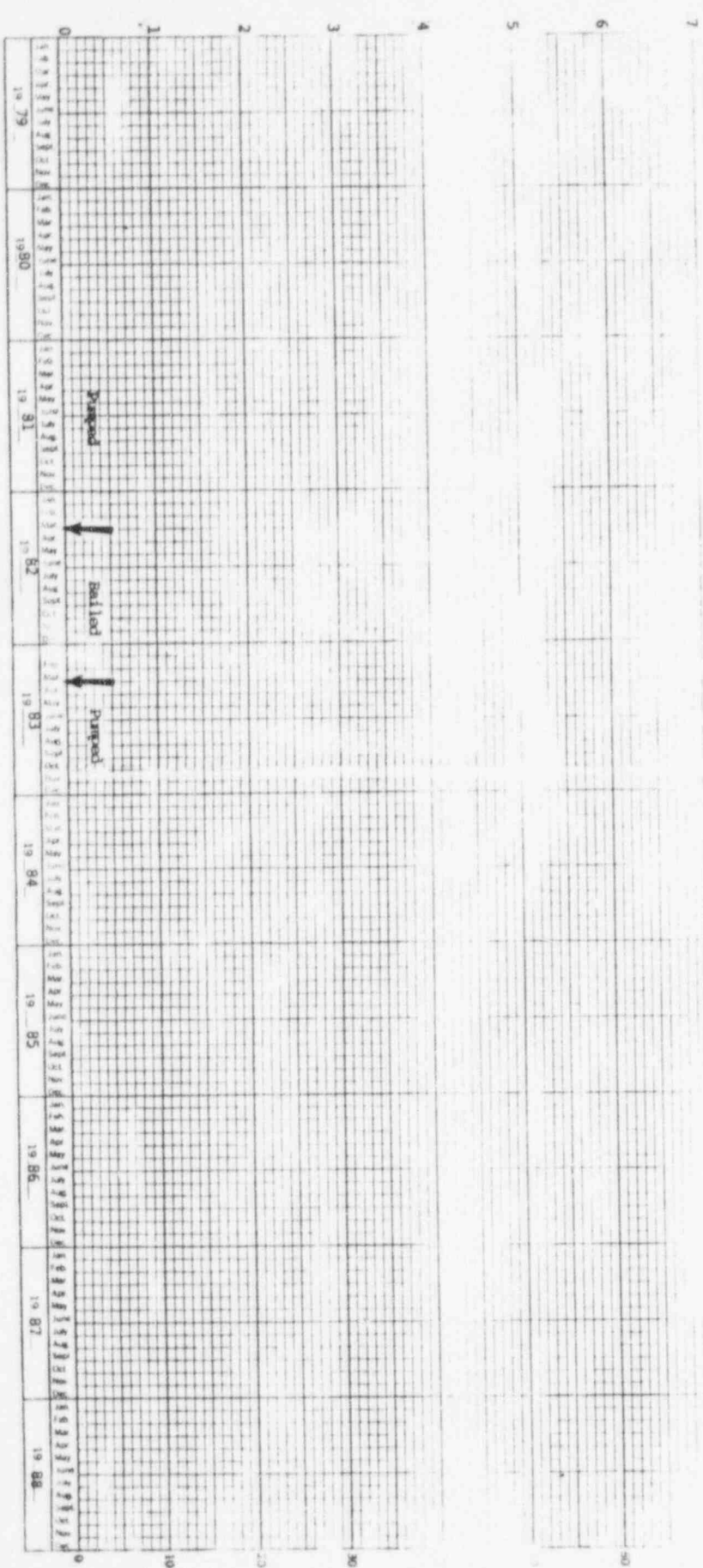


Loach

Restoration

Stabilization

BASELINE PATTERN



purged

Sealed

purged

1979

1980

1981

1982

1983

1984

1985

1986

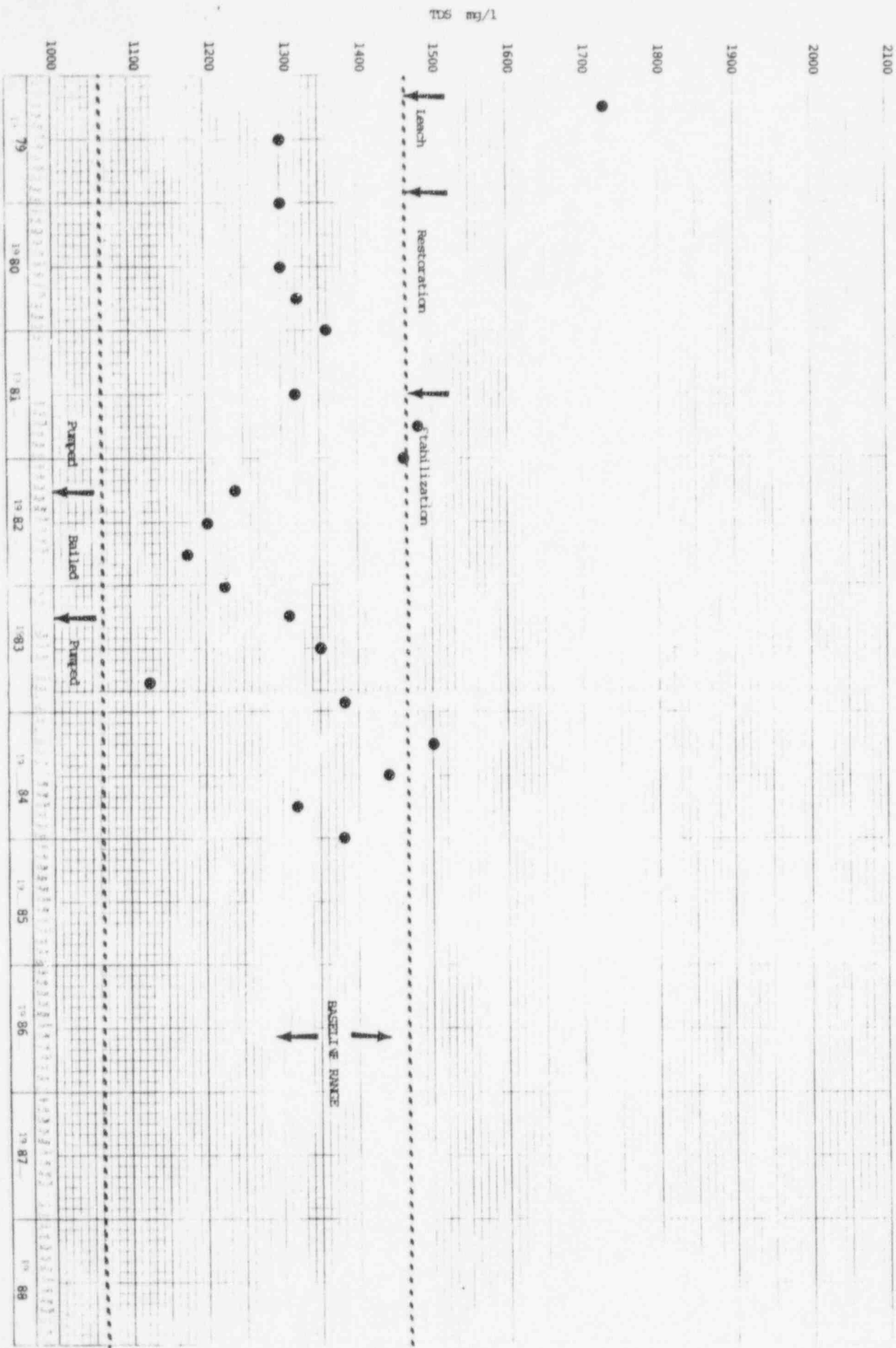
1987

1988

RENO CREEK PATTERNS 1

MONITOR WELL M-3

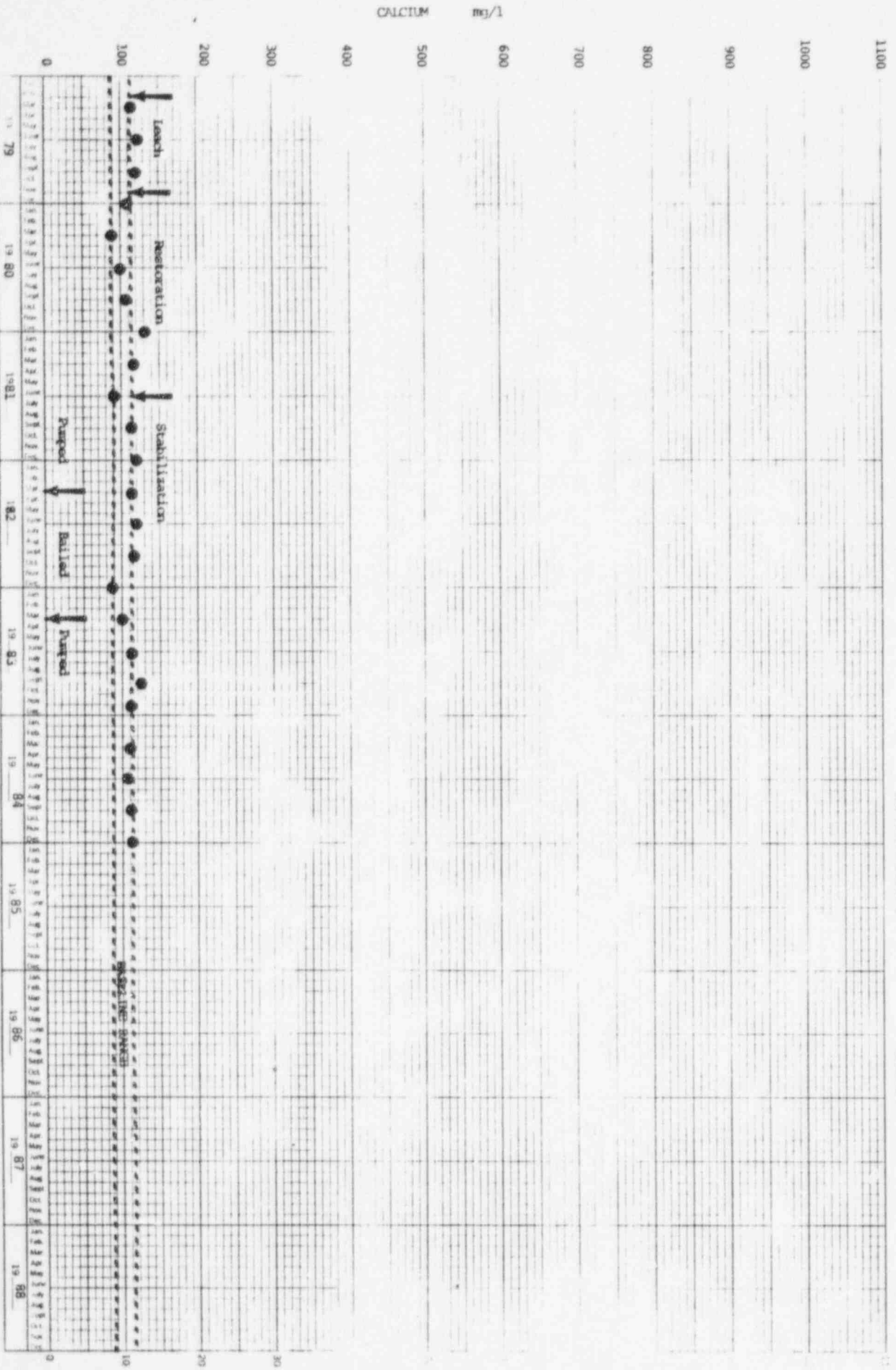
TDS



RENO CREEK PATTERNS 1

MONITOR WELL #4-3

CALCIUM

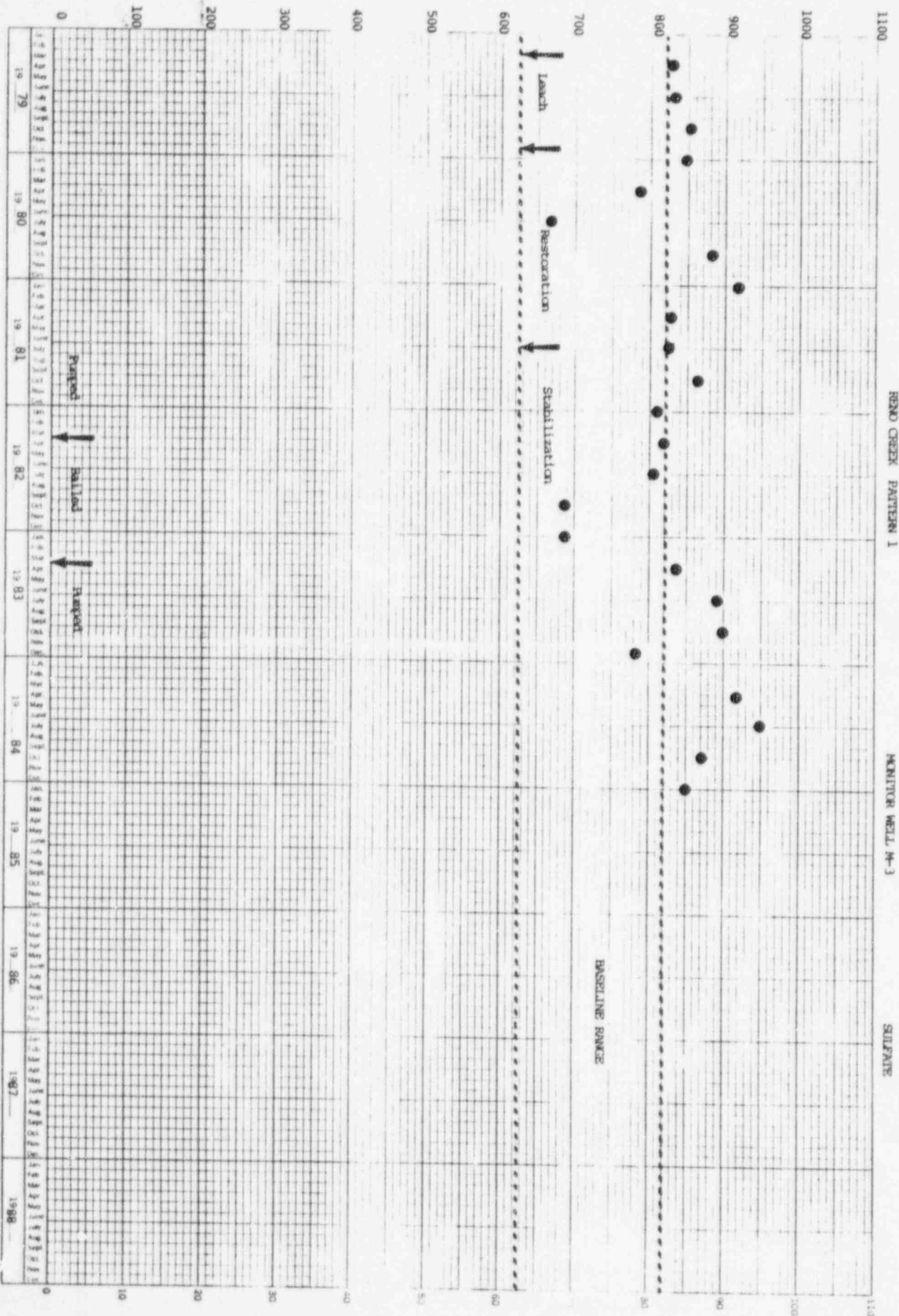


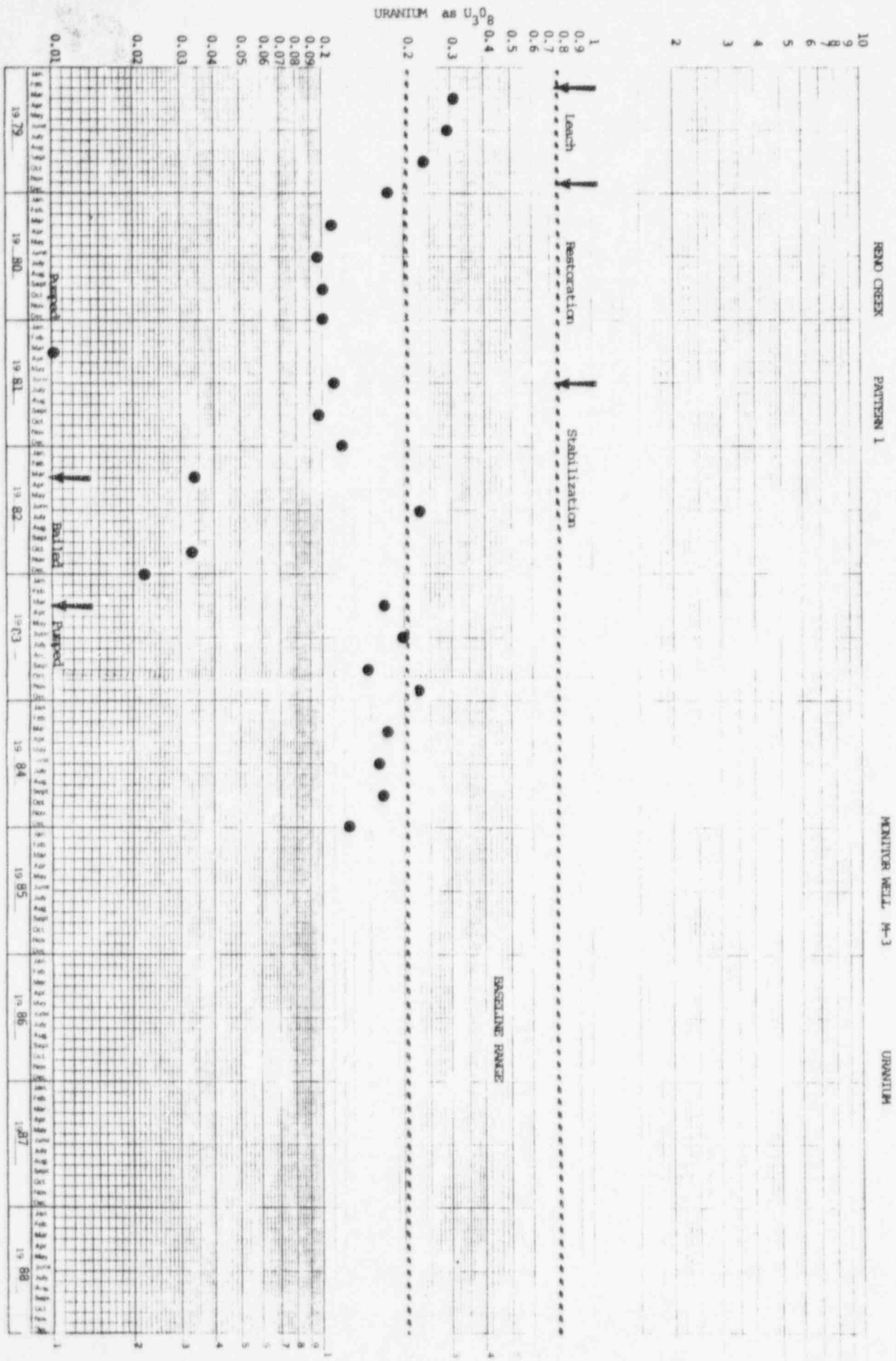
SULFATE mg/l

RENO CREEK PATTERNS I

MONITOR WELL M-3

SULFATE

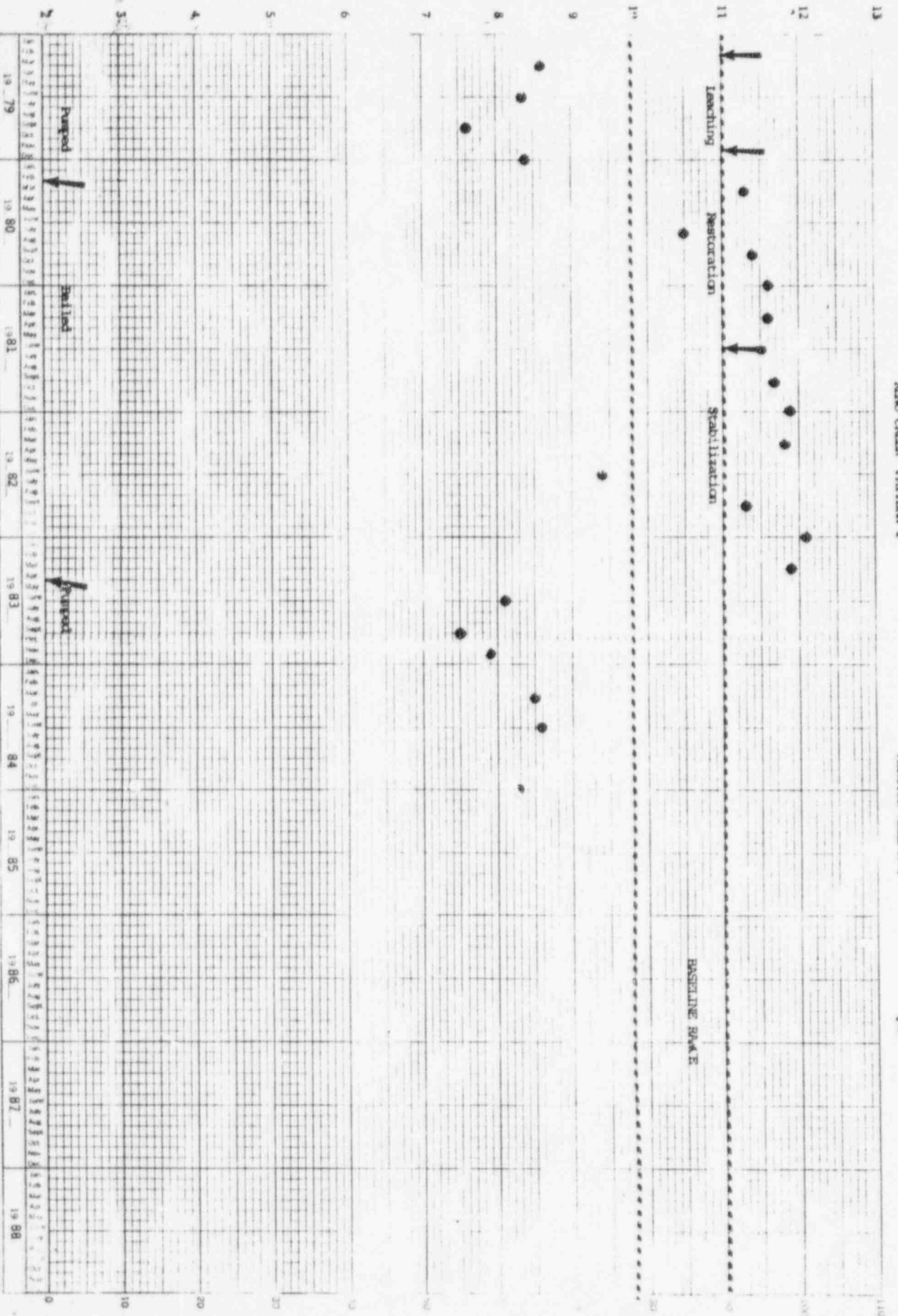




SEAD CREEK PATTERN 1

MINUTER WELL M-4

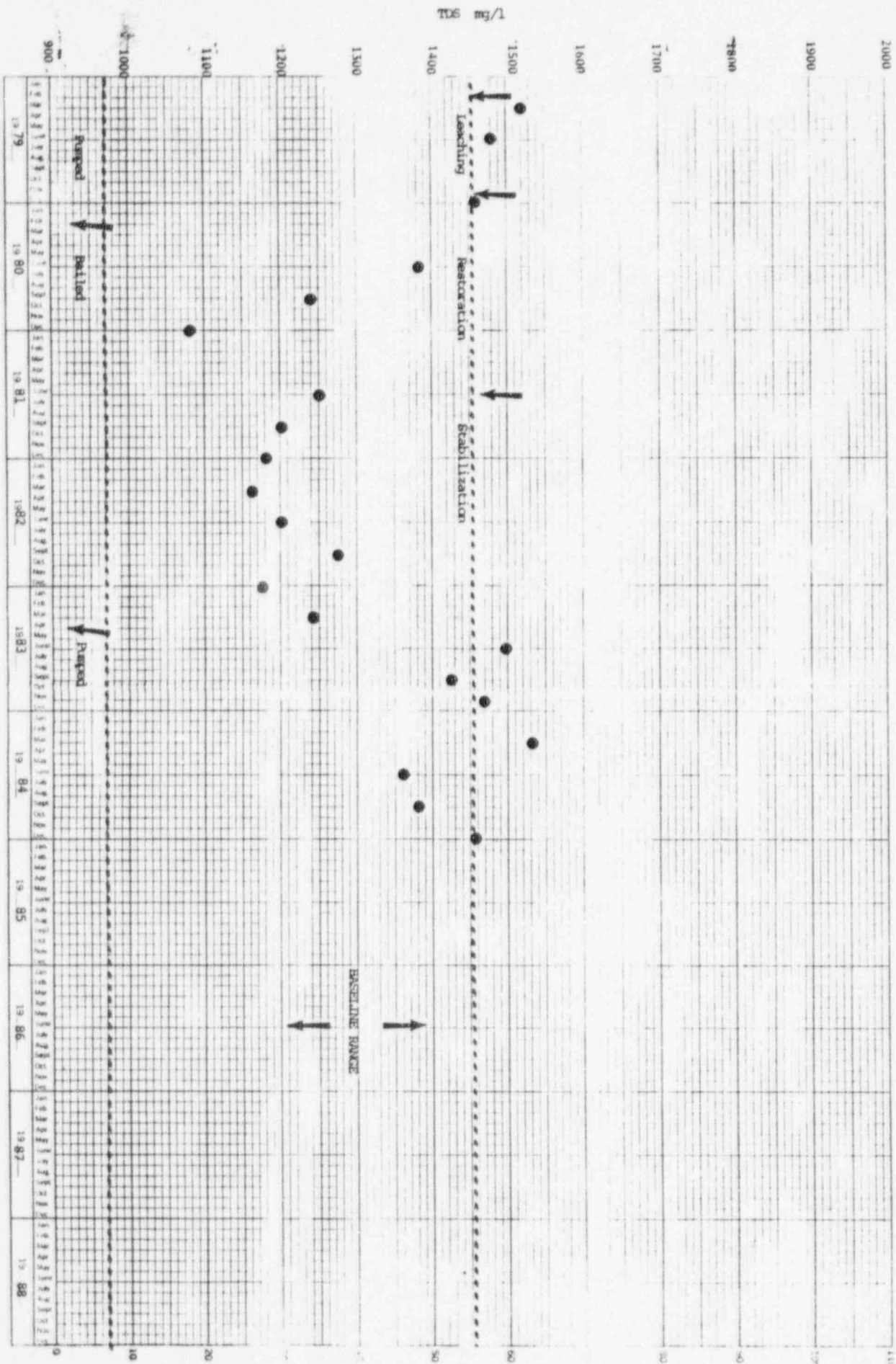
pH



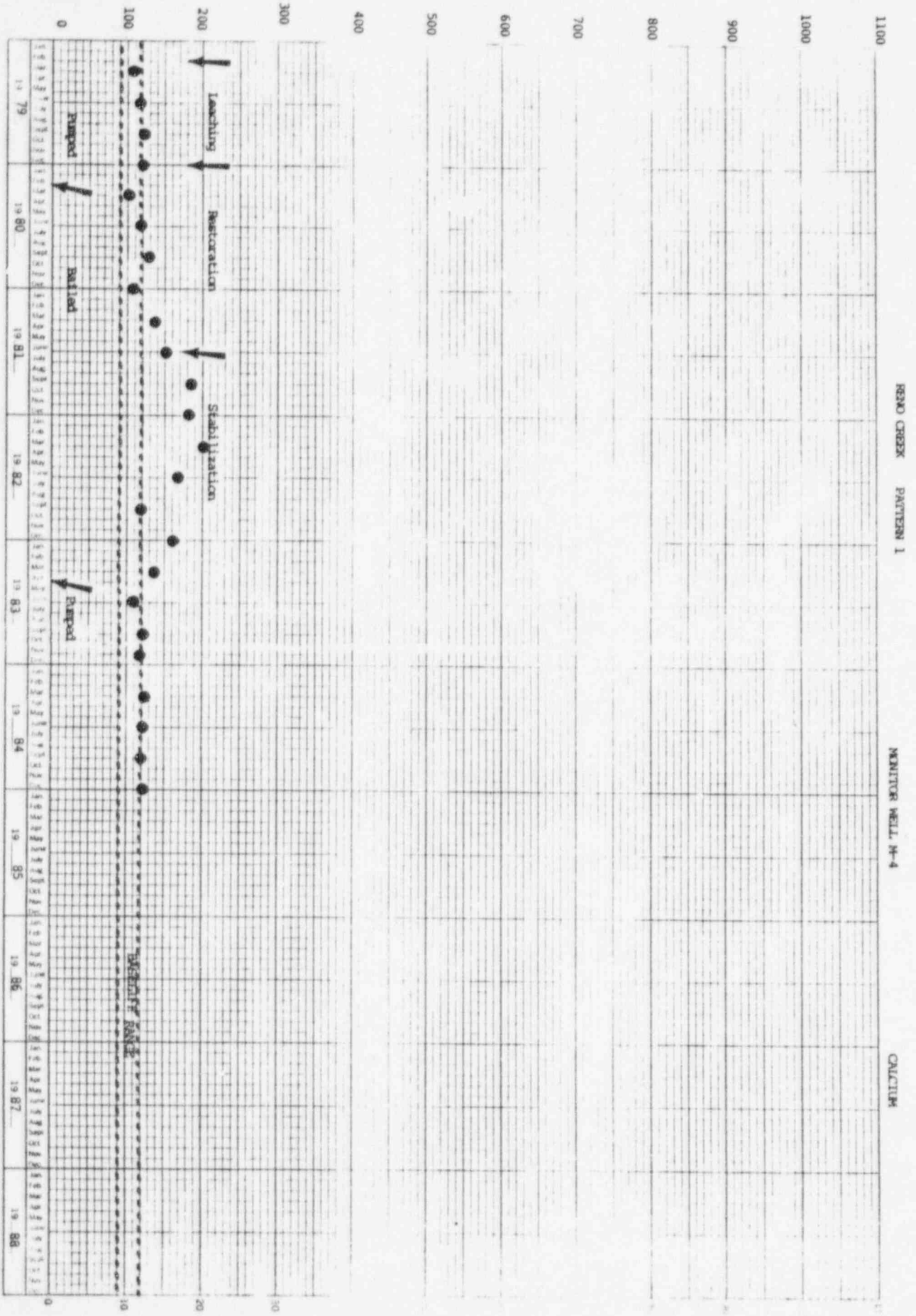
RENO CREEK PATTERN 1

MONITOR WELL M-4

TDS



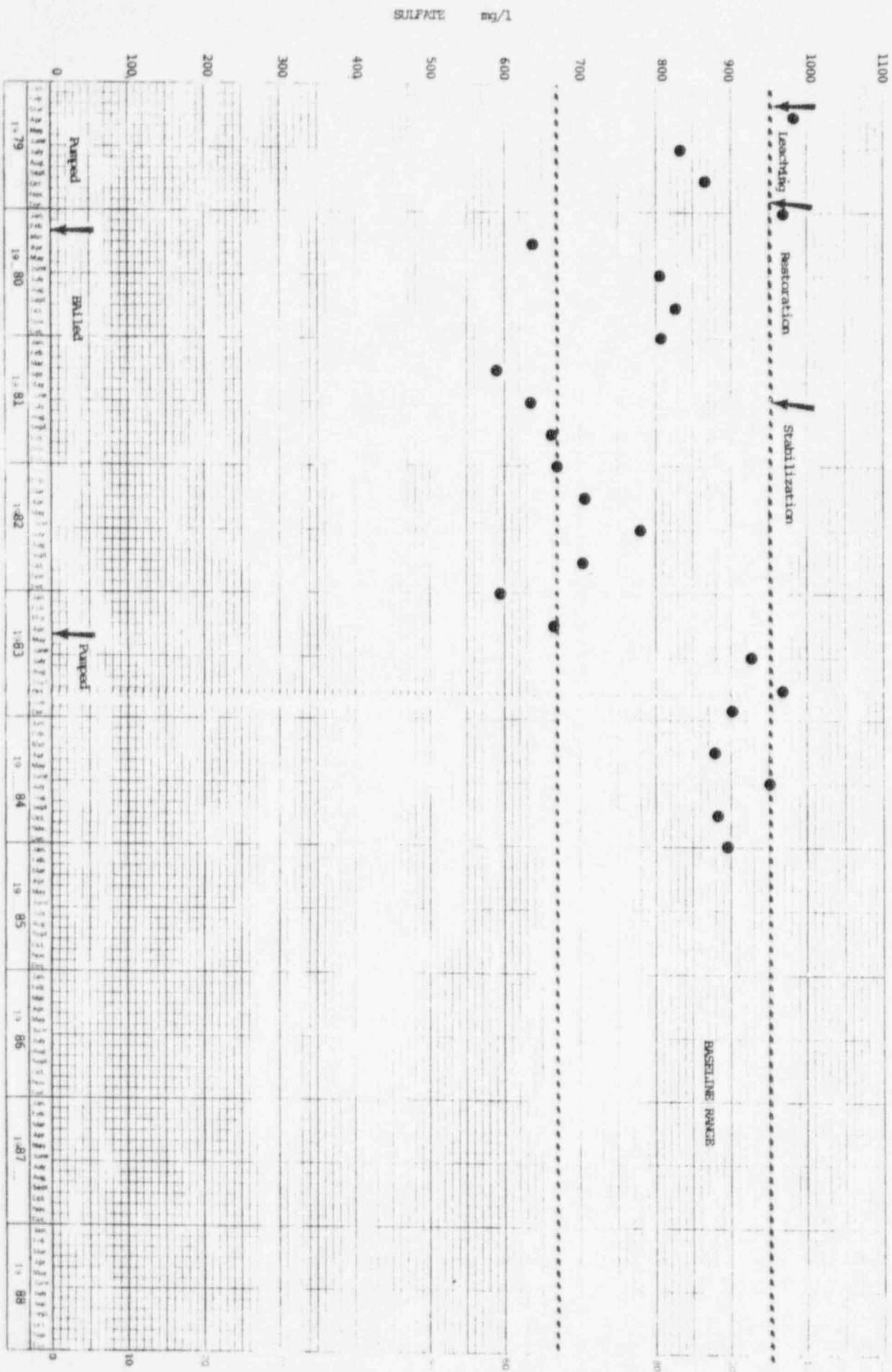
CALCIUM mg/l



RED OCEAN PATTERNS 1

MONITOR WELL M-4

SULFATE

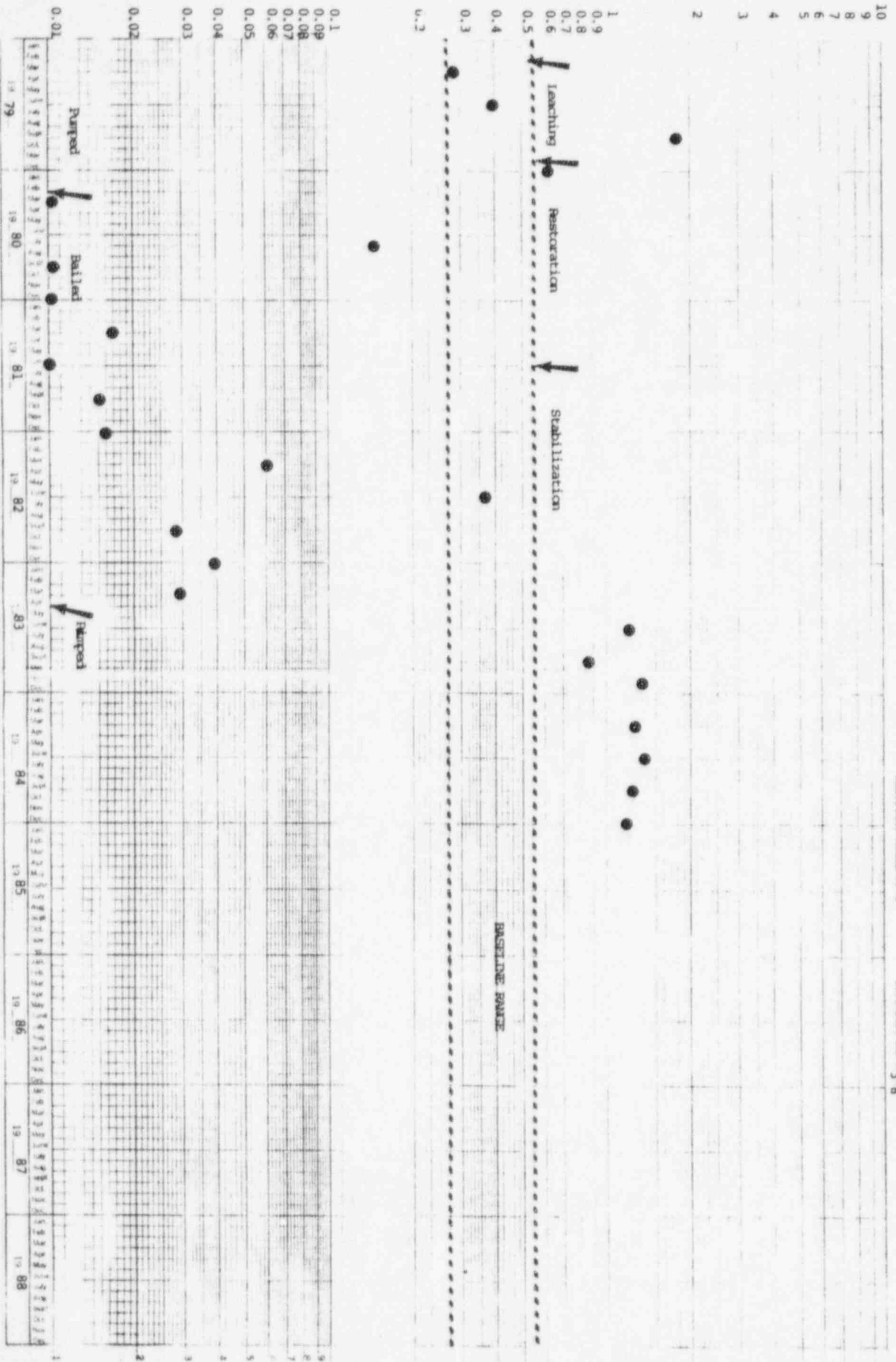


URANIUM as U_3O_8 mg/l

RENO CREEK PATIENT 1

MONITOR WELL M-4

URANIUM as U_3O_8



13

PHAO GREEN PATTERN 1

LOWER SAND MONITOR WELL L2M-1 PH

Leaching

Restoration

Stabilization

BASELINE RANGE

12

11

10

9

8

7

6

5

4

3

2

79

80

81

82

83

84

85

86

87

88

9

10

30

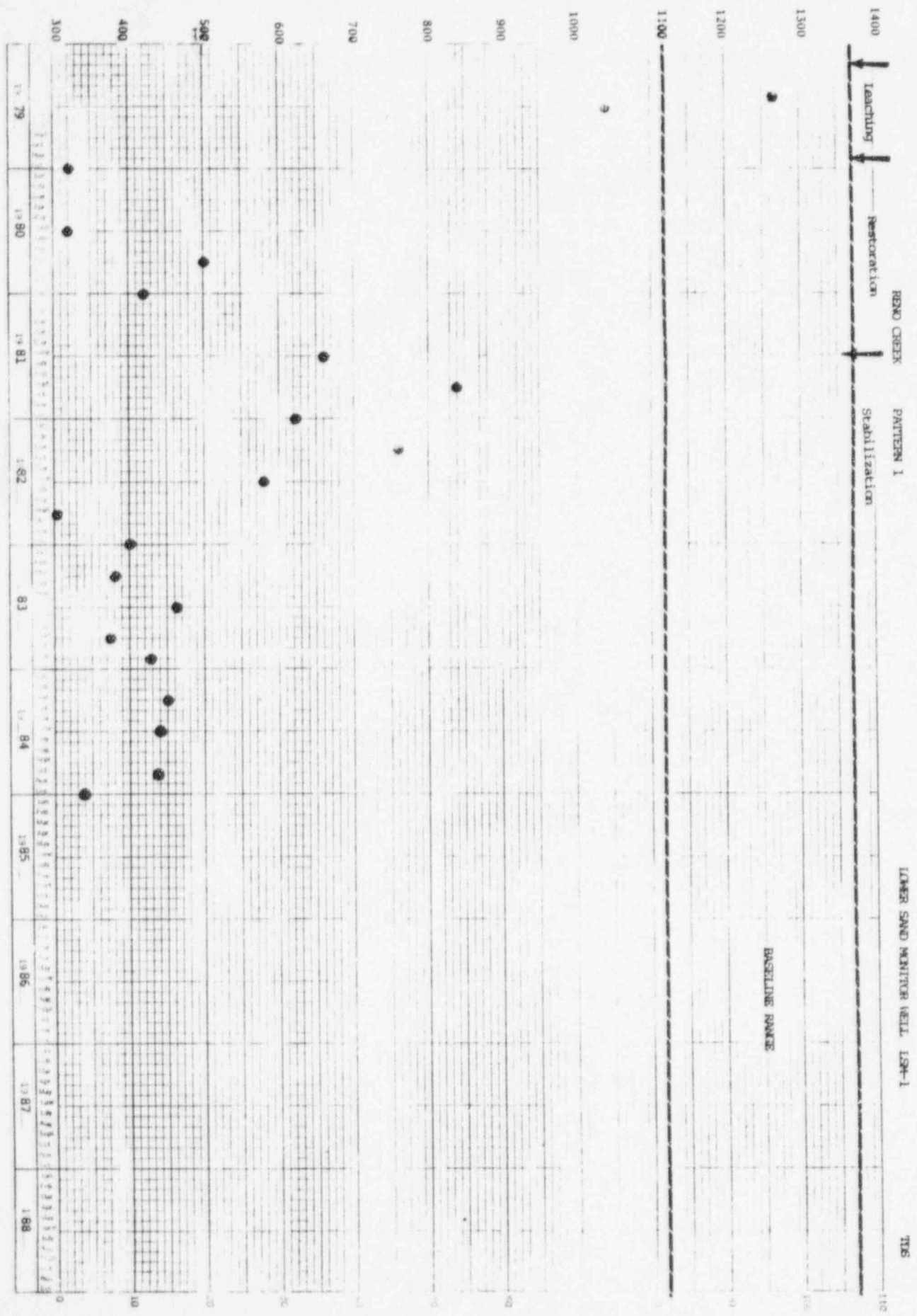
40

50

60

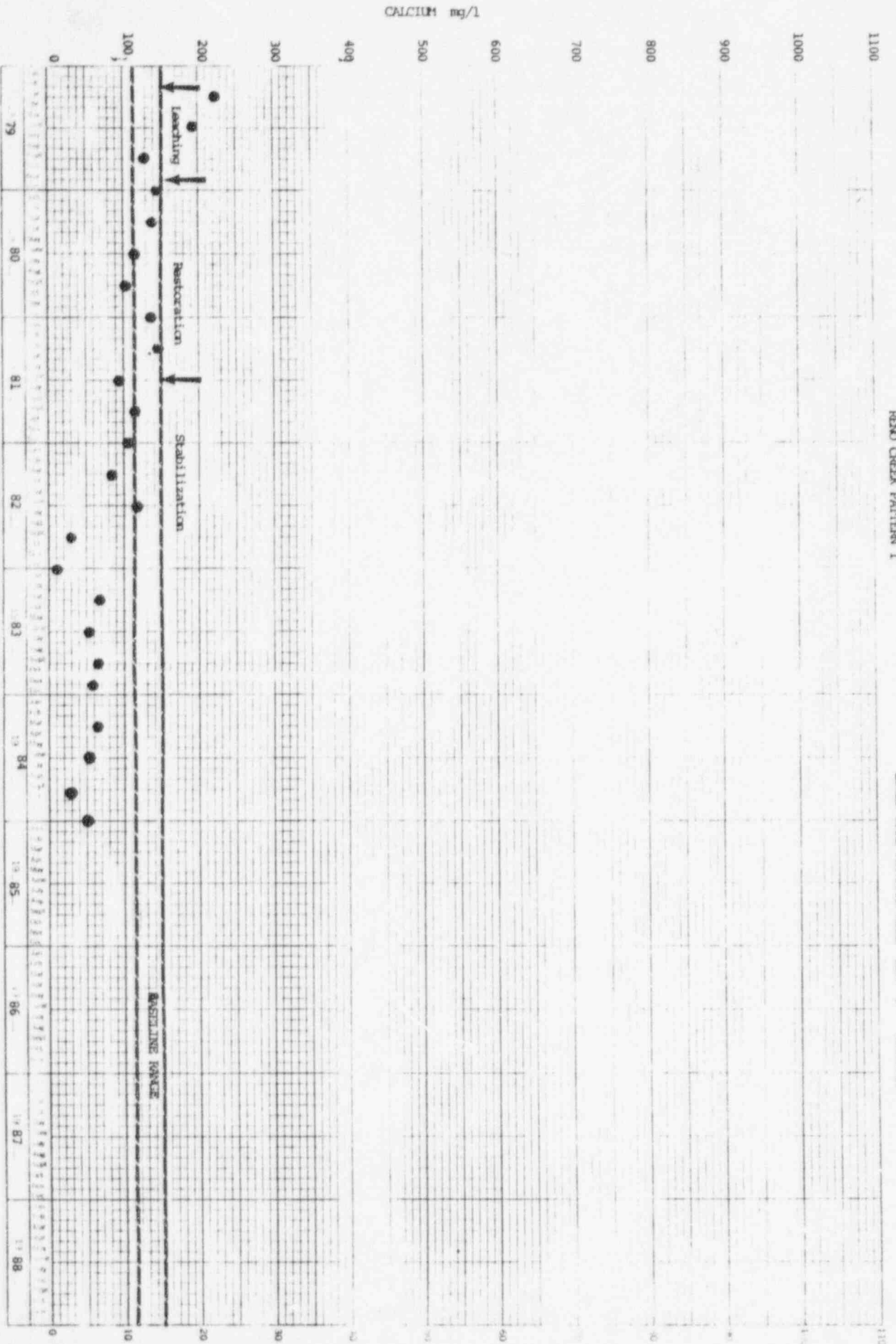
70

80



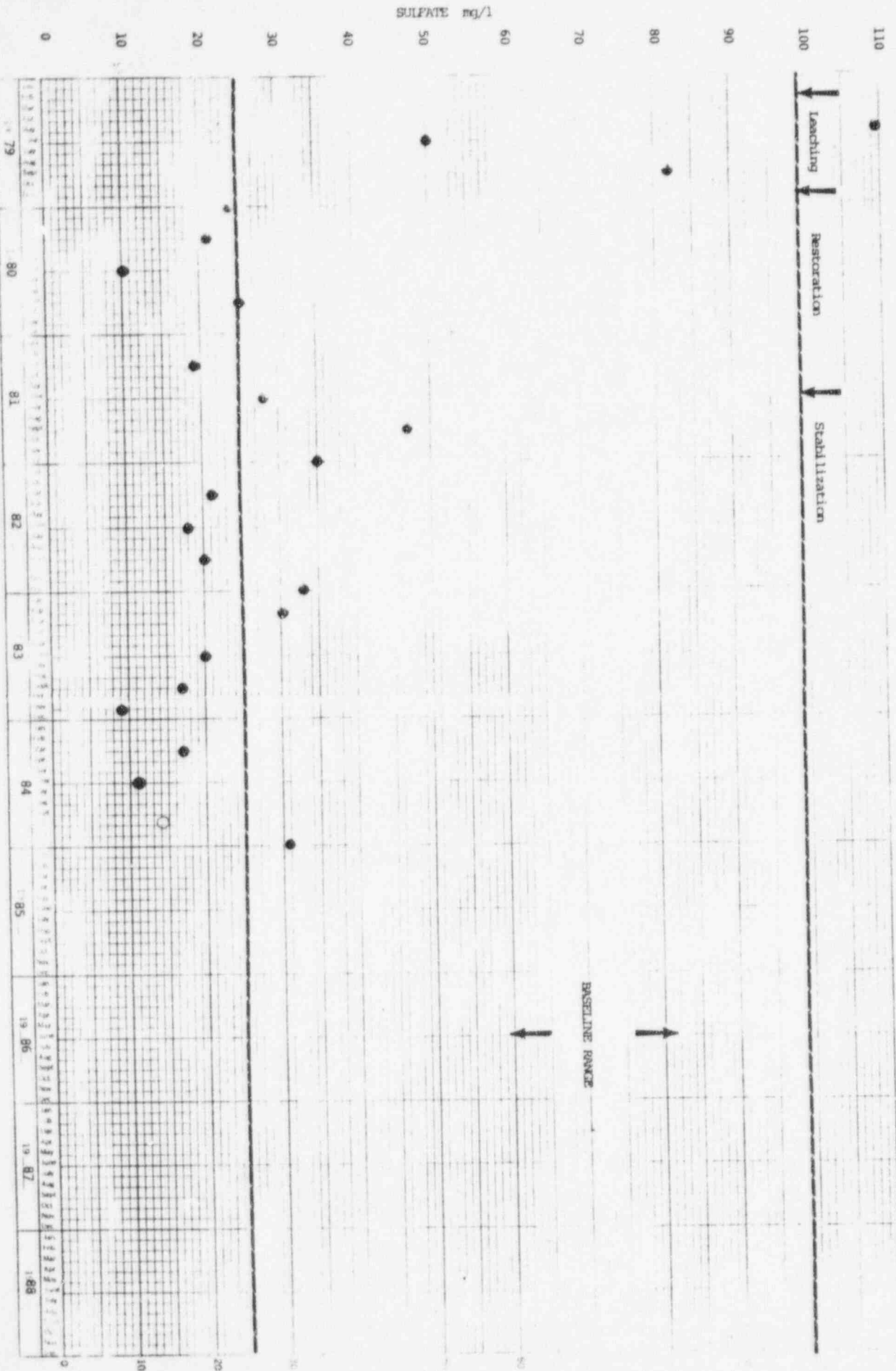
RED CREEK PATTERN 1

LOWER SAND MONITOR WELL, ISM - 1 CALCIUM

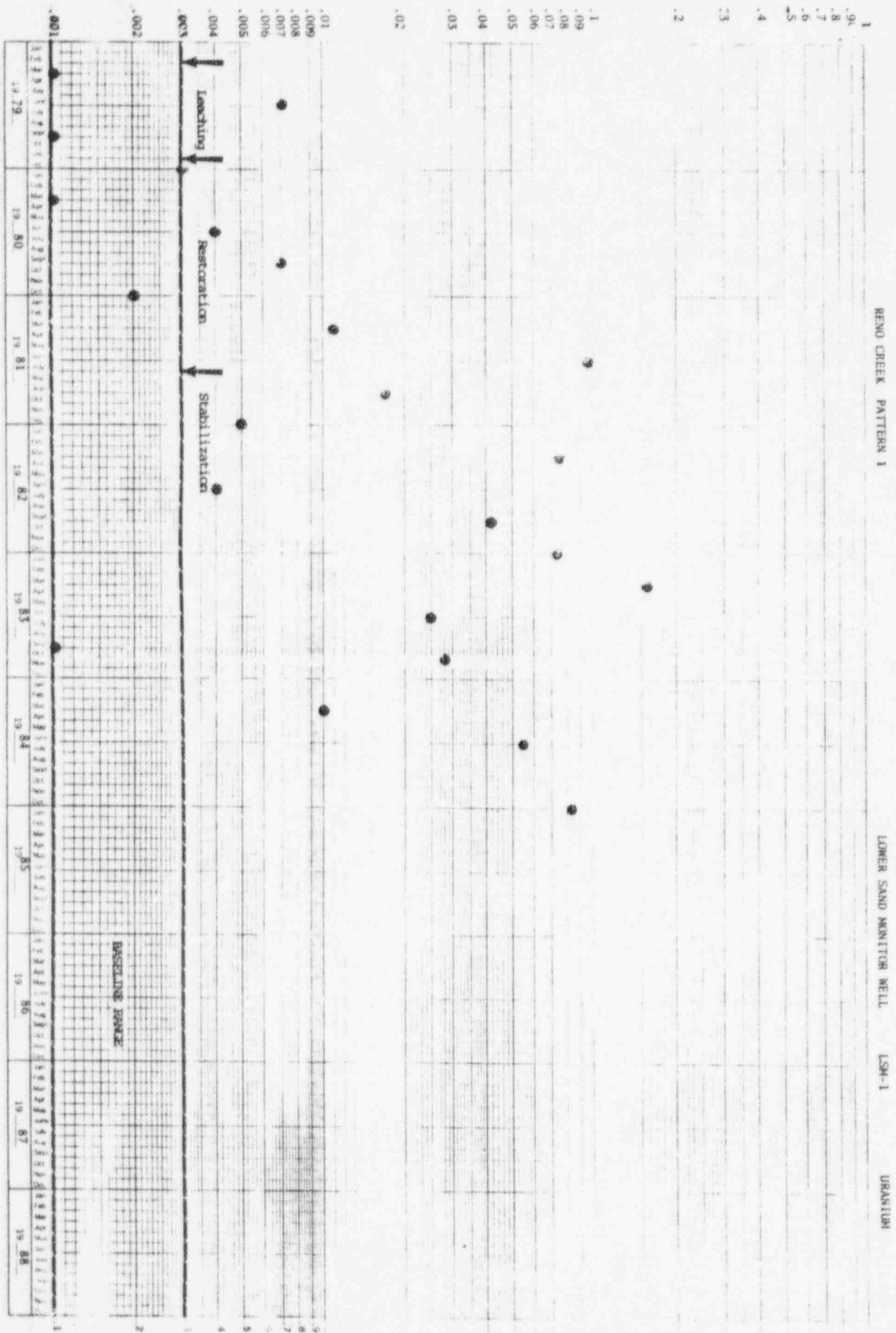


RENO CREEK PATTERN 1

LOWER SAND MINUTE WELL 154-1 SULFATE



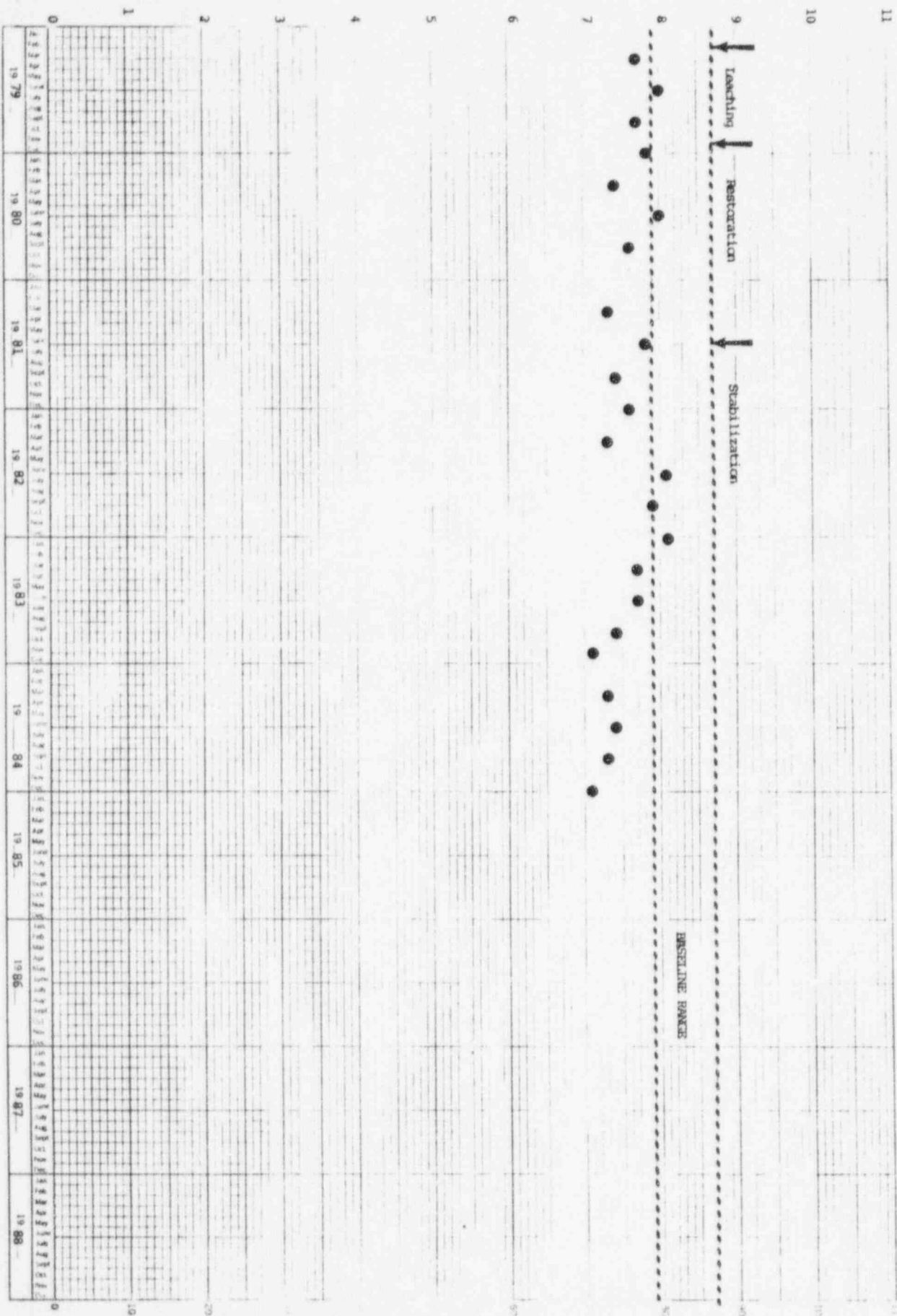
URANIUM as U_3O_8



BEAD CREEK PATTERN 1

UPPER SAND MONITOR WELL USM-1

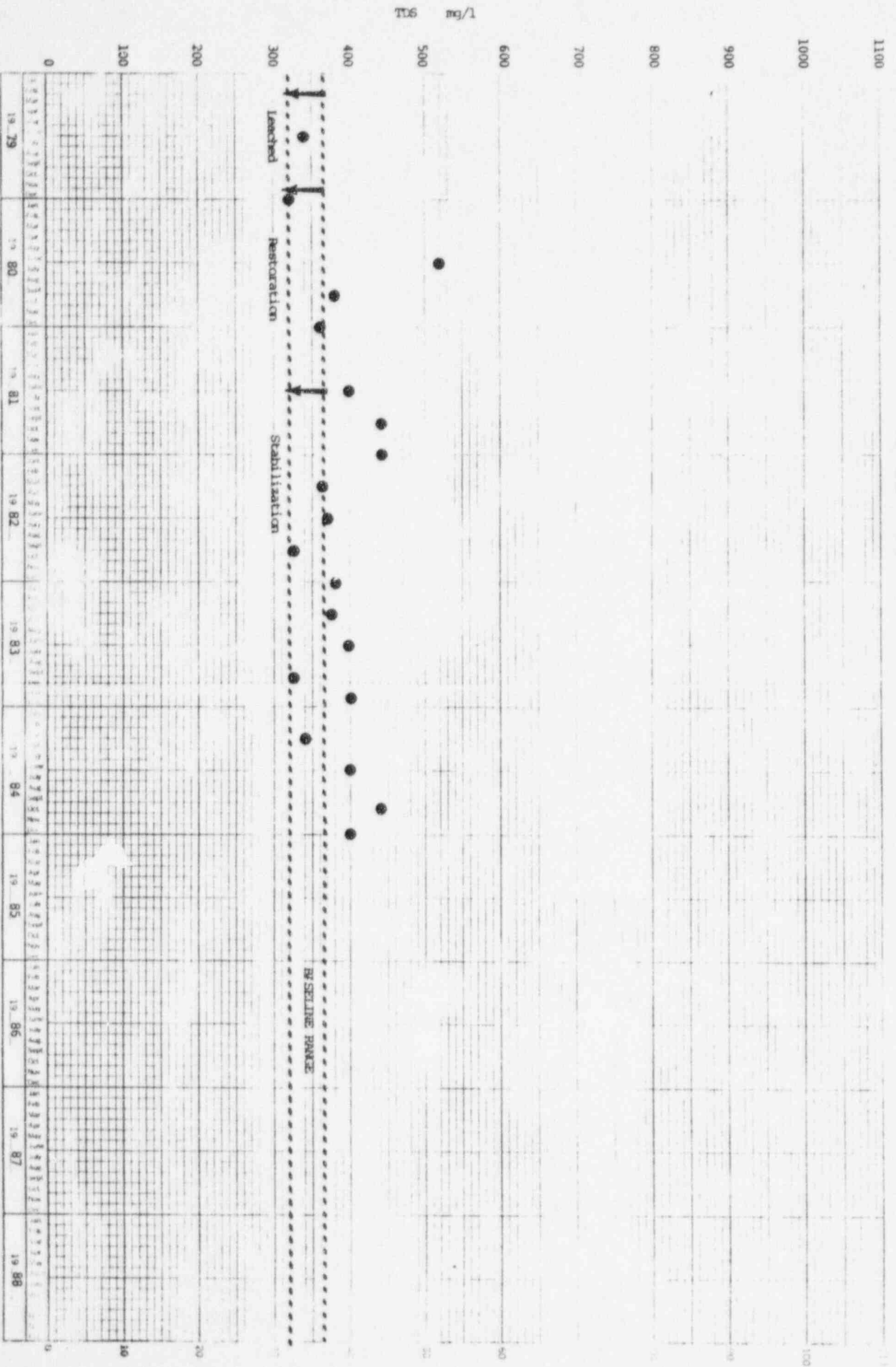
pH

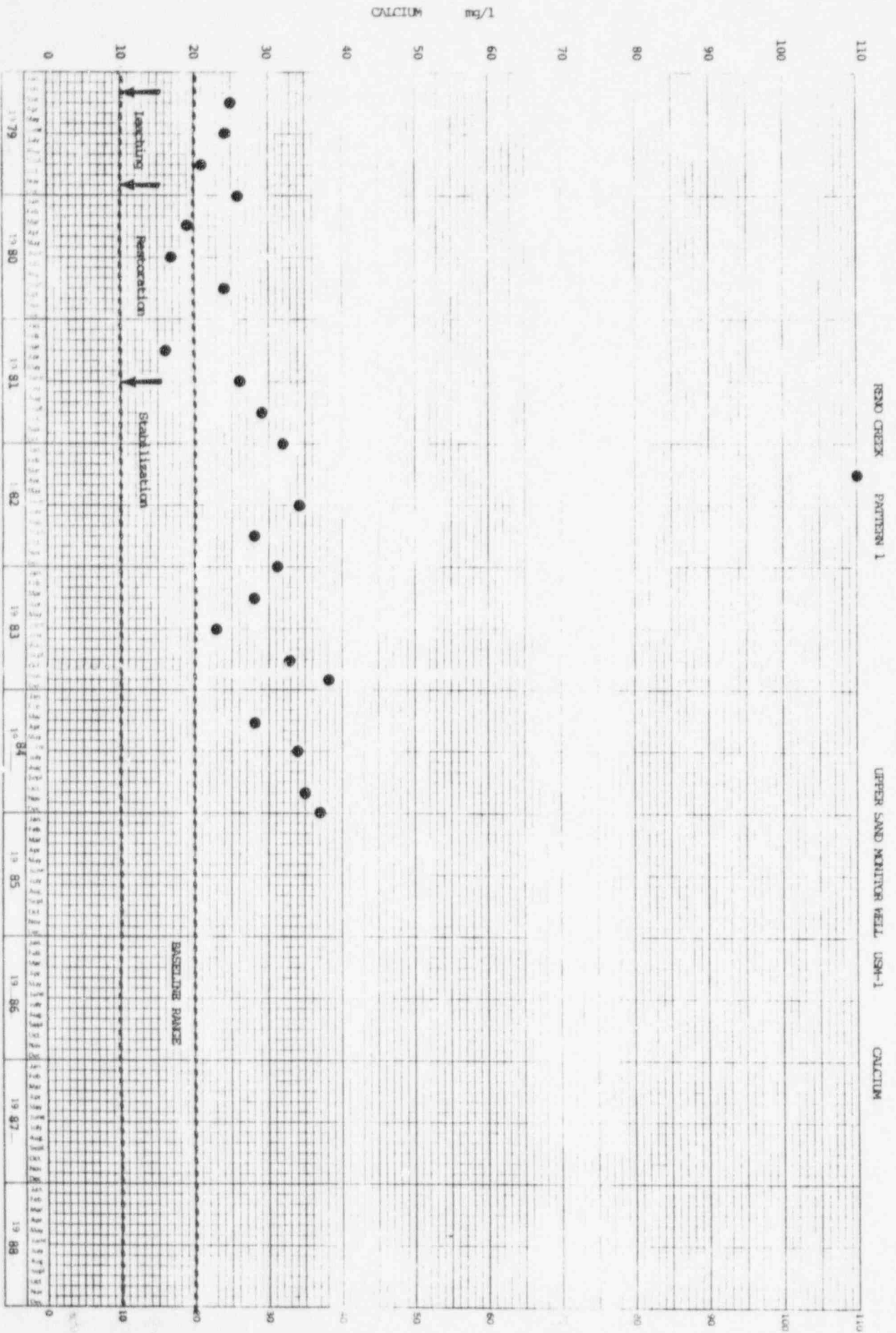


RENO CREEK PATERN 1

UPPER SAND MONITOR WELL USW-1

TDS

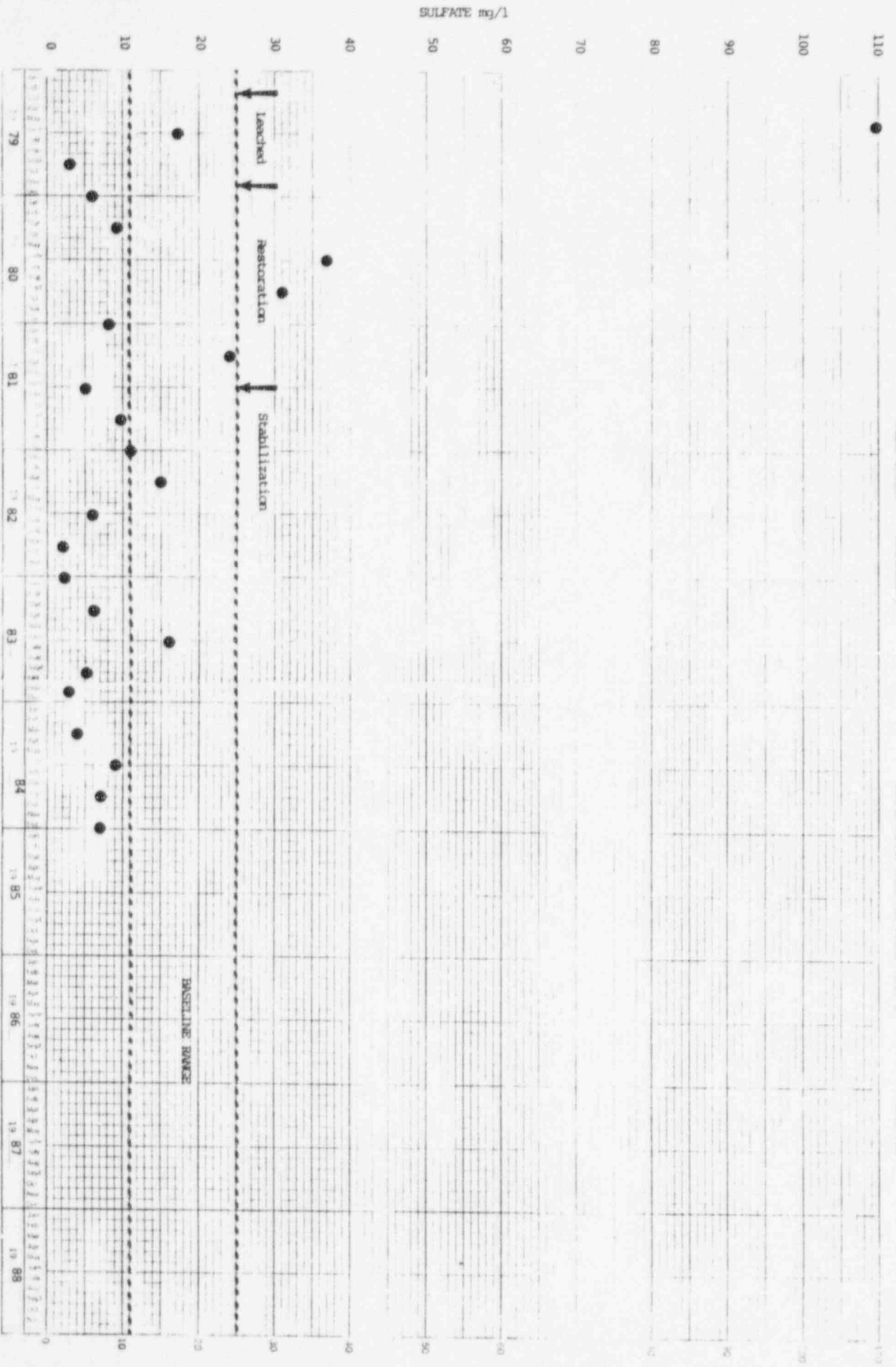




RENO CREEK PATTERN 1

UPPER SAND MINOR WELL US-1

SULFATE



RENO CREEK PATTERN 1

UPPER SAND MONITOR WELL USM-1

URANIUM as U_3O_8

