

INSTRUMENTATION

3/4.3.7 MONITORING INSTRUMENTATION

RADIATION MONITORING INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.7.1 The radiation monitoring instrumentation channels shown in Table 3.3.7.1-1 shall be OPERABLE with their alarm/trip setpoints within the specified limits.

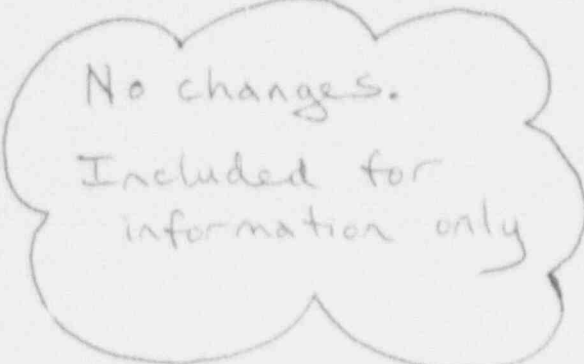
APPLICABILITY: As shown in Table 3.3.7.1-1.

ACTION:

- a. With a radiation monitoring instrumentation channel alarm/trip setpoint exceeding the value shown in Table 3.3.7.1-1, adjust the setpoint to within the limit within 4 hours or declare the channel inoperable.
- b. With one or more radiation monitoring channels inoperable, take the ACTION required by Table 3.3.7.1-1.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.7.1 Each of the above required radiation monitoring instrumentation channels shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL FUNCTIONAL TEST and CHANNEL CALIBRATION operations for the conditions and at the frequencies shown in Table 4.3.7.1-1.



No changes.
Included for
information only

TABLE 3.3.7.1-1

RADIATION MONITORING INSTRUMENTATION

<u>INSTRUMENTATION</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>APPLICABLE CONDITIONS</u>	<u>ALARM/TRIP SETPOINT</u>	<u>ACTION</u>
1. Fuel Handling Area Vent Exhaust Radiation Monitor (Noble Gas)	1	**	≤ 1500 cpm	70
2. Offgas Post-treatment Radiation Monitor	1	*	$\leq 1 \times 10^6$ cpm ^(b)	71
3. Control Room Ventilation Radiation Monitor (Noble Gas)	1	ALL OPERATIONAL CONDITIONS and ***	≤ 800 cpm	72
4. Offgas Pre-treatment Radiation Monitor	1	*	(c)	73
5. Area Monitors				
a. Criticality Monitors				
1) Fuel Pre- paration Pool	1	#	$\rightarrow 5$ mR/hr and $\leftarrow 20$ mR/hr^(a)	74
2) Spent Fuel Storage Pool	1	##	$\rightarrow 5$ mR/hr and $\leftarrow 20$ mR/hr^(a)	74
3) Upper Contain- ment Pools	1	###	$\rightarrow 5$ mR/hr and $\leftarrow 20$ mR/hr^(a)	74
b. Control Room Area Radiation Monitor	1	At all times	≤ 2.5 mR/hr ^(a)	75 74

move the table Notes
from page 3/4 3-63
to this page for ease of use.

Move the
remaining Notes
to page
3/4 3-62

~~TABLE 3.3.7.1-1 (Continued)~~

~~RADIATION MONITORING INSTRUMENTATION~~

~~TABLE NOTATION~~

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because the notes are
being moved to page 3/4 3-62

- * When the offgas treatment system is operating.
- ** With irradiated fuel in the Fuel Handling Building.
- *** When irradiated fuel is being handled in the Fuel Handling Building or primary containment.
- (a) Alarm only.
- (b) Isolates the offgas system.
- (c) Alarm setpoint to be set in accordance with Specification 3.11.2.7.

~~# With fuel in the fuel preparation pool.~~

~~## With fuel in the spent fuel storage pool.~~

~~### With fuel stored in the upper containment pools.~~

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TABLE 3.3.7.1-1 (Continued)

RADIATION MONITORING INSTRUMENTATIONACTION

- ACTION 70 - With the required monitor inoperable, obtain and analyze at least one grab sample of the monitored parameter at least once per 24 hours. In addition, with the Unit 1 Vent noble gas monitor inoperable, restore the inoperable noble gas monitor to OPERABLE status within 24 hours or place the inoperable noble gas monitor in the tripped condition.
- ACTION 71 - With the required monitor inoperable, release via this pathway may continue provided grab samples are taken at least once per 8 hours and these samples are analyzed for gross activity within 24 hours.
- ACTION 72 - With the required monitor inoperable, assure a portable continuous noble gas monitor or the Control Room Area Radiation Monitor is OPERABLE in the control room within 24 hours. Restore the inoperable monitor to OPERABLE status within 7 days, otherwise, initiate and maintain operation of the control room emergency filtration system in the isolation mode of operation within 1 hour.
- ACTION 73 - With the number of channels OPERABLE less than required by Minimum Channels OPERABLE requirement, release via this pathway may continue for up to 30 days provided:
- The offgas system is not bypassed, and
 - The offgas post-treatment monitor is OPERABLE, and
 - Grab samples are taken at least once per 8 hours and analyzed within the following 4 hours;

Otherwise, be in at least HOT SHUTDOWN within 12 hours.

~~ACTION 74 - With the required monitor inoperable, assure a portable area radiation monitor with the same alarm setpoint is OPERABLE in the vicinity of the installed monitor during any fuel movement. If no fuel movement is being made, perform area surveys of the monitored area with portable monitoring instrumentation at least once per 24 hours.~~

ACTION 74 - With the required monitor inoperable, perform area surveys of the monitored area with portable monitoring instrumentation at least once per 24 hours.

TABLE 4.3.7.1-1

RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

INSTRUMENTATION	CHANNEL CHECK	CHANNEL FUNCTIONAL TEST	CHANNEL CALIBRATION	CONDITIONS IN WHICH SURVEILLANCE REQUIRED
1. Fuel Handling Area Vent Exhaust Radiation Monitor (Noble Gas)	S	M	R	**
2. Offgas Post-treatment Radiation Monitor	S	M	R	*
3. Control Room Ventilation Radiation Monitor (Noble Gas)	S	M	R	ALL OPERATIONAL CONDITIONS and ***
4. Offgas Pre-treatment Radiation Monitor	S	M	R	*
5. Area Monitors				
a. Criticality Monitors				
1) Fuel Preparation Pool	S	M	R	#
2) Spent Fuel Storage Pool	S	M	R	##
3) Upper Containment Pools	S	M	R	###
b. Control Room Area Radiation Monitor	S	M	R	At all times

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to this page for ease of use.

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Notes to
page 3/4 3-65

~~TABLE 4.3.7.1-1 (Continued)~~

~~RADIATION MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS~~

~~TABLE NOTATION~~

Delete these headings
because the remaining notes
are being moved to page 3/4 3-65

- * When the offgas treatment system is operating.
- ** With irradiated fuel in the Fuel Handling Building.
- *** When irradiated fuel is being handled in the Fuel Handling Building or primary containment.

- # With fuel in the fuel preparation pool.
- ## With fuel in the spent fuel storage pool.
- ### With fuel stored in the upper containment pools.

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Add

The attached Graphs 1 through 26 chart the water levels in the monitor wells and Highland Reservoir since data collection began. Many of the well water levels peaked shortly after pumping tailings to the basin ceased and have been dropping for about seven years. Attachments 3A (compliance wells), 3B (TDSS wells), 3C (background wells), 3D (ore sands wells), 3E (mine backfill wells) and 3F (Highland Reservoir) provide the 1988-1991 water quality data. These attachments are transcribed from the monitoring data provided to the NRC in the semi-annual monitoring reports. Annual averages are provided for each parameter.

The data are discussed below by class of well.

Compliance Wells (125, 175, 176, 177):

The water levels continue to fall in these wells. The levels in 175 and 177 have been erratic since seepage pumping began in 1989. Automatic start/stop operation of the pumps and replacement of worn pumps causes the drawn down levels of the pumped wells to fluctuate.

There has been some improvement in water quality since pumping began. This is true for Cadmium, Chromium, Lead and Selenium. The 1991 average Uranium concentrations from the wells still exceeded the 0.43 pCi/l standard in the license. However, only well 125 exceeds the EPA proposed 30 pCi/l standard for municipal drinking water. Chrome, Radium 226 plus 228 and Thorium 230 sometimes exceed their respective license standards. Chrome only exceeded the license standard one time at one well in 1991. All Radium values are well below the EPA proposed 20 pCi/l individual standards for Radium 226 and Radium 228 for municipal drinking water. The highest Thorium 230 values are below those that have occurred at the background wells. Following the EPA practice of assuming an analytical result below a detection limit equals one half the detection limit and averaging all the results from the compliance wells for 1991, the wells met all the drinking water Table 5C standards in Appendix A of 10CFR Part 40 in 1991.

The Nickel concentration at well 175 remains well above the license standard of 0.02 mg/l which is based on background as there is no Table 5C value for Nickel. The concentration appears to be increasing slowly. However, the average 1991 concentration of 1.145 mg/l is about the same as that in the tailings solution when the mill was in operation. Therefore, the concentration at well 175 is likely to become much higher. The Nickel concentration at well 180, just a short distance further from the tailings basin, remains at or near the detection level (0.02 mg/l). The mine backfill at well 180 and between it and well 175 effectively removes Nickel from solution. The backfill is an effective bar to Nickel migration further away from the basin.

Tailings Dam Sandstone Monitor Wells (TDSS) (015, 112, 114, 117, 120, 127, 178, 179, 181, 183):

The water levels continue to fall in these wells. The levels in wells 117 and 178 remain erratic. These are pumped mitigation wells. Their water levels are affected by automatic pump start/stop and pump replacement. The average decline of the wells was about 1.0 foot in 1991. Levels have fallen from 10 to 60 feet in the monitor wells since 1984. The water level at well 015 has fallen so low that it can not be sampled.

The annual average chemical and radionuclide concentrations have not changed very much since 1988 in the TDSS monitor wells. Some small improvement has occurred in well 112. The pH measurement has trended slightly downward in wells 179, 181 and 183 to the north of the tailings basin.

TDSS Background Monitor Wells (134, 172, 174, 182):

The water levels of wells 134 and 174 show no trend. The levels at wells 172 and 182 continue to fall. This is part of the general decline of water levels in the tailings basin area.

Obvious water quality trends are not seen at the wells. This relative constancy is reasonable for background wells. The Thorium-230 and Uranium concentrations at the background wells have regularly exceeded the license standards without the tailings seepage being the cause. Well 182 was the only well used to establish background for the license standards. Its Uranium concentration exceeded the standard in July, 1991 which further indicates the standard is set near the low end of the span of the natural background.

Old Sands Monitor Wells (116, 128, 129, 148):

Levels are slowly falling in these wells. The water elevations at the west end of the basin near Highland Reservoir are far below the levels to the east. The water levels remain well below those in the overlying TDSS. No trends are obvious in the water quality data.

Mine Backfill Wells (171, 173, 180):

The water levels continue to fall. The rate of fall is less than at the TDSS wells closest to the backfill which indicates the seepage mound is becoming flatter as expected. This flattening should express itself as a reduction in the seepage rate.

The EPRCO 1982 study found that highland shales and sandstones attenuate seepage constituents. The backfill is a mixture of shales and sandstones. This accounts for the generally better water quality in the mine backfill than at the TDSS wells.

Since the mine backfill contains low grade mineralized materials, elevated Uranium, Thorium 230 and Radium concentrations can be expected in some saturated zones. This is seen at well 180. The concentrations are higher than at wells 114 and 175 which are much closer to the

basin. The lower concentrations at the TDSS wells indicates that the higher well 180 concentrations are not due to radionuclides in the tailings seepage .

Highland Reservoir (167):

The reservoir water level continues to rise at nearly 6 feet per year. The water quality reflects no significant impact from tailings seepage.

Summary:

The application of significant resources to seepage mitigation since November 1989 has reduced the mass in the TDSS aquifer of potentially hazardous constituents by about 16.5 kilograms of non-radioactive and 594 microcuries of radioactive material. Some 80% of the radioactive material is Natural Uranium of which 0.7 kilograms has been removed. The average seepage water pumped to the evaporation lagoons in 1991 met all the Table 5C limits found in Appendix A of 10CFR Part 40.

Most of the concentrations of potentially hazardous constituents are now below the license standards. Those that still exceed the standards regularly are at or below proposed EPA water protection standards for municipal drinking water. Nickel at well 175 is the one obvious exception. However, the Nickel is confined to the area between the nearby mine backfill and the basin. The backfill serves as an effective barrier to further Nickel migration. The backfill has virtually no potential for water development because of low permeability.

The tailings seepage has not impacted the concentrations of potentially hazardous constituents in Highland Reservoir. The water levels in the TDSS, mine backfill and ore sand wells are dropping. The drop in the TDSS well water levels since 1984 has been quite large and continues at about one foot per year.

Please call me at (713) 978-5438 if there are any questions on this report.

Yours truly,



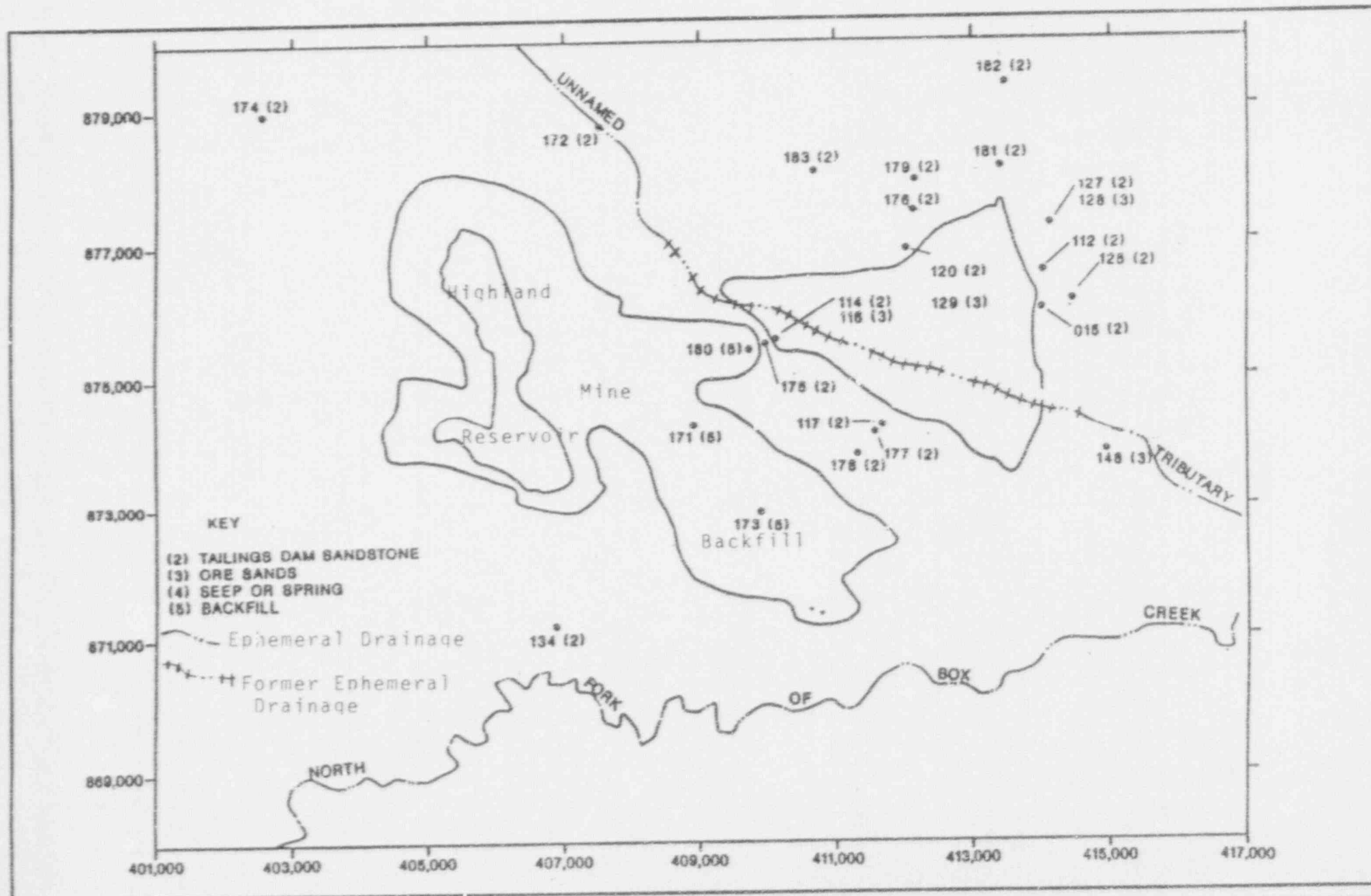
David M. Range
Staff Environmental Engineer

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Attachment

c: L. Davis - WWL
J.D. Patton

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MAP 1
GROUND WATER MONITORING NETWORK

Date: January 1991
Project: Highland

ATTACHMENT 1
Exxon Coal and Minerals Company
Highland Reclamation Project
Seepage Mitigation Project
Volume pumped from Mitigation Wells

Date	Monthly <u>114</u>	Total <u>117</u>	Volume <u>175</u>	Pumped <u>177</u>	(K Gallons) <u>178</u>
Pre-Dec. 89	0	0	0	0	0
Dec. 89	<u>2</u>	<u>111</u>	<u>124</u>	<u>93</u>	<u>97</u>
Total 1989 and Total Project	2	111	124	93	97
Jan. 90	<u>0</u>	<u>98</u>	<u>113</u>	<u>98</u>	<u>99</u>
Total Project	2	209	237	191	196
Feb. 90	<u>0</u>	<u>99</u>	<u>93</u>	<u>87</u>	<u>72</u>
Total Project	2	308	330	278	268
March 90	<u>0</u>	<u>114</u>	<u>78</u>	<u>58</u>	<u>74</u>
Total Project	2	422	408	336	342
April 90	<u>0</u>	<u>11</u>	<u>6</u>	<u>11</u>	<u>7</u>
Total Project	2	433	414	347	349
May 90	<u>0</u>	<u>6</u>	<u>5</u>	<u>5</u>	<u>2</u>
Total Project	2	439	419	352	351
June 90	<u>0</u>	<u>112</u>	<u>112</u>	<u>95</u>	<u>45</u>
Total Project	2	551	531	447	396
July 90	<u>0</u>	<u>116</u>	<u>112</u>	<u>94</u>	<u>37</u>
Total Project	2	667	643	541	433

ATTACHMENT 1 CONTINUED
Volume Pumped From Mitigation Wells

Date	Monthly <u>114</u>	Total <u>117</u>	Volume <u>175</u>	Pumped (K Gallons)	
				<u>177</u>	<u>178</u>
Aug. 90	<u>0</u>	<u>112</u>	<u>74</u>	<u>98</u>	<u>67</u>
Total Project	2	779	717	639	500
Sept. 90	<u>0</u>	<u>95</u>	<u>115</u>	<u>95</u>	<u>114</u>
Total Project	2	874	832	734	614
Oct. 90	<u>0</u>	<u>47</u>	<u>119</u>	<u>56</u>	<u>34</u>
Total Project	2	921	951	790	648
Nov. 90	<u>0</u>	<u>73</u>	<u>101</u>	<u>91</u>	<u>24</u>
Total Project	2	944	1052	881	672
Dec. 90	<u>0</u>	<u>100</u>	<u>100</u>	<u>27</u>	<u>24</u>
Total 1990	0	983	1028	815	600
Total Project	2	1094	1152	908	697
Jan. 91	<u>0</u>	<u>102</u>	<u>125</u>	<u>27</u>	<u>75</u>
Total Project	2	1196	1277	935	772
Feb. 91	<u>0</u>	<u>66</u>	<u>104</u>	<u>25</u>	<u>52</u>
Total Project	2	1262	1381	960	824
Mar. 91	<u>0</u>	<u>85</u>	<u>112</u>	<u>25</u>	<u>17</u>
Total Project	2	1347	1493	1185	841
Apr. 91	<u>0</u>	<u>95</u>	<u>106</u>	<u>16</u>	<u>8</u>
Total Project	2	1442	1599	1201	849

ATTACHMENT 1 CONTINUED
Volume Pumped From Mitigation Wells

Date	Monthly <u>114</u>	Total <u>117</u>	Volume <u>175</u>	Pumped (K Gallons) <u>177</u>	<u>178</u>
May 91	<u>0</u>	<u>49</u>	<u>94</u>	<u>15</u>	<u>12</u>
Total Project	2	1491	1693	1216	861
June 91	<u>0</u>	<u>48</u>	<u>88</u>	<u>10</u>	<u>14</u>
Total Project	2	1539	1781	1226	875
July 91	<u>0</u>	<u>103</u>	<u>88</u>	<u>32</u>	<u>17</u>
Total Project	2	1642	1869	1258	892
Aug 91	<u>0</u>	<u>59</u>	<u>80</u>	<u>35</u>	<u>35</u>
Total Project	2	1701	1949	1293	927
September 91	<u>0</u>	<u>44</u>	<u>117</u>	<u>54</u>	<u>60</u>
Total Project	2	1745	2066	1347	987
October 91	<u>0</u>	<u>67</u>	<u>104</u>	<u>33</u>	<u>34</u>
Total Project	2	1812	2170	1380	1021
November 91	<u>0</u>	<u>90</u>	<u>91</u>	<u>12</u>	<u>8</u>
Total Project	2	1902	2261	1392	1029
December 91	<u>0</u>	<u>14</u>	<u>106</u>	<u>8</u>	<u>6</u>
Total 1991	0	933	1038	532	387
Total Project	2	1916	2367	1400	1035

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Attachment 2
Concentration And Mass Of Constituents Removed From Aquifer

<u>1991</u>					
Well	<u>117</u>	<u>175</u>	<u>177</u>	<u>178</u>	<u>Total</u>
Volume Liquid Removed (K Gallons)	933	1038	532	387	2890
Arsenic					
License Standard (mg/l) 0.05					
1991 Average (mg/l)	<0.001	<0.001	<0.001	<0.001	
Removed from Aquifer (gram)	0	0	0	0	0
Cadmium					
License Standard (mg/l) 0.01					
1991 Average (mg/l)	<0.010	<0.010	<0.010	<0.010	
Removed from Aquifer (gram)	0	0	0	0	0
Chromium					
License Standard (mg/l) 0.05					
1991 Average (mg/l)	<0.05	<0.05	<0.055	<0.05	
Removed from Aquifer (gram)	0	0	<110	0	< 110
Gross Alpha					
License Standard (pCi/l) 15.0					
1991 Average (pCi/l)	< 2.0	< 2.7	1.0	2.8	
Removed from Aquifer (uCi)	0	0	0	0	0
Lead					
License Standard (mg/l) 0.05					
1991 Average (mg/l)	< 0.05	< 0.05	< 0.05	< 0.05	
Removed from Aquifer (gram)	0	0	0	0	0
Nickel					
License Standard (mg/l) 0.02					
1991 Average (mg/l)	< 0.035	1.145	<0.115	<0.035	
Removed from Aquifer (gram)	< 124	4480	<240	<51	<4,895
Radium 226 & 228					
License Standard (pCi/l) 5.0					
1991 Average (pCi/l)	< 3.35	6.4	<2.4	<3.45	
Removal from Aquifer (uCi)	0	25	0	0	25
Selenium					
License Standard (mg/l) 0.01					
1991 Average (mg/l)	<0.005	<0.001	<0.001	<0.001	
Removed from Aquifer (gram)	0	0	0	0	0

Attachment 2 Continued
Concentration And Mass Of Constituents Removed From Aquifer

<u>1991</u>					
Well	<u>117</u>	<u>175</u>	<u>177</u>	<u>178</u>	<u>Total</u>
Volume Liquid Removed (K Gallons)	933	1038	532	387	2890
Thorium 230					
License Standard (pCi/l) 0.55					
1991 Average (pCi/l)	<0.20	<0.2	<0.2	<0.2	
Removed from Aquifer (uCi/l)	0	0	0	0	0
Uranium					
License Standard (pCi/l) 0.43					
1991 Average (pCi/l)	49	<1.0	28	1.2	
Removed from Aquifer (uCi)	173	<4	56	2	<235
Total Dissolved Solids					
License Standard (mg/l) No Limit					
1991 Average (mg/l)	4505	6049	4687	4525	
Removed from Aquifer (Metric Tons)	16	24	9	7	56

1991

Total Kg Potentially Hazardous Constituents Removed 1991	<	5.1
Total uCi Potentially Hazardous Constituents Removed 1991	<	260
Total Metric Tons Total Dissolved Solids Removed 1991		56

Since Pumping Began in 1989

Total Kg Potentially Hazardous Constituents Removed	<	16.5
Total uCi Potentially Hazardous Constituents Removed	<	594
Total Metric Tons Total Dissolved Solids Removed		120

Please note that constituents are only considered removed from the aquifer in the 1991 data if their concentration exceeded the license standard. This is because it only necessary to remove them by pumping if they exceeded the standard.

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ATTACHMENT 3A TOSS COMPLIANCE MONITOR WELLS

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	105 (mg/l)	504 (mg/l)	Cl (mg/l)	Mo (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pCi/l)	Ra-226 (pCi/l)	Ra-228 (pCi/l)	Ra-226+228 (pCi/l)	Th-230 (pCi/l)	U-235 (pCi/l)		
125	TOM XXVI	02/29/88	7.4	3614	1650	190		< 0.001				1.20	< 0.001		0.70			0.70	0.70		
		05/31/88	7.5	3784	2300	195		< 0.001				1.00	0.007		2.50			0.50	18.00		
		06/30/88	7.3	3298	1790	208		< 0.001				1.30	0.049		0.20			0.90	63.00		
		09/15/88	7.3	3567	1810	211		3.38	< 0.001	0.007	0.060	0.080	0.19	0.038	3.5	0.80	1.20	2.00	0.40	59.00	
		09/29/88	7.4	3565	1670	211		2.85	< 0.001	0.009	< 0.010	< 0.020	< 0.05	0.331	1.6	0.20	3.40	3.70	0.50	59.00	
		10/15/88	7.6	3117	1380	211	283	2.67	< 0.001	0.008	< 0.010	< 0.020	< 0.05	0.049	5.0	0.70	3.10	3.80	0.80	58.00	
		11/28/88	7.6	3108	1780	206		< 0.001				1.10	0.049		1.90			1.20	38.00		
		Average 1988	7.5	3436	1769	219	283	2.97	< 0.001	0.008	< 0.003	< 0.040	< 0.08	0.075	2.7	1.16	2.57	3.17	0.71	42.20	
		02/23/89	7.5	3141	1680	209	317	1.77	< 0.001	< 0.010	< 0.020	< 0.05	0.032	1.9	1.50	1.70	3.20	0.50	29.00		
		05/22/89	7.6	2747	1710	215	369	0.46	< 0.001	0.012	< 0.01	< 0.020	< 0.05	< 0.001	1.2	0.30	1.20	1.50	0.40	26.00	
	Average 1989	07/18/89	7.5	2434	1840	180	249	1.24	< 0.001	0.003	< 0.01	< 0.020	< 0.05	0.038	1.0	1.00	0.70	1.70	0.70	34.00	
		10/19/89	7.4	2672	1570	230	340	0.65	< 0.002	< 0.006	< 0.010	< 0.020	< 0.05	< 0.001	1.4	0.93	1.20	2.13	0.53	29.70	
		01/22/90	7.3	2871	1380	145	232	< 0.01	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.008	1.5	0.90	2.60	3.50	0.70	22.00	
		05/02/90	7.2	2228	1140	125	152	0.29	< 0.001	< 0.010	< 0.020	< 0.05	< 0.001	2.5	0.40	1.50	1.90	0.20	32.00		
		08/23/90	7.5	2506	1500	145	227	0.43	0.001	0.004	< 0.010	< 0.020	< 0.05	< 0.001	2.0	0.65	2.55	3.20	0.45	27.00	
		10/18/90	7.5	2667	1300	140	228	0.28	< 0.001	0.007	< 0.010	< 0.020	< 0.05	< 0.005	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	30.70	
		Average 1990	7.4	2568	1350	139	210	< 0.25	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.70	< 0.20	40.30	
		01/10/91	7.2	2568	1531	117	235	0.04	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	30.70	
		04/18/91	7.4	2526	1390	110	225	0.50	0.002	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.70	< 0.20	40.30	
		07/03/91	7.4	2405	1249	109	214	0.04	0.002	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.70	< 0.20	40.30	
	Average 1991	10/10/91	7.4	2370	1279	106	196	0.16	0.002	< 0.010	< 0.050	< 0.05	< 0.001	< 1.0	< 0.45	< 1.00	< 1.45	< 0.20	35.50		
		Average 1991	7.4	2467	1362	110	217	0.19	< 0.002	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	< 1.0	< 0.45	< 1.00	< 1.45	< 0.20	35.50	
		08/17/88	6.2	5685	2920	455			0.12	< 0.001	0.009	0.520	0.720	0.12	< 0.001	3.1	2.10	2.60	4.70	1.00	0.20
		09/01/88	6.2	5420	2940	449			0.92	0.001	0.010	0.580	0.750	0.16	< 0.001	8.1	1.10	10.00	11.10	0.30	2.10
		09/14/88	6.2	5298	3420	331			0.03	< 0.001	0.010	< 0.010	0.810	< 0.05	0.003	3.6	1.50	5.80	7.30	0.40	0.30
		09/28/88	6.4	4929	3270	376	291	0.12	< 0.001	0.012	0.550	0.850	0.08	< 0.001	8.2	1.00	9.40	10.40	0.60	0.70	
		Average 1988	6.2	5533	3138	403	291	0.30	< 0.001	0.010	< 0.415	0.772	< 0.11	< 0.002	5.8	1.43	6.95	8.38	0.58	0.83	

ATTACHMENT 3A TOSS COMPLIANCE MONITOR WELLS

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pCi/l)	Ra226 (pCi/l)	Ra228 (pCi/l)	Ra226-228 (pCi/l)	Th230 (pCi/l)	UNIT
175	TOM XLI	01/12/89	6.5	5810	3950	430	279	0.35	< 0.001	0.012	0.200	0.900	< 0.05	0.007	7.1	2.10	6.20	8.30	1.00	0.80
		04/25/89	6.4	5766	3690	480	299	0.24	< 0.001	0.014	0.770	0.720	< 0.05	< 0.001	2.3	0.60	1.50	2.30	0.90	< 0.20
		07/16/89	6.4	5393	3090	410	284	0.07	< 0.001	0.011	0.460	0.730	< 0.05	0.001	1.6	1.30	0.80	2.10	0.90	0.30
		10/20/89	6.4	5542	3980	420	360	0.04	< 0.001	0.014	2.032	1.130	< 0.05	< 0.001	4.9	1.60	3.30	4.90	1.00	0.40
		12/12/89	6.4	5126	2200	420	314	0.13	< 0.001	0.013	0.850	0.870	< 0.05	< 0.001	4.0	1.60	2.95	4.55	0.95	< 0.42
		Average 1989	6.4	5607	3346	428	307	0.17	< 0.001	0.013	0.850	0.870	< 0.05	< 0.001	4.0	1.60	2.95	4.55	0.95	< 0.42
		01/16/90	6.1	3924	2480	430	324	< 0.01	< 0.001	0.014	1.970	1.190	< 0.05	0.001	1.5	1.30	1.60	2.90	1.50	0.90
		05/03/90	6.2	6980	3360	400	308	< 0.01	< 0.001	0.014	1.970	1.190	< 0.05	0.001	1.5	1.30	1.60	2.90	1.50	0.90
		08/22/90	6.2	5864	3140	395	316	0.49	0.001	0.013	0.490	0.990	< 0.05	0.001	6.0	1.10	1.90	3.00	0.10	< 0.20
		10/19/90	6.2	7056	3550	384	274	0.43	< 0.001	0.013	0.490	0.990	< 0.05	0.001	6.0	1.10	1.90	3.00	0.10	< 0.20
		Average 1990	6.2	5731	3208	402	306	< 0.24	< 0.001	0.014	1.230	1.090	< 0.05	0.001	3.8	1.20	1.75	2.95	0.80	< 0.55
		01/13/91	6.4	6722	4092	356	374	< 0.01	< 0.001	< 0.010	< 0.050	1.090	< 0.05	< 0.001	4.4	2.00	5.40	7.40	< 0.20	< 0.20
176	TOM XLII	04/21/91	6.1	7165	4159	369	315	< 0.01	< 0.001	< 0.010	< 0.050	1.090	< 0.05	< 0.001	4.4	2.00	5.40	7.40	< 0.20	< 0.20
		07/03/91	6.1	6235	4091	346	396	< 0.01	< 0.001	< 0.010	< 0.050	1.300	< 0.05	< 0.001	< 1.0	0.90	4.60	5.40	< 0.20	1.80
		10/15/91	6.1	4092	2210	364	315	< 0.01	< 0.001	< 0.010	< 0.050	1.300	< 0.05	< 0.001	< 1.0	0.90	4.60	5.40	< 0.20	1.80
		Average 1991	6.2	6049	3641	359	350	< 0.01	< 0.001	< 0.010	< 0.050	1.145	< 0.05	< 0.001	< 2.7	1.45	5.00	6.40	< 0.20	< 1.00
		08/23/88	8.0	2546	950	175	175	0.44	< 0.001	0.003	< 0.010	0.190	< 0.05	< 0.001	4.1	1.30	2.40	3.70	1.10	0.05
		09/07/88	8.4	2345	1270	180	180	0.36	< 0.001	0.005	< 0.010	< 0.020	< 0.05	< 0.001	3.6	0.90	3.90	4.80	0.50	0.05
		09/21/88	8.2	2524	1410	185	193	0.13	< 0.001	0.007	< 0.010	0.040	< 0.05	< 0.001	3.1	1.10	3.60	4.70	0.60	1.20
		10/05/88	8.4	2330	1500	172	193	0.25	< 0.001	< 0.002	< 0.010	0.020	< 0.05	< 0.001	6.3	2.10	4.80	6.90	0.90	1.30
		Average 1988	8.2	2431	1282	178	193	0.30	< 0.001	< 0.005	< 0.010	< 0.032	< 0.05	< 0.001	4.3	1.55	3.68	5.03	0.78	0.45
		01/18/89	8.0	2641	1580	182	197	0.39	< 0.001	0.006	< 0.010	0.140	< 0.05	0.004	5.6	1.90	5.00	6.90	0.50	1.70
		04/26/89	8.2	2491	1880	215	195	< 0.01	< 0.001	0.007	< 0.010	< 0.020	< 0.05	< 0.001	3.0	0.90	2.90	2.90	0.20	< 0.20
		07/17/89	8.1	2546	1560	250	198	0.17	< 0.001	0.006	< 0.010	< 0.020	< 0.05	0.001	1.4	1.10	0.90	> 0.00	0.60	0.80
		10/23/89	8.3	2665	1570	203	204	0.09	< 0.001	0.006	< 0.010	< 0.020	< 0.05	0.001	1.4	1.10	0.90	> 0.00	0.60	0.80
		Average 1989	8.2	2581	1642	213	198	< 0.16	< 0.001	0.006	< 0.010	< 0.060	< 0.05	< 0.002	3.3	1.30	2.67	3.93	0.43	< 0.90

ATTACHMENT 3A TOSS COMPLIANCE MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alphas (pc/l)	Ra226 (pc/l)	Ra228 (pc/l)	Ra226+228 (pc/l)	Th230 (pc/l)	UNAT (pc/l)
176	YDM XL11	01/17/90	8.0	2066	1650	120	205	0.01	< 0.001	0.012	< 0.010	0.030	< 0.05	0.001	1.6	1.30	2.00	2.30	0.20	0.30
		04/24/90	7.6	2706	1100	375	238	0.08	< 0.001	0.008	0.030	< 0.020	< 0.05	< 0.001	2.2	0.60	2.50	2.90	0.20	< 0.20
		08/24/90	8.1	2576	1500	172	206	0.03	< 0.001	0.008	0.030	< 0.020	< 0.05	< 0.001	1.9	0.95	2.15	2.60	0.20	< 0.25
		10/18/90	8.0	2796	1350	198	201	< 0.01	< 0.001	0.010	< 0.020	< 0.025	< 0.05	< 0.001	1.8	0.20	< 1.00	< 1.20	1.40	< 0.20
	Average 1990		7.9	2536	1400	234	212	< 0.04	< 0.001	0.010	< 0.020	< 0.025	< 0.05	< 0.001	1.9	0.95	2.15	2.60	0.20	< 0.25
		01/11/91	7.8	2693	1631	178	210	0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	1.8	0.20	< 1.00	< 1.20	1.40	< 0.20
		04/18/91	7.3	2732	1548	182	160	< 0.01	< 0.001	0.010	< 0.050	< 0.050	< 0.05	< 0.001	1.8	0.20	< 1.00	< 1.20	1.40	< 0.20
		07/03/91	7.0	2762	1483	187	207	< 0.01	< 0.001	0.010	< 0.050	< 0.050	< 0.05	< 0.001	1.8	0.20	< 1.00	< 1.20	1.40	< 0.20
	Average 1991		7.5	2686	1538	181	194	< 0.01	< 0.001	0.010	< 0.050	< 0.050	< 0.05	< 0.001	1.8	0.20	< 1.00	< 1.20	1.40	< 0.20
		10/10/91	7.4	2763	1625	182	193	< 0.01	< 0.001	0.010	< 0.050	< 0.050	< 0.05	< 0.001	1.8	0.20	< 1.00	< 1.20	1.40	< 0.20
177	TDM XL111	09/22/88	6.1	4074	2080	325	283	< 0.01	< 0.001	0.010	< 0.010	0.110	< 0.05	< 0.001	3.0	1.60	2.00	3.60	1.20	43.00
		09/07/88	6.1	4450	2250	308	277	0.40	< 0.001	0.016	< 0.010	0.120	< 0.05	< 0.001	3.6	0.80	4.30	5.10	0.50	69.00
		09/21/88	6.3	6526	2510	290	273	0.12	< 0.001	0.013	< 0.010	0.150	< 0.05	< 0.001	2.9	1.00	6.50	7.50	0.50	62.00
		10/18/88	6.3	5349	2470	358	283	0.15	< 0.001	0.011	< 0.010	0.140	< 0.05	< 0.001	2.8	1.20	6.90	8.10	1.00	41.00
	Average 1988		6.2	4825	2328	315	283	< 0.17	< 0.001	0.012	< 0.010	0.130	< 0.05	< 0.001	3.1	1.15	4.92	6.07	0.80	53.75
		01/11/89	6.5	4167	2800	282	283	0.75	< 0.001	0.011	< 0.010	< 0.020	< 0.05	< 0.001	4.6	1.80	5.70	7.50	0.70	64.00
		04/24/89	6.4	4037	3050	460	277	0.21	< 0.001	0.011	< 0.010	< 0.020	< 0.05	< 0.001	4.0	1.60	2.40	4.00	1.80	20.00
		07/13/89	6.4	4636	2690	320	273	0.14	< 0.001	0.009	< 0.010	< 0.020	< 0.05	0.003	2.0	1.80	1.20	3.00	1.40	64.00
		10/20/89	6.4	4432	2650	310	350	0.18	< 0.001	0.011	< 0.010	< 0.020	< 0.05	< 0.001	3.0	1.40	1.60	3.00	1.10	47.00
		12/18/89	6.1	4355	2290	310	280	0.44	< 0.001	0.015	0.040	0.090	< 0.05	< 0.001	3.0	1.40	1.60	3.00	1.10	47.00
	Average 1989		6.4	4325	2696	356	293	0.35	< 0.001	0.011	< 0.010	< 0.030	< 0.05	< 0.001	3.4	1.65	2.72	4.37	1.25	48.00
		01/18/90	6.3	4105	2400	290	274	< 0.01	< 0.001	0.015	< 0.010	0.060	< 0.05	0.001	2.1	1.40	1.60	3.00	0.60	36.00
		05/20/90	5.9	5022	2800	320	317	2.36	< 0.001	0.015	< 0.010	0.060	< 0.05	0.001	2.1	1.40	1.60	3.00	0.60	36.00
		08/24/90	6.6	3783	2170	275	293	0.13	< 0.001	0.009	0.040	0.070	< 0.05	< 0.001	6.1	1.60	2.10	3.70	0.20	25.00
		10/19/90	6.5	4624	2500	265	277	0.14	< 0.001	0.012	< 0.025	0.065	< 0.05	< 0.001	4.1	1.50	1.85	3.35	0.40	30.50
	Average 1990		6.3	4134	2488	288	290	< 0.66	< 0.001	0.012	< 0.025	0.065	< 0.05	< 0.001	4.1	1.50	1.85	3.35	0.40	30.50

ATTACHMENT 3A TDS COMPLIANCE MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TOC (mg/l)	SO4 (mg/l)	Cl (mg/l)	Hb (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pCi/l)	Ra226 (pCi/l)	Ra226+228 (pCi/l)	Th230 (pCi/l)	U235 (pCi/l)
177	TDM XL111	01/13/91	6.2	4809	2905	264	322	0.04	< 0.001	< 0.010	0.062	0.200	< 0.05	< 0.001	0.9	0.70	< 1.00	< 0.20	22.50
		04/21/91	6.6	4638	2446	258	248	0.04	< 0.01	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	1.0	1.20	1.80	< 0.20	34.10
		07/05/91	6.4	4667	2476	257	269	< 0.01	< 0.001	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	1.0	1.20	1.80	< 0.20	34.10
		10/14/91	6.4	4654	2413	292	271	0.39	< 0.01	< 0.010	< 0.055	< 0.110	< 0.05	< 0.001	1.0	0.95	< 1.40	< 0.20	28.30
	Average 1991		6.4	4687	2560	262	278	< 0.12	< 0.001	< 0.010	< 0.055	< 0.110	< 0.05	< 0.001	1.0	0.95	< 1.40	< 0.20	28.30

ATTACHMENT 3B TDSS MINOR WELLS

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TD5 (mg/l)	SO4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	Ks (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pCi/l)	Ra226 (pCi/l)	Ra226+228 (pCi/l)	Th230 (pCi/l)	UAT (pCi/l)	
015	TDM Well D	01/27/88	6.9	3474	1420	265			< 0.001				0.80	0.002		1.70		0.70	40.00	
		04/30/88	6.9	4273	1900	290			< 0.001				1.00	0.001		2.60		0.80	47.00	
		07/20/88	6.9	4221	1660	380			< 0.001				0.00	0.007		1.70		2.50	186.00	
		08/30/88	6.9	3423	1950	273		0.83	< 0.001	0.007	0.030	0.040	0.09	0.002	1.5	0.90	3.50	0.40	52.00	
		09/14/88	6.8	3811	1850	308		0.64	< 0.001	0.009	< 0.010	0.060	0.09	0.001	1.7	1.20	3.40	0.60	51.00	
		09/28/88	6.9	3819	1810	300	263	0.38	< 0.001	0.007	< 0.010	0.040	0.08	0.001	1.6	1.50	2.00	0.90	44.00	
		10/25/88	6.9	4201	2303	360	245	0.72	< 0.001	0.007	< 0.010	< 0.020	< 0.05	0.008	3.1	1.50	2.00	2.40	51.00	
		Average 1988	6.9	3869	1599	311	254	0.64	< 0.001	0.008	< 0.020	< 0.040	< 0.30	0.003	2.8	1.60	2.20	3.50	1.20	77.00
		01/27/89	7.4	3230	1990	346	257	0.33	< 0.001	0.007	< 0.010	0.060	< 0.05	0.001	4.3	1.80	3.20	5.00	0.70	86.00
		04/20/89	7.2	3923	2180	280	268	0.29	< 0.001	0.006	0.010	< 0.020	< 0.05	< 0.001	2.8	1.40	1.20	2.60	1.40	27.00
Average	Average 1989	07/18/89	7.4	3662	1830	270	260	0.48	< 0.001	< 0.005	< 0.010	0.040	< 0.05	0.001	1.6	1.20	0.90	2.10	0.80	42.00
		10/19/89	7.4	3596	1700	265	310	0.2												
		1925	7.4	3378	1925	290	274	0.34	< 0.001	< 0.006	< 0.010	< 0.040	< 0.05	< 0.001	2.9	1.50	1.77	2.45	0.97	52.00
		01/19/90	7.0	1724	1500	290	271	< 0.01	< 0.001	0.013	< 0.010	< 0.020	< 0.05	0.001	1.7	1.30	2.00	3.30	0.30	49.00
		05/01/90	7.2	3940	1780	255	243	0.08												
		08/23/90	Not Enough Water to Sample																	
		11/08/90	7.1	3610	1560	275	278	0.10												
		Average 1990	7.1	2958	1647	273	264	< 0.05	< 0.001	0.013	< 0.010	< 0.020	< 0.05	0.001	1.7	1.30	2.00	3.70	0.30	60.00
		01/10/91	7.1	4059	2225	261	264	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	3.1	1.50	10.40	11.90	< 0.20	162.80
		04/18/91	7.0	3972	2009	256	264	0.10												
Average	Average 1991	06/30/91	Not Enough Water to Sample																	
		10/07/91	Well Dry																	
		2009	7.0	4016	2117	258	264	< 0.06	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	3.1	1.50	10.40	11.90	< 0.20	162.80
		01/30/88	7.1	3479	1340	206			< 0.001	0.004	< 0.010		< 0.05	0.100		0.90		0.70	0.10	
		04/30/88	7.1	3432	1840	220			< 0.001	0.007	< 0.010		< 0.05	< 0.001		1.20		2.10	29.00	
		07/18/88	7.0	3715	1500	215			< 0.001	0.012	0.030		< 0.05	0.195		0.80		1.00	15.00	
		08/31/88	7.3	3487	1750	242		0.28	< 0.001	0.006	0.020	< 0.020	< 0.05	0.139	2.5	0.70	4.10	0.30	33.00	
		09/15/88	7.1	3548	1910	202		1.16	0.805	0.008	< 0.010	0.030	0.06	0.096	2.2	1.30	5.60	0.30	26.00	
		09/29/88	7.2	3977	1780	211	252	1.11	0.001	0.008	< 0.010	0.040	< 0.05	0.181	4.0	1.40	3.50	0.70	17.00	
		10/14/88	7.2	4592	1770	220		1.22	< 0.001	0.008	< 0.010	< 0.020	< 0.05	0.172	6.2	0.60	4.60	1.00	11.00	
Average 1988			7.1	3747	1699	217	252	0.94	< 0.002	0.008	< 0.014	< 0.028	< 0.05	< 0.126	3.7	0.99	4.45	5.53	0.87	18.00

ATTACHMENT 3B TDS MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	T	TDS (mg/l)	DO4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pc/l)	Ra226 (pc/l)	Ra228 (pc/l)	Ra226+228 (pc/l)	Th230 (pc/l)	UWCY (pc/l)
112	10M V11	01/26/89	7.2	3208	1900	319	245	16.90	< 0.001	0.007	< 0.010	0.030	< 0.05	0.007	1.9	1.50	4.00	5.50	0.40	18.00
		04/27/89	7.5	3192	1810	260	250	12.20	< 0.001	0.007	< 0.010	< 0.020	< 0.05	< 0.001	2.3	0.90	2.00	2.90	0.30	4.90
		07/18/89	7.3	3045	1830	260	244	13.30	< 0.001	0.010	< 0.010	0.060	< 0.05	0.260	1.7	1.40	0.80			6.50
		10/19/89	7.0	3108	1920	230	389	12.00	< 0.001	0.008	< 0.010	< 0.030	< 0.05							
	Average 1989		7.3	3153	1883	267	262	14.00	< 0.001	0.008	< 0.010	< 0.030	< 0.05	< 2.119	1.3	1.27	2.27	5.50	0.45	9.80
		01/15/90	7.0	2350	1630	220	259	11.80	< 0.001	0.012	< 0.010	< 0.020	< 0.05	0.177	1.4	1.20	3.30	4.50	0.10	11.00
		05/01/90	7.2	3528	1750	225	227	11.80	< 0.001	0.012	< 0.010	< 0.020	< 0.05	0.177	1.4	1.20	3.30	4.50	0.10	11.00
		08/23/90	7.3	3203	1520	202	263	4.47	0.001	0.009	< 0.010	< 0.020	< 0.05	0.169	2.8	0.70	1.60	2.30	0.20	10.00
		10/19/90	7.0	3178	1680	216	253	5.09	< 0.001	0.011	< 0.010	< 0.020	< 0.05	0.173	2.1	0.95	2.45	3.40	0.15	10.50
	Average 1990		7.1	3185	1640	216	250	7.79	< 0.001	0.011	< 0.010	< 0.020	< 0.05	0.173	2.1	0.95	2.45	3.40	0.15	10.50
		01/11/91	7.1	3675	2043	207	249	11.50	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	0.148	1.0	0.60	4.20	4.80	< 0.20	10.00
		04/18/91	7.2	3876	2096	193	253	19.80	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	0.164	< 1.0	0.30	1.60	1.90	< 0.20	25.30
		07/06/91	7.1	3671	2028	201	262	12.20	< 0.001	< 0.010	< 0.050	< 0.020	< 0.05	0.164	< 1.0	0.30	1.60	1.90	< 0.20	25.30
		10/10/91	7.3	3845	2039	204	256	6.80	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	0.156	< 1.0	0.45	2.90	3.35	< 0.20	17.65
	Average 1991		7.1	3766	2051	201	253	12.58	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	0.156	< 1.0	0.45	2.90	3.35	< 0.20	17.65
114	10M 18	01/30/88	6.5	6616	3700	360	360	< 0.001	0.013	< 0.100	< 0.05	0.007	< 0.05	0.007		1.50			0.60	< 0.10
		04/30/88	6.3	7205	5400	400	400	< 0.001	0.013	0.010	< 0.05	0.005	< 0.05	0.005		1.40			1.30	< 0.20
		07/14/88	6.1	5899	2140	275	275	< 0.001	0.016	0.020	0.09	0.014	< 0.09	0.014		1.30			1.50	0.20
		08/25/88	6.1	6310	4420	387	387	0.03	< 0.001	0.008	0.610	0.710	0.08	< 0.001	3.4	0.70	5.40	6.10	0.50	0.10
		09/15/88	6.0	7240	5300	388	388	< 0.01	< 0.001	0.011	0.620	0.820	0.10	< 0.005	0.7	0.90	6.80	7.70	0.70	< 0.05
		09/29/88	6.0	7245	5140	376	359	0.12	< 0.001	0.012	0.600	0.020	2.11	< 0.001	12.5	0.80	6.80	7.60	0.46	1.00
		10/14/88	6.1	6802	5010	359	359	0.37	< 0.001	0.020	0.120	< 0.020	< 0.05	< 0.001	10.1	1.50	8.00	10.70	0.80	< 0.05
	Average 1988		6.2	6755	4444	364	359	< 0.14	< 0.001	0.013	< 0.297	< 0.390	< 0.08	< 0.005	6.7	1.13	6.95	7.88	0.83	< 0.17
		01/26/89	6.3	5394	4420	391	302	0.17	< 0.001	0.010	0.200	0.510	< 0.05	0.004	3.2	1.50	4.00	5.30	0.70	1.10
		04/26/89	6.4	5542	7050	390	328	< 0.01	< 0.001	0.010	0.790	0.690	< 0.05	0.002						
		07/14/89	6.3	6797	4590	400	313	0.28	< 0.001	0.010	0.470	0.410	< 0.05	0.002	1.4	1.10	0.96	2.00	0.80	< 0.20
		10/23/89	6.2	6676	3980	390	390	0.17	< 0.001	0.010	0.470	0.410	< 0.05	0.002						
		12/12/89	6.1	5861	2350	400	313	0.01	< 0.001	0.014	2.080	1.170	< 0.05	< 0.001	2.9	1.00	3.60	4.60	1.80	< 0.20
	Average 1989		6.3	6014	4420	394	329	< 0.13	< 0.001	0.011	0.865	0.700	< 0.05	< 0.003	2.5	1.20	2.83	4.03	1.10	< 0.50

ATTACHMENT 38 TOSS MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/l)	SDA (mg/l)	CL (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grx Alpha (pg/l)	Ra226 (pg/l)	Ra226 (pg/l)	Ra226 (pg/l)	Ra226+228 (pg/l)	Th230 (pg/l)	U8AT (pg/l)
116	TOM 1X	01/16/90	5.8	3347	3260	420	328	< 0.01	< 0.001	0.013	1.880	1.200	< 0.05	< 0.001	2.6	1.40	3.00	5.00	0.80	< 0.20	
		05/03/90	6.2	6086	3940	600	286	< 0.01	< 0.001	0.012	0.500	0.970	< 0.05	0.002	4.3	1.80	1.60	3.40	0.30	< 0.20	
		08/24/90	6.3	5634	3100	400	316	0.50	0.001	0.012	0.500	0.970	< 0.05	0.002	4.3	1.80	1.60	3.40	0.30	< 0.20	
		10/19/90	6.3	6106	3600	360	279	0.13	< 0.001	0.012	0.500	0.970	< 0.05	0.002	4.3	1.80	1.60	3.40	0.30	< 0.20	
		Average 1990	6.2	5343	3475	450	303	< 0.16	< 0.001	0.012	1.190	1.080	< 0.05	< 0.002	3.4	1.60	2.60	4.20	0.55	< 0.20	
		01/13/91	5.7	7232	4757	320	368	< 0.01	< 0.001	< 0.010	< 0.050	1.170	< 0.05	< 0.001	5.3	3.20	7.40	10.60	< 0.20	< 0.20	
		04/18/91	6.1	6673	4017	343	338	< 0.01	< 0.001	< 0.010	< 0.050	1.170	< 0.05	< 0.001	5.3	3.20	7.40	10.60	< 0.20	< 0.20	
		07/06/91	6.1	5187	3209	303	336	< 0.01	< 0.001	< 0.010	< 0.050	0.700	< 0.05	< 0.001	< 1.0	0.70	< 1.00	< 1.70	< 0.20	< 0.20	
		10/14/91	6.2	6582	4059	232	304	< 0.01	< 0.001	< 0.010	< 0.050	0.700	< 0.05	< 0.001	< 1.0	0.70	< 1.00	< 1.70	< 0.20	< 0.20	
		Average 1991	6.0	5419	4011	300	337	< 0.01	< 0.001	< 0.010	< 0.050	0.935	< 0.05	< 0.001	< 3.2	1.95	< 4.20	< 6.15	< 0.20	< 0.20	
117	TOM K11	01/30/88	6.5	6514	2700	270	270	< 0.001	< 0.001	0.013	< 0.010	< 0.05	< 0.05	0.004	1.60	1.60	2.10	3.00	0.66	0.20	
		04/30/88	6.4	4933	1970	285	285	< 0.001	< 0.001	0.014	< 0.010	< 0.05	< 0.05	0.004	2.10	2.10	2.10	2.10	1.40	57.00	
		07/18/88	6.2	5044	1970	285	285	< 0.001	< 0.001	0.017	0.030	0.09	0.09	0.007	3.00	3.00	3.00	3.00	1.20	44.00	
		08/25/88	6.2	4414	2320	290	290	0.15	0.001	0.008	< 0.010	0.070	0.08	< 0.013	4.3	1.50	6.50	8.00	1.00	55.00	
		09/09/88	6.2	5064	2350	308	308	0.20	0.001	0.012	< 0.010	0.090	0.10	< 0.013	5.5	1.20	2.70	3.90	0.50	60.00	
		09/23/88	6.2	4263	2740	308	308	0.11	< 0.001	0.011	0.020	0.020	0.06	< 0.001	5.1	1.30	6.70	8.00	0.40	51.00	
		10/13/88	6.2	4664	2560	352	275	0.26	< 0.001	0.010	< 0.010	< 0.020	< 0.05	< 0.01	11.8	1.40	7.70	9.10	0.60	26.00	
		Average 1988	6.2	4697	2380	300	275	0.18	< 0.002	0.012	< 0.013	< 0.050	< 0.07	< 0.053	6.2	1.70	5.90	7.25	0.82	42.17	
		04/26/89	6.4	3676	2510	305	277	< 0.01	0.002	0.016	< 0.010	< 0.020	< 0.05	< 0.001	3.3	1.10	1.80	2.70	1.20	24.00	
		07/13/89	6.3	4214	2650	350	267	0.30	< 0.001	0.008	< 0.010	0.080	< 0.05	0.003	1.7	1.20	0.60	1.80	0.90	14.00	
Average 1989		10/20/89	6.4	3941	2560	295	340	0.16	< 0.001	0.013	0.040	0.020	< 0.05	< 0.001	3.2	1.40	1.90	3.30	1.40	44.00	
		12/28/89	6.4	3277	2150	310	282	0.24	< 0.001	0.013	0.040	0.020	< 0.05	< 0.001	3.2	1.40	1.90	3.30	1.40	44.00	
		Average 1989	6.4	3577	2468	325	272	< 0.18	< 0.002	0.012	< 0.020	< 0.063	< 0.05	< 0.002	2.7	1.23	1.43	2.60	1.17	28.00	

ATTACHMENT 3B TOBES MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH	TOC (mg/l)	SD	CL (mg/l)	RA (mg/l)	NO3 (mg/l)	Pb (mg/l)	Se (mg/l)	Urea 2 (mg/l)	Na2S2O8 (mg/l)	Na2S2O8 (mg/l)	Na2S2O8 (mg/l)	UO2 (mg/l)
117	TOM K11	01/18/90	6.2	2812	2120	310	273	< 0.01	< 0.001	0.012	< 0.010	< 0.020	< 0.05	0.001	0.001
		05/03/90	6.3	4544	2260	255	256	< 0.01	< 0.001	0.009	< 0.010	< 0.020	< 0.05	0.001	0.001
		06/22/90	6.5	3608	1750	228	269	0.08	< 0.001	0.009	< 0.010	< 0.020	< 0.05	0.001	0.001
		07/19/90	6.4	4339	2390	263	267	0.05	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
	Average 1990		6.4	3798	2128	263	266	< 0.01	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
		01/13/91	6.6	4394	2049	265	264	0.37	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
		04/21/91	6.3	4431	2531	269	271	1.20	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
		07/04/91	6.5	4455	2351	266	264	0.10	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
		10/19/91	6.5	4519	2548	276	275	0.45	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
	Average 1991		6.4	4505	2448	274	274	0.53	< 0.001	0.010	< 0.010	< 0.020	< 0.05	0.001	0.001
120	TOM K11	01/30/88	7.0	1276	1440	240	240	< 0.01	0.002	0.002	< 0.010	< 0.020	< 0.05	0.004	0.004
		04/30/88	7.0	2044	1850	280	280	< 0.001	0.009	< 0.010	< 0.010	< 0.020	< 0.05	0.002	0.002
		07/13/88	7.2	2800	1660	235	235	0.44	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
		08/25/88	6.9	3206	1610	273	273	0.44	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
		09/25/88	6.9	4090	2050	273	273	0.44	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
		10/23/88	7.0	2766	1670	277	277	0.45	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
	Average 1988		7.0	3586	1610	280	280	0.46	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
		01/27/89	7.2	2586	1700	364	364	< 0.34	< 0.002	0.010	< 0.010	< 0.020	< 0.05	0.002	0.002
		04/25/89	7.2	3978	1980	290	290	< 0.01	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
		07/17/89	7.2	3033	1460	270	270	0.07	0.003	0.003	< 0.010	< 0.020	< 0.05	0.002	0.002
		10/19/89	7.2	3187	1900	240	240	< 0.07	0.003	0.003	< 0.010	< 0.020	< 0.05	0.002	0.002
	Average 1989		7.2	2966	1760	267	267	< 0.35	0.002	0.002	< 0.010	< 0.020	< 0.05	0.002	0.002
		01/16/90	6.9	2171	1620	240	240	< 0.01	0.001	0.001	< 0.010	< 0.020	< 0.05	0.002	0.002
		04/24/90	7.4	2182	1710	310	310	< 0.01	0.001	0.001	< 0.010	< 0.020	< 0.05	0.002	0.002
		08/23/90	7.1	3397	1410	265	265	0.20	0.005	0.005	< 0.010	< 0.020	< 0.05	0.002	0.002
		10/19/90	7.2	3627	1850	305	305	< 0.39	0.005	0.005	< 0.010	< 0.020	< 0.05	0.002	0.002
	Average 1990		7.2	2862	1650	302	302	< 0.11	0.003	0.003	< 0.010	< 0.020	< 0.05	0.002	0.002

ATTACHMENT 38 TDS MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/L)	SO4 (mg/L)	Cl (mg/L)	Fe (mg/L)	NO3 (mg/L)	As (mg/L)	Cd (mg/L)	Cr (mg/L)	Mn (mg/L)	Pb (mg/L)	Sr (mg/L)	Grs Alpha (pg/L)	Ra226 (pg/L)	Ra228 (pg/L)	Ra226+228 (pg/L)	Th230 (pg/L)	UNIT (pg/L)
120	TOM XXI	01/11/91	6.5	395.7	2019	285	205	< 0.01	0.006	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	1.1	0.90	2.40	3.30	< 0.20	49.40
		04/16/91	7.1	417.4	294.6	259	224	0.15												
		07/04/91	7.1	405.6	198.6	265	212	< 0.01	0.005	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	1.0	0.50	< 1.00	< 1.70	< 0.20	42.80
		10/10/91	7.0	419.7	206.3	263	196	< 0.01												
		Average 1991	6.9	409.1	202.8	268	209	< 0.02	0.007	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	< 1.1	0.70	< 1.70	< 2.40	< 0.20	46.10
127	TOM XXVIII	02/29/88	7.7	98.2	933	12	12		< 0.001				0.90	0.018					1.10	0.50
		05/31/88	7.6	93.1	34.8	14	14		< 0.001				1.00	0.017					0.10	33.00
		08/31/88	7.7	209	410	13	13	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	1.1	0.70	1.70	2.40	0.40	49.00
		09/15/88	7.7	911	394	22		< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	4.1	1.10	1.10	2.20	0.50	57.00
		09/29/88	7.8	105.1	390	11		0.26	< 0.001	0.003	< 0.010	< 0.020	< 0.05	0.001	1.3	0.80	3.60	4.40	0.50	60.00
Average 1988		10/18/88	7.6	818	394	12	82	0.26	< 0.001	0.003	< 0.010	< 0.020	< 0.05	0.002	1.5	0.90	2.60	3.70	0.60	31.00
		11/28/88	7.5	575	221	16			< 0.001				1.00	0.016					1.10	32.00
			7.7	93.7	441	14	82	< 0.14	< 0.001	< 0.003	< 0.010	< 0.020	< 0.44	0.005	2.0	1.07	2.30	3.15	0.61	57.50
		02/23/89	8.2	969	400	15	128	0.29	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	1.7	1.80	1.90	3.70	0.50	33.00
		05/10/89	7.9	920	490	14	112	0.19	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.1	1.50	1.80	3.30	0.50	25.00
Average 1989		07/18/89	7.9	873	530	16	83	0.45	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	1.2	0.90	0.70	1.60	0.60	42.00
		10/19/89	7.9	879	440	15	91	0.35												
			8.0	910	465	15	104	0.32	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	1.40	1.47	2.87	0.53	33.00
		01/19/90	7.7	74.7	320	17	86	< 0.01	< 0.001	0.004	< 0.010	< 0.020	< 0.05	0.002	1.5	0.70	1.50	2.20	0.70	56.00
		05/01/90	8.0	852	410	55	79	< 0.01												
Average 1990		08/23/90	7.8	759	298	30	86	0.65	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	2.1	0.60	1.30	1.90	0.20	26.00
		10/19/90	7.7	86.1	340	16	89	0.56												
			7.8	805	360	30	84	< 0.31	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.002	1.8	0.65	1.40	2.05	0.45	41.00
		01/11/91	7.0	863	451	9.4	94.4	0.02	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	2.3	1.60	3.70	5.30	< 0.20	34.50
		06/21/91	7.5	870	418	9.8	94.9	0.06												
Average 1991		07/04/91	7.7	925	44.7	10.2	85.0	< 0.01	< 0.001	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	< 1.0	0.30	< 1.00	< 1.30	< 0.20	32.10
		10/14/91	7.2	857	423	4.7	82.9	0.05												
			7.5	866	435	8.5	89.3	< 0.04	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	< 1.7	0.95	< 2.35	< 3.30	< 0.20	33.30

ATTACHMENT 36 TOSS MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/l)	SiO ₂ (mg/l)	Cl ⁻ (mg/l)	Na (mg/l)	NO ₃ (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Grs. Atpha (pg/l)	Ra226 (pg/l)	Ra228 (pg/l)	Ra226+228 (pg/l)	Th230 (pg/l)	UOAT (pg/l)
178	TDM XLIV	08/17/85	6.6	4028	315			< 0.01	< 0.001	0.006	< 0.010	< 0.020	< 0.05	0.001	4.2	1.90	2.10	4.00	1.20	57.00
		09/01/88	6.6	4160	2050	334		0.36	0.002	0.006	0.050	< 0.020	0.12	0.001	5.0	1.10	6.70	7.80	0.20	36.00
		09/14/88	6.7	3999	2250	312		0.36	0.001	0.009	0.050	0.110	0.06	0.001	3.0	1.50	4.10	5.60	0.40	35.00
		09/22/88	6.7	3968	1670	326	286	0.05	0.001	0.012	0.060	0.080	0.10	0.001	3.6	1.30	4.40	5.70	0.40	37.00
		Average 1988	6.6	4039	1608	322	284	< 0.019	< 0.002	0.008	< 0.036	< 0.060	< 0.08	0.001	4.0	1.45	4.33	5.78	0.55	41.25
		01/11/85	6.9	3980	2900	300	271	0.31	< 0.001	0.009	< 0.010	< 0.020	< 0.05	< 0.001	2.1	1.90	3.70	5.60	0.95	31.00
		04/24/85	6.9	3227	2500	420	267	0.05	0.002	0.007	< 0.010	< 0.020	< 0.05	< 0.001	2.0	1.70	1.70	3.40	1.70	26.00
		07/13/89	7.0	4392	2800	330	273	0.08	< 0.001	0.009	0.050	0.030	< 0.05	< 0.001	1.6	1.10	0.60	1.70	1.30	75.00
		10/20/89	6.8	3923	2370	316	340	0.16												
		12/16/89	6.9	4029	1940	320	286	0.17	< 0.001	0.016	0.060	0.070	< 0.05	< 0.001	3.2	1.30	1.90	3.20	0.70	2.30
179	TDM XLV	Average 1989	6.9	3910	2502	336	287	0.15	< 0.002	0.010	< 0.036	< 0.055	< 0.05	< 0.001	2.2	1.50	1.90	3.48	1.15	33.58
		01/10/90	6.5	2334	1990	320	334	< 0.01	< 0.001	0.015	< 0.010	0.050	< 0.05	0.001	1.7	1.40	1.50	2.90	0.40	2.60
		05/03/90	6.9	4078	2070	320	273	< 0.01												
		08/24/90	6.8	5690	2100	290	305	0.05	< 0.001	0.014	0.050	0.050	< 0.05	< 0.001	5.2	1.30	1.60	2.90	0.20	2.60
		10/19/90	6.5	4540	2200	255	291	0.05												
		Average 1990	6.7	3608	2090	296	298	< 0.06	< 0.001	0.014	< 0.030	0.040	< 0.05	< 0.001	3.4	1.55	1.55	2.90	0.50	2.60
		01/10/91	7.0	4535	2427	281	299	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	6.3	2.70	1.40	4.10	< 0.20	0.60
		04/23/91	6.7	4830	2421	269	283	0.01												
		07/19/91	6.6	4322	2223	271	297	< 0.01	< 0.001	< 0.010	< 0.050	< 0.020	0.05	< 0.001	1.3	1.80	< 1.00	< 2.80	< 0.20	1.80
		10/11/91	6.6	4414	2299	295	276	0.06												
179	TDM XLV	Average 1991	6.7	4525	2163	279	289	< 0.02	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	2.8	2.25	< 1.20	< 3.45	< 0.20	1.20
		05/22/88	7.5	1022	336	81		0.31	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	3.2	0.80	2.20	3.00	1.40	0.60
		09/06/88	9.0	1148	490	110		0.28	< 0.001	0.003	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.80	3.40	4.20	0.20	0.05
		09/20/88	8.8	1169	694	82		0.40	0.001	0.005	< 0.010	< 0.020	< 0.05	< 0.001	2.4	1.00	2.70	3.70	0.20	0.50
		10/05/88	8.7	976	542	85	172	0.37	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.9	1.80	4.10	5.90	0.50	< 0.05
		Average 1988	8.5	1079	465	90	172	0.34	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.001	2.7	1.10	3.10	4.20	0.58	< 0.50

ATTACHMENT 36 TOSS MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/l)	504 (mg/l)	Cl (mg/l)	Kp (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pc/l)	Ra226 (pc/l)	Ra226 (pc/l)	Ra226-228 (pc/l)	Th230 (pc/l)	U235 (pc/l)
179	10M XLV	01/16/89	8.3	1028	510	77	160	0.28	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.3	1.20	2.90	4.30	0.30	0.90
		04/27/89	8.3	1012	600	230	156	0.06	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.1	1.20	2.70	3.90	0.80	< 0.20
		07/17/89	8.2	1015	430	80	142	0.06	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.003	1.9	0.90	0.30	1.40	1.20	< 0.20
		10/23/89	8.3	998	500	82	175	0.07	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.003	1.9	0.90	0.30	1.40	1.20	< 0.20
	Average 1989		8.2	1003	510	117	160	0.12	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	1.8	1.10	2.00	3.10	0.77	< 0.43
		01/17/90	7.9	652	458	115	159	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.3	1.00	1.40	2.40	0.20	0.70
		05/02/90	8.3	1036	520	85	157	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.3	1.00	1.40	2.40	0.20	0.70
		08/24/90	7.8	1002	490	80	167	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.60	1.60	2.30	0.20	< 0.20
		10/18/90	8.5	968	425	72	163	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.60	1.60	2.30	0.20	< 0.20
	Average 1990		8.3	914	473	86	162	< 0.01	< 0.001	< 0.004	< 0.010	< 0.020	< 0.05	< 0.001	1.8	0.80	1.50	2.30	0.20	< 0.45
		01/11/91	7.5	1016	568	69.2	167	< 0.01	< 0.001	< 0.016	< 0.050	< 0.050	< 0.05	< 0.001	6.5	0.70	7.90	8.60	< 0.20	< 0.20
		04/18/91	7.8	1027	522	70.8	171	< 0.01	< 0.001	< 0.016	< 0.050	< 0.050	< 0.05	< 0.001	6.5	0.70	7.90	8.60	< 0.20	< 0.20
		07/19/91	7.5	1010	527	71.0	167	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	3.30	< 3.50	< 0.20	0.60
		10/10/91	8.5	1069	552	78.8	167	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	3.30	< 3.50	< 0.20	0.60
	Average 1991		7.8	1026	542	72.4	168	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 3.8	< 0.45	5.60	< 6.05	< 0.20	< 0.40
181	10M XLV11	08/22/88	7.6	769	274	55	55	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	8.2	1.30	2.30	3.60	1.10	5.50
		09/06/88	8.7	692	280	55	55	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.9	1.20	1.90	3.10	0.20	5.90
		09/20/88	8.6	738	282	49	145	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.1	1.00	1.60	2.60	0.30	0.05
		10/06/88	8.5	719	302	51	145	< 0.01	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.001	1.7	2.40	3.10	5.50	0.60	< 0.05
	Average 1988		8.4	730	285	52	145	< 0.04	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.001	2.0	1.48	2.50	3.68	0.50	< 2.65
		01/11/89	8.1	683	350	56	146	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.5	1.10	2.90	3.00	0.60	2.60
		04/27/89	7.9	754	406	220	148	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.1	1.70	2.50	4.20	0.70	0.30
		07/14/89	7.8	842	440	70	151	< 0.06	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.003	2.0	1.30	1.20	2.50	1.10	< 0.20
		10/23/89	8.0	835	460	78	177	< 0.18	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.003	2.0	1.30	1.20	2.50	1.10	< 0.20
	Average 1989		8.0	776	418	106	156	< 0.14	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	1.5	1.40	2.20	3.60	0.80	< 1.03

ATTACHMENT 3B TDS MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (µg/l)	Ra226 (pCi/l)	Ra228 (pCi/l)	Ra226+228 (pCi/l)	Tb230 (pCi/l)	UNAT (pCi/l)
181	TOM KLVI1	01/17/90	7.6	809	460	115	172	< 0.01	< 0.001	0.005	< 0.010	< 0.020	< 0.05	0.001	1.1	0.90	1.60	2.50	0.20	23.00
		04/24/90	7.7	1072	450	95	237	< 0.01	< 0.001	0.005	< 0.010	< 0.020	< 0.05	< 0.001	3.7	1.00	2.80	3.80	0.20	0.70
		08/22/90	7.7	1269	520	86	213	0.19	< 0.001	0.005	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.95	2.20	3.15	0.20	11.90
		10/18/90	7.9	1303	560	98	210	0.14	< 0.001	0.004	< 0.010	< 0.020	< 0.05	< 0.001	2.3	2.00	< 1.00	< 3.00	< 0.20	< 0.20
		Average 1990	7.7	1113	498	98	210	0.09	< 0.001	0.004	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.95	2.20	3.15	0.20	11.90
183	TOM KL1X	07/11/91	7.4	1344	770	89	218	0.02	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	2.3	2.00	< 1.00	< 3.00	< 0.20	< 0.20
		06/18/91	7.5	1396	745	85.3	226	0.32	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	0.90	< 1.00	< 1.90	< 0.20	1.80
		07/05/91	7.1	1659	881	90.9	233	0.02	< 0.001	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	< 1.7	1.45	< 1.00	< 2.45	< 0.20	< 1.00
		10/16/91	8.1	1571	814	115	261	0.05	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	3.3	1.20	2.00	3.20	0.40	4.50
		Average 1991	7.3	1422	803	95	230	0.03	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	3.3	1.20	2.00	3.20	0.40	4.50
185	TOM KL1X	08/22/88	8.2	890	310	72	159	0.10	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.6	0.70	2.00	2.70	0.30	5.50
		09/06/88	8.6	890	390	70	171	0.39	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	1.6	0.70	2.00	2.70	0.30	5.50
		09/20/88	8.5	945	400	71	159	0.48	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.5	1.00	2.40	3.40	0.30	4.10
		12/05/88	8.1	843	290	75	159	0.27	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.6	2.10	4.00	6.10	0.70	0.87
		Average 1988	8.4	894	310	72	159	0.28	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	2.2	1.25	2.60	3.85	0.43	3.77
Average 1989	TOM KL1X	01/18/89	8.0	1018	460	105	156	0.32	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.003	1.4	1.00	2.80	3.80	0.60	0.70
		05/27/89	8.3	1060	670	110	171	0.27	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.9	1.00	1.90	2.90	0.90	< 0.20
		07/17/89	7.9	1128	510	80	169	0.18	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	2.2	1.00	2.35	3.35	0.75	< 0.45
		10/25/89	8.4	1064	642	86	154	0.13	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.6	0.70	1.60	2.30	1.90	0.70
		Average 1989	8.2	1068	570	97	160	0.22	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	2.2	1.00	2.35	3.35	0.75	< 0.45
Average 1990	TOM KL1X	01/17/90	8.4	997	500	90	183	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.6	0.70	1.60	2.30	1.90	0.70
		05/02/90	8.2	1202	630	75	173	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.6	0.70	1.60	2.30	1.90	0.70
		08/24/90	7.9	1376	476	96	195	0.16	< 0.001	0.004	< 0.010	< 0.020	< 0.05	< 0.001	2.6	0.70	1.50	2.20	0.10	0.20
		10/19/90	7.6	1410	625	90	195	0.11	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.001	2.6	0.70	1.55	2.25	1.00	0.45
		Average 1990	8.0	1246	555	98	186	< 0.08	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.001	2.6	0.70	1.55	2.25	1.00	0.45

ATTACHMENT 3B TOSS MONITOR WELLS CONTINUED

WELL NUMBER	DATE	CH (S.U.)	TOSS (mg/l)	SO4 (mg/l)	CL (mg/l)	SA (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	PB (mg/l)	Se (mg/l)	6-ns Alpha (pc/l)	RS226 (pc/l)	RS228 (pc/l)	16230 (pc/l)	UPAT (pc/l)
185	TDW #11X	01/11/91	7.5	1406	867	88.7	195	< 0.01	< 0.001	< 0.010	< 0.050	< 0.05	< 0.001	2.9	1.80	1.30	3.10	< 0.20
		04/18/91	7.6	1405	774	85	218	0.03										< 0.20
		07/19/91	7.4	1272	710	80.6	204	< 0.01	< 0.001	< 0.010	< 0.050	< 0.05	< 0.001	< 1.0	0.60	< 1.00	< 0.20	1.80
		10/10/91	7.6	1298	746	89.4	190	< 0.01										
	Average 1991		7.4	1396	759	85.9	202	< 0.02	< 0.001	< 0.010	< 0.050	< 0.035	< 0.001	< 2.0	1.20	< 1.15	< 0.20	< 1.00

ATTACHMENT 3C TDS BACKGROUND MONITOR WELLS

WELL NUMBER	WELL NAME	DATE	PH (S.D.)	TDS (mg/L)	SO4 (mg/L)	Cl (mg/L)	Na (mg/L)	NO3 (mg/L)	As (mg/L)	Cd (mg/L)	Cr (mg/L)	Ni (mg/L)	Pb (mg/L)	Se (mg/L)	Gra Alpha (pc/L)	Ra226 (pc/L)	Ra228 (pc/L)	9a226+228 (pc/L)	Tn230 (pc/L)	UWAT (pc/L)
134	RM-6	05/07/88	8.3	975	446	12			< 0.001	< 0.002	< 0.010		< 0.05	0.053		0.60			0.40	1.70
		05/11/88	7.8	975	600	15			< 0.001	< 0.002	< 0.010		< 0.05	0.013		0.80			1.00	3.40
		06/25/88	7.5	943	410	19			< 0.001	< 0.002	< 0.010		< 0.05	0.005		0.80			0.60	0.10
		09/19/88	8.1	1034	440	13	177	0.35	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001		1.20	2.90	4.10	1.30	10.00
		10/26/88	8.0	975	532	12	178	0.69	< 0.001	< 0.005	< 0.010	< 0.020	< 0.05	0.002	2.4	1.20	2.90	4.10	0.70	9.60
		11/09/88	7.9	985	540	13	104	1.02	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.013	2.8	0.60	2.80	3.40	1.30	4.66
		11/23/88	7.7	1025	555	17	184	0.05	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	2.6	0.90	2.70	3.60	1.40	2.40
		11/08/88	7.8	1063	600	27			< 0.001	< 0.010	< 0.010		< 0.05	0.001		1.20			0.90	2.00
		Average 1988	7.9	992	492	16	181	58	< 0.001	< 0.004	< 0.010	< 0.020	< 0.05	0.011	2.6	0.90	2.80	3.80	0.90	3.10
		05/27/89	8.0	956	510	33	195	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.1	0.90	1.50	2.40	0.80	2.10
		06/12/89	7.9	927	540	30	229	0.29	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.004	0.5	1.10	0.80	1.90	2.00	3.40
		09/19/89	7.9	968	560	42	181	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	5.3	0.50	0.60	1.30	2.10	2.60
Average 1989		12/20/89	7.7	1006	500	96	199	0.31												
			7.9	963	528	50	201	< 0.16	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	2.6	0.83	1.03	1.86	1.63	2.70
		03/26/90	7.7	928	600	20	205	1.22	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	3.8	1.60	1.50	3.10	1.10	< 0.20
		06/26/90	8.0	927	480	17	191	0.49												
		09/01/90	8.3	1019	420	14	196	0.98	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.004	3.6	0.80	2.00	2.90	0.50	0.30
		12/01/90	7.5	987	434	11	200	0.14												
		Average 1990	7.9	990	486	16	198	0.71	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002	3.7	1.20	1.75	2.95	0.80	< 0.25
		03/02/91	7.7	1019	578	8.7	180	0.06	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	< 0.20
		06/10/91	7.8	970	522	6.8	187	0.04	< 0.001	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	< 1.0	0.60	1.40	2.00	< 0.20	0.30
		09/08/91	7.8	1033	591	3.9	196	1.20	0.020	< 0.010	< 0.050	< 0.020	< 0.05	0.074	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	1.40
		12/12/91	8.1																	
		Average 1991	7.8	994	575	7.8	184	0.05	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	< 1.0	< 0.40	< 1.20	< 1.60	< 0.20	< 0.25
172	SM - EW-5	07/29/88	7.8	719	186	16			< 0.001											
		11/26/88	7.8	456	270	16	106	0.10	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001		5.20			21.00	
		Average 1988	7.8	588	228	18	106	0.10	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001		4.15			0.70	10.85
		04/26/89	7.8	418	248	30	103	0.11	< 0.001	0.003	< 0.010	< 0.020	< 0.05	0.002	2.0	1.40	1.90	3.30	0.30	1.70
		06/12/89	7.8	485	220	34	132	0.20	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.004	3.6	1.70	0.40	2.10	1.60	0.40
		09/26/89	7.7	459	228	40	97	< 0.10	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002	3.1	1.50	0.50	2.00	1.40	0.30
		12/20/89	7.5	427	295	15	123	0.13												
		Average 1989	7.7	495	225	30	114	< 0.14	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	0.003	2.7	1.53	0.93	2.46	1.10	1.34

ATTACHMENT 3C: TDS5 BACKGROUND MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Gra Alpha (pCi/l)	Ra226 (pCi/l)	Ra228 (pCi/l)	84226+228 (pCi/l)	Th230 (pCi/l)	U235 (pCi/l)
172	SW - EW-5	06/25/90	7.4	530	302	14	112	0.26	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	2.3	2.20	3.10	5.30	0.50	3.10
		06/26/90	7.8	595	340	15	115	0.57	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001						
		09/07/90	7.9	520	308	20	115	0.94	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002	3.2	1.90	2.10	4.00	0.20	0.50
		12/01/90	7.7	653	256	16	122	0.25	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002						
		Average 1990	7.7	574	301	16	116	0.50	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002	2.8	2.05	2.60	4.65	0.35	1.80
	Average 1991	03/02/91	7.5	576	310	10.4	116	0.01	< 0.001	< 0.01	< 0.050	< 0.05	< 0.05	< 0.001	3.8	3.09	< 1.00	< 4.00	< 0.20	< 0.20
		06/10/91	7.4	531	273	8.6	116	0.02	< 0.001	< 0.01	< 0.050	< 0.02	< 0.05	< 0.001	1.1	1.40	< 1.00	< 2.40	< 0.20	< 0.20
		09/08/91	7.7	565	301	4.8	116	1.20	0.014	< 0.01	< 0.050	< 0.02	< 0.05	0.034	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	2.00
		12/12/91	6.0																	
		Average 1991	7.4	553	292	9.5	115	0.02	< 0.001	< 0.01	< 0.050	< 0.04	< 0.05	< 0.001	2.0	2.20	< 1.00	< 3.20	< 0.20	< 0.20
176	TDMKL	08/17/88	10.8	292	46	5		0.05	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	3.0	0.80	1.90	2.70	0.90	1.60
		09/01/88	9.4	326	106	10		0.49	0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.161	0.9	0.80	1.20	2.00	0.30	1.40
		09/14/88	9.3	327	170	10		0.22	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.0	1.20	1.50	2.70	0.50	2.10
		09/28/88	9.2	312	54	6	74	0.20	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.5	0.70	3.40	4.10	0.50	1.30
		Average 1988	9.7	316	94	8	74	0.24	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.6	0.88	2.00	2.68	0.55	1.60
	Average 1989	02/27/89	8.5	340	96	14	93	0.10	0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.005	1.7	1.40	1.70	3.10	0.40	< 0.20
		04/26/89	8.1	292	134	30	71	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.9	1.00	1.50	2.50	0.90	< 0.20
		07/18/89	7.9	291	95	18	67	0.03	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.006	1.5	0.50	0.60	1.10	0.60	0.20
		10/20/89	8.5	301	110	13	80	0.08												
		Average 1989	8.2	306	109	19	78	0.06	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.004	2.0	0.97	1.27	2.25	0.63	< 0.20
	Average 1990	01/22/90	7.9	298	88	26	74	0.04	< 0.001	< 0.002	0.240	< 0.020	< 0.05	0.001	1.4	1.20	1.60	2.80	0.20	< 0.20
		04/23/90	8.0	320	65	12	81	< 0.01												
		08/26/90	8.2	294	110	12	74	< 0.01	0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.7	0.70	1.80	2.50	0.20	< 0.20
		10/23/90	8.2	316	85	12	72	< 0.01												
		Average 1990	8.1	307	87	16	75	< 0.02	< 0.001	< 0.002	< 0.125	< 0.020	< 0.05	< 0.001	2.0	0.95	1.70	2.65	0.20	< 0.95
	Average 1991	01/13/91	7.3	287	126	5.6	82.4	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	0.20	< 1.00	< 1.20	< 0.20	< 0.20
		04/28/91	7.8	249	104	5.5	84.8	< 0.01												
		07/19/91	8.0	297	110	6.3	73.5	< 0.01	< 0.001	< 0.010	< 0.050	< 0.020	< 0.05	< 0.001	< 1.0	0.70	< 1.00	< 1.70	< 0.20	1.80
		10/14/91	8.1	312	102	2.6	78.0	< 0.01												
		Average 1991	7.8	278	113	5.8	80.2	< 0.01	< 0.001	< 0.010	< 0.050	< 0.035	< 0.05	< 0.001	< 1.0	0.45	< 1.00	< 1.45	< 0.20	< 1.00

ATTACHMENT 3C: TOSS BACKGROUND MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	TD5 (mg/l)	SD4 (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Ni (mg/l)	Pb (mg/l)	Se (mg/l)	Grs Alpha (pc/l)	Ra226 (pc/l)	Ra226+228 (pc/l)	Th230 (pc/l)	UNIT (pc/l)
182	TOM XL1111	08/22/00	9.7	373	240	9		0.39	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.2	1.10	2.50	3.60	0.90
		09/06/00	9.9	385	182	10		0.30	0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.003	0.9	0.90	1.50	2.40	0.20
		09/20/00	9.6	403	104	11		0.26	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	0.8	1.10	1.80	2.90	0.40
		10/04/00	9.6	372	110	13	104	0.05	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.0	1.80	2.10	3.90	0.70
	Average 1988		9.7	385	159	11	104	0.25	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.4	1.23	1.98	3.20	0.55
		01/18/09	9.5	341	162	14	106	0.43	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002	0.9	0.70	1.30	2.00	0.60
		04/27/09	9.2	337	195	14	108	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	3.0	0.30	2.10	2.40	1.10
		07/14/09	8.9	350	165	18	100	0.04	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.002	1.4	1.20	0.90	2.10	0.50
	Average 1989		9.5	351	182	12	117	1.07											
		10/23/09	9.2	365	176	14	108	< 0.39	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	1.8	0.73	1.43	2.17	0.67
		01/15/00	8.9	351	149	12	107	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	0.001	0.8	0.40	1.60	2.90	0.20
		04/24/00	8.6	326	100	43	119	< 0.01											
		08/23/00	8.6	380	134	25	110	0.22	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.5	0.60	1.70	2.30	0.20
		10/18/00	8.6	361	157	11	107	0.18											
	Average 1990		8.7	356	135	23	111	< 0.10	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.4	0.50	1.65	2.15	0.20
		01/11/01	7.7	392	209	4.9	126	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20
		04/18/01	8.1	352	180	5.6	116	0.01											
		07/03/01	7.5	388	197	4.8	114	< 0.01	< 0.001	< 0.010	< 0.050	< 0.050	< 0.05	< 0.001	2.0	1.50	< 1.00	< 2.50	< 0.20
		10/10/01	8.1	394	197	4.1	109	< 0.01											
	Average 1991		7.8	377	196	5.0	119	< 0.01	< 0.001	< 0.010	< 0.050	< 0.055	< 0.05	< 0.001	< 1.5	< 0.85	< 1.00	< 1.85	< 0.20

ATTACHMENT 30 ONE SANDS MONITOR WELLS

WELL NUMBER	WELL NAME	DATE	pH	TD5 (mg/l)	SGA (mg/l)	Cl (mg/l)	Na (mg/l)	NO3 (mg/l)	As (mg/l)	Co (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Se (mg/l)	Gr Alpha (mg/l)	Ra226 (pCi/l)	Ra228 (pCi/l)	Ra226+228 (pCi/l)	Th230 (pCi/l)	Uranium (pCi/l)
116	TDM #1	01/27/88	7.5	562	235	34														
		06/28/88	7.4	571	240	36														
		07/16/88	7.4	544	208	29														
		10/16/88	7.7	460	254	29														
		Average 1988	7.5	534	234	32														
		01/26/89	7.6	469	245	31														
		04/25/89	7.5	522	2510	50	63	0.13	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		09/27/89	7.6	687	308	170	82	0.15	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		10/20/89	8.5	634	308	48	86	0.07												
		Average 1989	7.8	578	844	75	77	0.12	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
	Average 1989	01/19/90	7.4	666	260	44	77	< 0.01	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		05/01/90	7.8	566	290	85	67	< 0.01	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		08/23/90	7.6	560	270	40	75	< 0.01	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		10/19/90	7.6	682	238	42	78	< 0.01	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		Average 1990	7.6	611	252	56	74	< 0.01	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001						
		01/11/91	6.9	871	359	37.6	77.6	0.02	< 0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001						
		04/18/91	7.6	652	315	35.1	65.6	< 0.01	< 0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001						
		07/04/91	7.5	658	327	34.2	69.0	< 0.01	< 0.001	< 0.010	< 0.050	< 0.02	< 0.05	< 0.001						
		10/15/91	6.2	664	312	46.3	80.6	0.02	< 0.001	< 0.010	< 0.050	< 0.02	< 0.05	< 0.001						
		Average 1991	7.0	661	329	38.3	73.2	< 0.01	< 0.001	< 0.010	< 0.050	< 0.04	< 0.05	< 0.001						
128	TDM KX1X	02/29/88	11.1	424	42	13														
		05/30/88	12.1	375	54	10														
		08/31/88	12.3	401	58	75														
		12/05/88	11.9	303	60	18														
		Average 1988	11.9	375	54	29														
		02/24/89	11.5	489	166	82	159	0.11	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
		05/22/89	11.6	385	64	70	147	0.33	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
		07/18/89	11.2	290	36	71	25	0.10	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
		10/23/89	11.6	311	67	55	156	0.03												
		Average 1989	11.5	375	83	70	112	0.19	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
	Average 1989	01/22/90	11.5	335	75	59	169	< 0.01	< 0.001	< 0.001	< 0.01	< 0.02	< 0.05	< 0.001						
		05/01/90	11.6	268	78	110	108	< 0.01	< 0.001	< 0.001	< 0.01	< 0.02	< 0.05	< 0.001						
		08/28/90	11.0	362	60	68	124	0.05	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
		10/18/90	11.2	420	70	67	128	0.06												
		Average 1990	11.3	346	71	76	117	< 0.04	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
		01/22/91	11.5	335	75	59	169	< 0.01	< 0.001	< 0.001	< 0.01	< 0.02	< 0.05	< 0.001						
		05/01/91	11.6	268	78	110	108	< 0.01	< 0.001	< 0.001	< 0.01	< 0.02	< 0.05	< 0.001						
		08/28/91	11.0	362	60	68	124	0.05	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						
		10/18/91	11.2	420	70	67	128	0.06												
		Average 1991	11.3	346	71	76	117	< 0.04	< 0.001	< 0.002	< 0.01	< 0.02	< 0.05	< 0.001						

ATTACHMENT 3a ORE SAMPLER MONITOR WELLS CONTINUED

WELL NUMBER	WELL NAME	DATE	pH (5.0-11.0)	TDS (mg/L)	SOD (mg/L)	Cl (mg/L)	Na (mg/L)	NO ₃ (mg/L)	As (mg/L)	Cd (mg/L)	Cr (mg/L)	Hf (mg/L)	Pb (mg/L)	Sr (mg/L)	Ort Al (mg/L)	Rn226 (dpm/L)	Rn228 (dpm/L)	Rn226+228 (dpm/L)	Th232 (dpm/L)	U-MAT (dpm/L)
128	TOM XXX	01/10/91	11.6	393	120	61.2	136	0.05	< 0.001	< 0.010	< 0.05	< 0.05	< 0.05	< 0.001	< 1.0	< 0.2	< 1.00	< 1.20	< 0.20	3.7
		04/18/91	10.8	350	159	57.0	110	0.01	< 0.001	< 0.010	< 0.05	< 0.05	< 0.05	< 0.001	< 1.0	< 0.2	< 1.00	< 1.20	< 0.20	3.7
		07/19/91	11.0	387	142	53.0	128	< 0.01	< 0.001	< 0.010	< 0.05	< 0.02	< 0.05	< 0.001	< 1.0	0.5	2.70	3.00	< 0.20	1.8
		10/15/91	8.9	416	160	64.5	116	0.08	< 0.001	< 0.010	< 0.05	< 0.04	< 0.05	< 0.001	< 1.0	< 0.3	< 1.85	< 2.10	< 0.20	2.8
		Average 1991	11.0	387	155	59.0	125	< 0.03	< 0.001	< 0.010	< 0.05	< 0.04	< 0.05	< 0.001	< 1.0	< 0.3	< 1.85	< 2.10	< 0.20	2.8
129	TOM XXX	02/29/88	7.2	2394	1500	142	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0
		05/31/88	7.2	2064	1350	130	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0
		08/30/88	7.2	2357	850	145	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0
		11/28/88	7.4	2055	1900	172	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0
		Average 1988	7.2	2215	1400	147	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0
		02/22/89	7.4	2321	1150	255	181	0.46	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	2.9	1.60	2.80	3.60	< 0.20
		05/22/89	11.8	1912	1200	155	177	0.11	< 0.001	< 0.005	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	2.4	0.80	1.70	2.50	< 0.20
		07/17/89	7.4	1563	840	140	130	0.06	< 0.001	< 0.005	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	1.7	0.80	0.60	1.40	< 0.20
		10/10/89	7.6	2131	1240	163	137	< 0.01	< 0.001	< 0.005	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	4.0	1.00	2.10	3.10	< 0.20
		Average 1989	8.6	1908	1110	179	156	< 0.16	< 0.001	< 0.003	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	2.3	1.10	2.70	2.50	< 0.20
		01/16/90	7.3	1304	1070	150	131	< 0.01	< 0.001	< 0.007	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	2.1	0.70	1.70	2.40	< 0.20
		04/24/90	7.7	1944	840	195	157	0.12	< 0.001	< 0.005	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	2.1	0.70	1.70	2.40	< 0.20
		08/26/90	8.6	1627	560	124	137	1.79	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	4.0	1.00	2.10	3.10	< 0.20
		10/18/90	9.4	1386	456	108	143	1.7	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	4.0	1.00	2.10	3.10	< 0.20
		Average 1990	8.3	1400	732	144	142	< 0.81	< 0.001	< 0.005	< 0.010	< 0.02	< 0.05	< 0.001	< 0.05	3.0	0.85	1.90	2.80	< 0.20
		01/11/91	8.4	2338	1443	161	163	< 0.01	< 0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	< 0.20
		04/18/91	8.1	1351	660	115	146	0.04	< 0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	< 0.20
		07/02/91	10.4	1496	863	97.6	154	1.45	< 0.001	< 0.010	< 0.050	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	< 0.20
		10/16/91	7.5	2645	1285	153	148	0.39	< 0.001	< 0.010	< 0.050	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	< 0.20
		Average 1991	8.6	1933	1063	131	155	0.47	< 0.001	< 0.010	< 0.050	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	< 0.20
145	TOM XXX11	01/27/88	7.0	3509	1570	267	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.40
		04/28/88	7.0	3063	2110	290	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1.4
		07/20/88	6.9	3883	1480	315	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1.20
		11/10/88	7.0	4016	2100	396	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1.20
		Average 1988	7.0	3848	1815	317	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	1.12
		02/24/89	7.5	3668	1540	319	289	0.47	< 0.001	< 0.002	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	0.40
		05/11/89	7.4	3199	2080	310	339	0.32	< 0.002	< 0.013	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	0.40
		08/29/89	7.2	3422	1770	280	271	0.55	< 0.001	< 0.010	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	0.40
		11/20/89	7.3	3428	1710	263	297	0.03	< 0.001	< 0.008	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	0.40
		Average 1989	7.3	3506	1755	294	284	0.29	< 0.002	< 0.008	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 1.20	< 0.20	0.40

WELL NUMBER	WELL NAME	DATE	pH (S.U.)	ATTACHMENT 3D ORE SANDS MONITOR WELLS CONTINUED															
				TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Na (mg/l)	mgS (mg/l)	As (mg/l)	Cd (mg/l)	Cr (mg/l)	Mn (mg/l)	Pb (mg/l)	Sr (mg/l)	Grs Alpha (pc/l/l)	Rad26 (pc/l/l)	Rad26+228 (pc/l/l)	Th230 (pc/l/l)	UNA? (pc/l/l)
14B	TOM XXX11	02/05/90	7.0	2655	1660	290	292	< 0.01	< 0.001	0.008	< 0.010	< 0.02	< 0.05	< 0.001	1.3	0.80	0.90	0.70	71.00
		05/03/90	7.4	3518	1720	310	168	< 0.01	< 0.001	< 0.010	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	< 0.20
		08/27/90	7.6	3604	1490	268	255	0.90	0.002	0.010	< 0.010	< 0.02	< 0.05	0.007	< 1.0	< 0.20	< 1.00	< 0.20	114.00
		11/08/90	7.4	3248	1750	265	268	0.11	< 0.001	0.008	< 0.010	< 0.02	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	63.00
		Average 1990	7.4	3606	1555	283	246	< 0.26	< 0.002	0.009	< 0.010	< 0.02	< 0.05	< 0.004	1	0.85	1.27	0.65	67.00
		02/05/91	7.5	3956	1871	274	250	0.74	0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	119.00
		05/25/91	7.0	3633	1935	298	225	0.79	< 0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	< 0.20
		08/06/91	7.1	4078	1957	275	197	0.15	< 0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	114.00
		11/18/91	7.1	3965	2024	320	230	0.15	0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	77.70
		Average 1991	7.2	3903	1947	292	223	0.21	0.001	< 0.010	< 0.050	< 0.05	< 0.05	< 0.001	< 1.0	< 0.20	< 1.00	< 0.20	77.70

ATTACHMENT 3E: MINE BACKFILL MONITORING WELLS

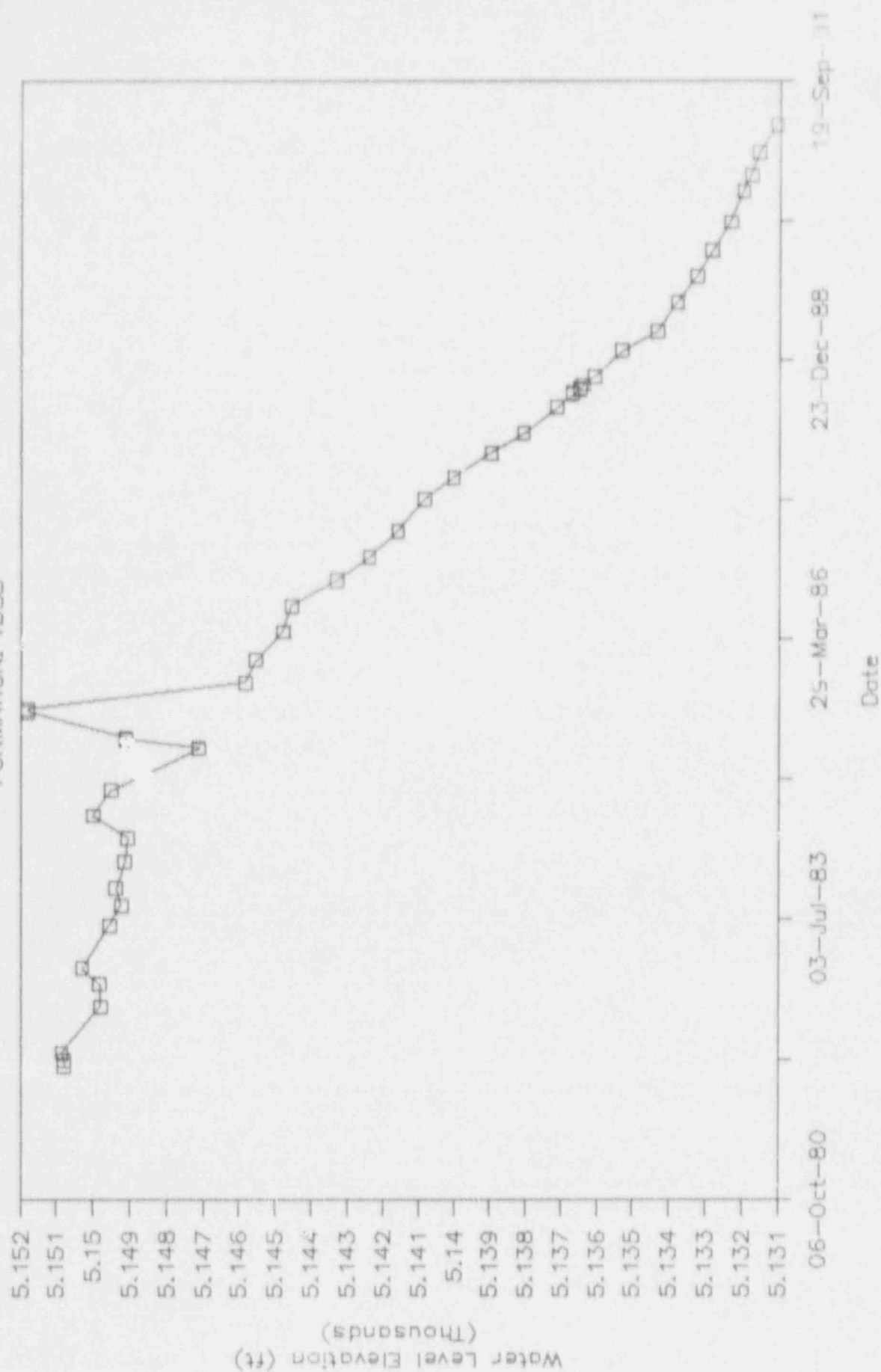
WELL NUMBER	WELL NAME	DATE	PH (S.D.)	TD5 (mg/l)	SDA (mg/l)	CS (mg/l)	As (mg/l)	NO3 (mg/l)	As (mg/l)	Co (mg/l)	Cr (mg/l)	41 (mg/l)	Pb (mg/l)	Se (mg/l)	Grn. K (ppm) (mg/l)	Ra226 (dpm/l)	Ra228 (dpm/l)	Ra226+228 (dpm/l)	Th230 (dpm/l)	Uranium (dpm/l)
171	1144 KKK0211	05/13/05	7.5	750	428	44	82	< 0.001	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.20	0.90	1.80	2.70	14.20	
		12/09/05	7.5	750	434	55	82	< 0.001	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	0.90	0.90	1.80	2.70	15.00	
		Average 1905	7.5	750	431	50	82	< 0.001	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.55	0.90	1.80	2.70	14.60	
		05/20/05	7.5	727	400	44	97	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	0.80	1.60	2.40	2.80	
		06/13/05	7.5	736	400	52	118	0.02	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.2	0.80	1.60	2.40	2.80	
Average 1905	09/22/05	7.6	689	400	43	78	0.13	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.7	0.70	0.60	1.30	1.10		
	12/27/05	7.3	805	210	30	90	0.10	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.7	0.70	0.60	1.30	1.10		
	Average 1905	7.4	739	378	43	94	< 0.06	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.002	1.9	0.80	1.60	2.40	2.80		
	05/01/06	7.6	806	340	30	191	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	0.80	1.60	2.40	2.80		
	06/27/06	7.6	868	396	60	98	0.62	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	0.80	1.60	2.40	2.80		
175	1004 KKK018	05/02/05	8.0	771	471	23	96.9	< 0.01	< 0.001	< 0.01	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	1.50	< 0.20	1.80	
		06/10/05	7.5	640	387	27.7	83.9	1.12	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	< 1.0	< 0.20	1.50	< 0.20	1.80	
		09/02/05	7.5	786	458	19.0	96.5	1.20	0.15	< 0.01	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	1.50	< 0.20	1.80	
		Average 1905	7.2	732	430	23.2	92.4	< 0.38	< 0.008	< 0.01	< 0.050	< 0.050	< 0.05	< 0.001	< 1.0	< 0.20	1.50	< 0.20	1.80	
		05/02/06	7.0	837	264	70	70	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	< 1.0	< 0.20	1.50	< 0.20	1.80	
Average 1905	09/09/06	7.4	739	290	69	69	0.09	< 0.002	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.0	0.50	0.60	1.10	1.10		
	09/23/06	8.0	829	476	60	60	0.06	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	0.60	0.60	1.20	0.60	0.60		
	10/13/06	7.8	510	290	65	71	0.05	< 0.001	< 0.003	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.70	0.60	0.70	0.70		
	Average 1905	7.5	628	307	66	71	< 0.06	< 0.002	< 0.003	< 0.010	< 0.020	< 0.05	< 0.002	1.7	0.80	1.60	2.40	2.80		
	05/24/08	7.8	604	275	98	74	0.24	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.8	0.90	1.20	1.20	1.20		
Average 1909	06/24/09	7.8	626	400	125	71	0.07	< 0.002	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.8	1.00	1.20	1.20	1.20		
	07/13/09	7.4	602	290	85	69	0.15	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	1.00	1.20	1.20	1.20		
	10/23/09	7.8	621	300	74	79	0.19	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	1.00	1.20	1.20	1.20		
	Average 1909	7.2	617	316	96	75	0.12	< 0.002	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.4	0.97	1.07	1.07	1.07		
	07/12/10	7.5	565	262	76	76	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	0.7	0.40	1.00	0.20	< 0.10		
Average 1910	08/23/10	7.5	606	232	90	79	< 0.01	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	0.7	0.40	1.00	0.20	< 0.10		
	08/23/10	8.1	652	220	78	77	0.09	< 0.003	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	1.00	1.20	1.20	1.20		
	10/19/10	7.8	653	258	72	76	0.09	< 0.001	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	1.7	1.00	1.20	1.20	1.20		
	Average 1910	7.2	618	238	79	76	< 0.05	< 0.002	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.2	0.70	1.05	1.00	< 1.05		
	05/17/11	7.2	618	238	79	76	< 0.05	< 0.002	< 0.002	< 0.010	< 0.020	< 0.05	< 0.001	2.2	0.70	1.05	1.00	< 1.05		

ATTACHMENT 3F RICHMOND RESERVOIR

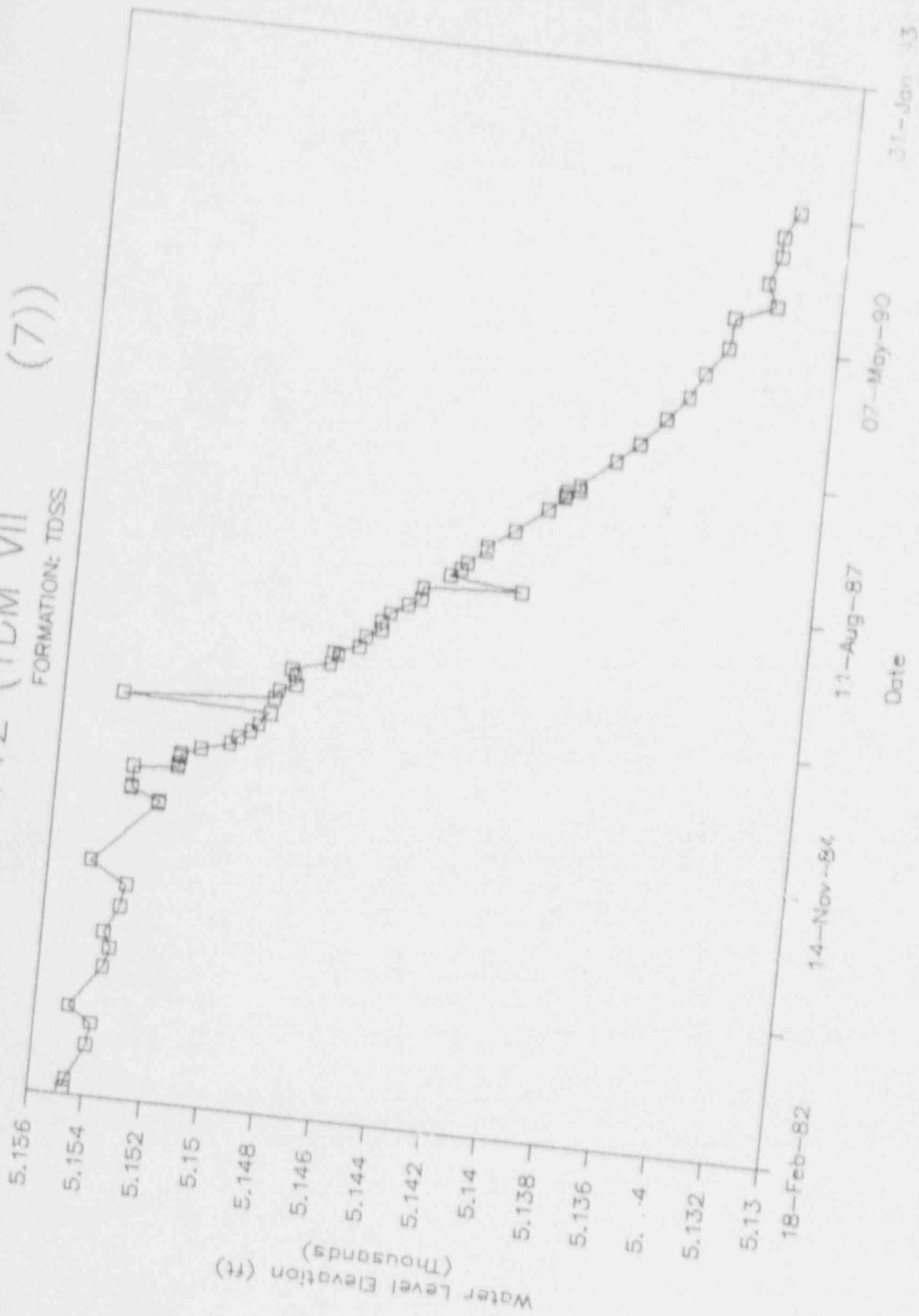
WELL NUMBER	WELL NAME	DATE	pH (5.0-9.0)	705 (mg/l)	706 (mg/l)	CL (mg/l)	Mn (mg/l)	As (mg/l)	Co (mg/l)	Cr (mg/l)	W (mg/l)	Pb (mg/l)	Se (mg/l)	Gr-A Alpha (mg/l)	Na226 (pCi/l)	Na228 (pCi/l)	Na228+226 (pCi/l)	Th230 (pCi/l)	Th232 (pCi/l)
157	RICHMOND	02/29/08	7.8	611	300	22		0.002					0.017		7.70				1780.00
	RESERVOIR	05/31/08	8.0	421				< 0.001					0.208		9.00				1952.00
		08/31/08	8.0	726	364	24	103	0.83	< 0.001	< 0.002	< 0.020	< 0.05	0.132		12.10				2526.00
		11/26/08	8.1	565				< 0.001					0.194		8.80				2138.00
	Average 1908		8.0	656	332	23	103	0.83	< 0.002	< 0.002	< 0.020	< 0.05	0.153		8.90				2099.00
		01/15/09	7.8	677	459	31		0.001					0.155		5.00				2084.00
		05/23/09	8.1	677				< 0.001					0.195		3.60				1996.00
		08/29/09	8.1	683	360	34	107	0.53	0.001	0.003	< 0.020	< 0.05	0.063		5.70				1665.00
	Average 1909		8.0	679	405	32	107	0.53	< 0.001	0.003	< 0.020	< 0.05	0.138		4.90				1895.00
		01/18/10	7.8	770	340	28		< 0.001					0.141		2.00				1917.00
		08/26/10	8.2	731	312	32	105	0.63	< 0.001	0.002	< 0.020	< 0.05	0.103		4.80				1615.00
	Average 1910		8.2	750	326	30	105	0.63	< 0.001	0.002	< 0.020	< 0.05	0.162		3.40				1789.00
		01/14/11	7.8	715	432	22.6	101						0.133		5.10				1627.00
		08/16/11	8.4	706	372	24.9	99.2	< 0.01	< 0.001	0.002	< 0.020	< 0.05	0.137		3.50				1738.00
	Average 1911		8.0	710	422	23.8	96	< 0.01	< 0.001	0.002	< 0.020	< 0.05	0.154		4.30				1682.00

ID: 015 (TDM WELL D, REPL. SECT. 22)

FORMATION: TDSS

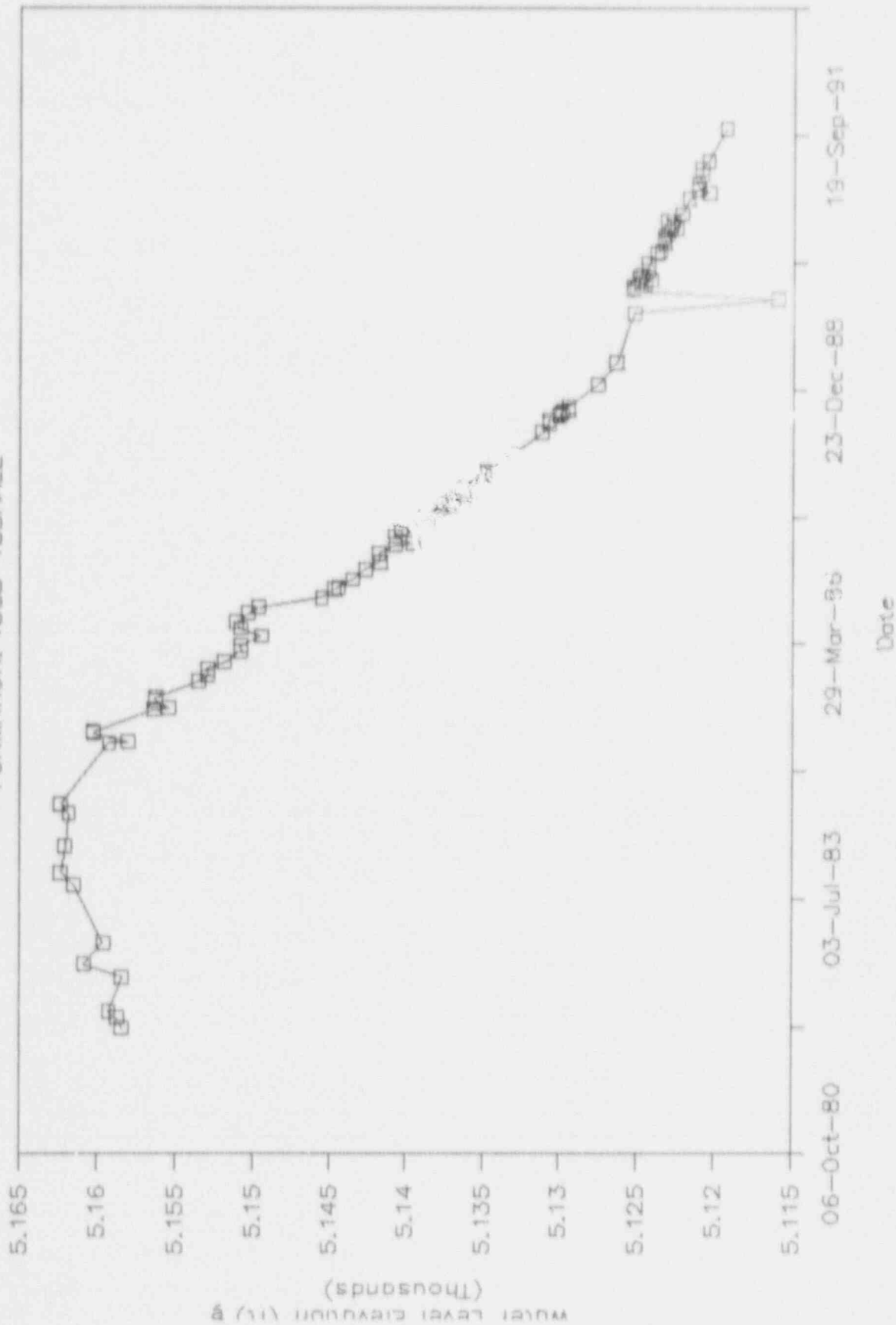


ID: 112 (TDM VII)
FORMATION: TDSS (7))



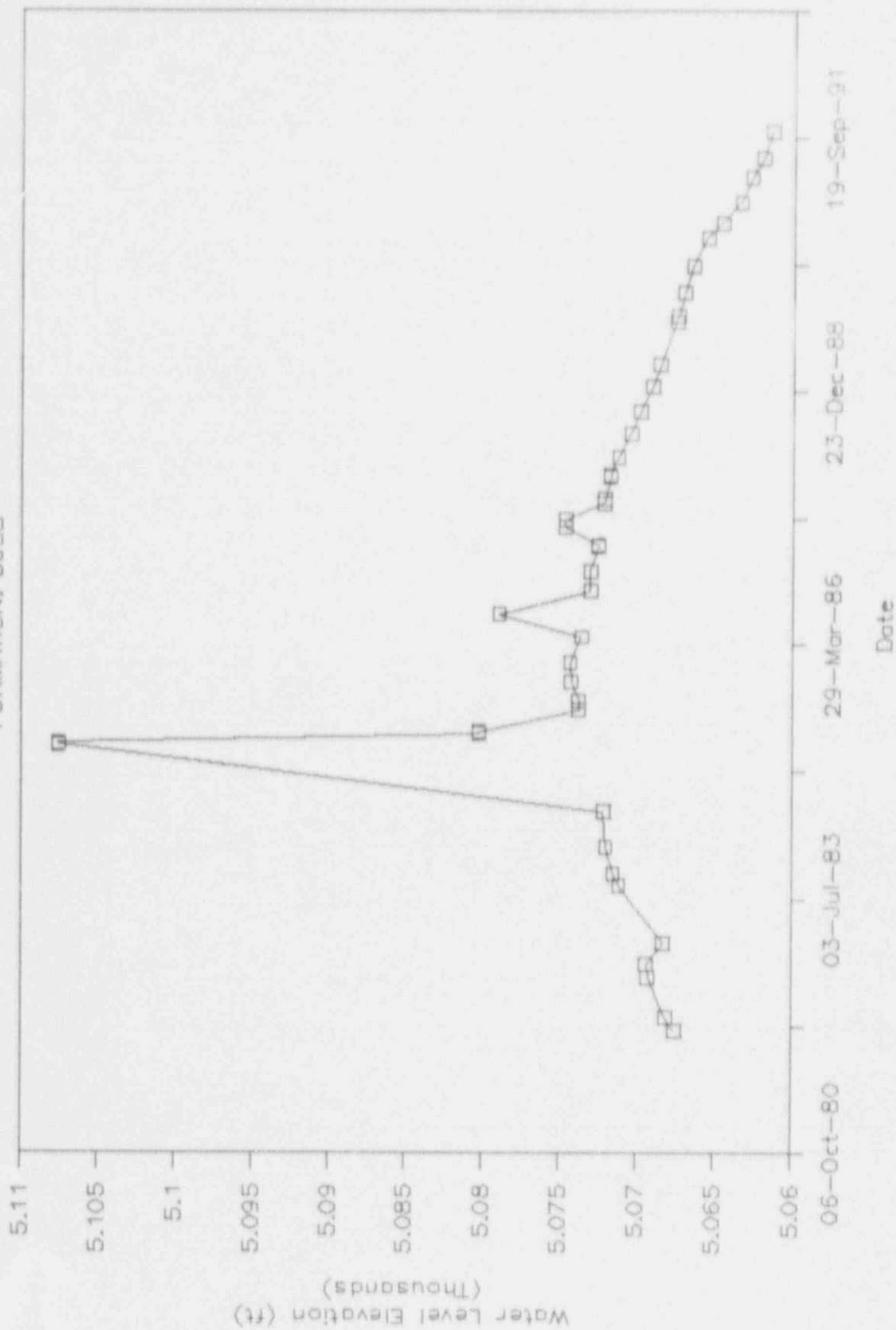
ID: 114 (TDM IX (9))

FORMATION: TDSS-TDSSHALE



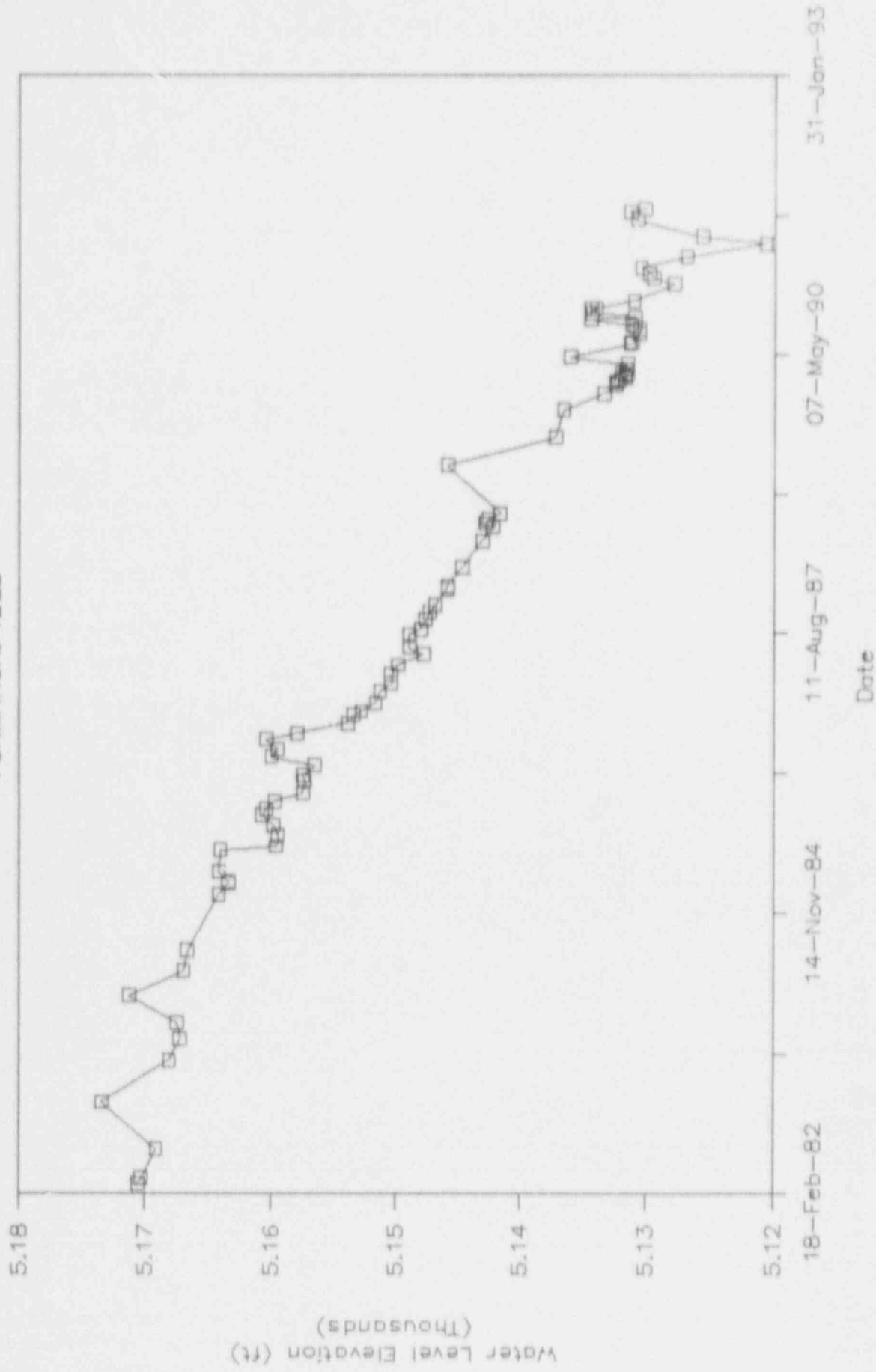
ID: 116 (TDM XI (11))

FORMATION: 50SS



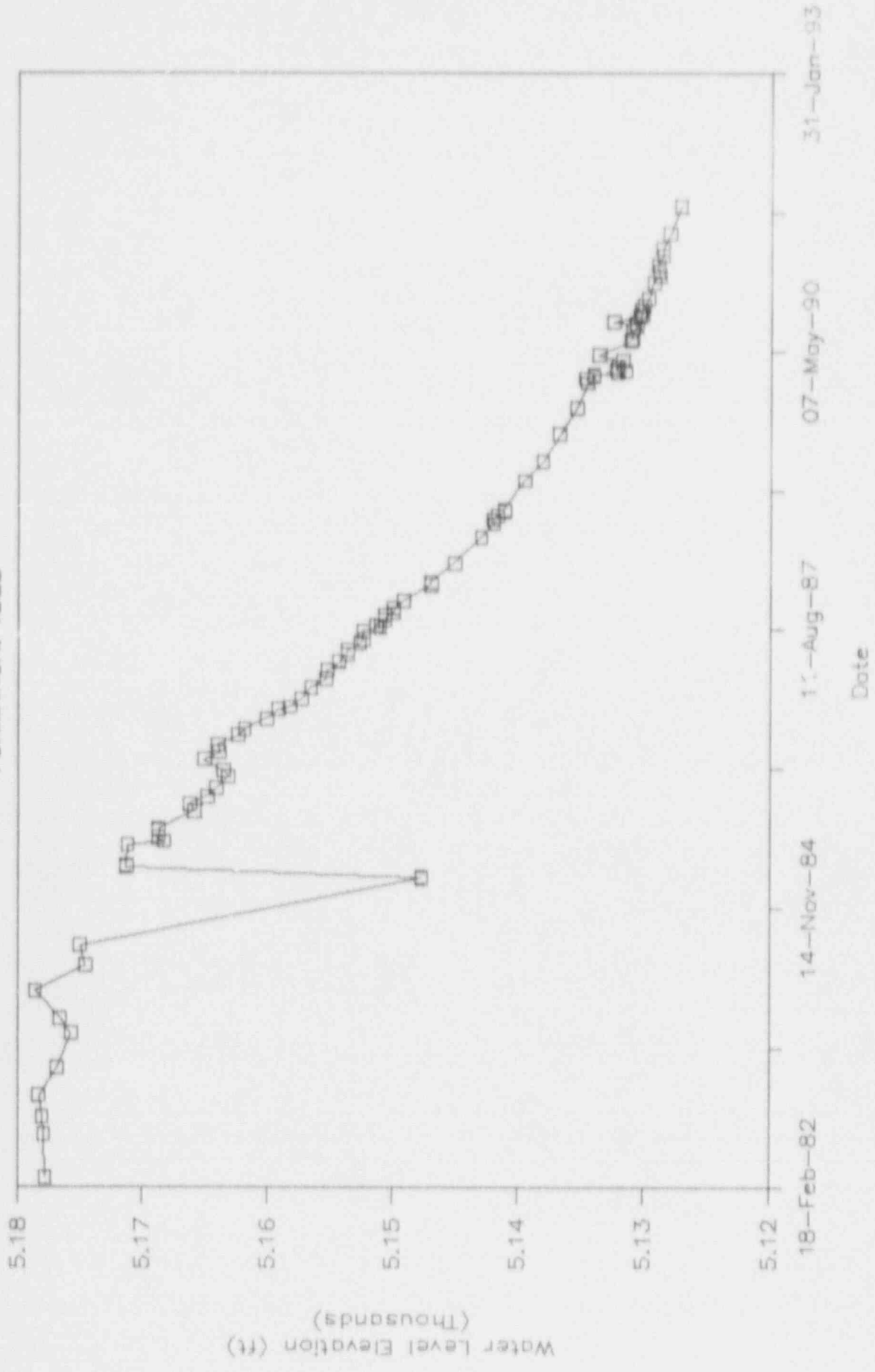
ID: 117 (TDM Xil (12))

FORMATION: TDSS



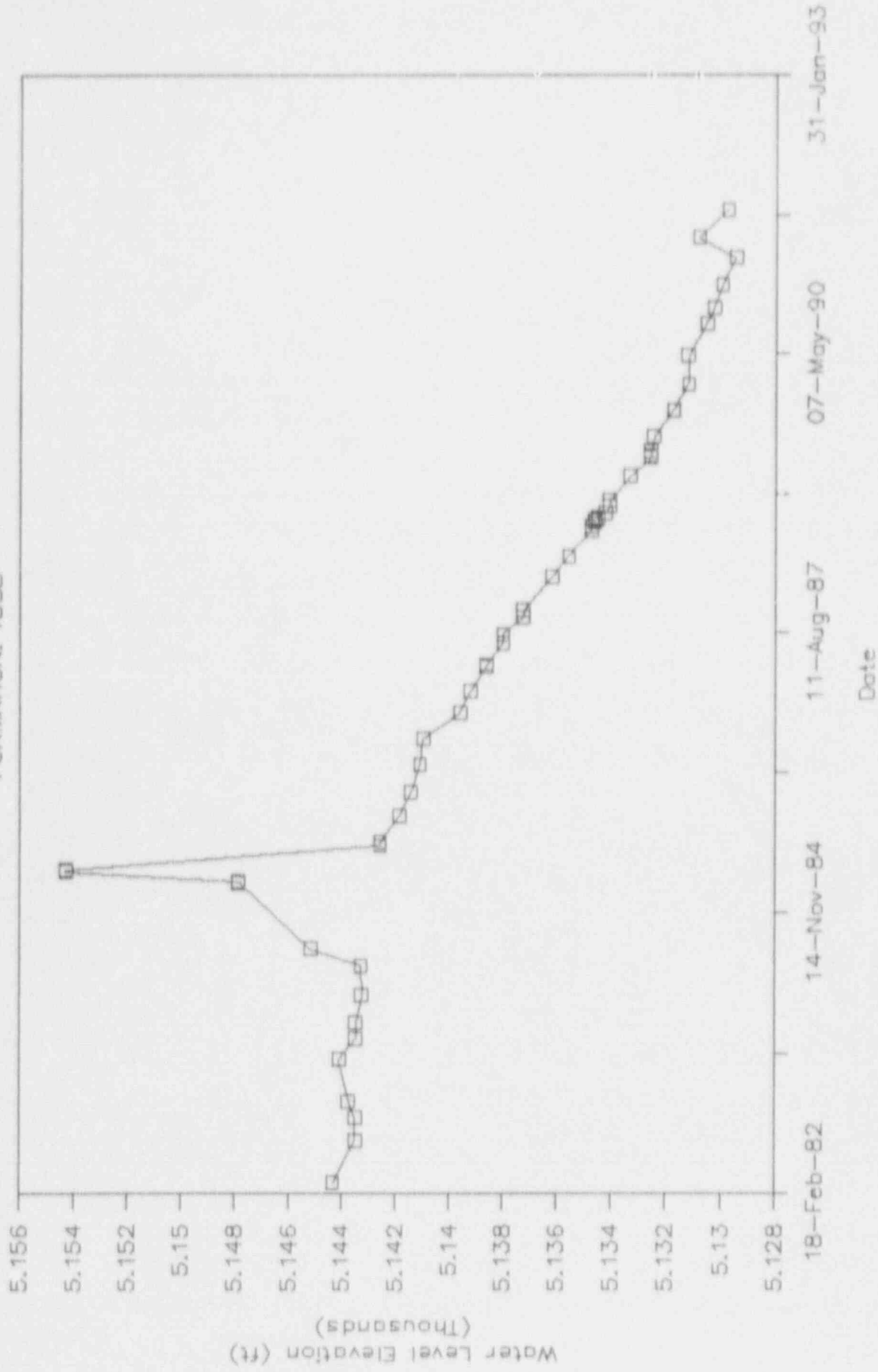
ID: 120 (TDM XXI) (21))

FORMATION: TDSS



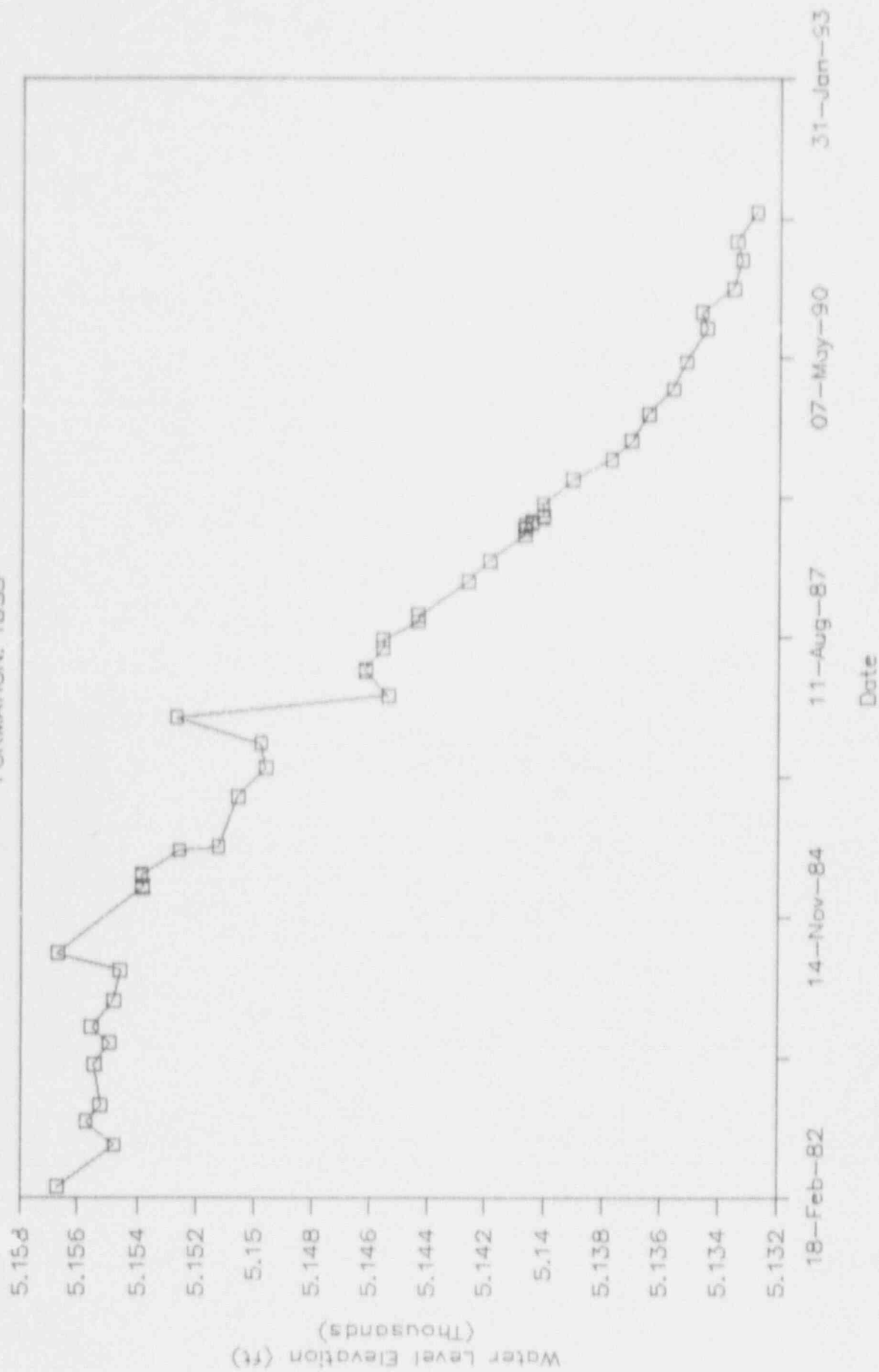
ID: 125 (TDM XXVI (26))

FORMATION: TDSS



ID: 127 (TDM XXVIII) (28))

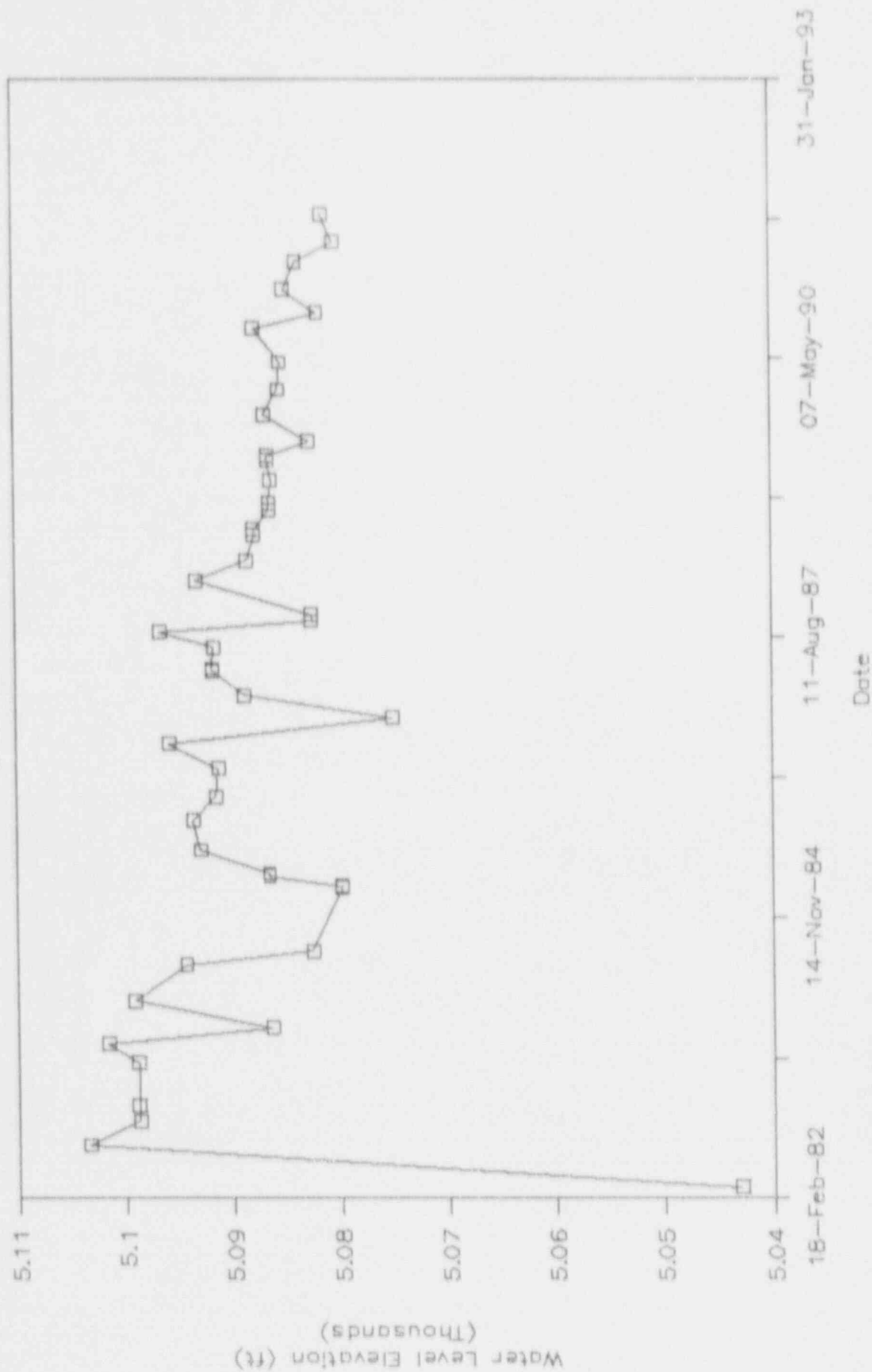
FORMATION: TDSS



ID: 128 (TDM XXIX)

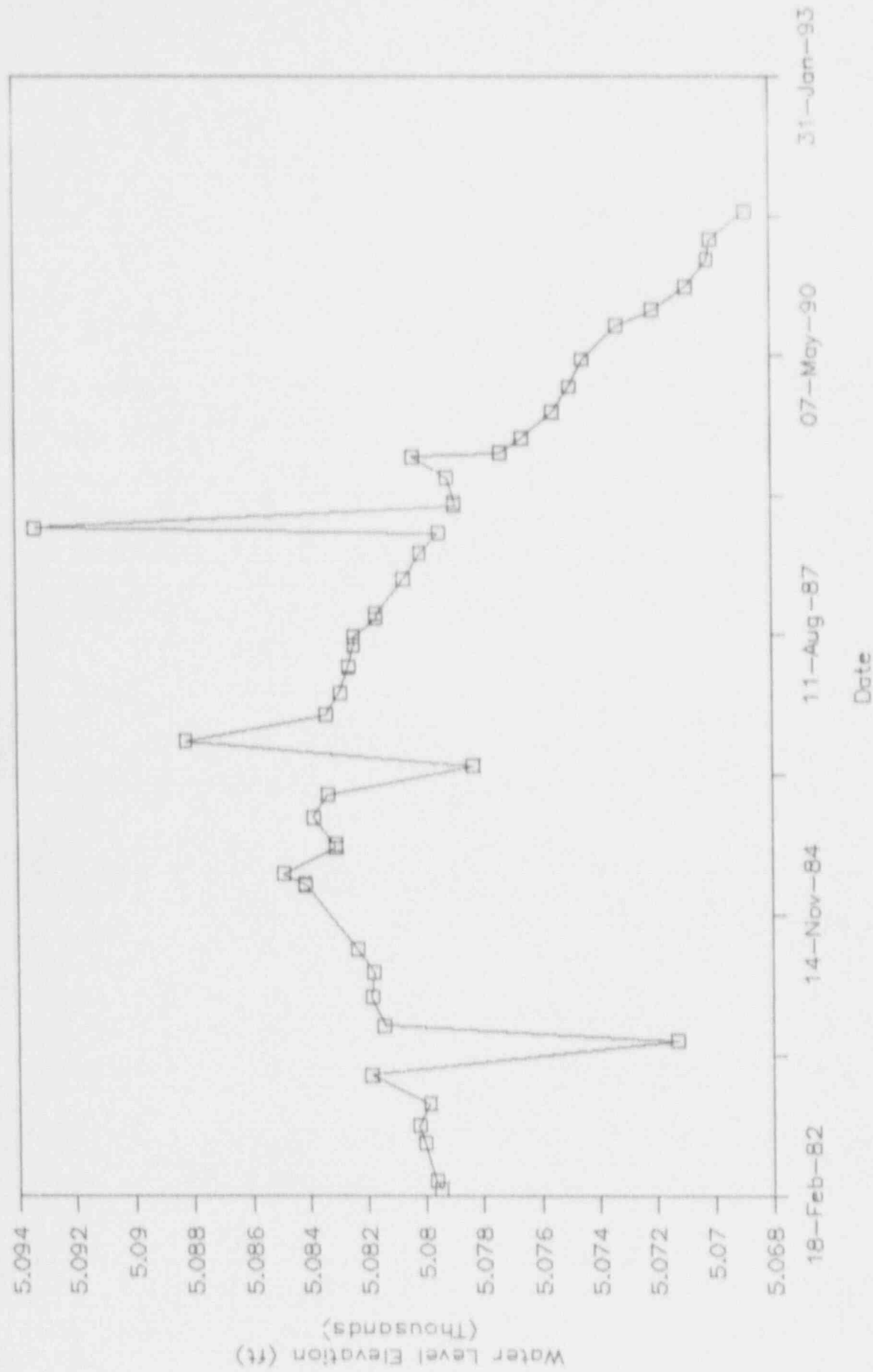
(29))

FORMATION: 50SS



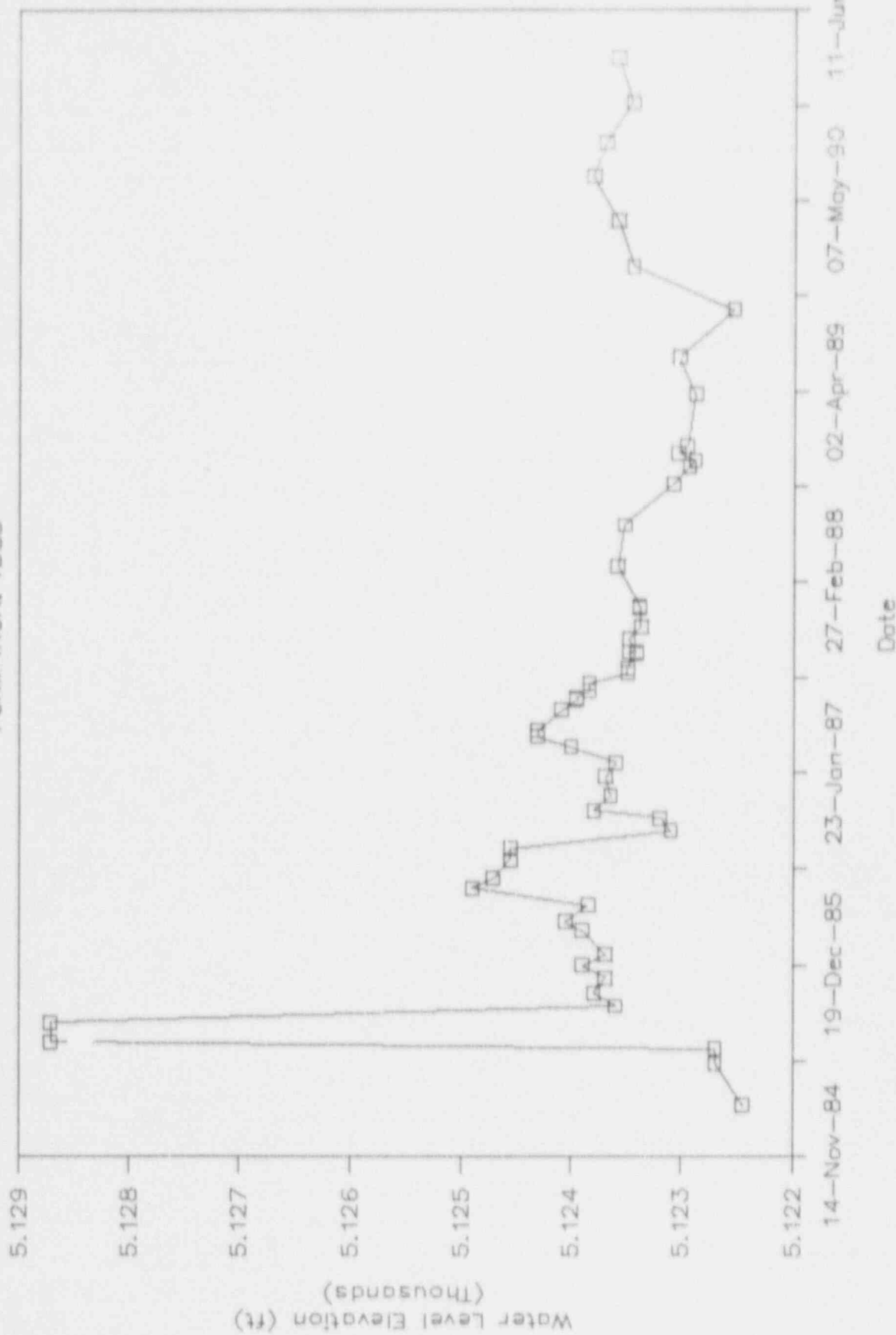
ID: 129 (TDM XXX (30))

FORMATION: 50SS



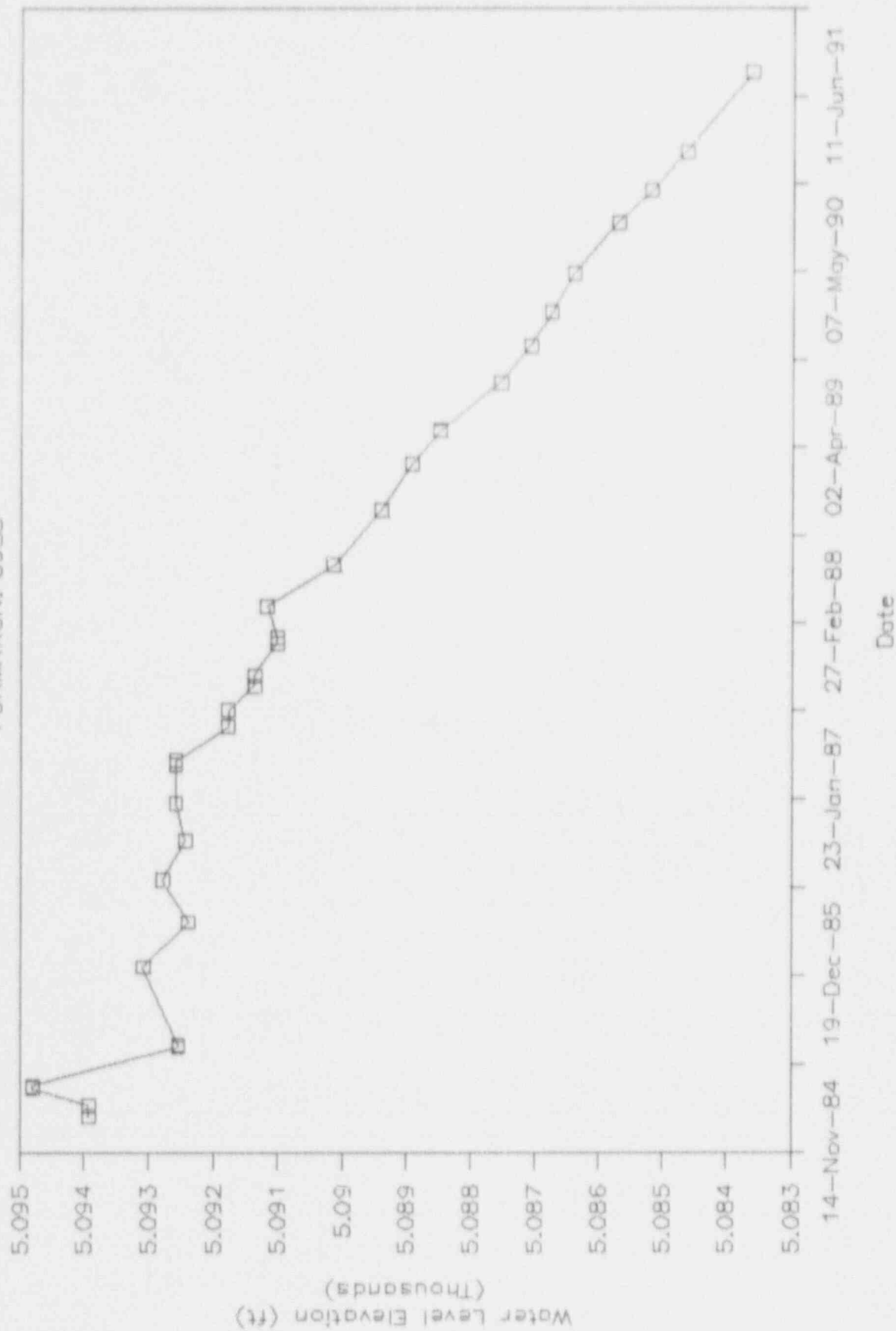
ID: 134 (RM-4) BACKGROUND

FORMATION: TDSS



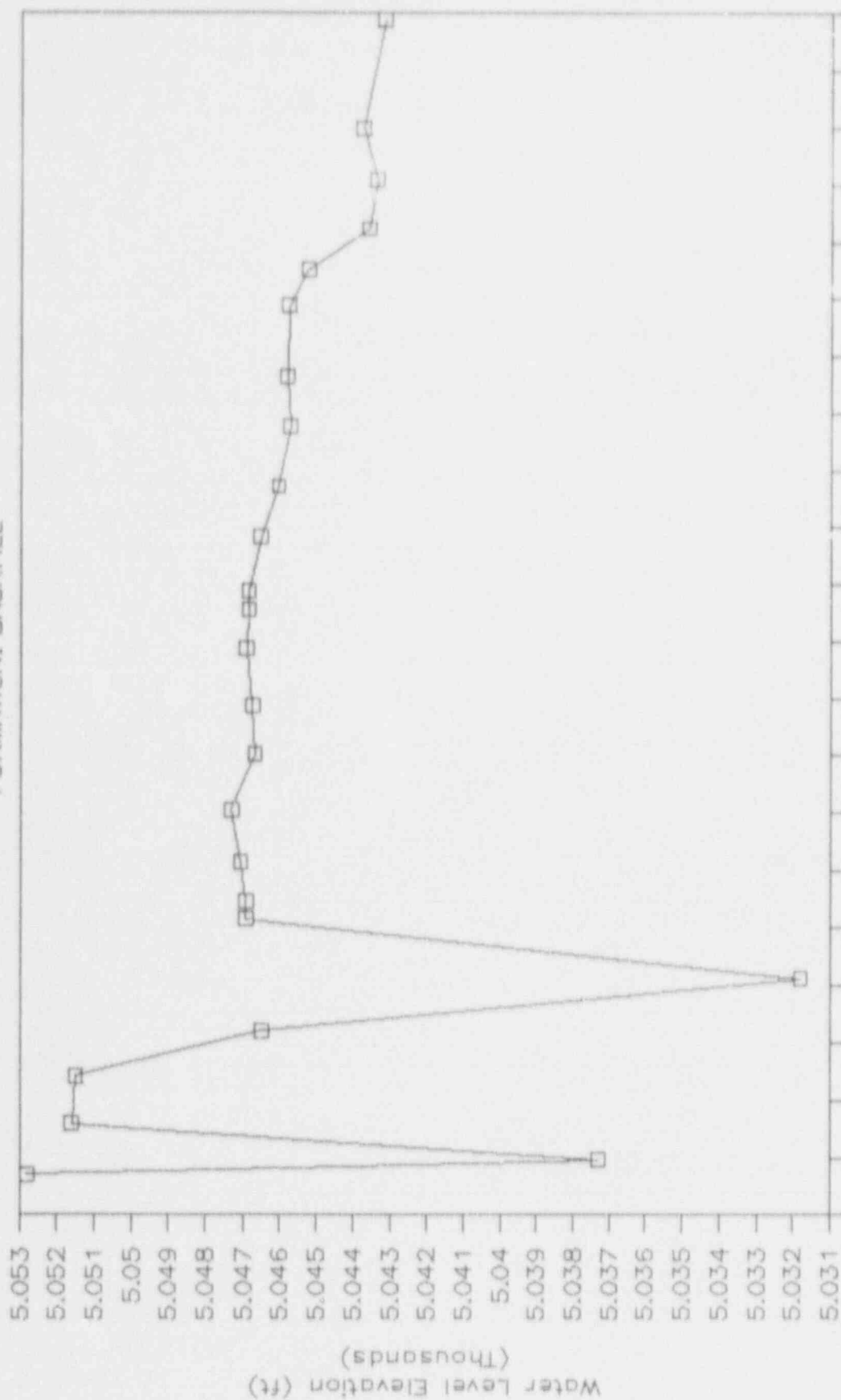
ID: 148 (TDM XXXII) (32))

FORMATION: 50SS



ID: 171 (TDM XXXVIII) (38))

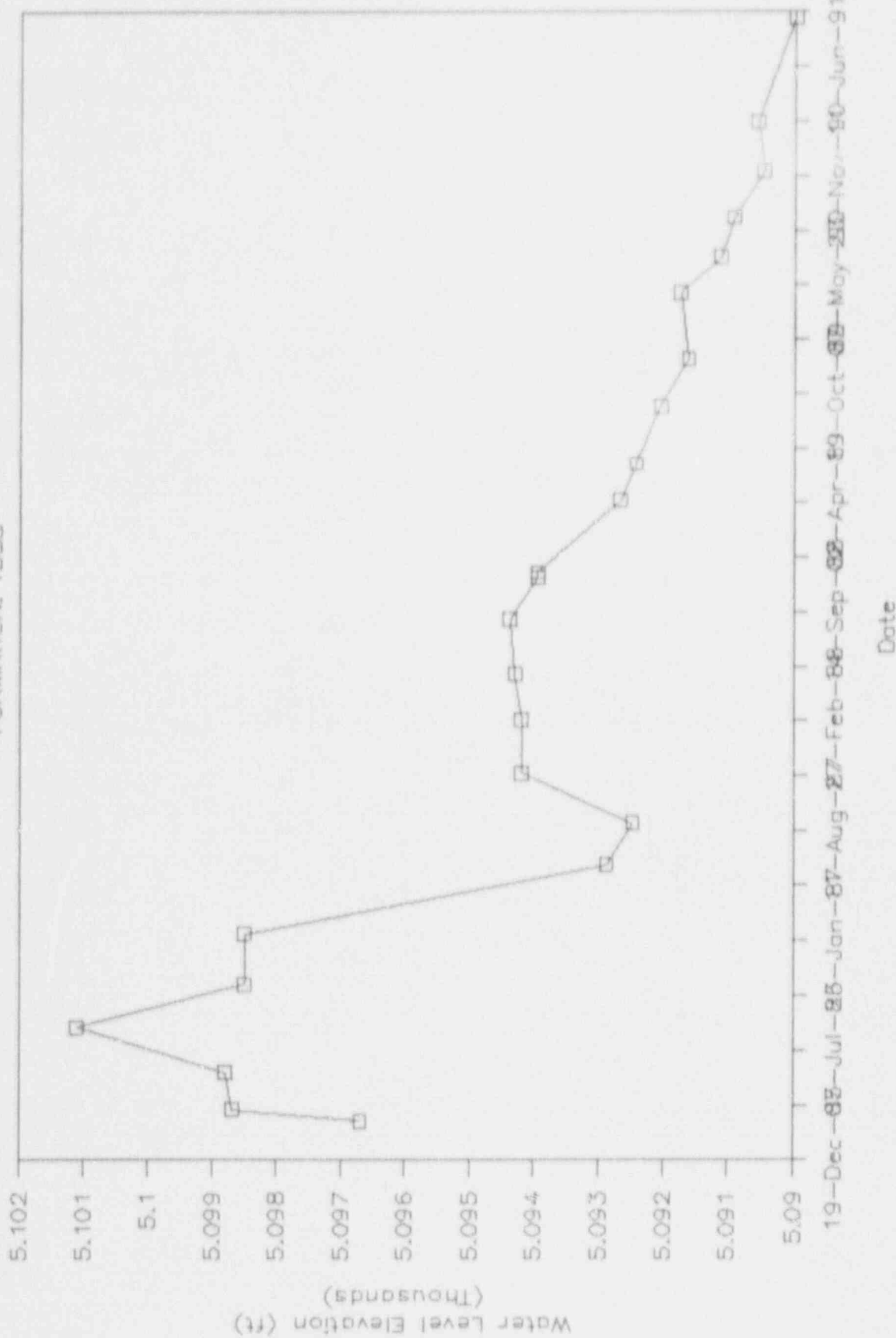
FORMATION: BACKFILL



Date

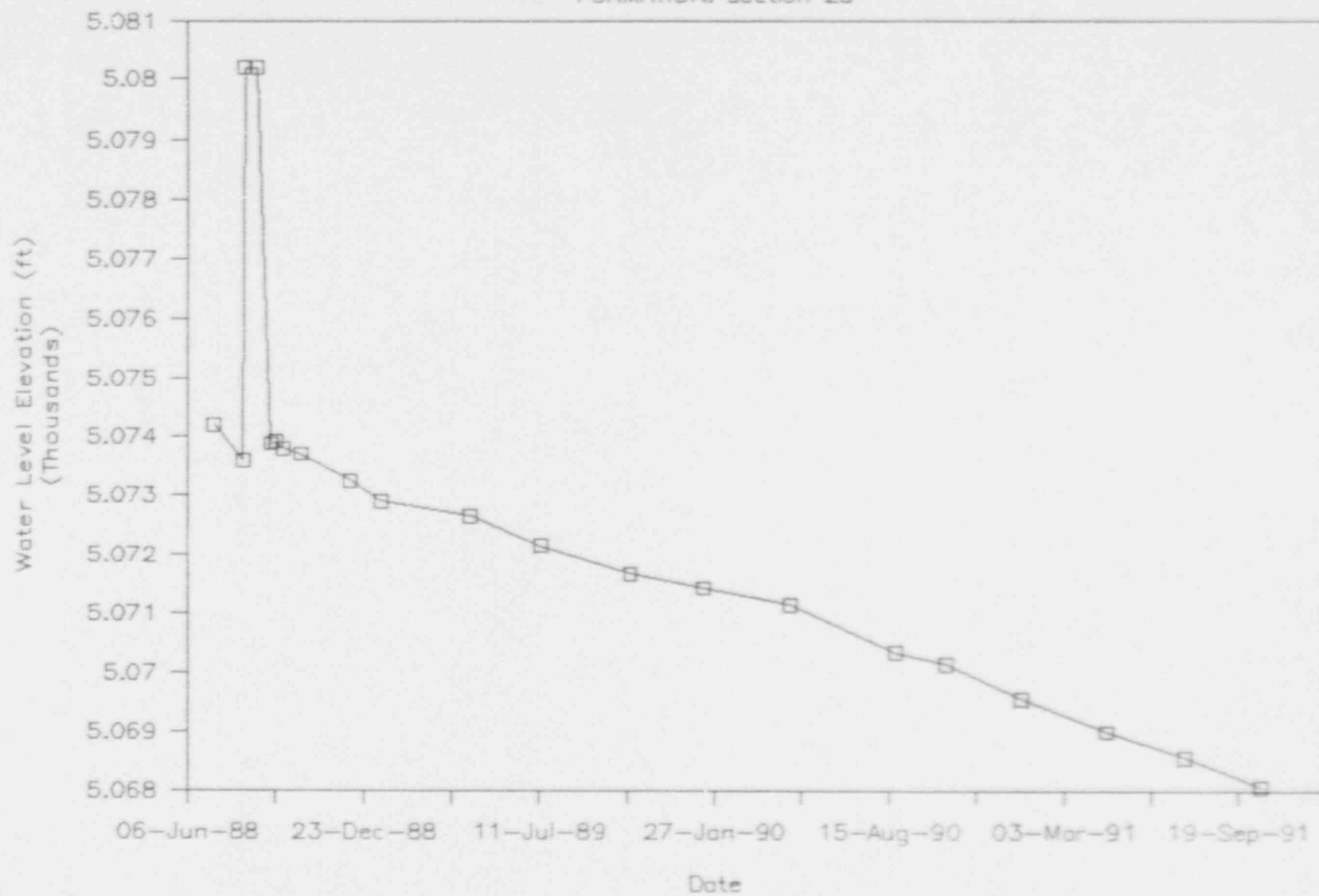
ID: 172 (SM - EM-5 drilled December 79)

FORMATION: TDSS



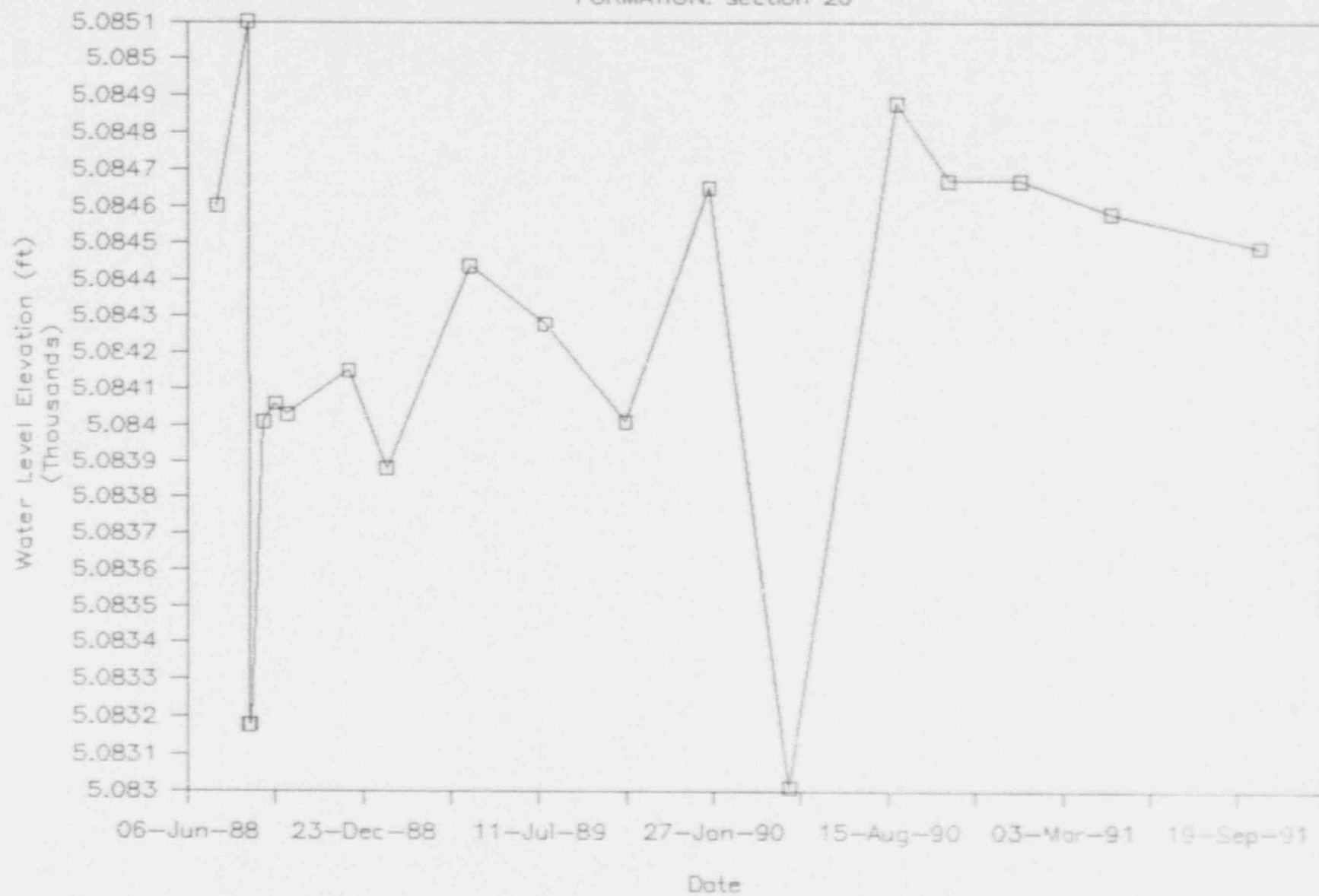
ID: 173 (TDM XXXIX)

FORMATION: section 28



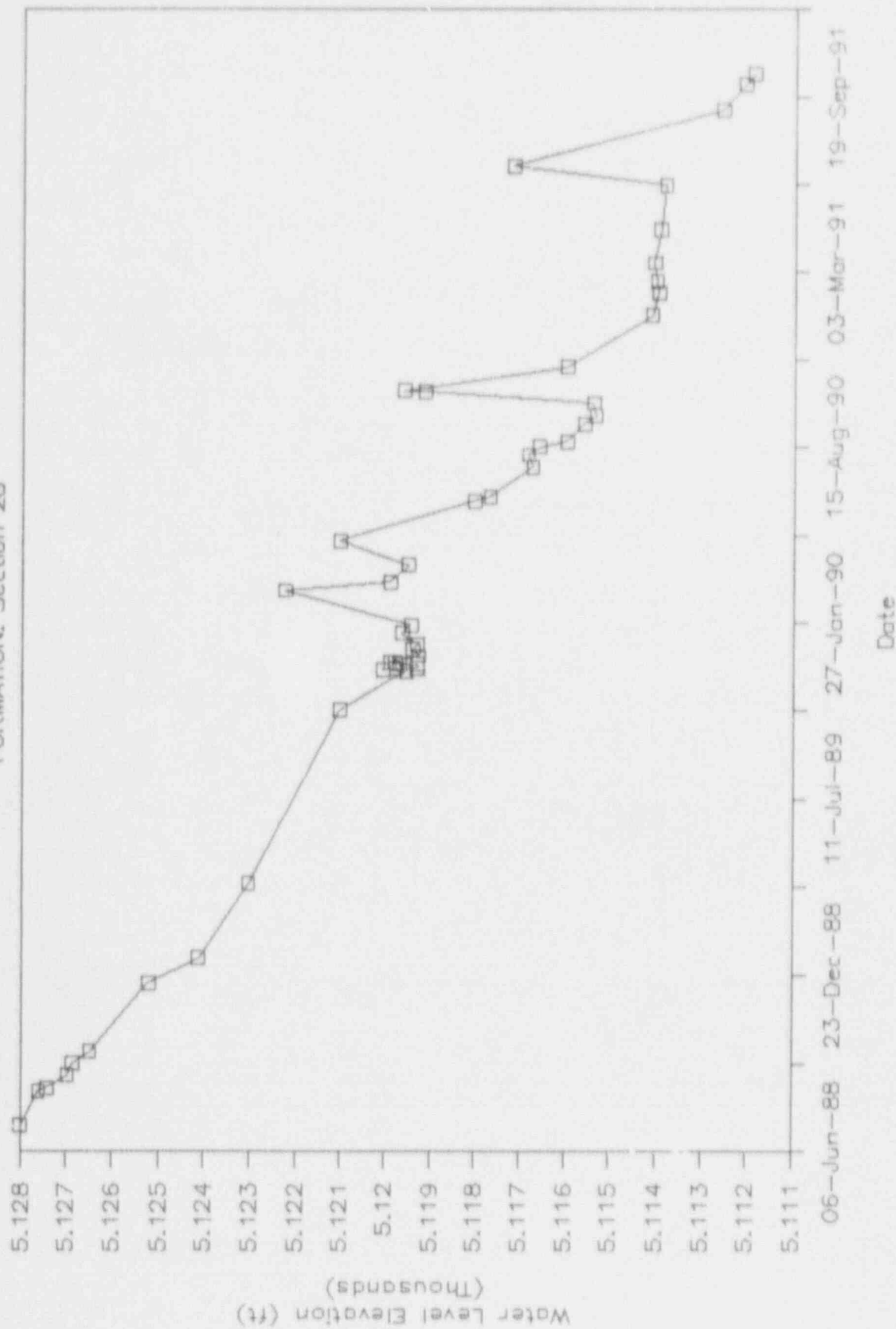
ID: 174 (TDMXL)

FORMATION: section 20



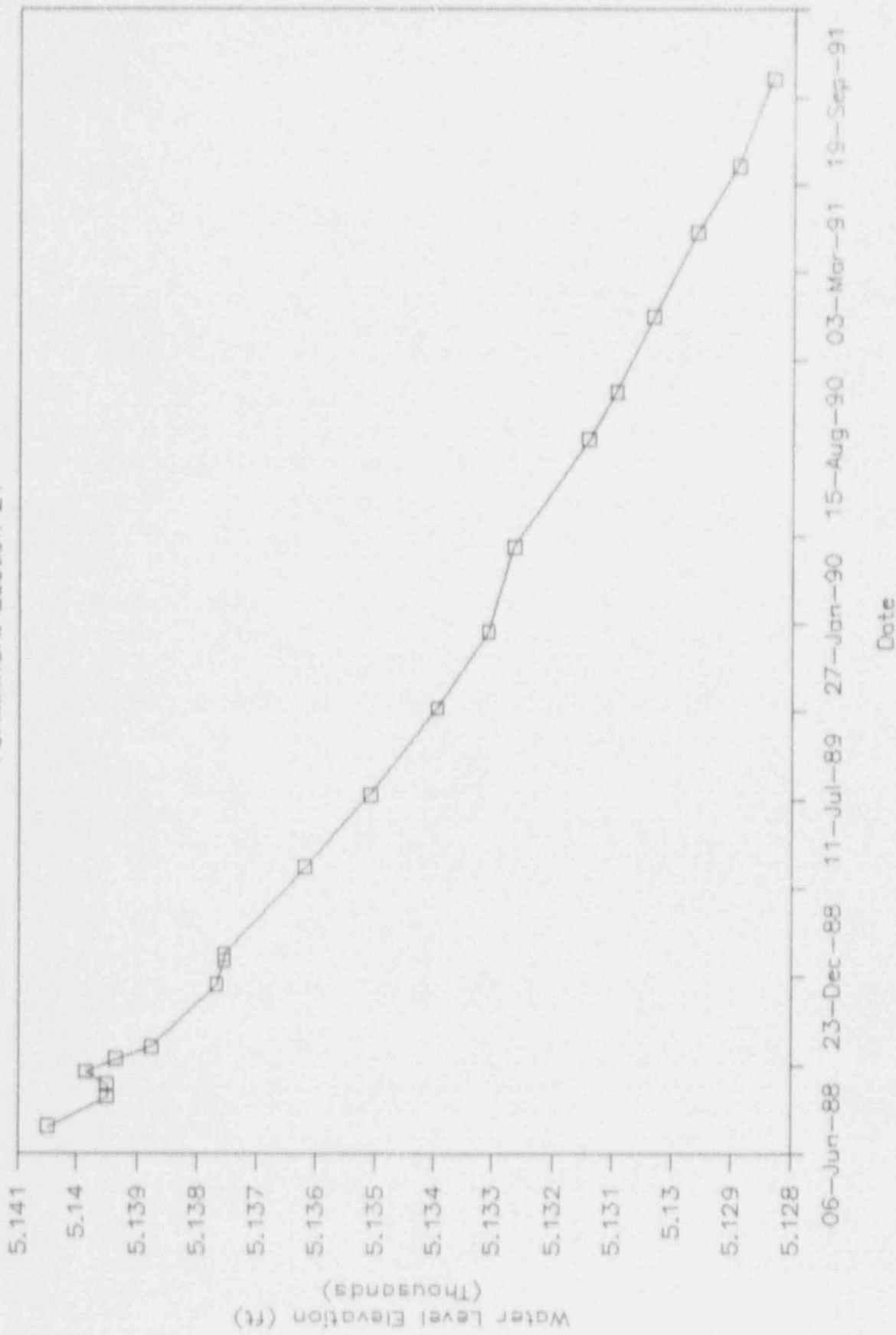
ID: 175 (TDM XLI)

FORMATION: Section 28



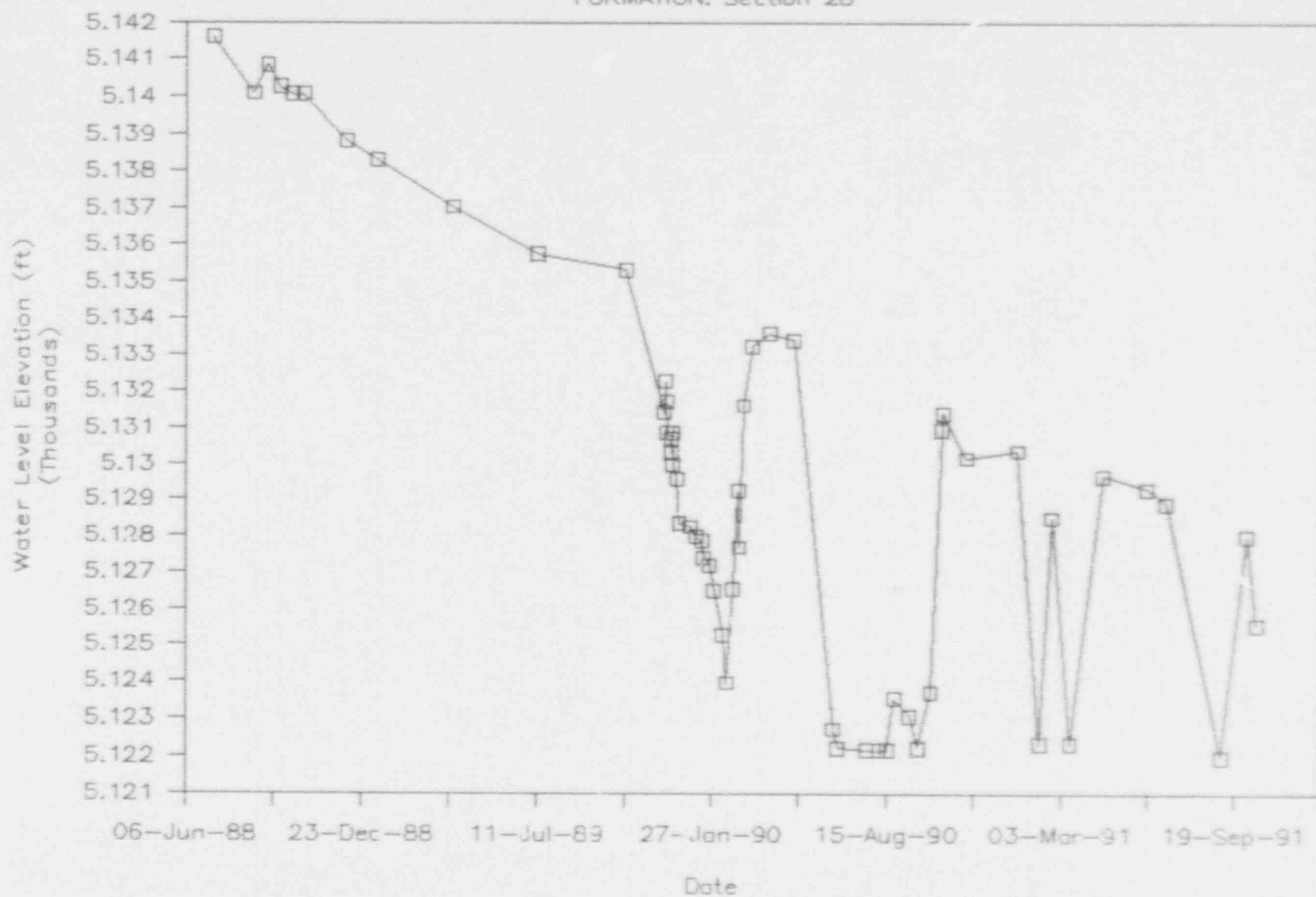
ID: 176 (TDM XLII)

FORMATION: Section 21



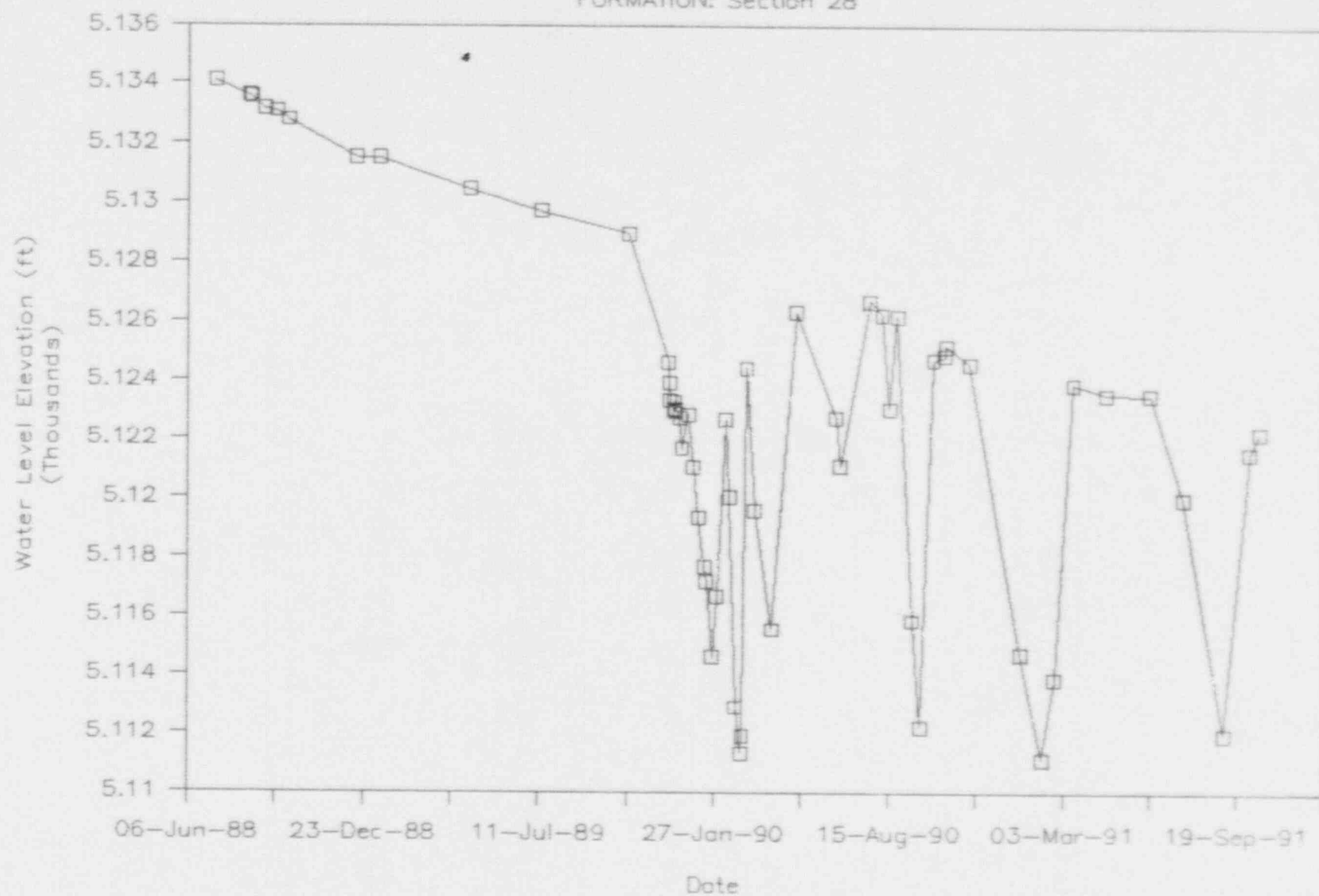
ID: 177 (TDM XLIII)

FORMATION: Section 28



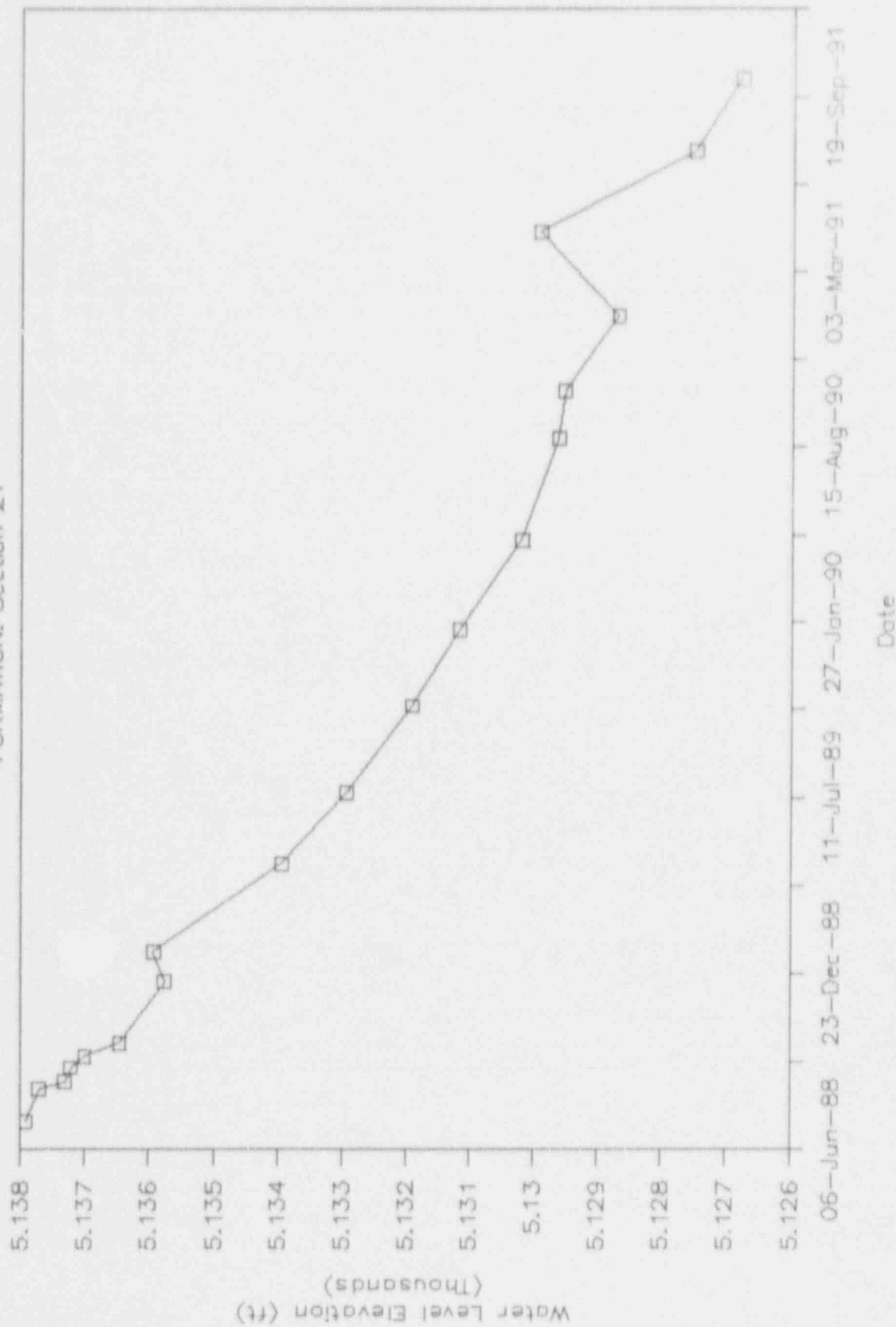
ID: 178 (TDM XLIV)

FORMATION: Section 28



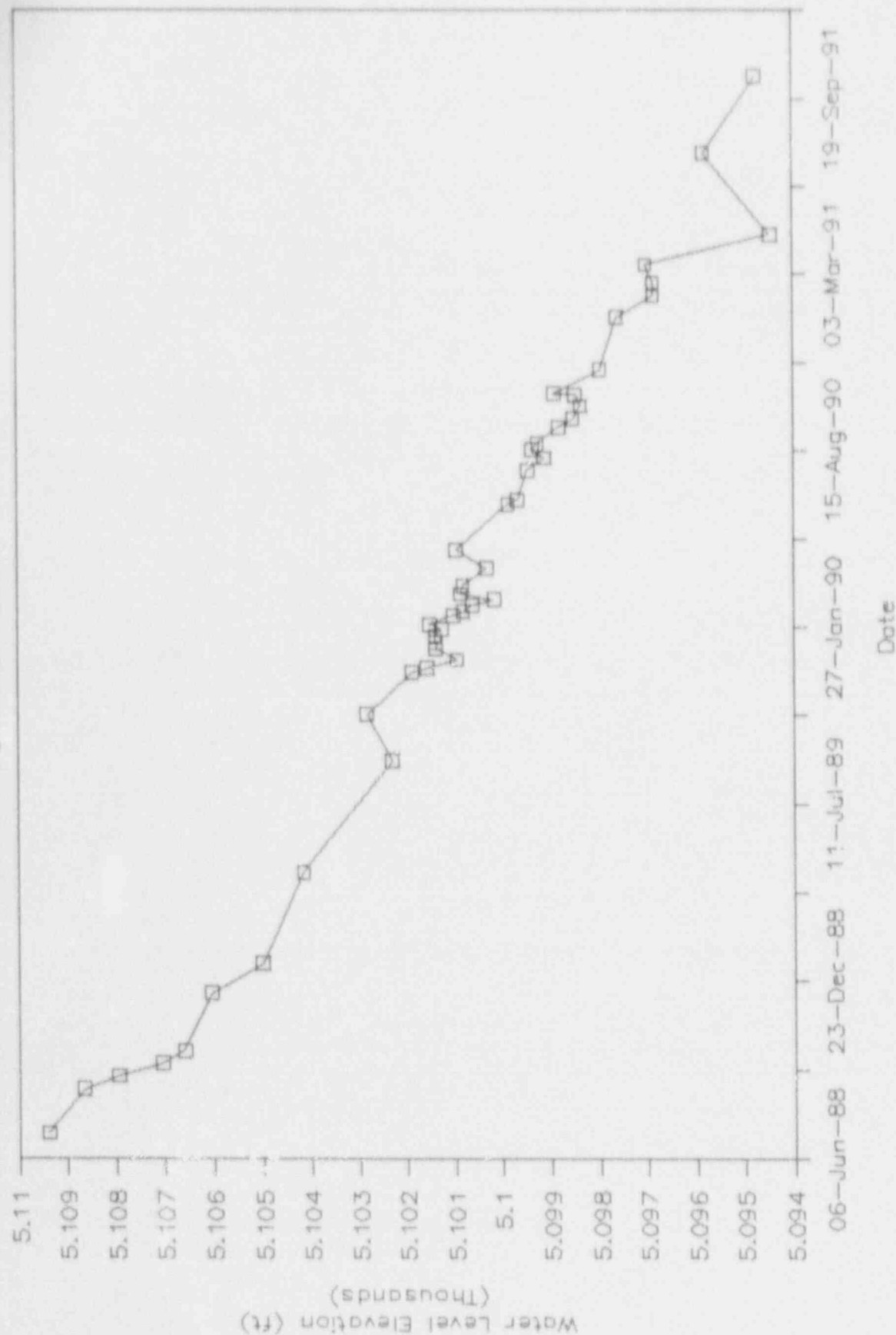
ID: 179 (TDM XLV)

FORMATION: Section 21



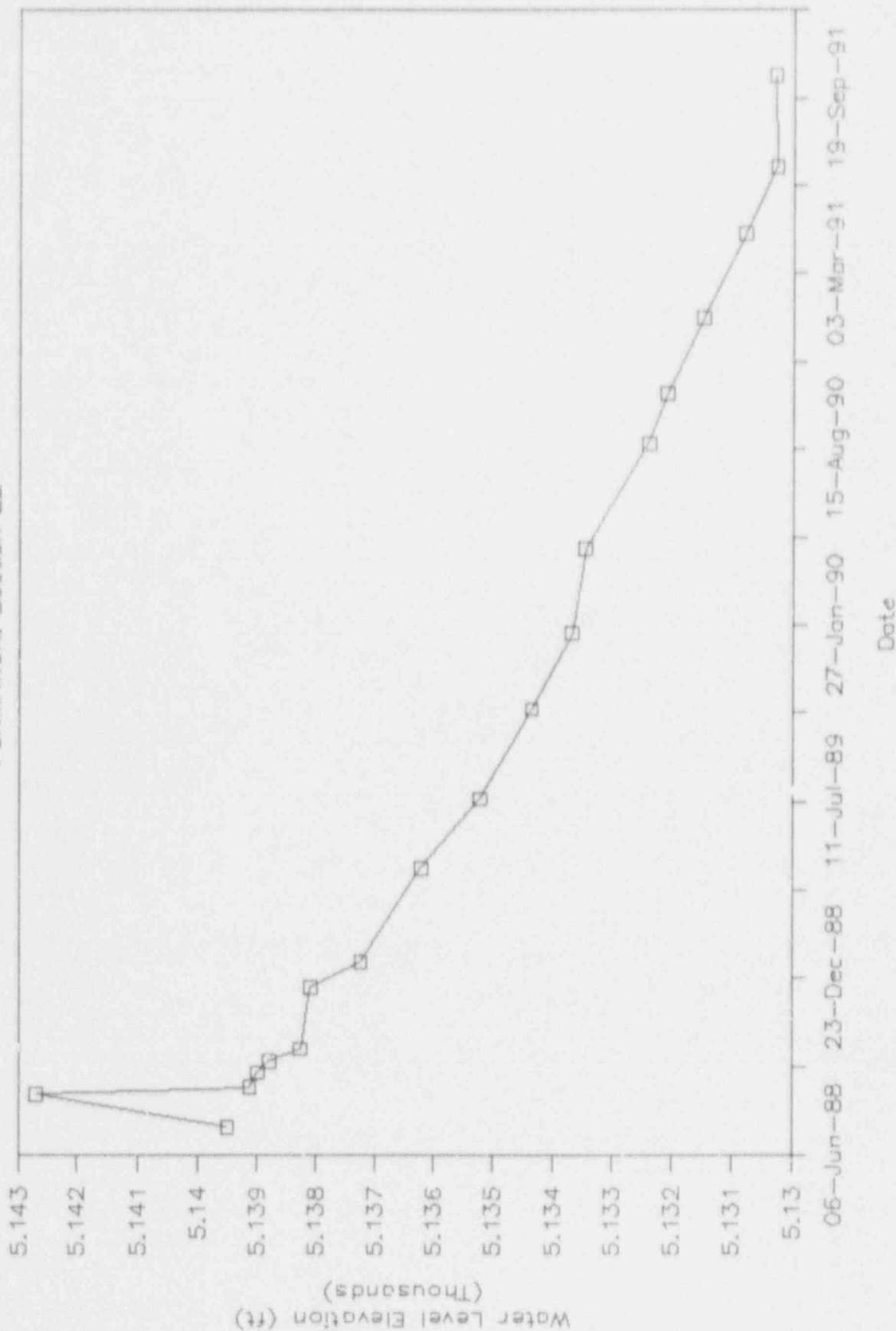
ID: 180 (TDM XLVI)

FORMATION: Section 28



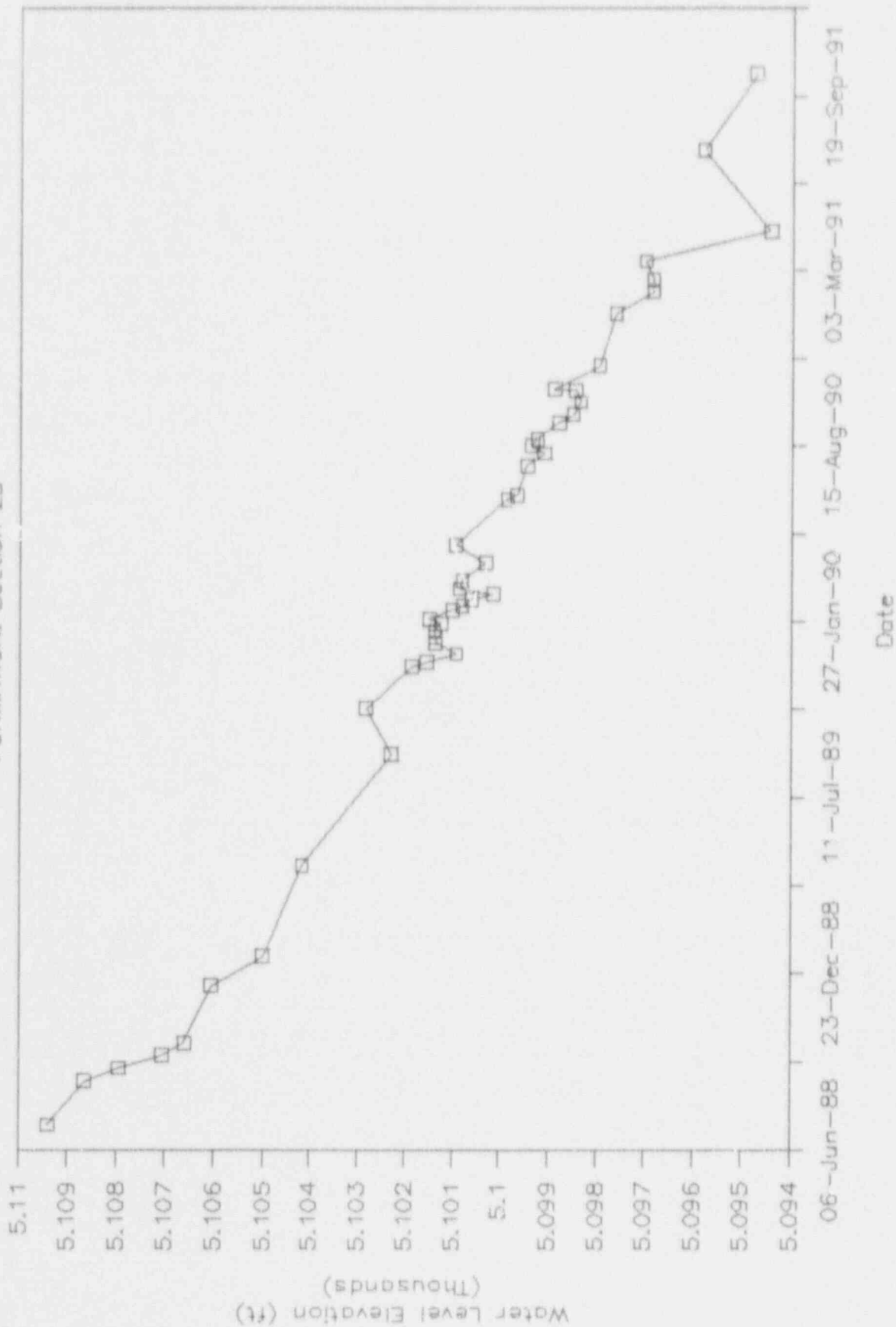
ID: 181 (TDM XLVII)

FORMATION: Section 22



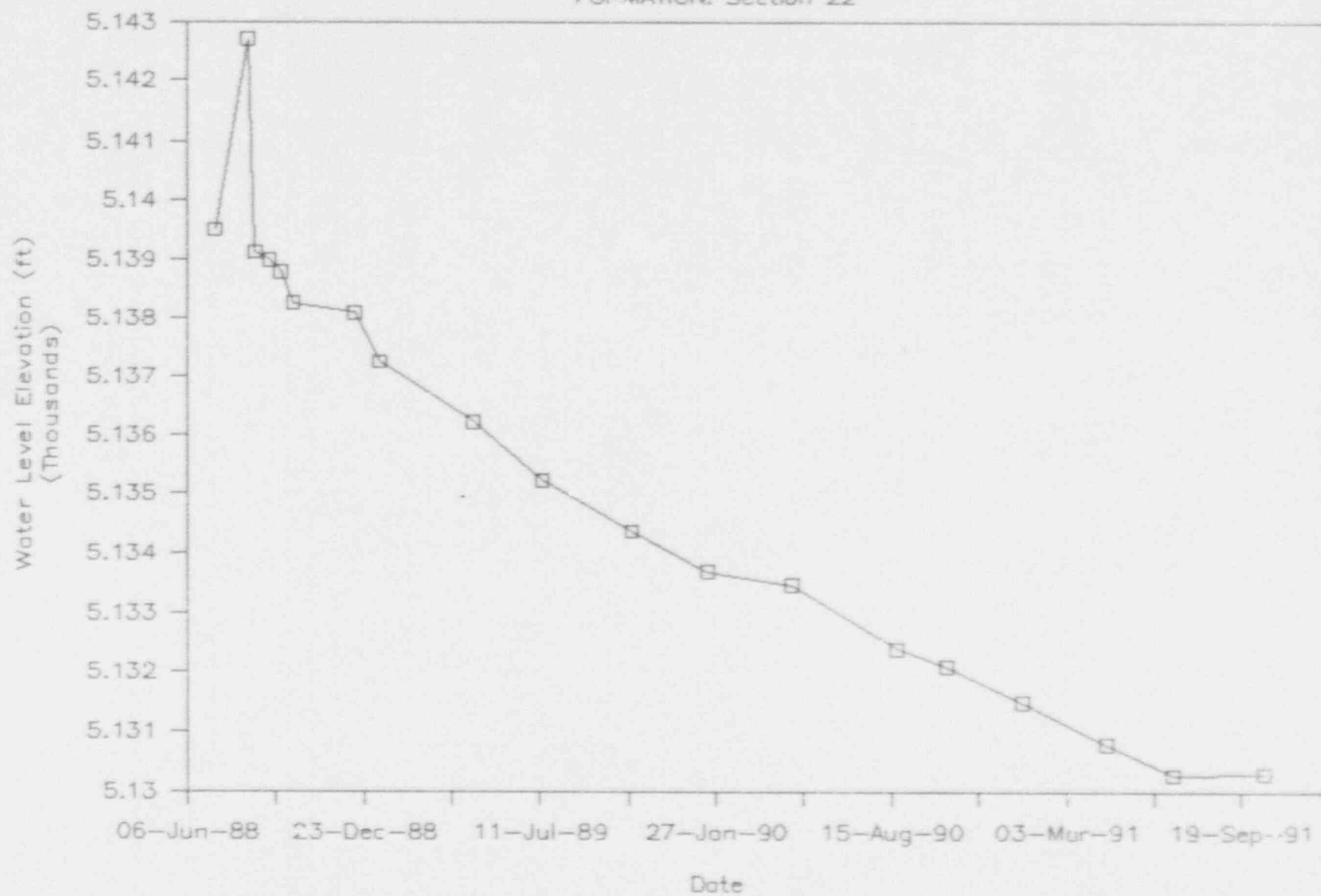
ID: 180 (TDM XLVI)

FORMATION: Section 2B



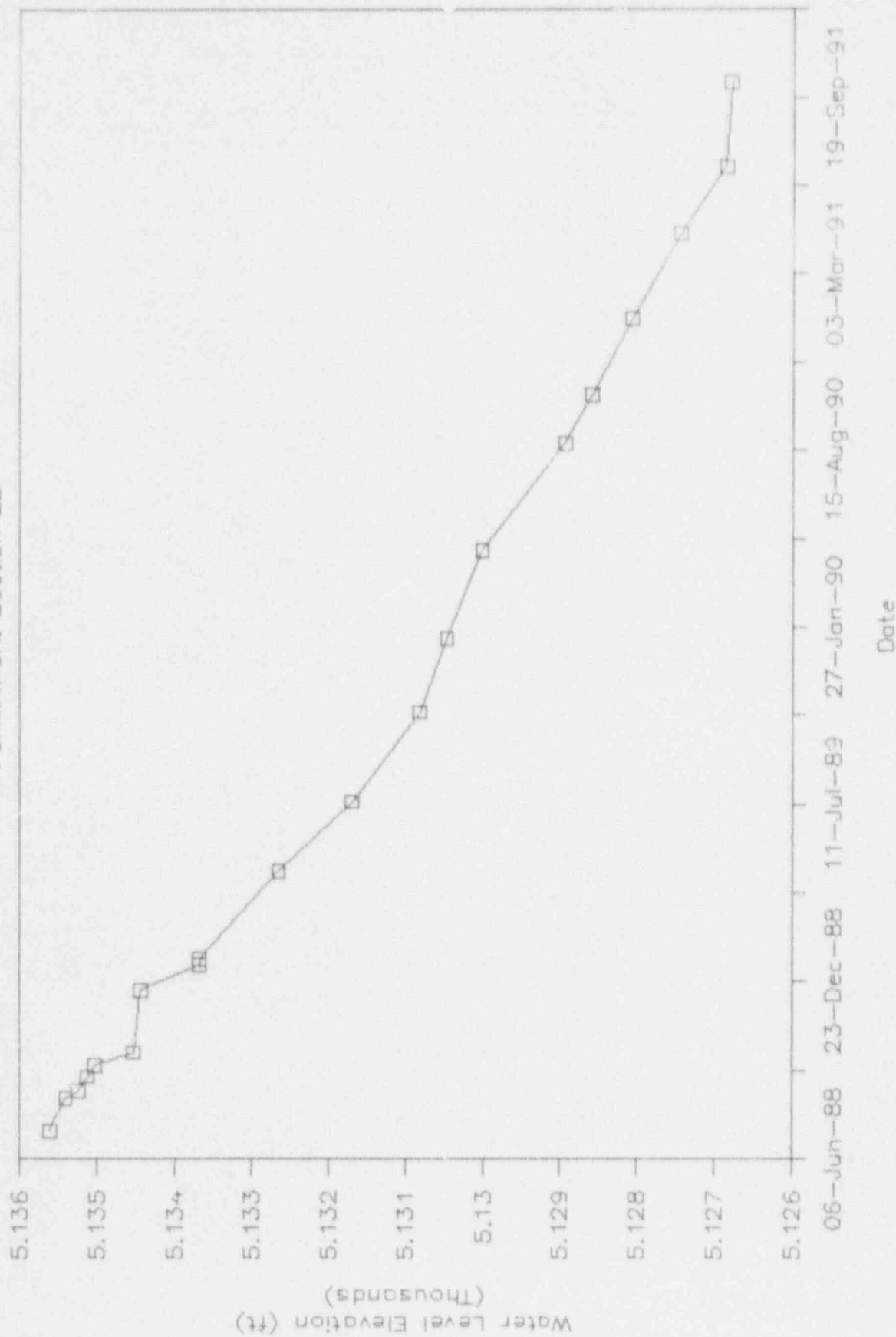
ID: 181 (TDM XLVII)

FORMATION: Section 22



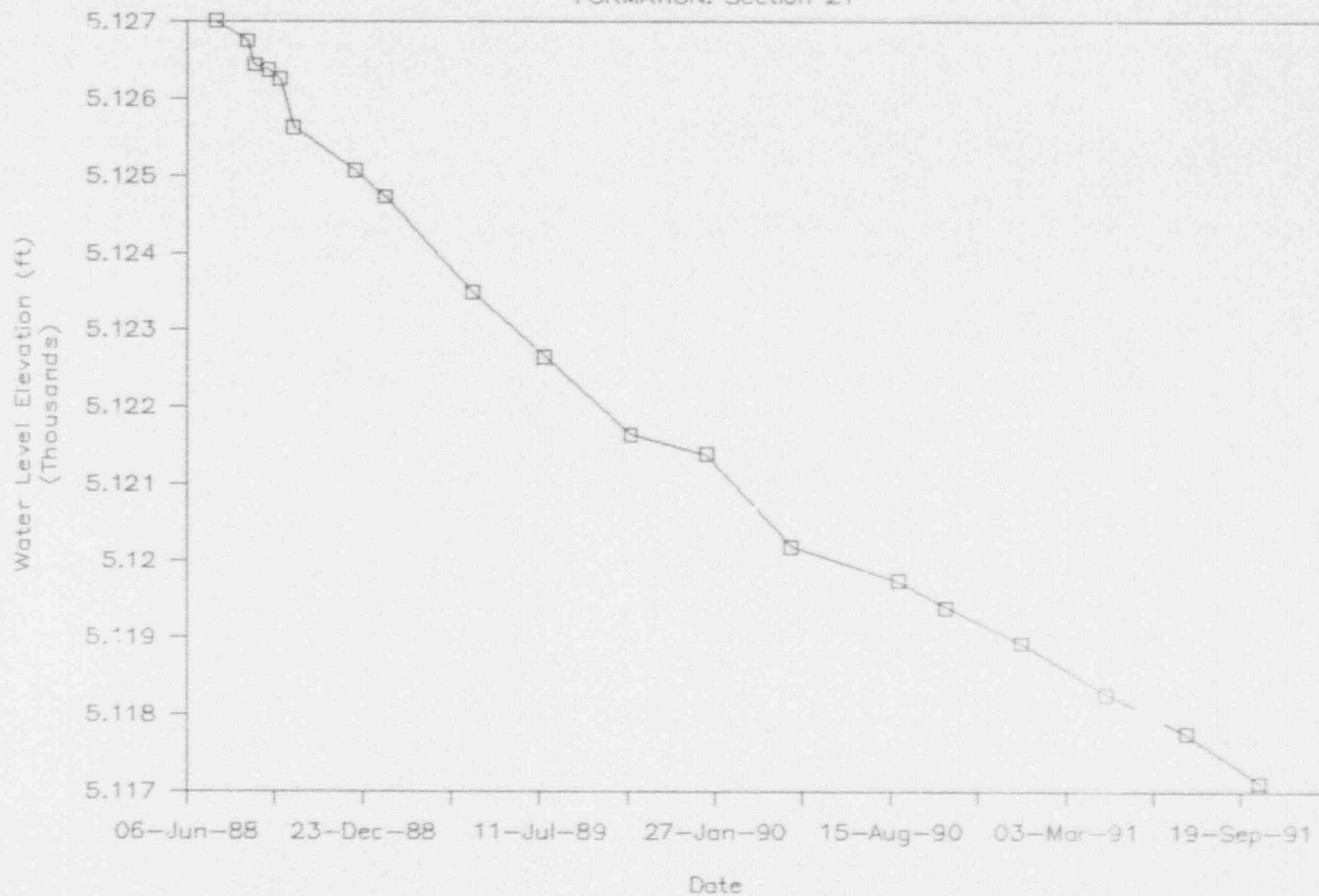
ID: 182 (TDM XLVIII)

FORMATION: Section 22



ID: 183 (TDM XLIX)

FORMATION: Section 21



ID: 167 (HIGHLAND LAKE SURFACE)

FORMATION: PIT 3-4 RESERVOIR

