11-3

Groundwater Well Sample Results

Updated 1/28/09

Jerry Johnson
Mike Milnor
Marty
Lee Grezak
Phil
RAM

2/19/09

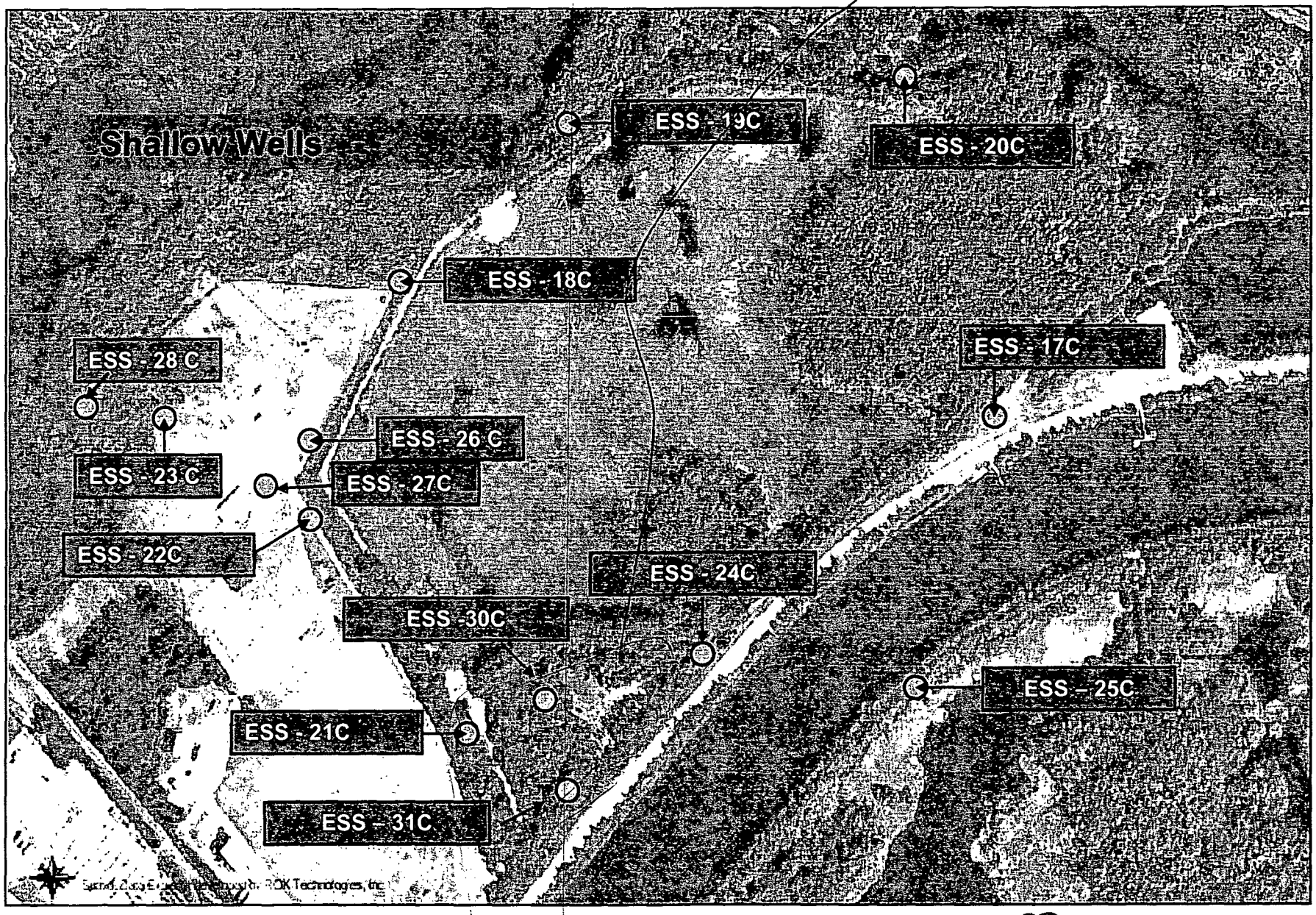
open Q's ⇒ Deep Well @ Location 19

⇒ Mitigation of Switchyard Contamination

Mitigation Late '09 / early '10

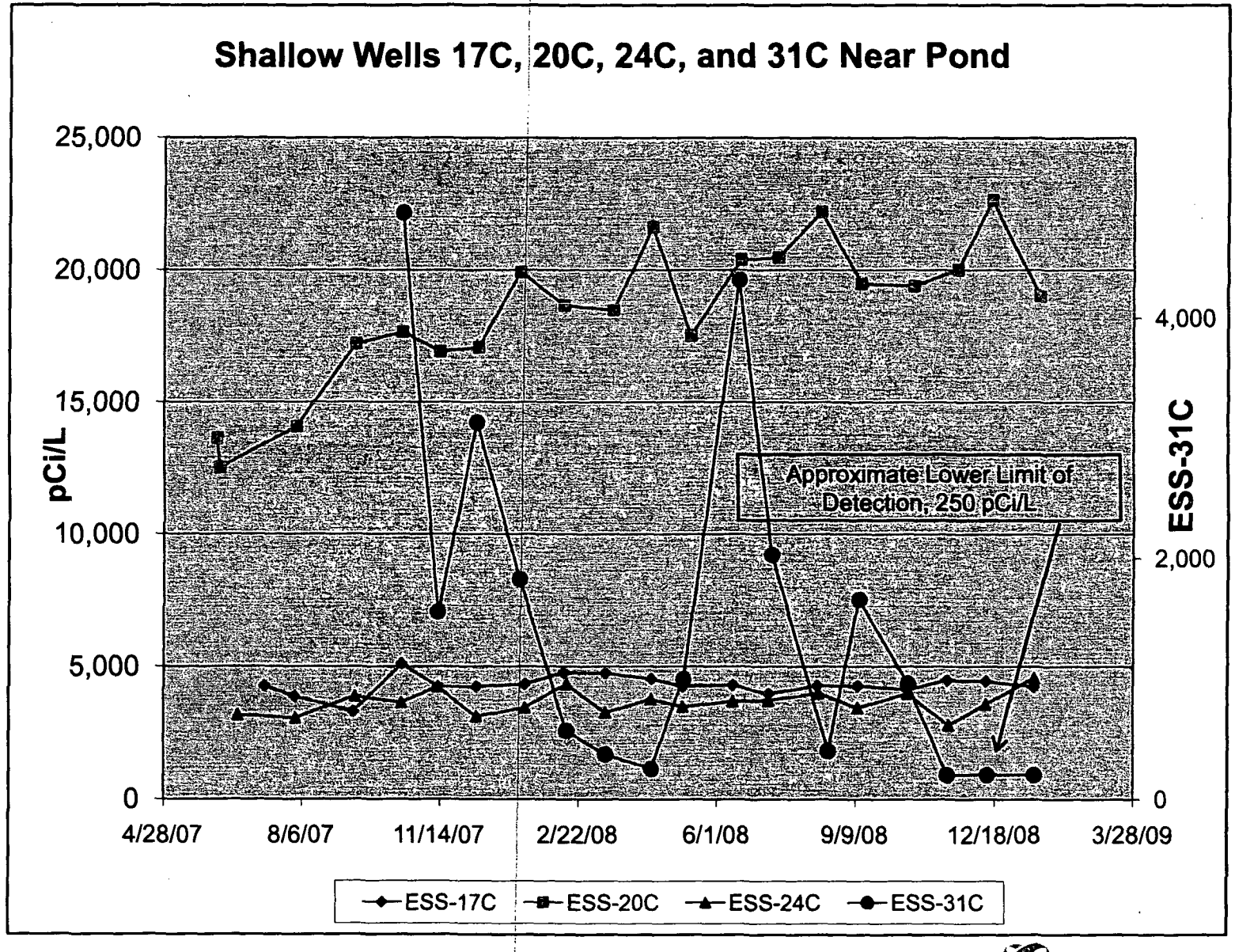
Next call May 2009
≈

Progress Energy



2 Groundwater Well Sample Results

Progress Energy



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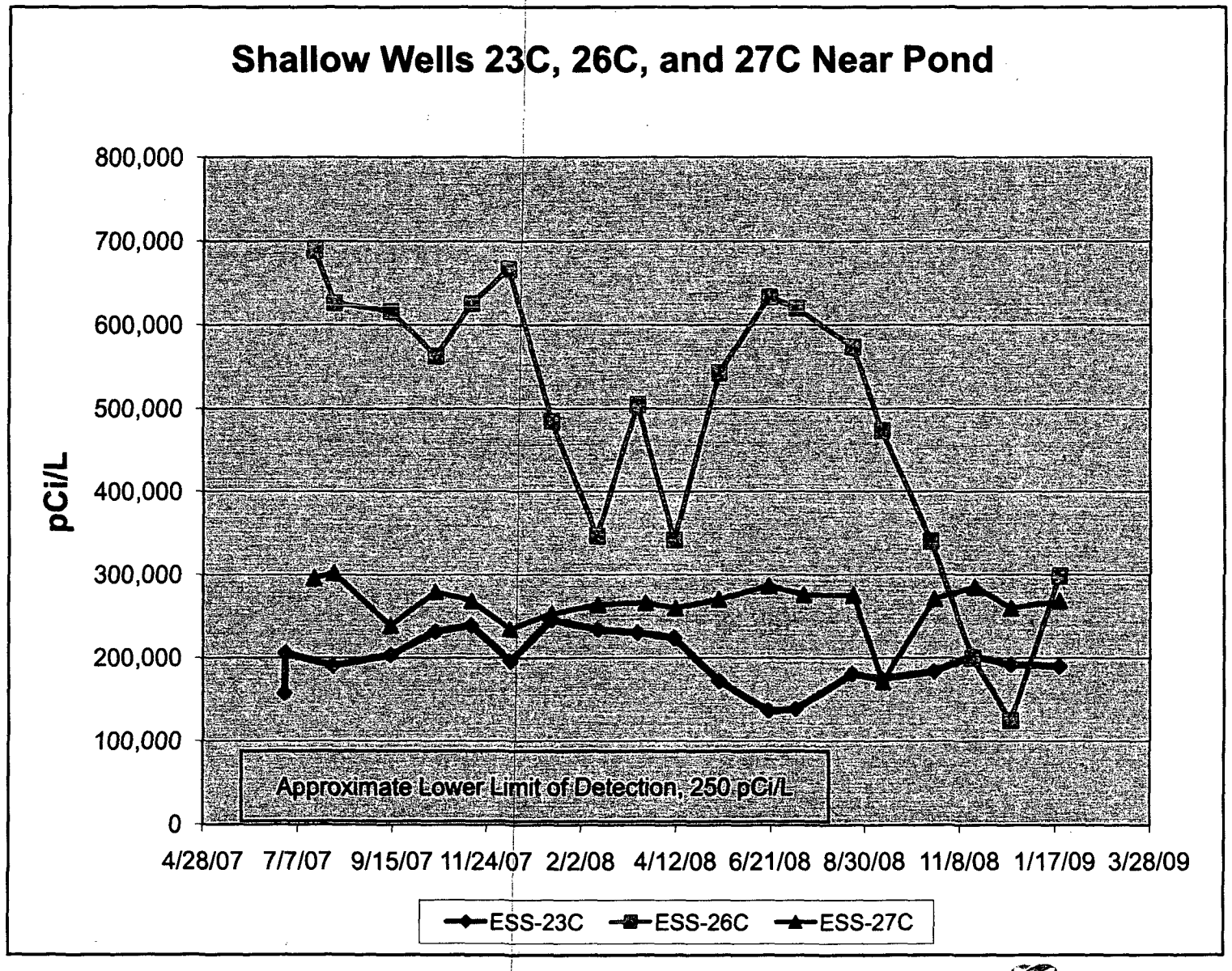

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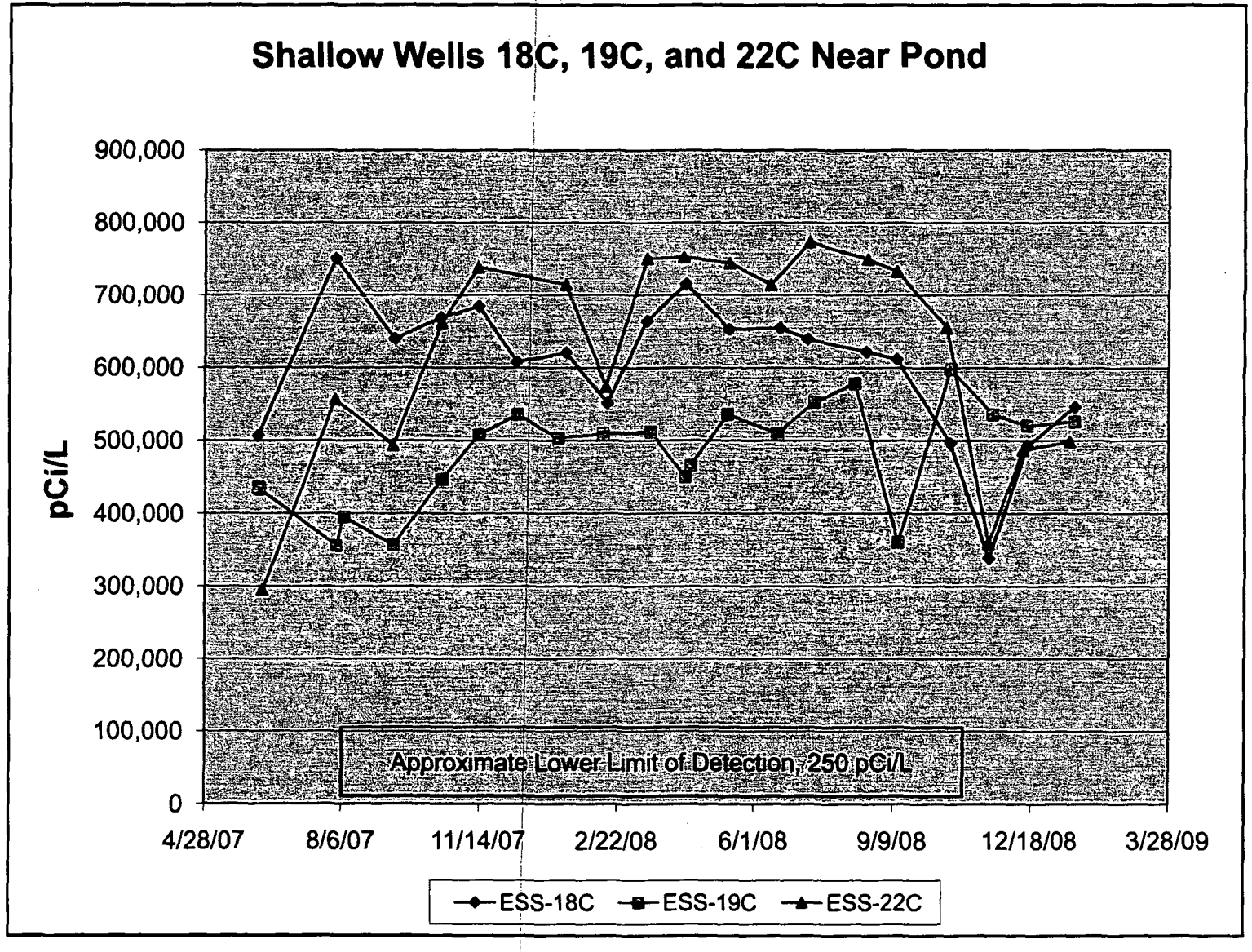

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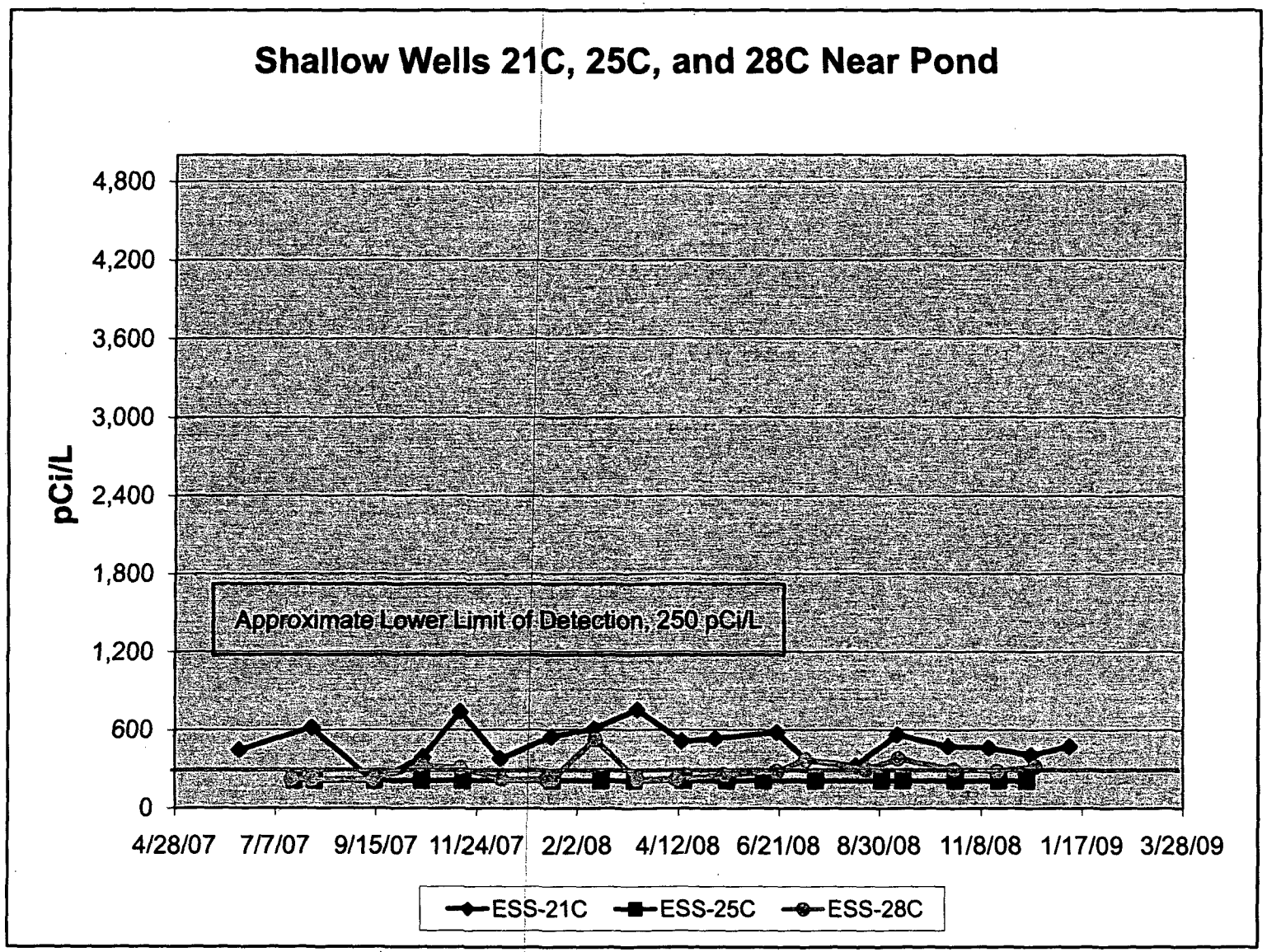

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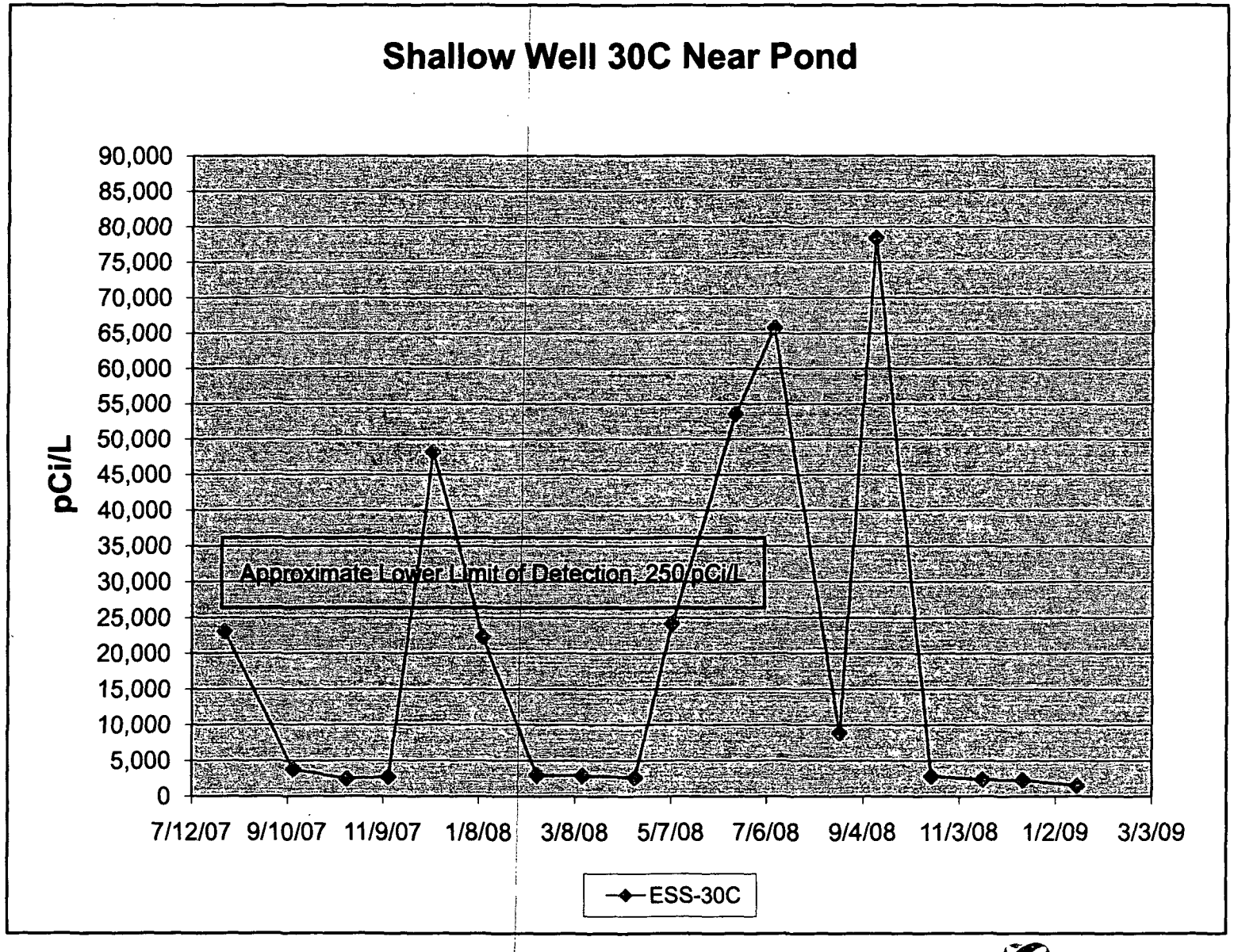
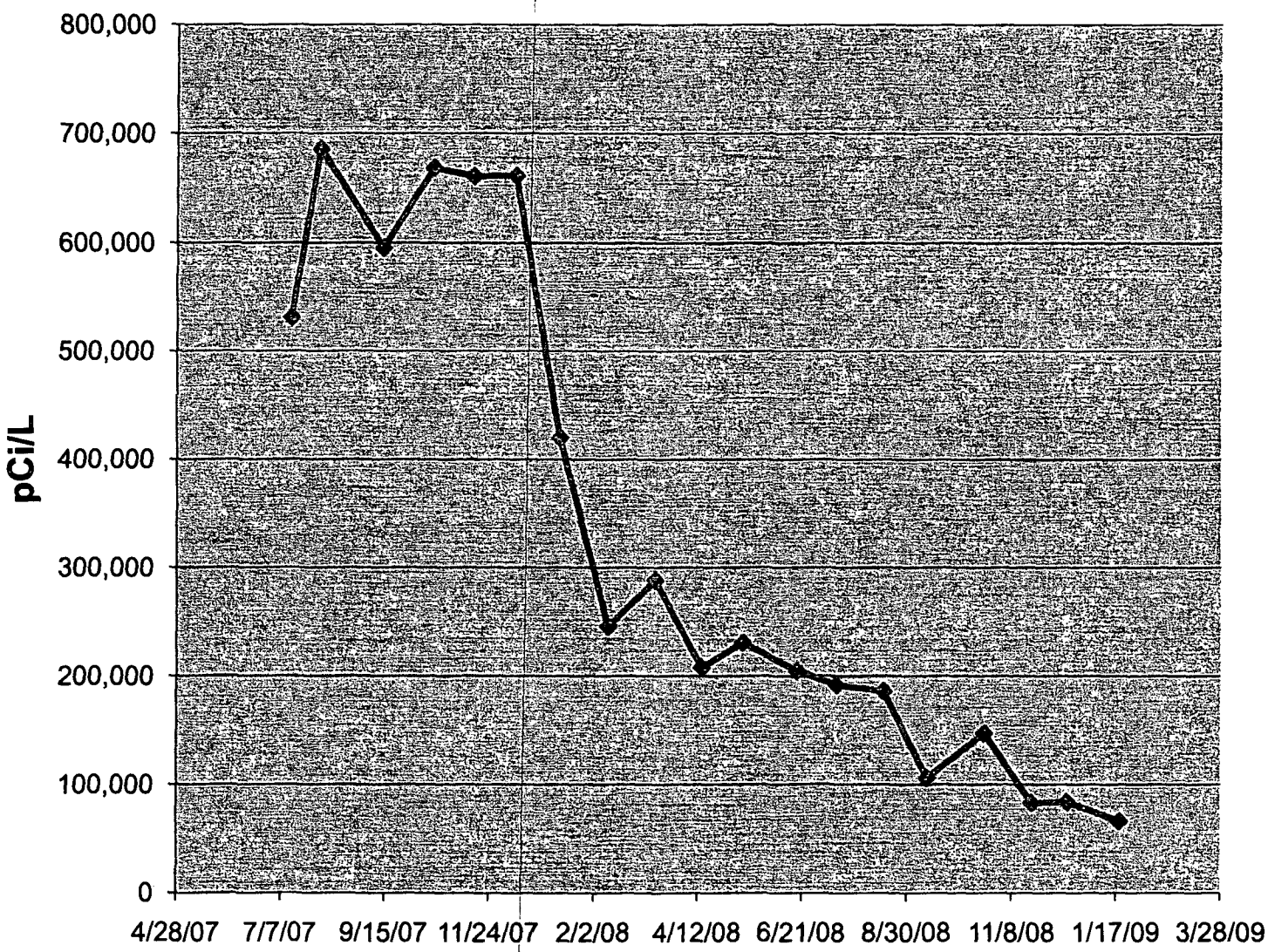


Progress Energy

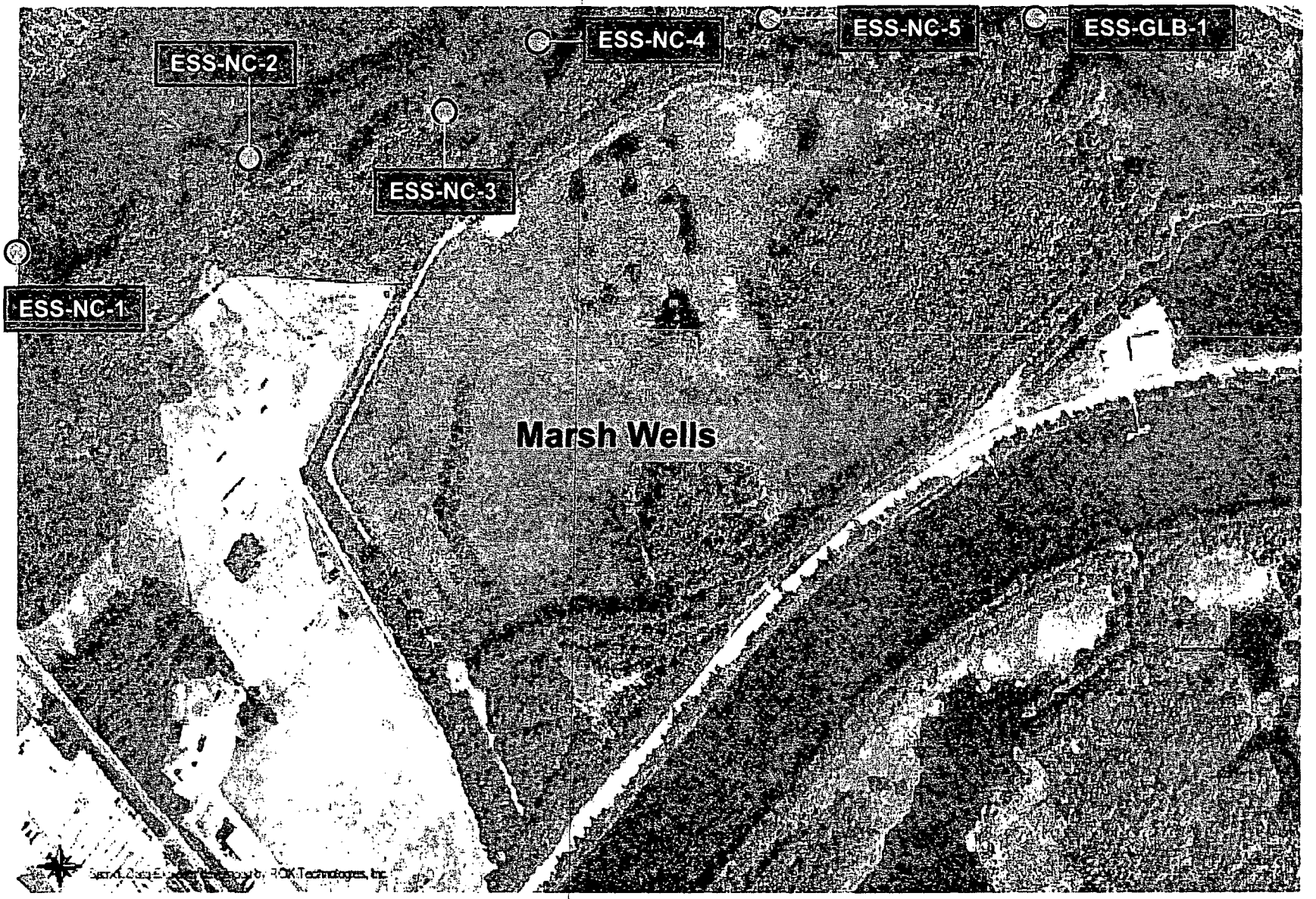
Well ESS-STAB Inside Pond



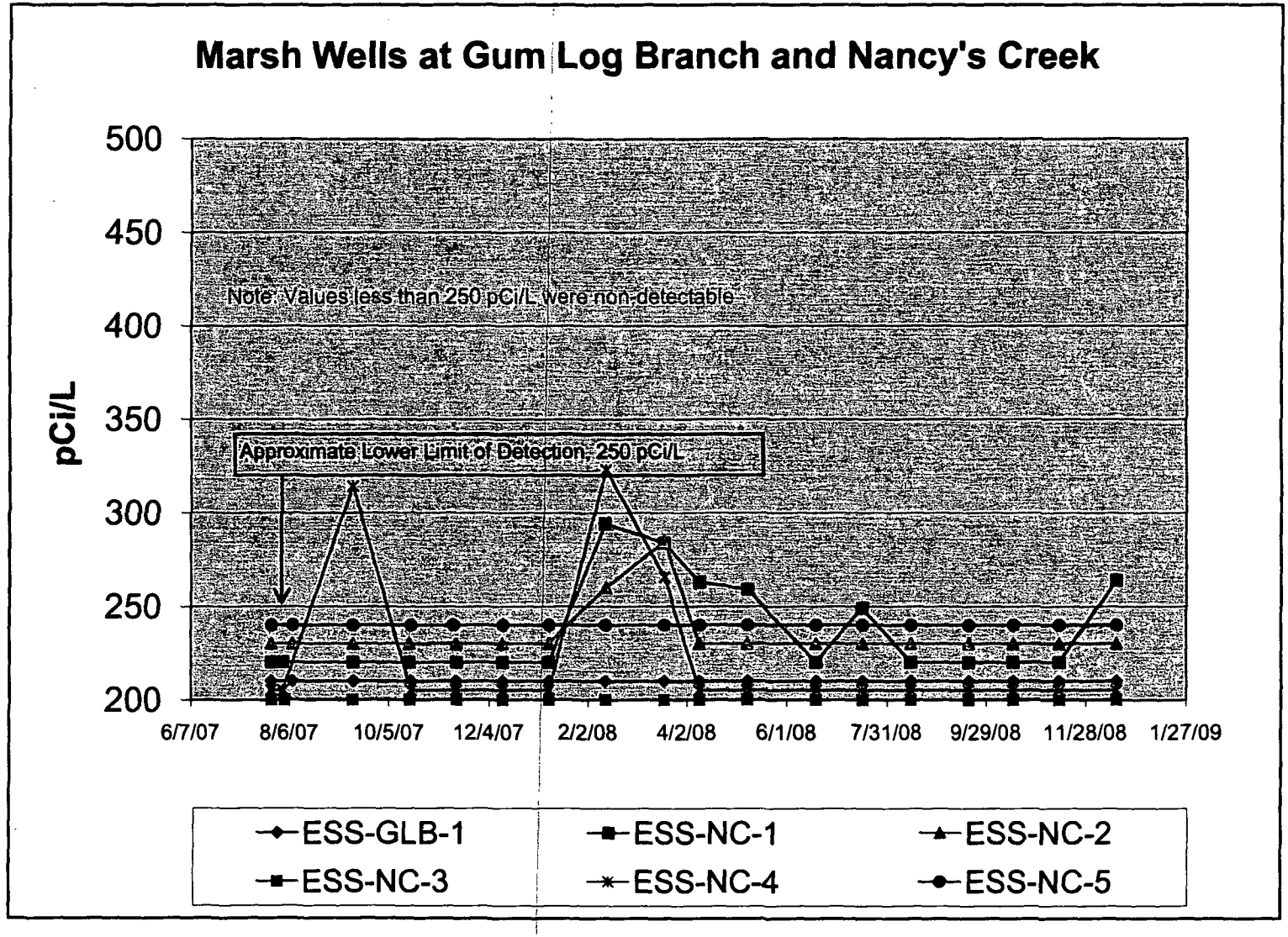
Progress Energy

Latest Shallow Well Data

Well	Well Depth (ft)	Sample Date	Sample Results (pCi/L)
ESS-17C	26	1/15/09	4,240
ESS-18C	20	1/19/09	546,400
ESS-19C	20	1/19/09	525,500
ESS-20C	20.5	1/19/09	19,000
ESS-21C	20	1/8/09	474
ESS-22C	20	1/15/09	498,400
ESS-23C	23	1/20/09	190,400
ESS-24C	18	1/15/09	4,571
ESS-25C	22	1/22/09	<LLD
ESS-26C	15	1/20/09	298,300
ESS-27C	15.5	1/20/09	268,600
ESS-28C	23	1/20/09	309
ESS-30C	15	1/15/09	1,473
ESS-31C	15	1/15/09	<LLD
ESS-STAB	31	1/19/09	65,777



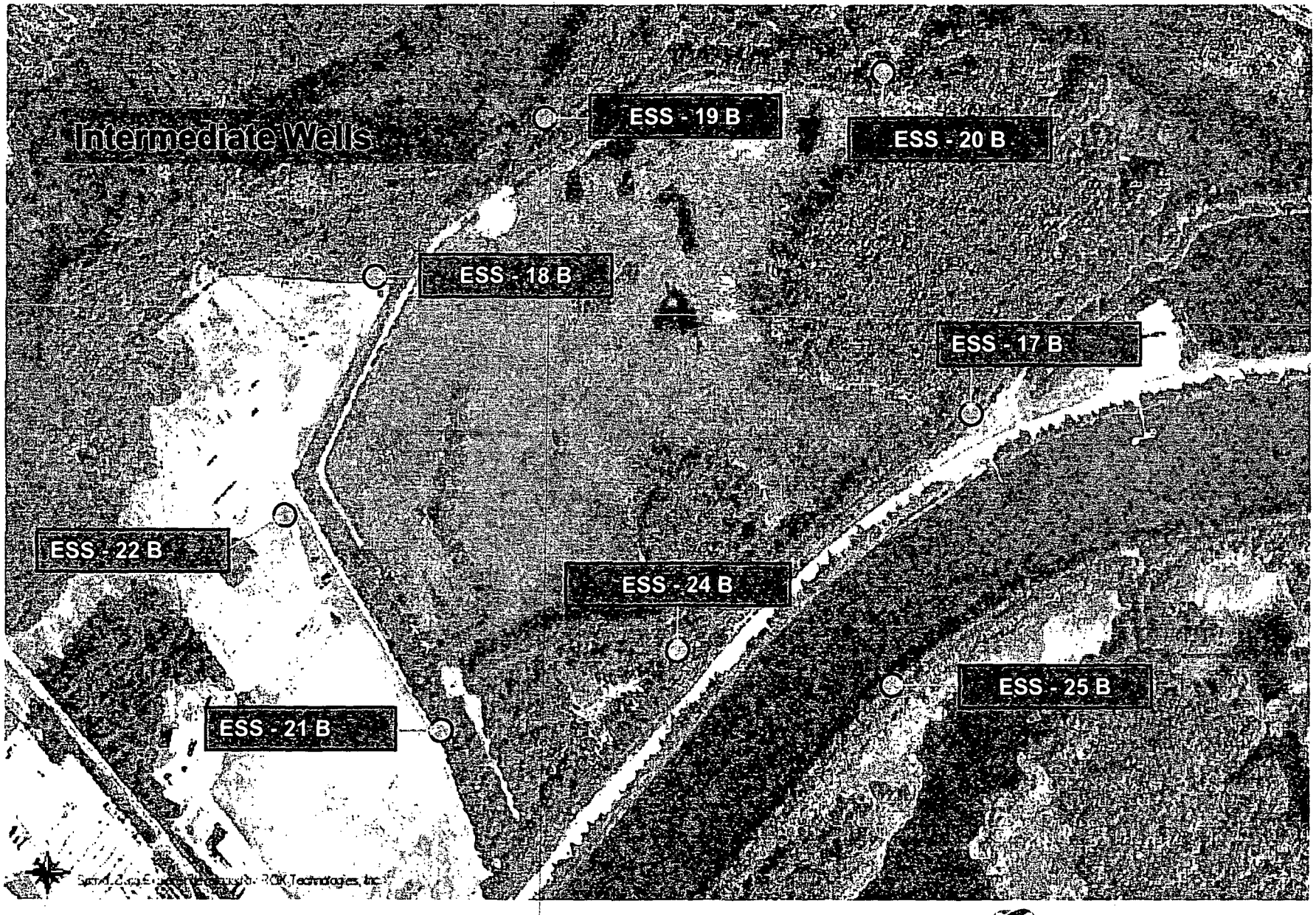
Progress Energy



Progress Energy

Latest Marsh Well Data

Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-NC-1	7.5	12/16/09	<LLD
ESS-NC-2	8	12/16/09	<LLD
ESS-NC-3	8	12/16/09	<LLD
ESS-NC-4	8	12/16/09	<LLD
ESS-NC-5	8	12/16/09	<LLD
ESS-GLB-1	8	12/16/09	<LLD



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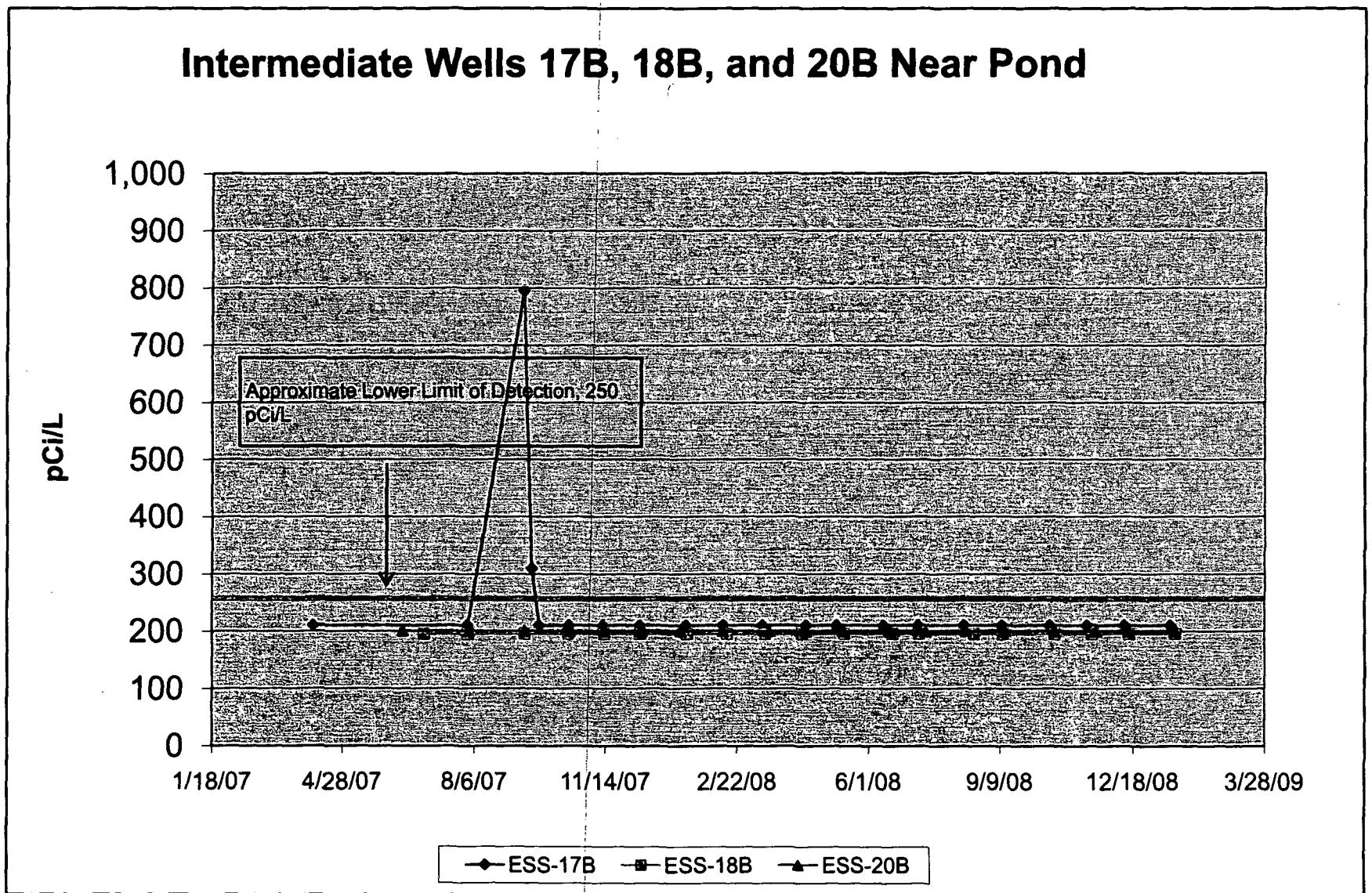
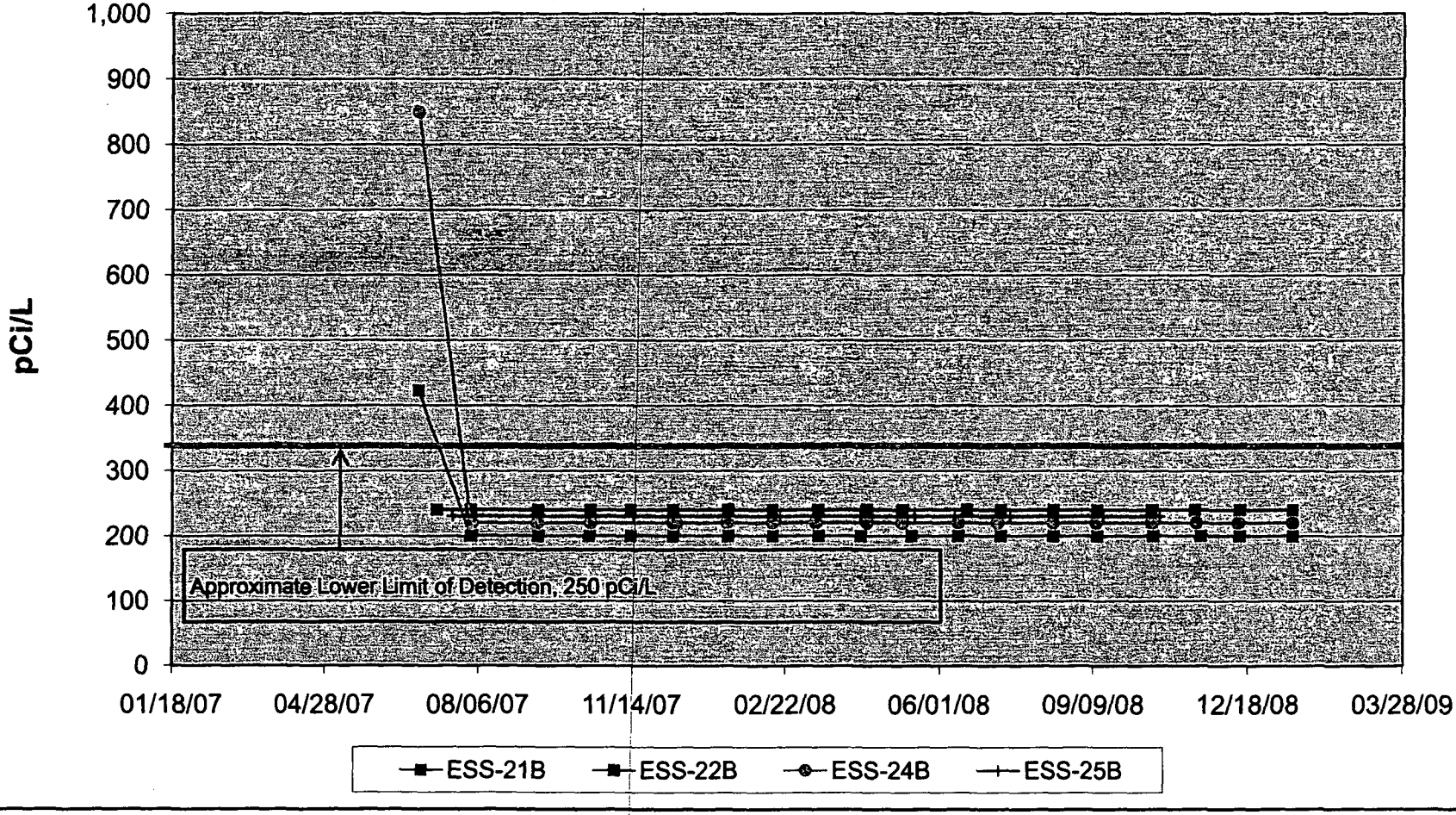


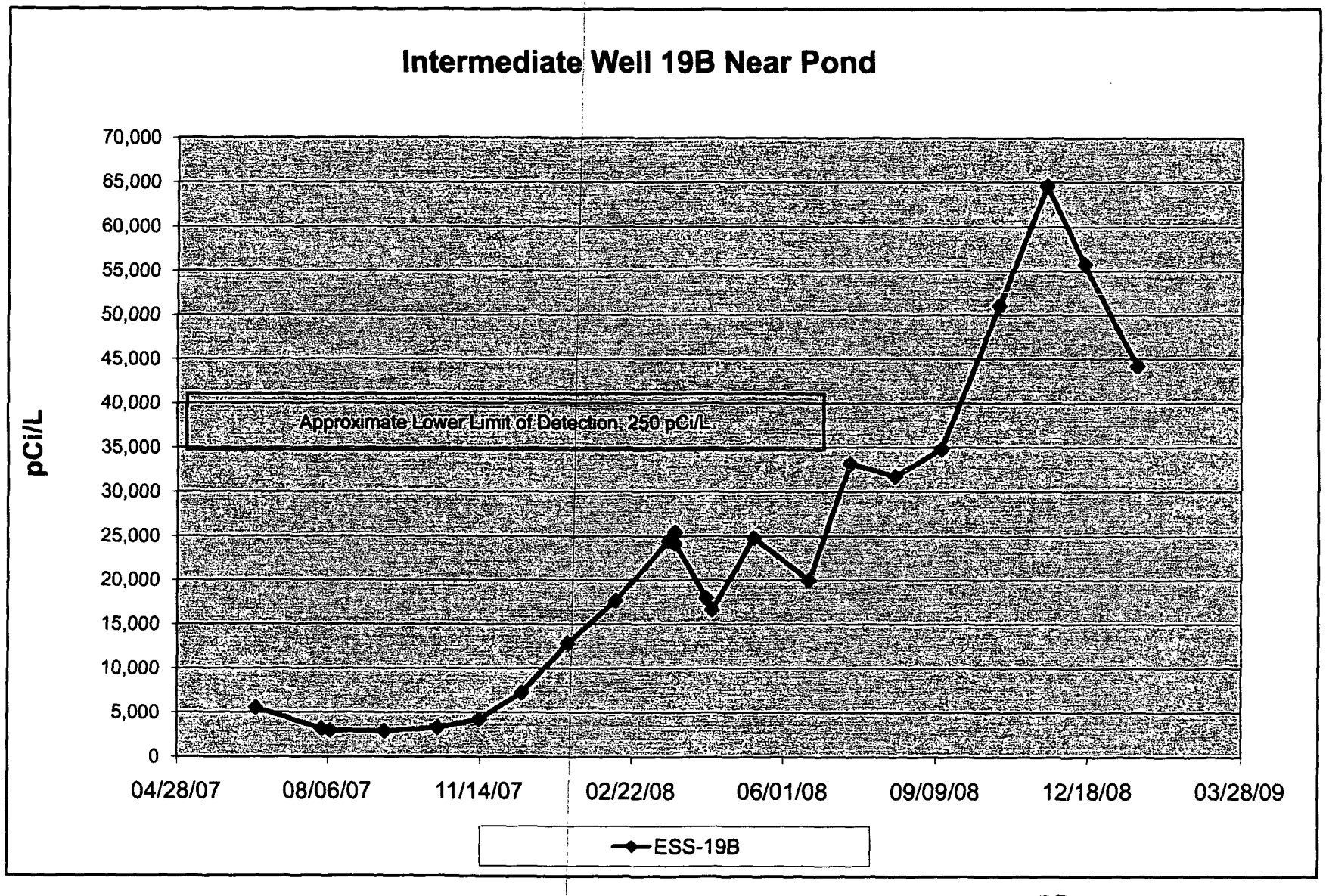
Progress Energy

Intermediate Wells 21B, 22B, 24B, and 25B Near Pond



Progress Energy

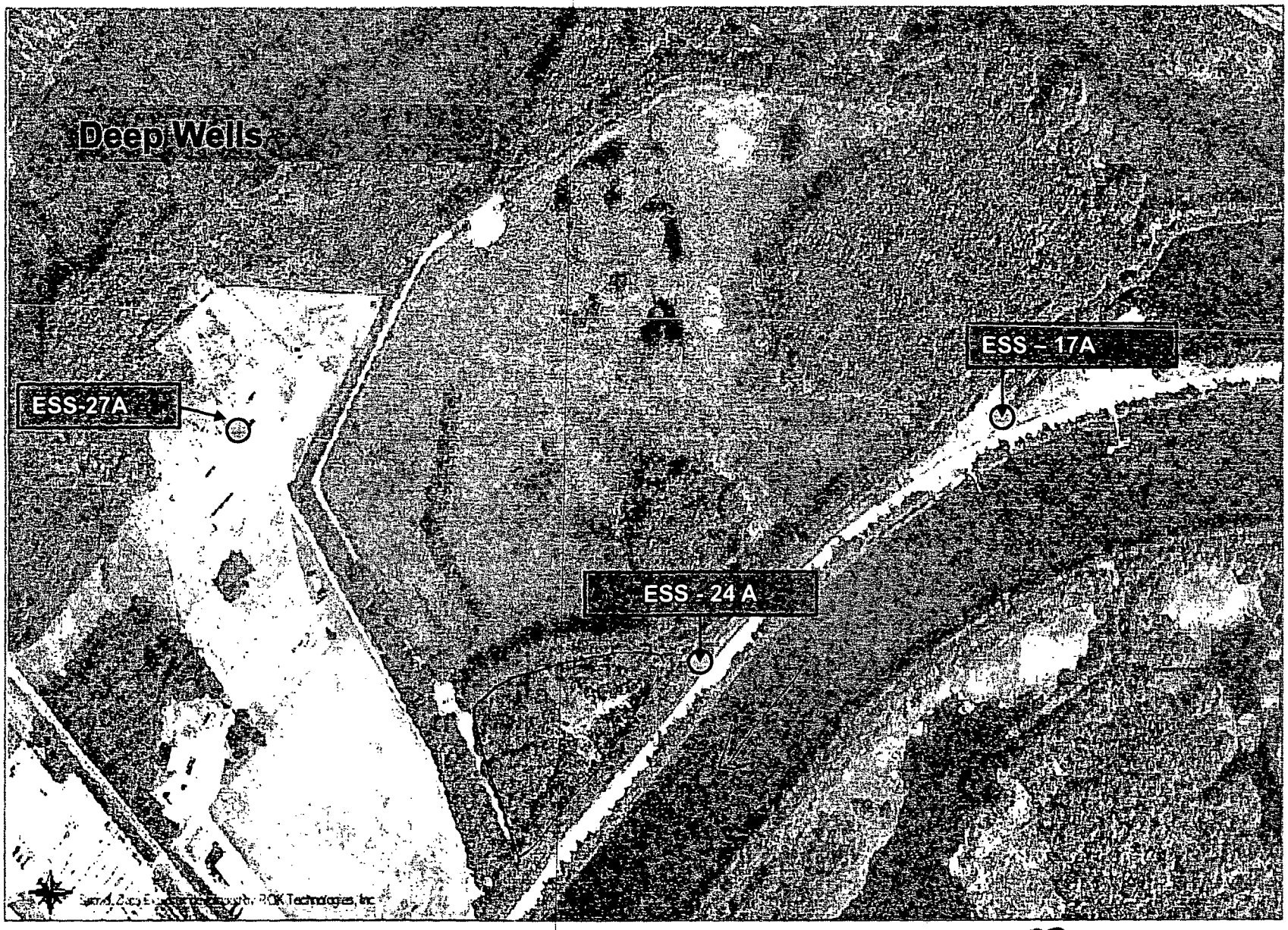
Deep well Here?



Progress Energy

Latest Intermediate Well Sample Data

Well	Well Depth (ft)	Sample Date	Sample Results (pCi/L)
ESS-17B	53	1/15/09	<LLD
ESS-18B	63	1/19/09	<LLD
ESS-19B	42	1/19/09	44,240
ESS-20B	43	11/19/09	<LLD
ESS-21B	67	1/15/09	<LLD
ESS-22B	76	1/15/09	<LLD
ESS-24B	53	1/15/09	<LLD
ESS-25B	43	1/22/09	<LLD



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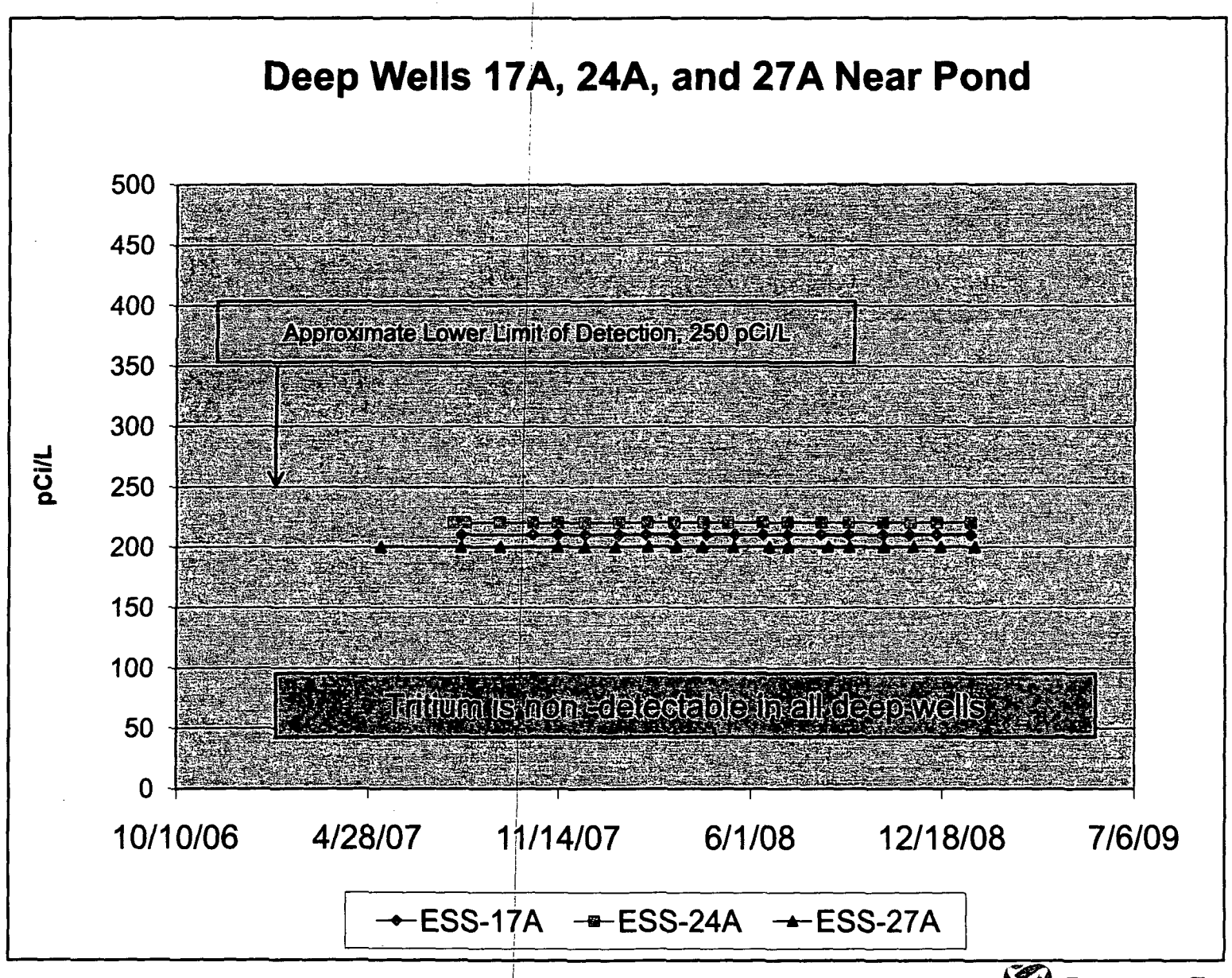
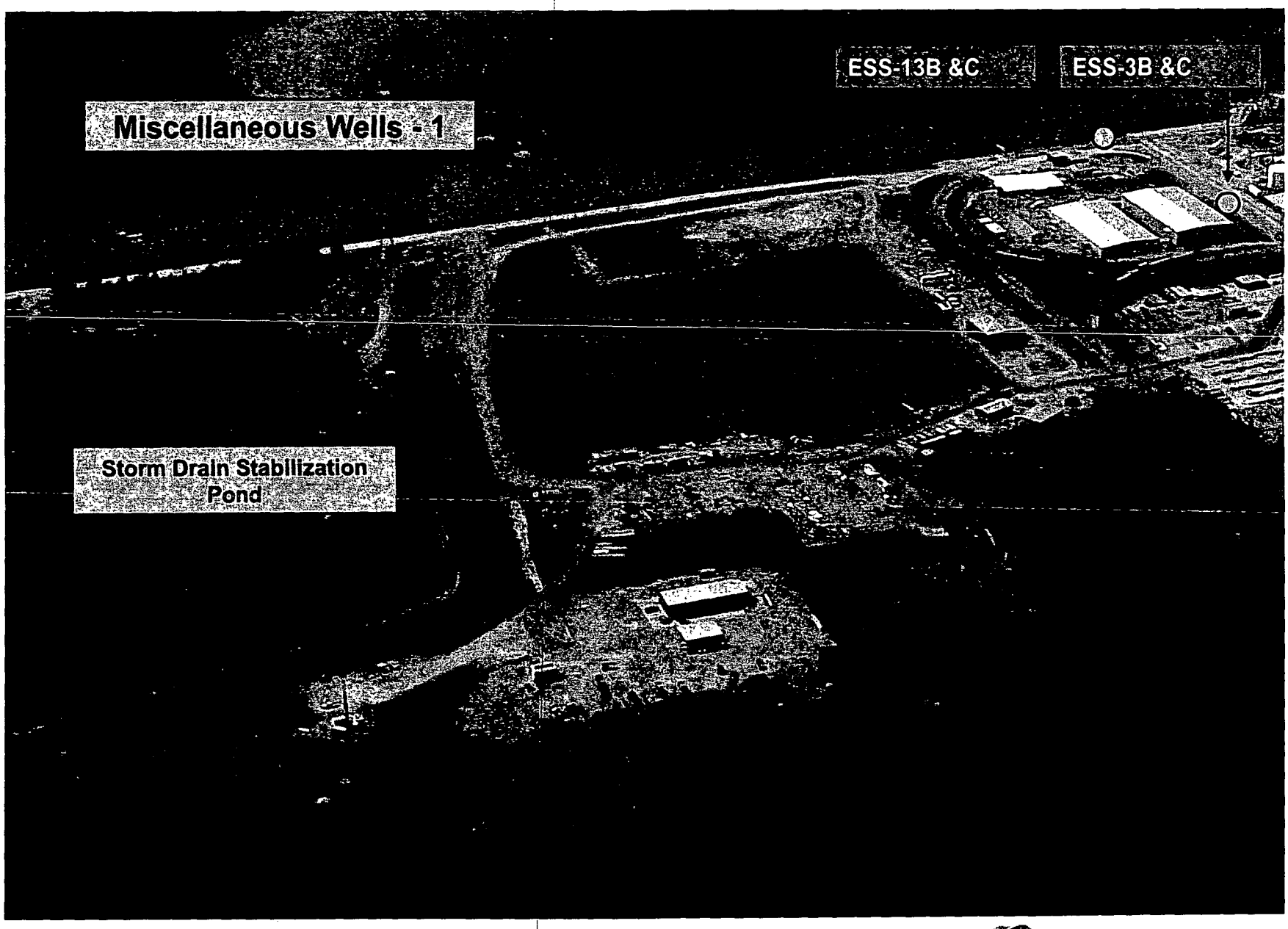


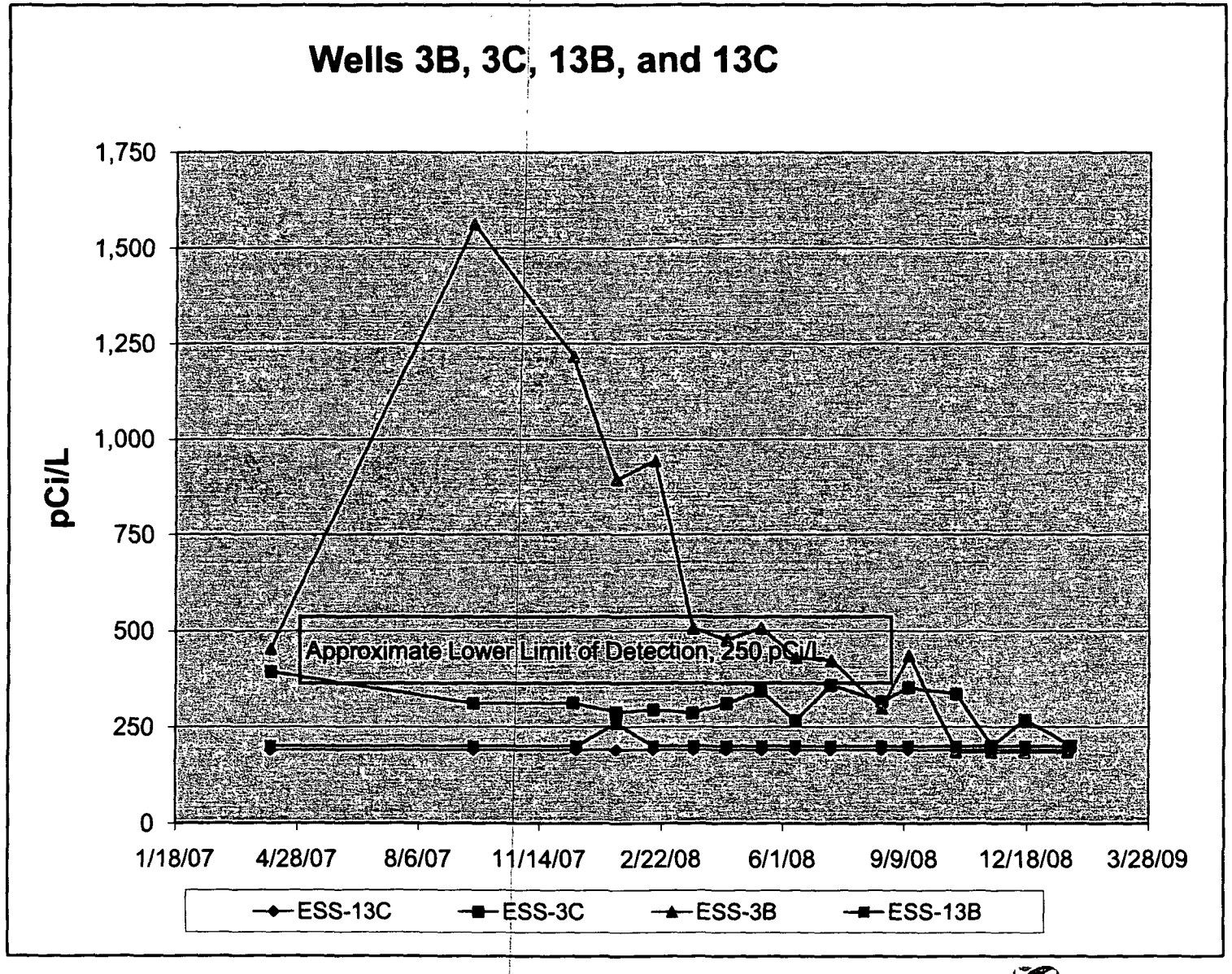
Progress Energy

Latest Deep Well Sample Data

Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-17A	150	1/15/09	<LLD
ESS-24A	140	1/15/09	<LLD
ESS-27A	140	1/19/09	<LLD



Progress Energy



Progress Energy

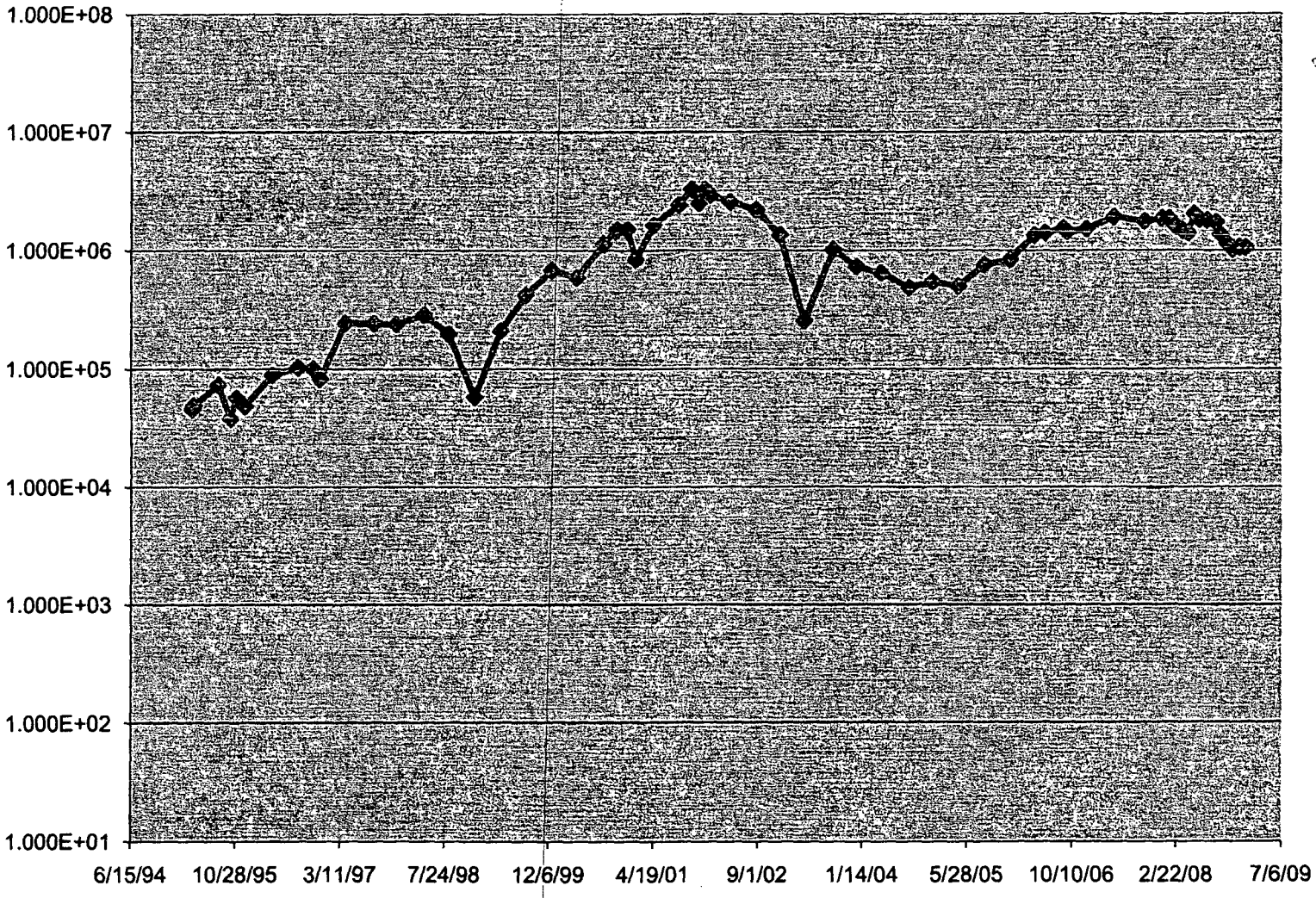
Miscellaneous Wells-1

Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-3B	52.4	1/20/09	<LLD
ESS-3C	14.3	1/23/09	<LLD
ESS-13B	56.5	1/20/09	<LLD
ESS-13C	24.8	1/23/09	<LLD

3 Q
MIT - Pond & SWYD
19 - Deep Well

Progress Energy

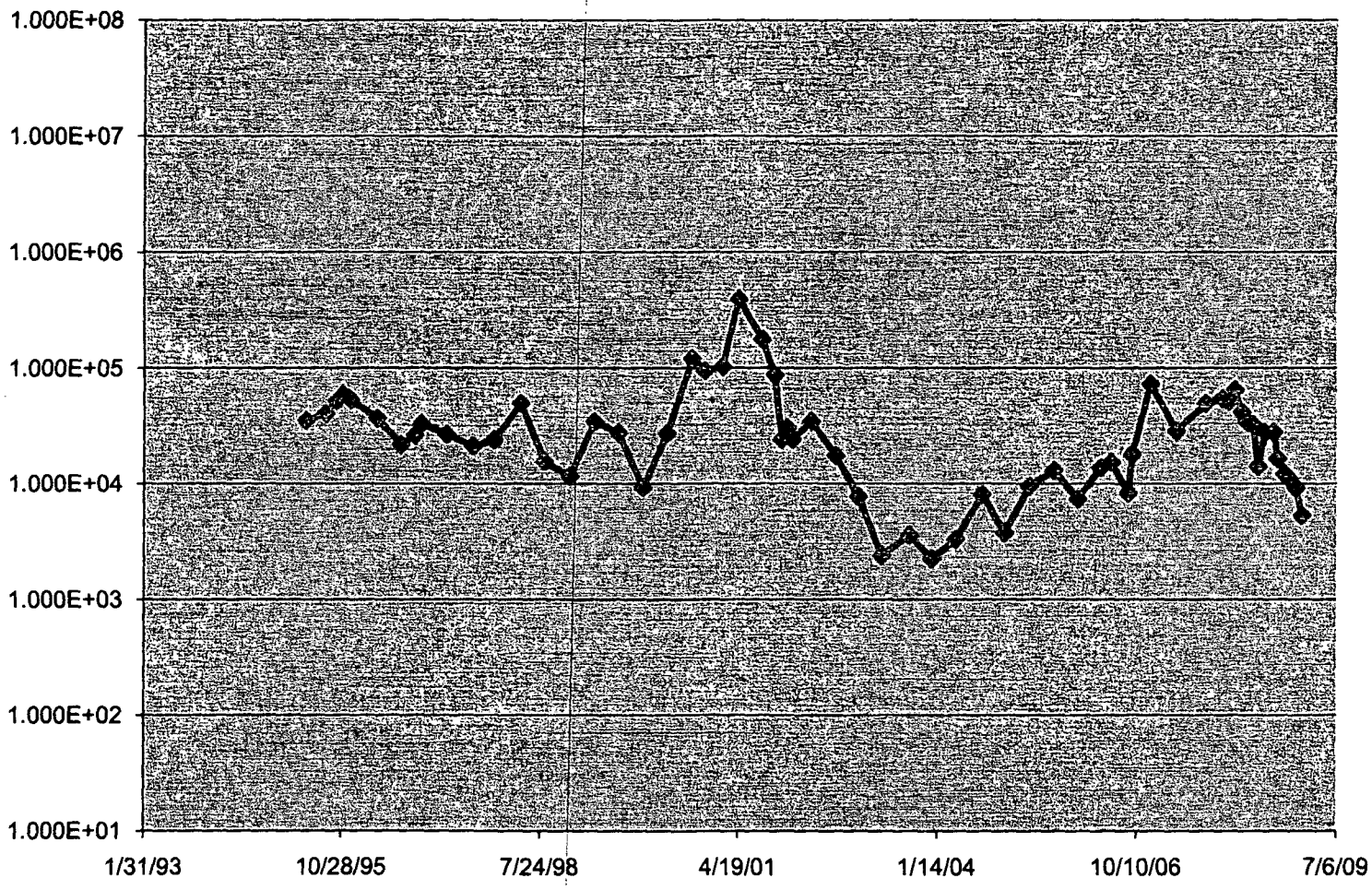
Switchyard Area Wells from Historical Radwaste Line Leak, Well 2C



Deep Well

Progress Energy

Switchyard Area Wells from Historical Radwaste Line Leak, Well 16

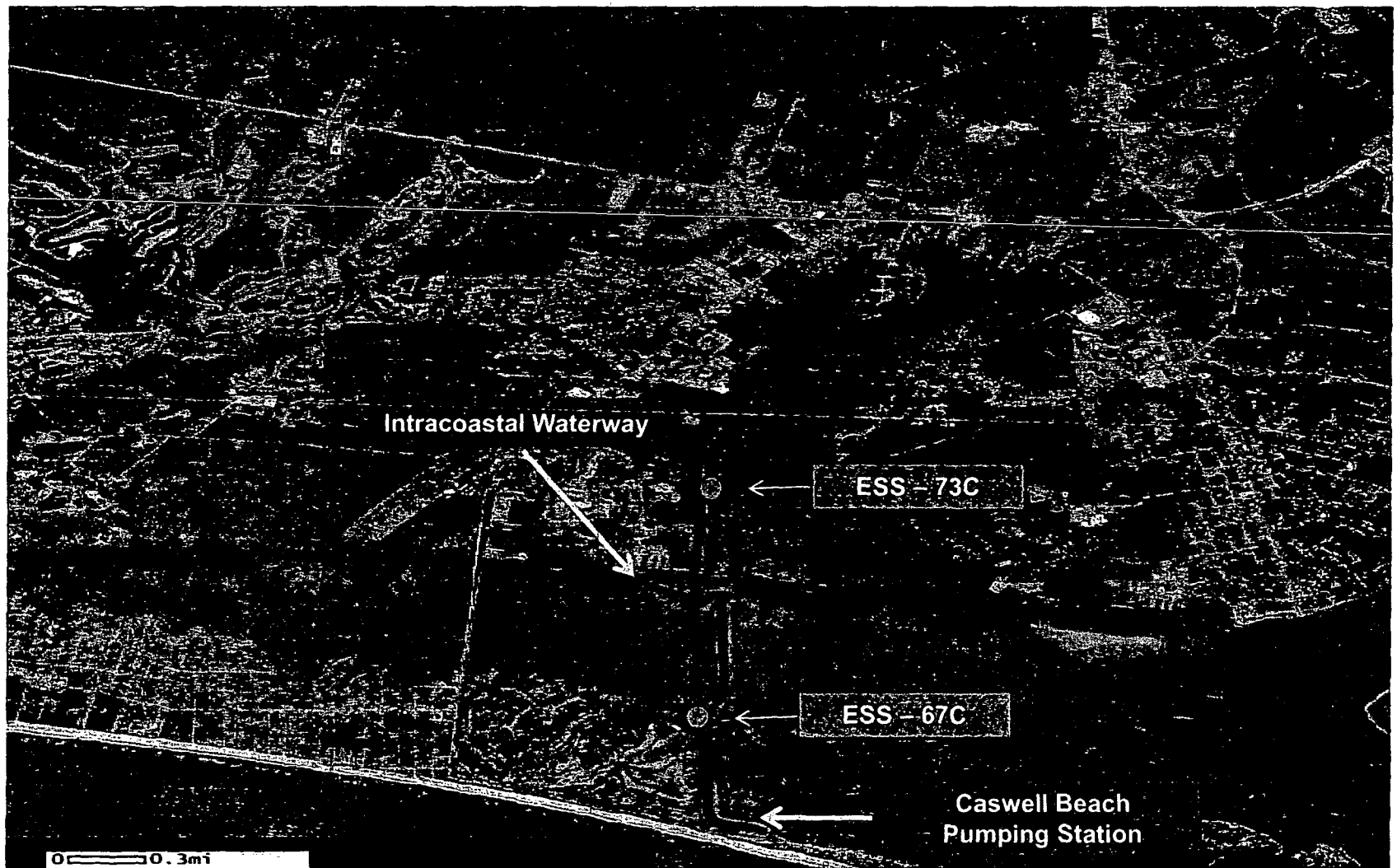


Progress Energy

Miscellaneous Wells-2

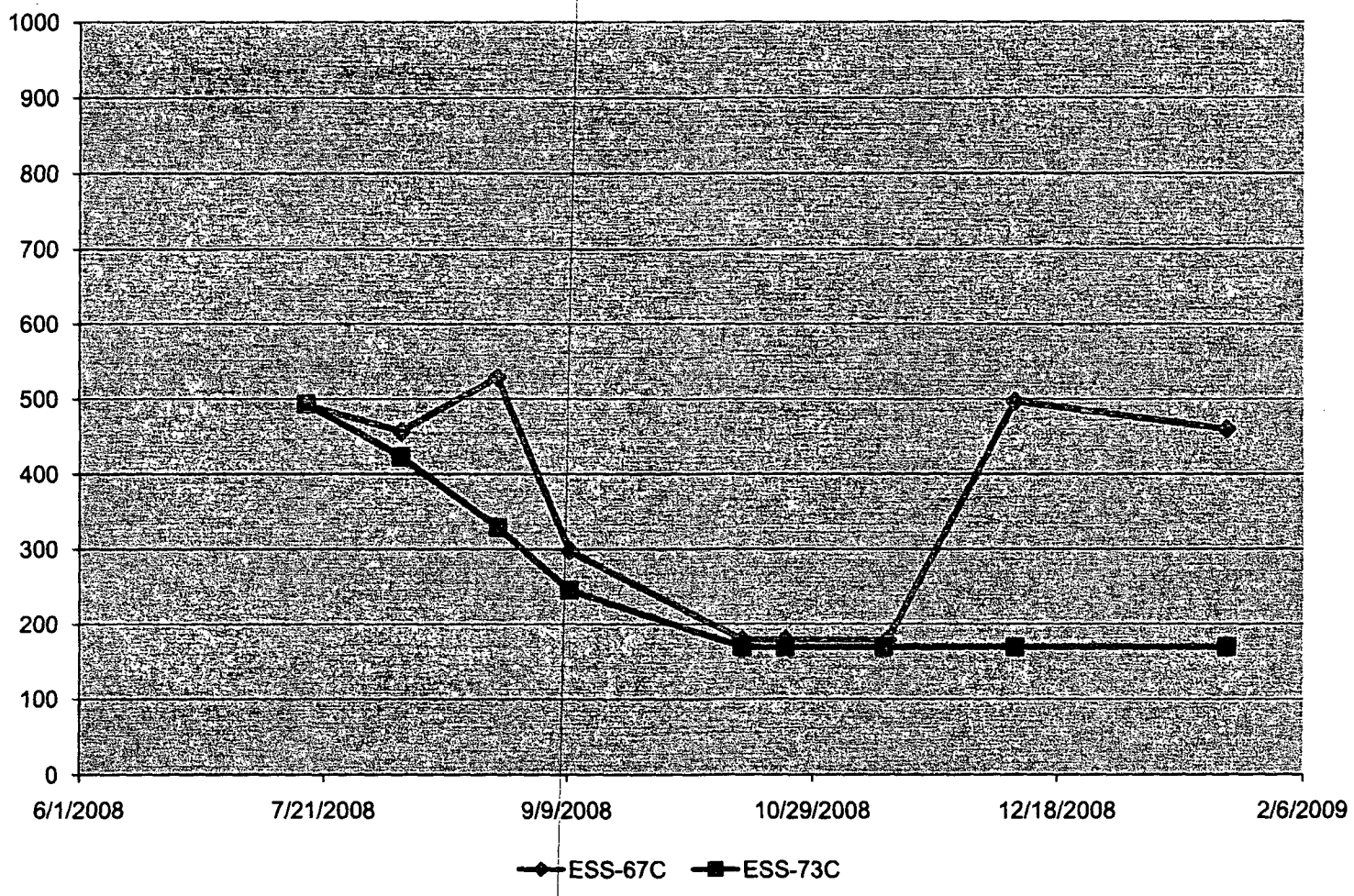
Well	Well Depth (ft)	Sample Date	Tritium Sample Results (pCi/L)
ESS-2C	23	1/16/09	1,103,900
ESS-16	25.4	1/16/09	5,278

Discharge Canal Wells 67C and 73C



Progress Energy

Discharge Canal Wells 67C and 73C



Progress Energy

Discharge Canal Wells 67C and 73C

Date	Well 67C, pCi/L Depth is 25 Feet	Well 73C, pCi/L Depth is 15 Feet
7/17/08	491	493
8/5/08	456	423
8/25/08	528	329
9/9/08	298	246
10/14/08	<LLD	<LLD
10/23/08	<LLD	<LLD
11/13/08	<LLD	<LLD
12/9/08	496	<LLD
1/21/09	459	<LLD