Table 15. COMPARISON OF VOLUME, DENSITY, % SOLIDS, AND TONS OF MATERIAL WITH PRIOR CALCULATIONS

	This Report				March 4, 1993 Chart			
	Volume (ft^3)	density	% Solids	Tons	Volume (ft^3)	density	% Solids	Tons
Pond 2	196,000	2.72	50	4,500				
Pond 3	382,000	2.73	40	6,300	575,807	1.6	30%	8,637
Pond 8	2,600,000	2.8	30	30,000				
Pond 9	2,620,000	2.8	30	30,000				

	Spivey Sept 14, 1990				Recodyne/Ecotek/Plant Economics			
	Volume (ft^3)	density	% Solids	Tons	Volume (ft^3)	density	% Solids	Tons
Pond 2	291,600	1.6?	59	7,500				
Pond 3	269,000	1.6?	30	3,775	NA	1.4	37%	NA
						includes pond 5		9000
Pond 8					NA	1.24	30%	NA
Pond 9						1.22	28%	NA
						total of 2 ponds		78000

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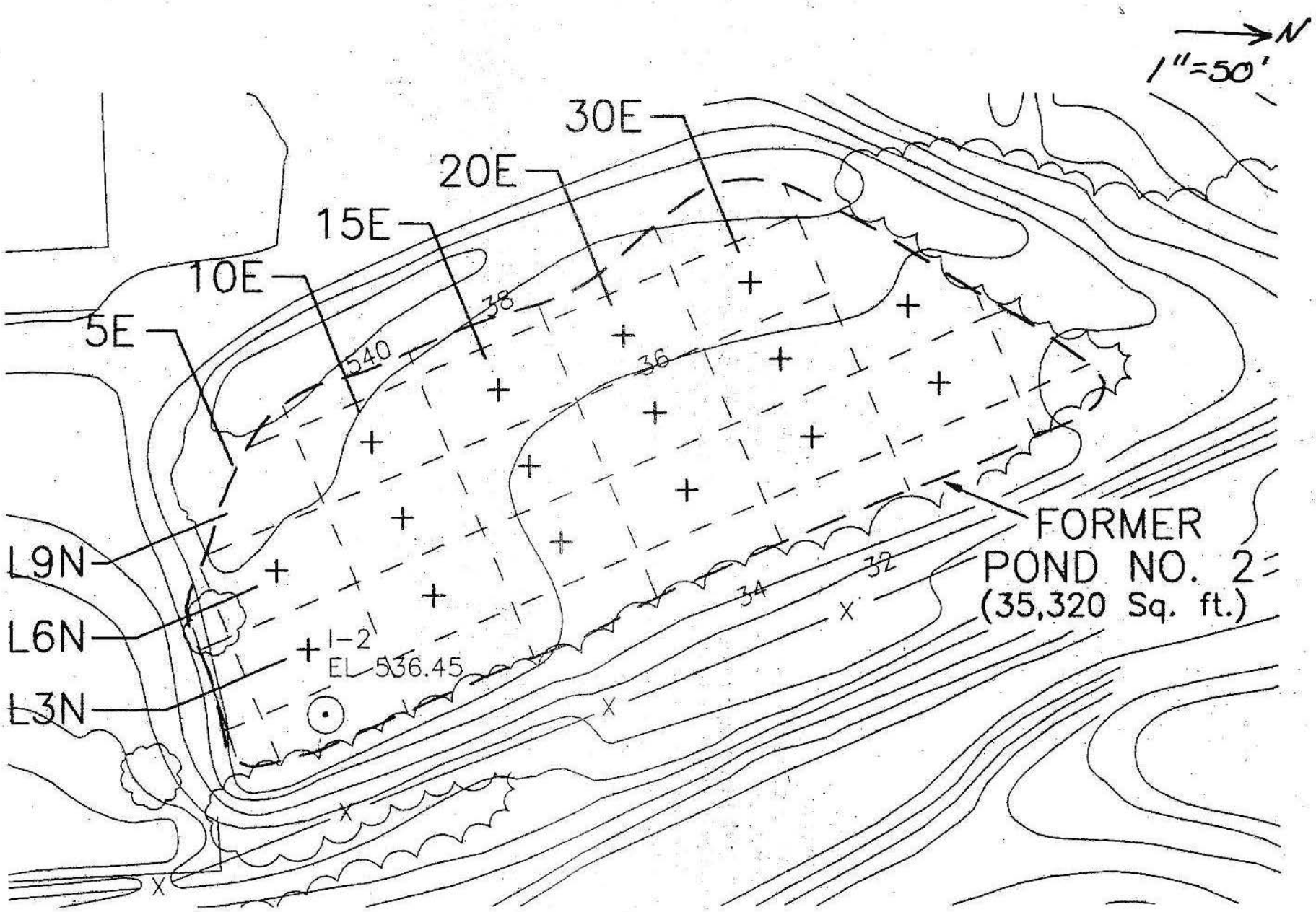

Figure 1. Pond 2 sample grid.

Table No. 15-1
Fansteel Inc. - Muskogee Facility
Estimated Volumes and Quantities
of Residues Associated with Pond Nos. 2 and 3

Pond	Specific Gravity of Solids	Pond - % Solids by Weight	Average Residue Depth (ft)	Average Pond Width (ft)	Average Pond Length (ft)	Residue Volume (cu yd)	Material - Wet Weight (tons)	Material - Dry Weight (tons)
No. 2	2.72	50	11	120	300	9,464	11,653	5,826
No. 3	2.73	40	13	158	318	15,986	18,030	7,212
TOTALS						**25,449**	**29,683**	**13,038**

Notes:

1) The specific gravity of the solids and the pond percent solids were taken from the report completed by Mr. Dennis J. LaPoint for PMET dated September 12, 2000.
2) The average depth of the ponds was based on the results of the pond sampling events performed as part of the 1993 Remedial Assessment.
3) The average length and average width of the ponds were based on the Pond No. 3 contour map dated September 11, 1978 and the site drawings provided in the Construction Certification Report dated December 15, 1999.
4) The calculations for the volume of residues in Pond No. 3 utilize a slope for the sidewalls of 3:1 as indicated on the Pond No. 3 contour map dated September 11, 1978.
5) The calculations for the volume of residues in Pond No. 2 utilize a slope for the sidewalls of 3:1 assuming that Pond No. 2 would have a construction similar to Pond No. 3. No drawings were available for Pond No. 2.

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