ER Do 37510

4/22/85 DP Fuel Farm Phoswich Survey

The phoswich survey results are provided on p 15. Because of variability in soil types (& thus radiation background) the analysis areas grouped by soil types as designated on the map. The instrument does drift with temperature & the instrument variability is greater than that due to counting statistics alone, as is shown in the source checks before & after the survey. The 'after' reading is between 2 & 3 σ lower than the first reading.

Zone	n	$\bar{x}$	σ	$\bar{x}+2\sigma$	$\bar{x}+3\sigma$	highest reading
I	12	834	53	940	993	935
II	8	825	31	887	918	858
III	2	863	35	933	968	887
IV	36	900	68	1036	1104	1035
V	2	867	69	1005	1074	916

An updated reproducibility check on the phoswich may be in order.

A.J. Wielgoski

10427

PHOSWICH SURVEY 4/19/85 - by L. Fritz. + D. [illegible]

DRY - FAIRLY DRY CONDITIONS

DP ROAD - GAS TANK FARM SOIL SAMPLING LOCATIONS 1/11/10.

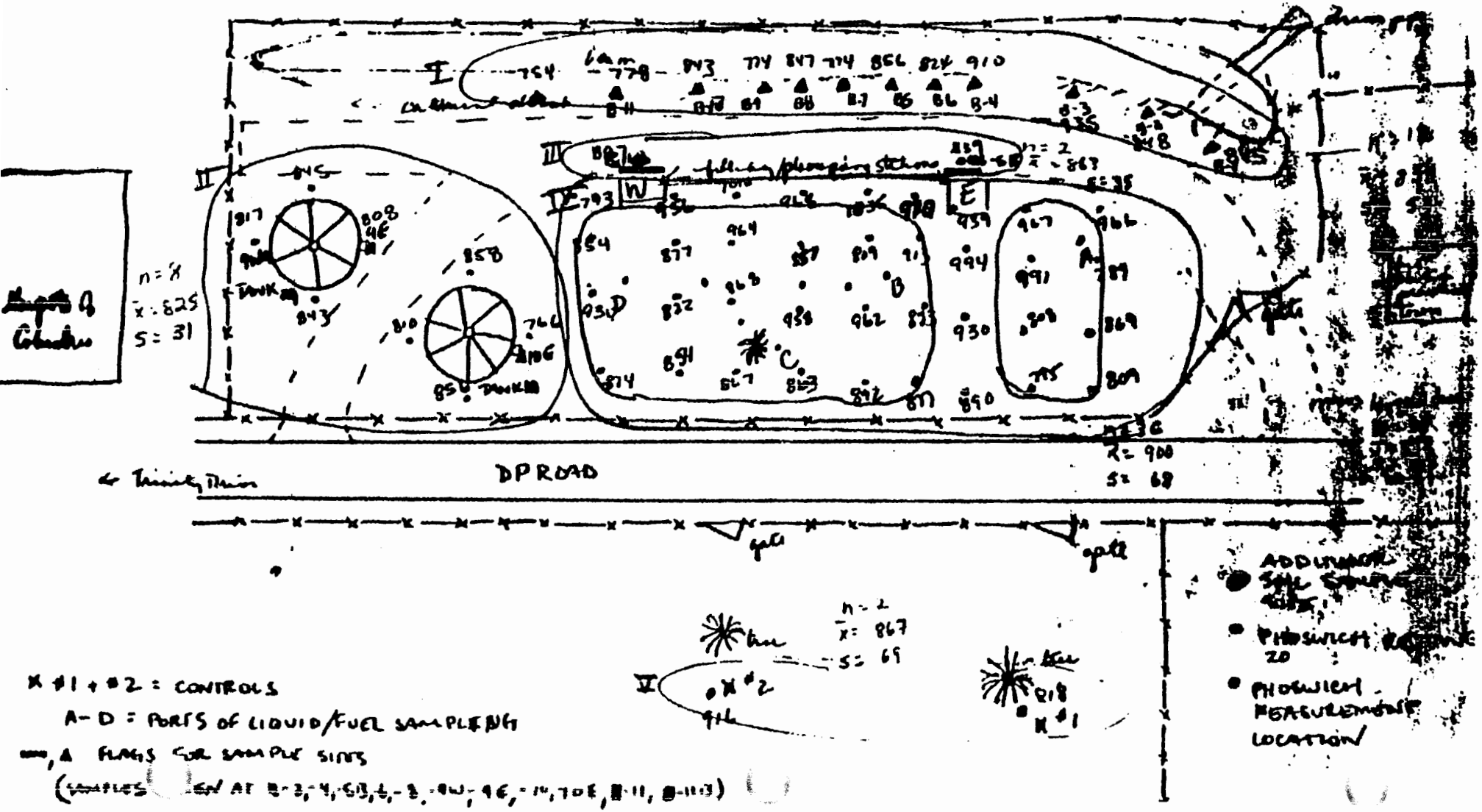
BACKGROUND = 822 (ON ASPHALT)

COUNT = 20 SECONDS

N AM SOURCE BEFORE - 196912 $\sqrt{196912} = 444$ 196912 - 28 = 196024

AM SOURCE AFTER = 195949

NO SCALE.



X #1 + #2 = CONTROLS

A - D = PORTS OF LIQUID/FUEL SAMPLING

—, ▲ FLAGS FOR SAMPLE SITES

(~~WHITES~~ [illegible] AT B-2, -4, -5B, -6, -8, -8W, -9E, -10, -10E, B-11, B-11B)