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Rockwell Hanford Operations

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Document Title:

Double-Shell Underground Waste Storage Tanks - Riser Survey.

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Prepared by (Name and Dept. No.)

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See reverse side for additional approvals

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Abstract

THis document is a compilation of riser information for double-shell underground storage tanks. The informations includes:

1. Aboveground plan view of each tank area, with risers and pits marked.
2. Riser size, elevation, contents, and distance from the tank center.
3. Reference drawing number(s) for each tank.

The information is current as of September 1986, and short-term temporary uses are not included.

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REVISION AND UPDATES OF NEW TANK FARM

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7. Abstract

This document is a compilation of riser information for double-shell underground storage tanks. The information includes:
1. Aboveground plan view of each tank area, with risers and pits marked.
2. Riser size, elevation, contents, and distance from the tank center.
3. Reference drawing number(s) for each tank.

The information is current as of September 1986, and short-term temporary uses are not included. Legends removed per request of Barbara Williamson Legal RMB 3/12/91

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9 1 1 2 7 6 4 1 8 9 6

1.0 INTRODUCTION

This document is intended to be an information source through which the isolation and surveillance projects can be coordinated. To accomplish this, the information will be updated and distributed on a regular basis. Also, all present and future projects needing risers for equipment installation or other purposes should route the tank number, riser number, and the intended use through the manager of Waste Management Process Engineering (WMPE). In this way, proper riser configuration control can be maintained.

Presently, the scope of this document covers all of the double-shell underground waste storage tanks.

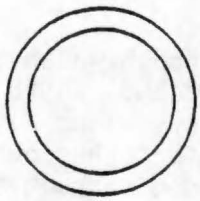
This document was compiled using visual observation in the tank farms and verification via existing drawings. No attempt was made to visually inspect within pits or to verify the presence of concrete plugs under riser flanges with lifting bales.

2.0 MISCELLANEOUS INFORMATION

Benchmarks

Benchmarks have been placed on all the tanks as a reference point to be used to detect any dome settling or other ground movement. The isolation projects have inadvertently destroyed or covered over the marks on several tanks. To avoid this problem in future isolation projects, please refer to Drawing H-2-60529, "Benchmark Waste Tank System." This drawing identifies the benchmark locations and the different devices used as benchmarks. This information will allow construction personnel to identify and avoid ruining benchmarks on remaining tanks.

3.0 KEY



3.5 in. circle is tank outline - outer circle shows annulus

<u>Risers</u>

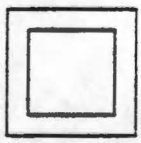
42 in.

10 in., 12 in., 24 in.

4 in., 6 in.

In proportion to size

1, 2, 3, etc. Riser Number - may not agree with field ID



Various size rectangles are pits - may have label

Caisson (usually 72 in. dia.) - Covered

MH A 42 in. manhole at dome top - no riser to surface

or Cement pad with a plate (riser is under plate)

-586-3250-1

9 1 1 2 7 5 1 1 8 9 8

4.0 KEY - RISER DESCRIPTION

Riser:	Pipe leading into tank dome
Size:	Nominal pipe diameter of riser (in inches)
Elevation:	Surveyed at riser flange
Radius:	Distance of riser center from tank center
nf:	Does not show at surface, not in a pit - no surface access
Spare:	Spare riser with no current function or planned use - possible concrete plug underneath plate
( ):	Riser is within a pit
P/CP:	Riser is recessed below a cement pad with an access plate at grade
SMP:	Sludge measurement port
LIT:	Automatic liquid indicator tape
LLI:	Manual liquid level indicator
Leak Detector:	Fixed liquid level sensor - type varies
Temp:	Temperature probe
TBX:	Instrument leads of several kinds - usually on annulus of tank
SpG:	Specific Gravity
LOW:	Liquid Observation Well
CVR:	Metal Cover Plate

9 1 1 2 7 6 4 1 8 9 9

5.0 DRAWING NUMBERS

Farm	Tank number	Elevation drawing number	Reference drawing number
AN	101-106	H-2-72004	H-2-71976
AN	107	H-2-72004	H-2-71161
AP	101&103	Not yet available	H-2-90538
AP	102&104	Not yet available	H-2-90539
AP	105&107	Not yet available	H-2-90535
AP	106&108	Not yet available	H-2-90536
AW	101-106	H-2-70420	H-2-70395
AY	101-102	H-2-37911	H-2-64447
AZ	101	H-2-70202	H-2-67314
AZ	102	H-2-70202	H-2-67315
SY	101-103	H-2-72213	H-2-37773

6.0 TANK DIAGRAMS AND RISER INFORMATION

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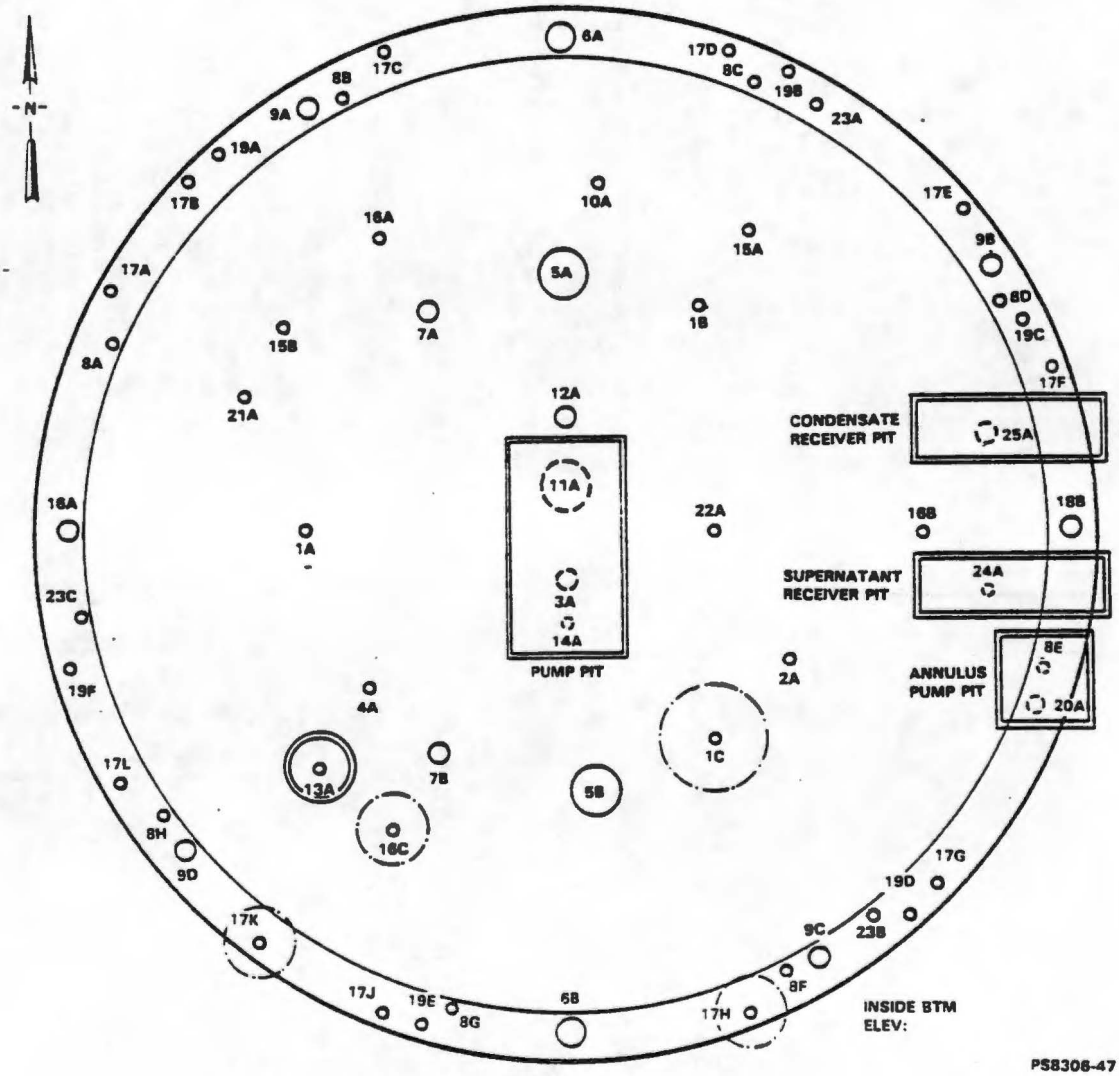
Tank No. AN 101.

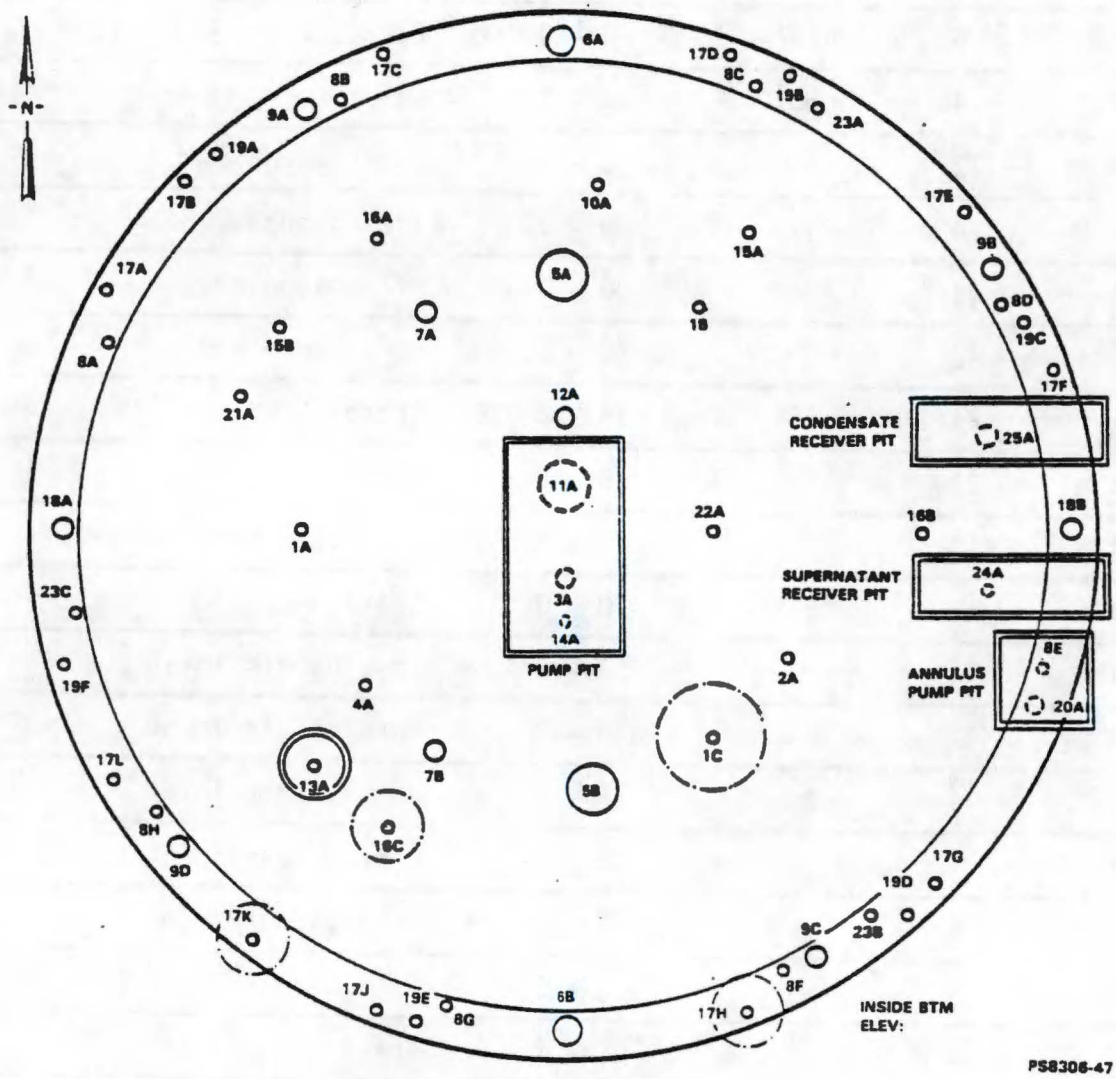


Tank No. AN 101.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	668 - 9	20 - 0	SMP
C	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	nf - manhole
B	42		20 - 0	nf - manhole
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12		20 - 0	nf - tank ventilation
B	12	668 - 9	20 - 0	Spare
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

9 1 1 2 3 6 4 1 9 0 3

Tank No. AN 101.

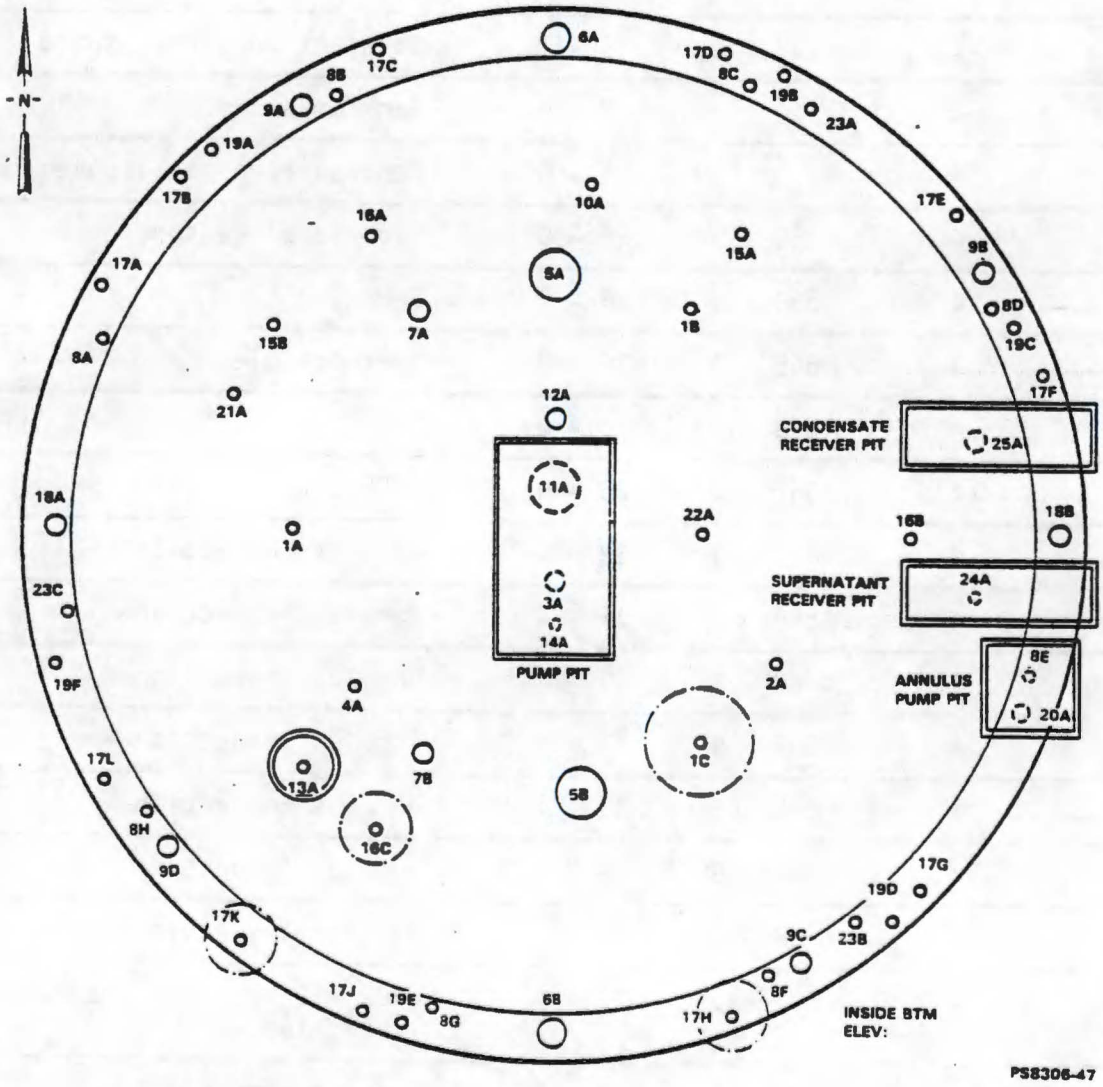


Tank No. AN 101.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4	668 - 9	28 - 0	nf
11A	42		3 - 0	Central pump pit slurry distributor
12A	12	668 - 9	9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	668 - 9	28 - 0	High level sensor
B	4	668 - 9	28 - 0	SMP
16A	4	668 - 9	28 - 0	Thermocouple
B	4	668 - 9	28 - 0	SMP
C	4	667 - 3	28 - 0	P/CP (12 in. CVR) - SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	668 - 9	39 - 4	Annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	668 - 9	39 - 4	Annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
L	4	667 - 3	39 - 4	Annulus inspection
18A	12	667 - 3	38 - 9	Annulus access

9112364119905

Tank No. AN 101.

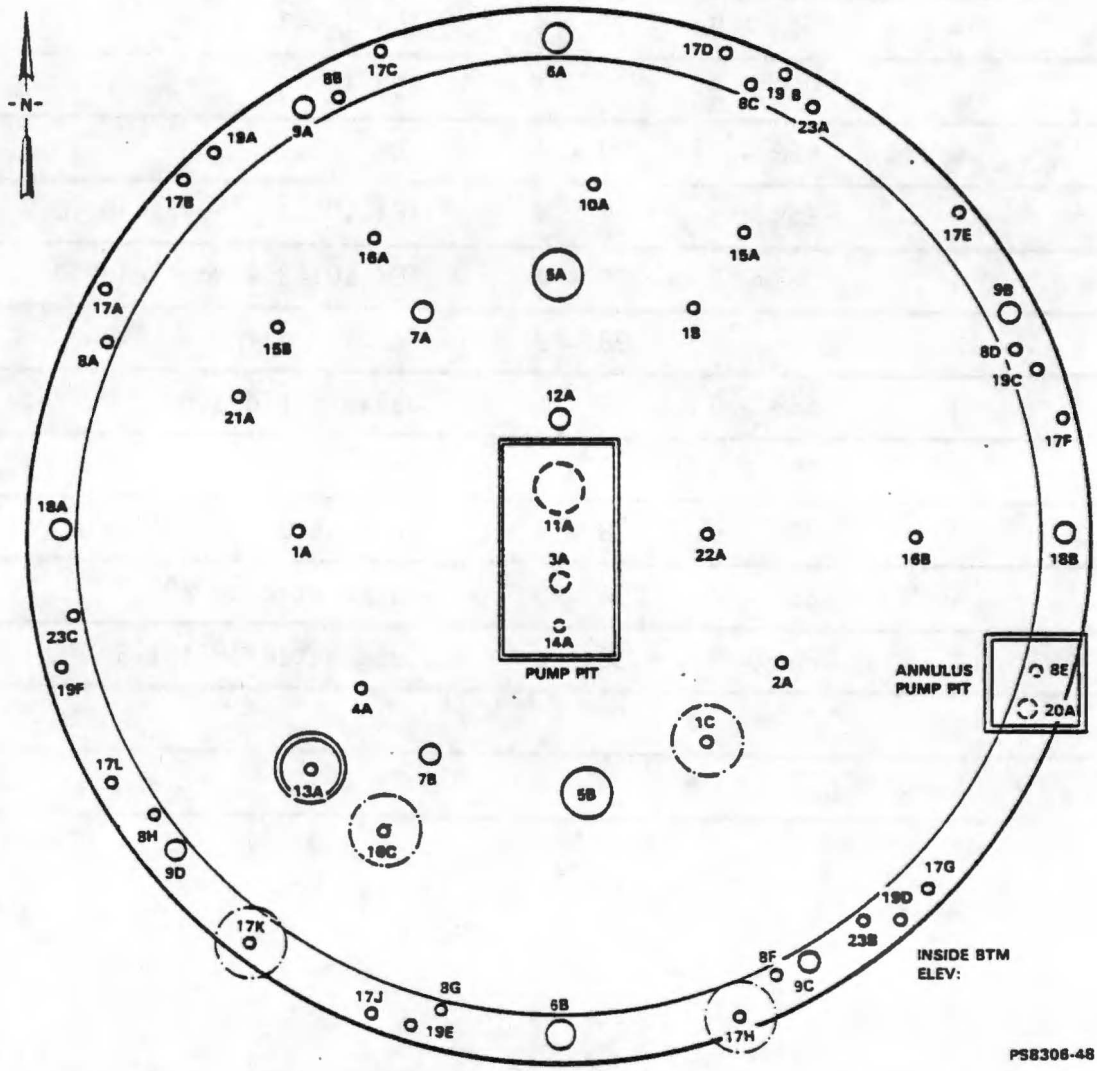


Tank No. AN 101.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
B	12	667 - 3	38 - 9	Annulus access
19A	4	668 - 9	39 - 4	TBX 101-4
B	4	668 - 9	39 - 4	TBX 101-5
C	4	668 - 9	39 - 4	TBX 101-6
D	4	668 - 9	39 - 4	TBX 101-1
E	4	668 - 9	39 - 4	TBX 101-2 - No field ID
F	4	668 - 9	39 - 4	TBX 101-3 - No field ID
20A	12		38 - 9	Annulus pump
21A	4	668 - 9	38 - 0	Valve pit drain
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 101-4
B	4	668 - 9	38 - 9	Leak detector 101-2
C	4	668 - 9	38 - 9	Leak detector 101-3
24A				
25A				

9112121907

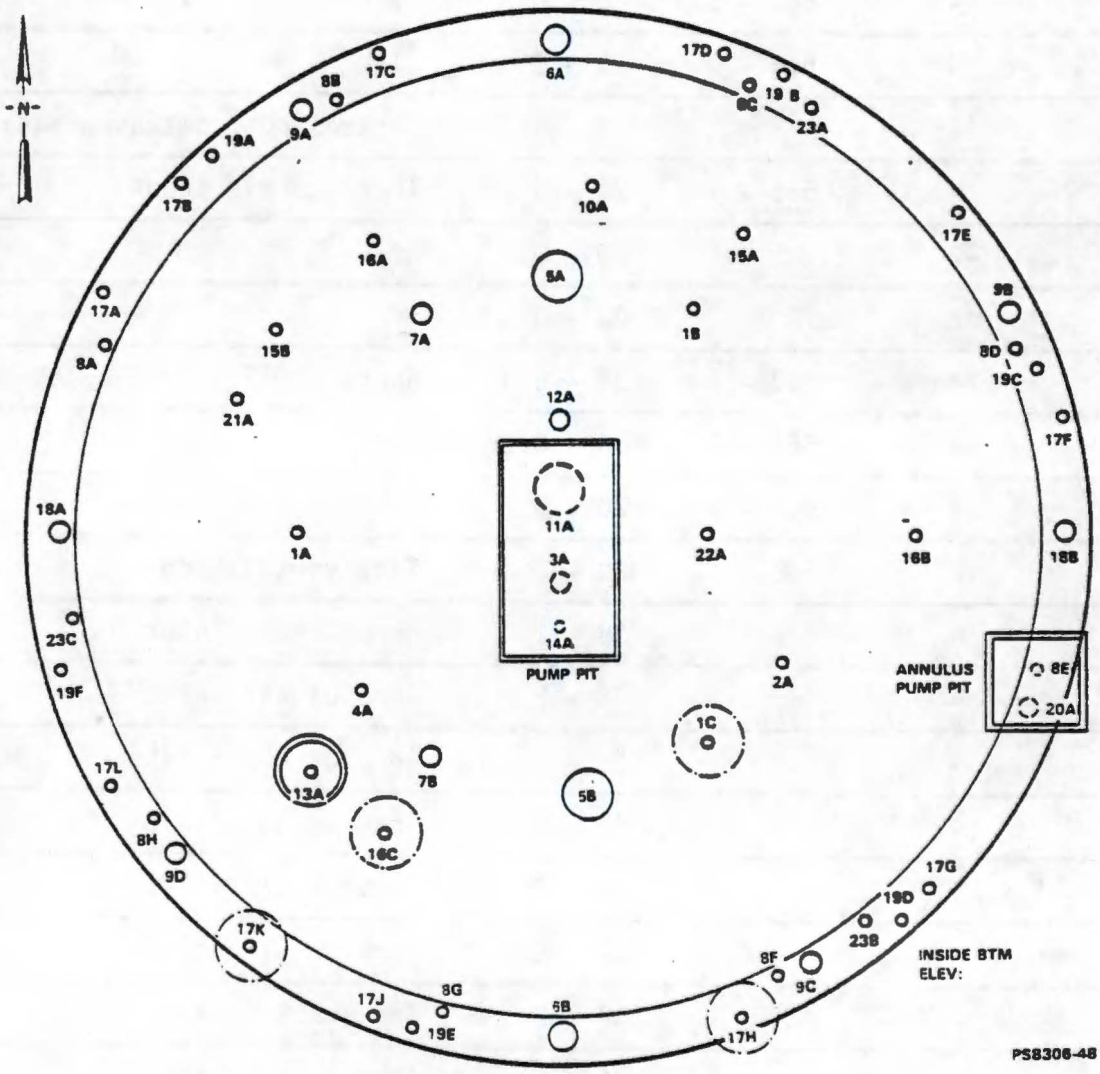
Tank No. AN 102.



Tank No. AN 102.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	668 - 9	20 - 0	SMP
C	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Central pump pit supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	nf
B	42		20 - 0	nf
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12	668 - 9	20 - 0	Spare
B	12	668 - 9	20 - 0	Tank ventilation
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

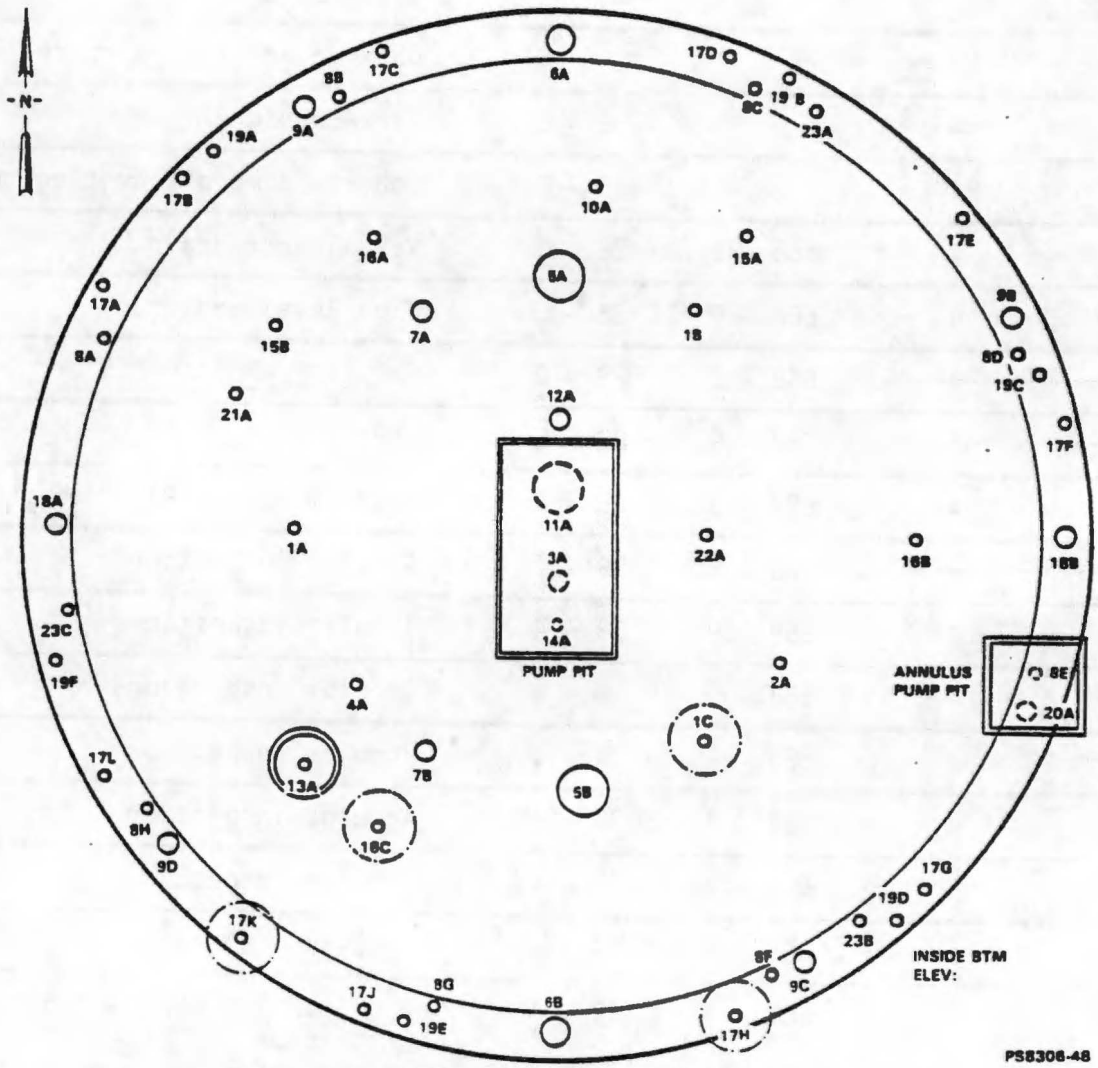
Tank No. AN 102.



Tank No. AN 102.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4		28 - 0	Spare
11A	42		3 - 0	Central pump pit slurry distributor
12A	12		9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	668 - 9	28 - 0	Vessel vent drain
B	4	668 - 9	28 - 0	High level sensor
16A	4	668 - 9	28 - 0	SMP
B	4	668 - 9	28 - 0	SMP
C	4	667 - 3	28 - 0	P/CP (12 in. CVR) - SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	668 - 9	39 - 4	Annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	668 - 9	39 - 4	Annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
L	4	668 - 9	39 - 4	Annulus inspection
18A	12	668 - 9	38 - 9	Annulus access

Tank No. AN 102.



Tank No. AN 102.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
B	12	668 - 9	38 - 9	Annulus access
19A	4	668 - 9	39 - 4	TBX 102-4 - no field ID
B	4	668 - 9	39 - 4	TBX 102-5 - no field ID
C	4	668 - 9	39 - 4	TBX 102-6
D	4	668 - 9	39 - 4	TBX 102-1
E	4	668 - 9	39 - 4	TBX 102-2
F	4	668 - 9	39 - 4	TBX 102-3
20A	12		38 - 9	(In pit) annulus pump
21A	4		28 - 0	Spare
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 102-4
B	4	668 - 9	38 - 9	Leak detector 102-2
C	4	668 - 9	38 - 9	Leak detector 102-3

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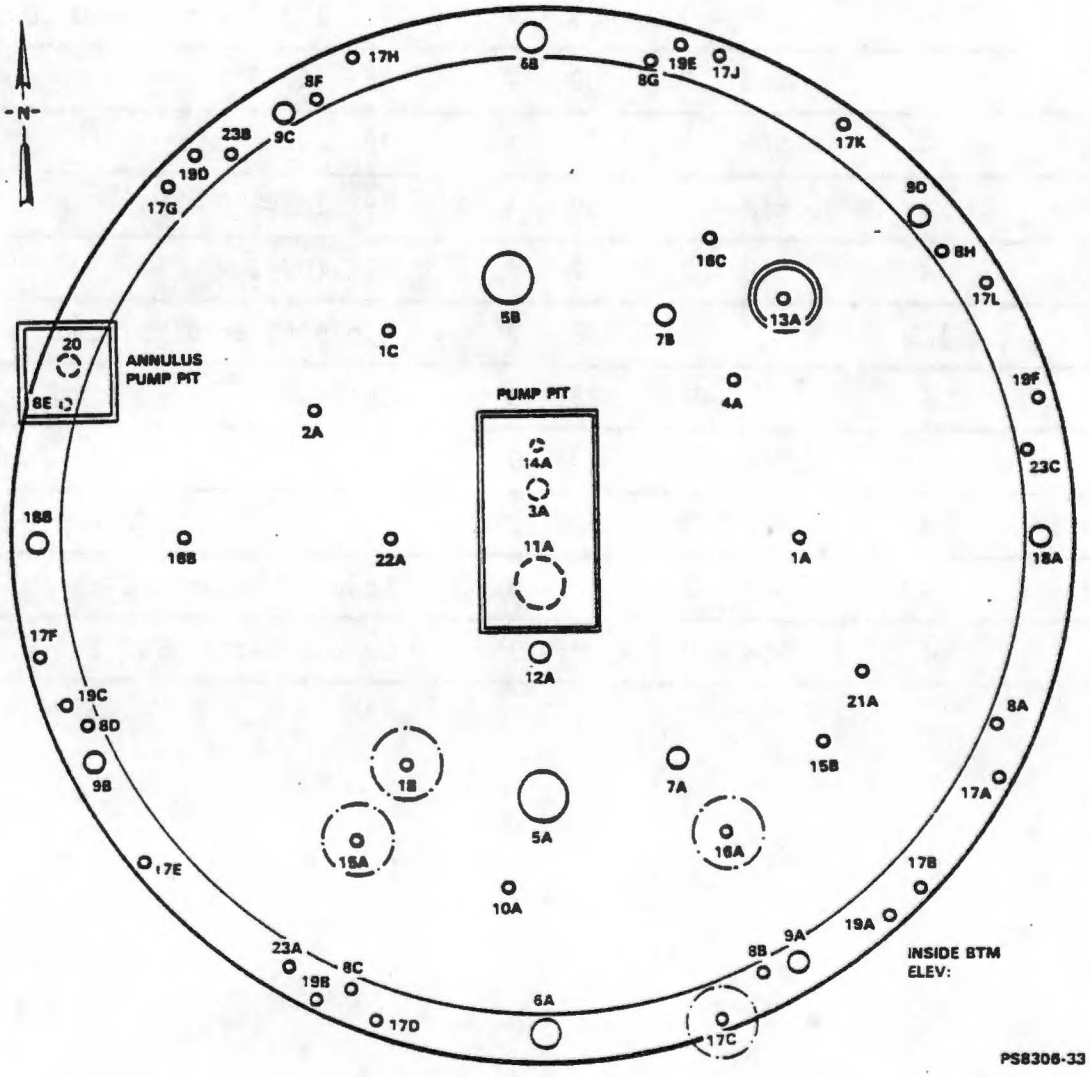
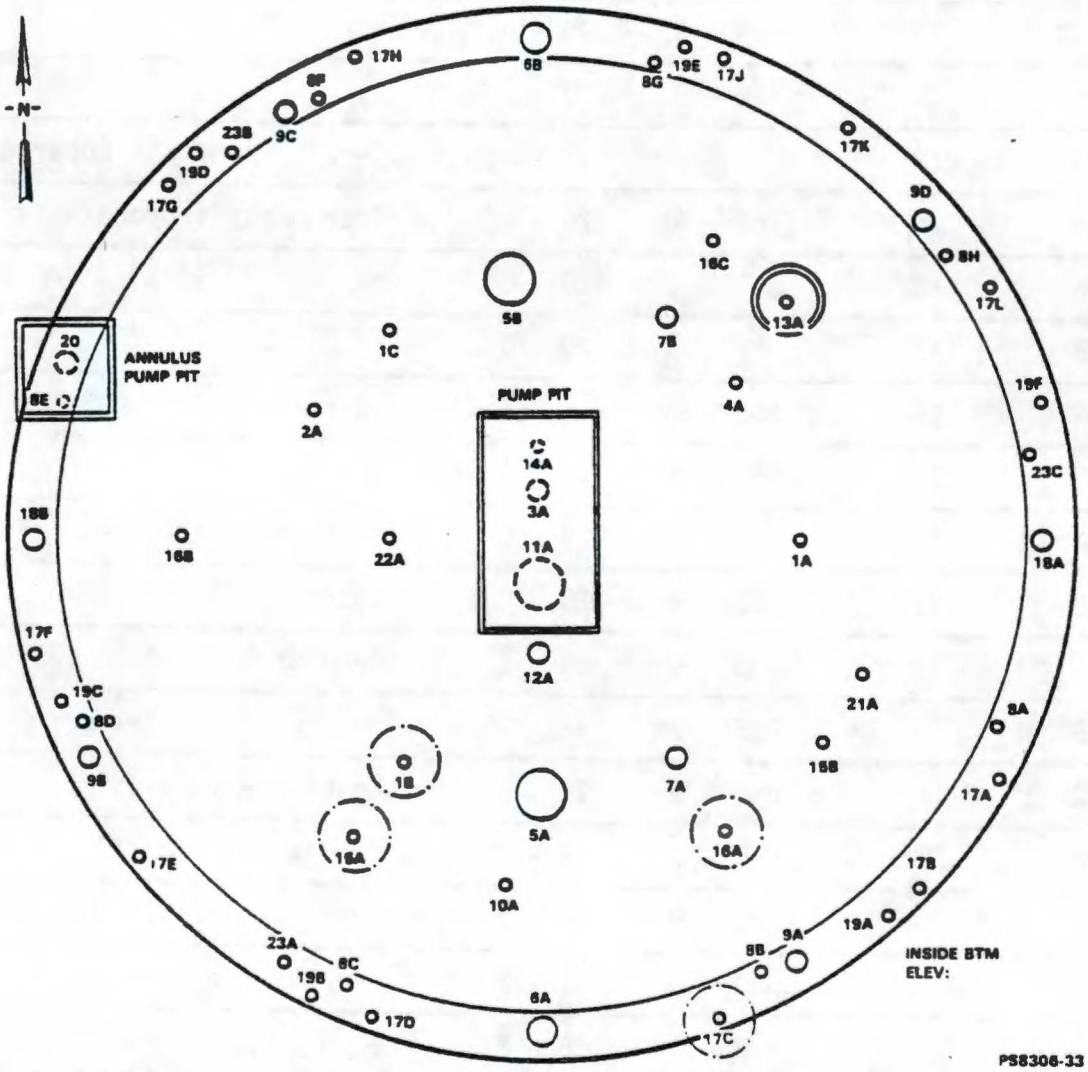
Tank No. AN 103.



Tank No. AN 103.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	20 - 0	SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Central pump pit supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	nf
B	42		20 - 0	nf
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12		20 - 0	Tank ventilation
B	12	668 - 9	20 - 0	Spare
8A	4	668 - 9	38 - 2	Annulus air inlet
B	4	668 - 9	38 - 2	Annulus air inlet
C	4	668 - 9	38 - 2	Annulus air inlet
D	4	668 - 9	38 - 2	Annulus air inlet
E	4	668 - 9	38 - 2	Annulus air inlet
F	4	668 - 9	38 - 2	Annulus air inlet
G	4	668 - 9	38 - 2	Annulus air inlet
H	4	668 - 9	38 - 2	Annulus air inlet
9A	8	668 - 9	38 - 4	Annulus air outlet
B	8	668 - 9	38 - 4	Annulus air outlet
C	8	668 - 9	38 - 4	Annulus air outlet
D	8	668 - 9	38 - 4	Annulus air outlet

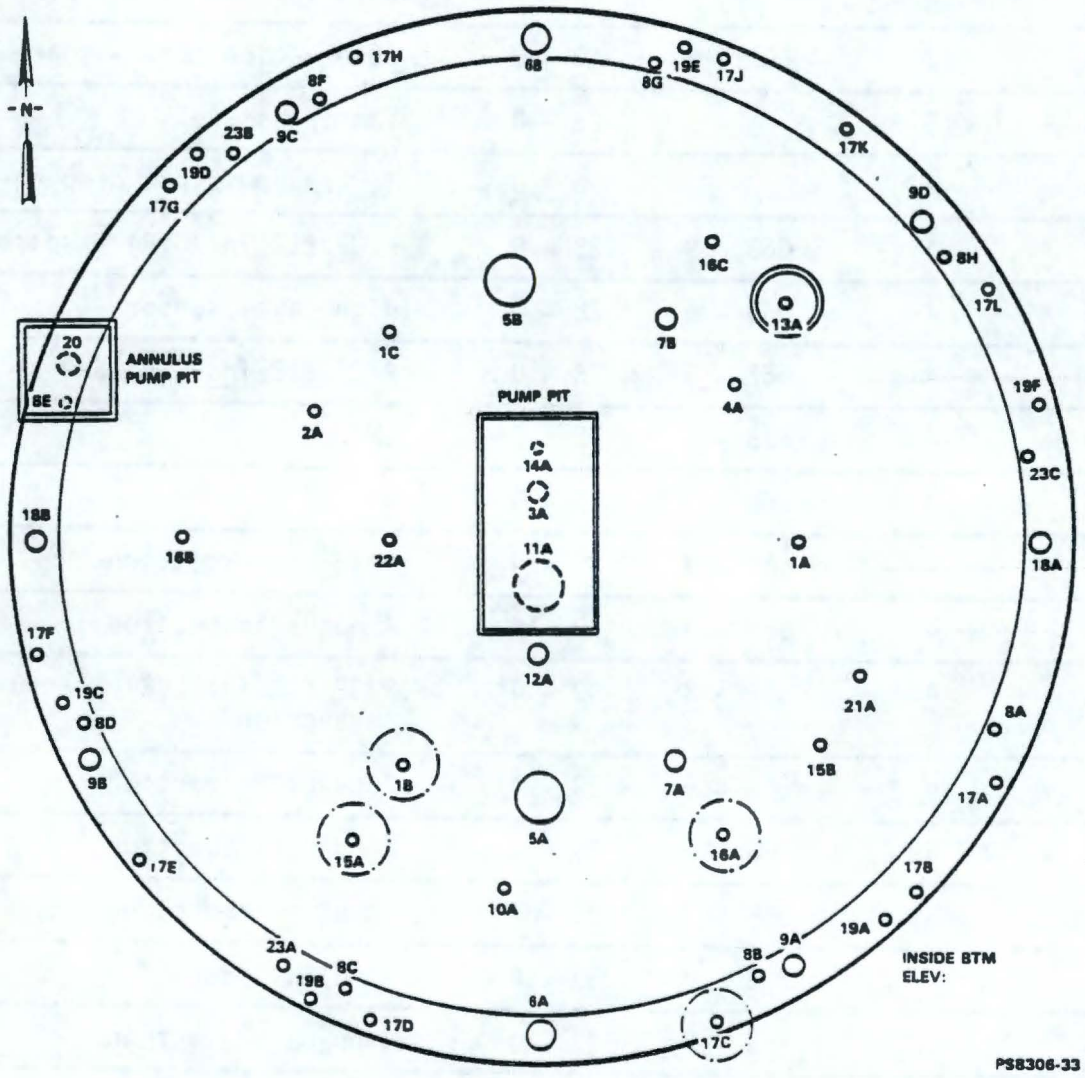
Tank No. AN 103.



Tank No. AN 103.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4	668 - 9	28 - 0	Spare
11A	42		3 - 0	Central pump pit slurry distributor
12A	12	668 - 9	9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	668 - 9	28 - 0	P/CP (12 in. CVR) - spare
B	4	668 - 9	28 - 0	High level sensor
16A	4	667 - 3	28 - 0	P/CP (12 in. CVR) SMP
B	4	668 - 9	28 - 0	SMP
C	4	668 - 9	28 - 0	SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	668 - 9	39 - 4	Annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	668 - 9	39 - 4	Annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	668 - 9	39 - 4	Annulus inspection
L	4	668 - 9	39 - 4	Annulus inspection
18A	12	668 - 9	38 - 9	Annulus access
B	12	668 - 9	38 - 9	Annulus access

Tank No. AN 103.



Tank No. AN 103.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
19A	4	668 - 9	39 - 4	TBX 103-4
B	4	668 - 9	39 - 4	TBX 103-5 - no field ID
C	4	668 - 9	39 - 4	TBX 103-6
D	4	668 - 9	39 - 4	TBX 103-1
E	4	668 - 9	39 - 4	TBX 103-2
F	4	668 - 9	39 - 4	TBX 103-3
20A	12		38 - 9	Annulus pump
21A	4	668 - 9	28 - 0	Spare
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 103-4
B	4	668 - 9	38 - 9	Leak detector 103-2
C	4	668 - 9	38 - 9	Leak detector 103-3

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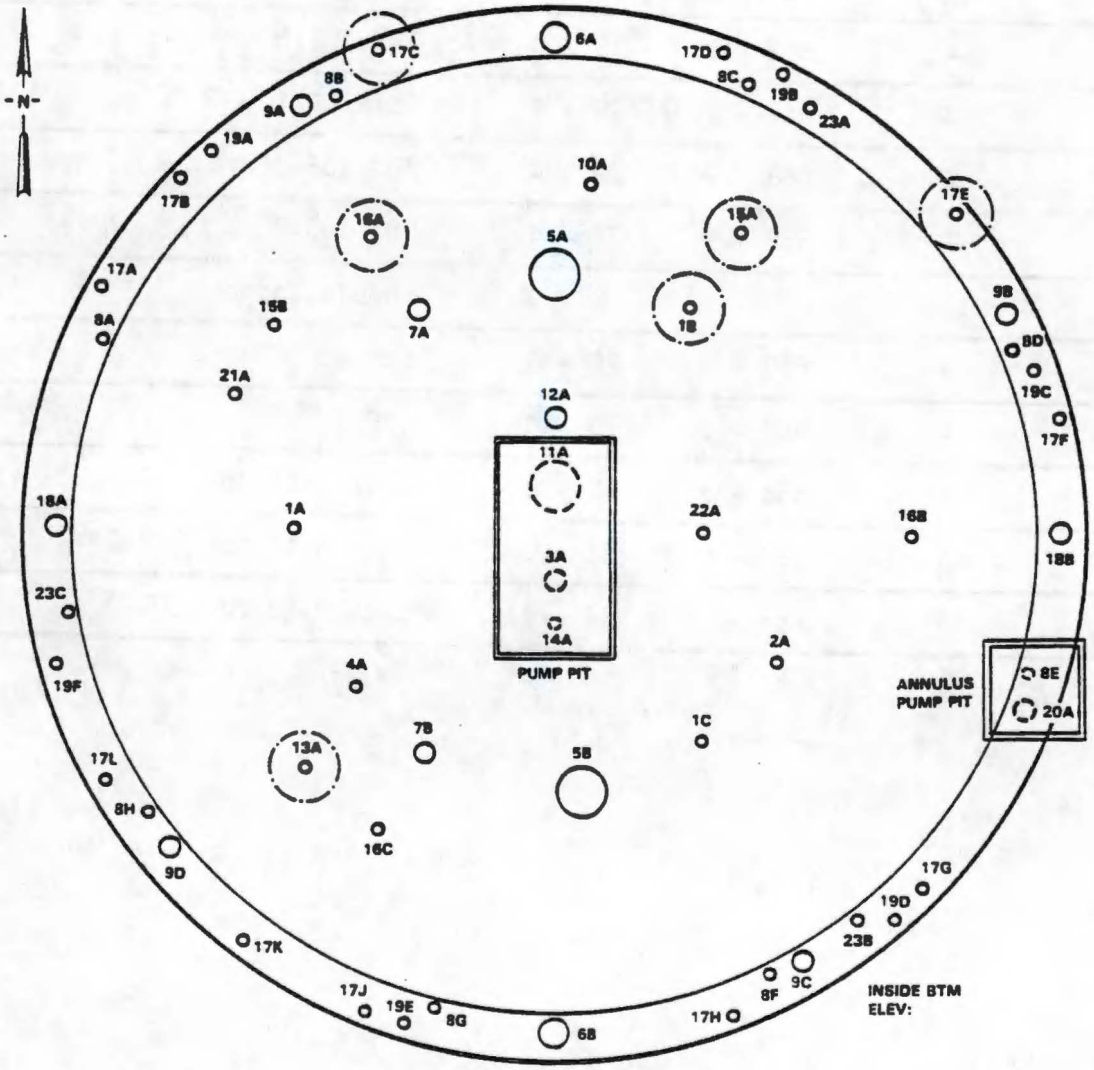
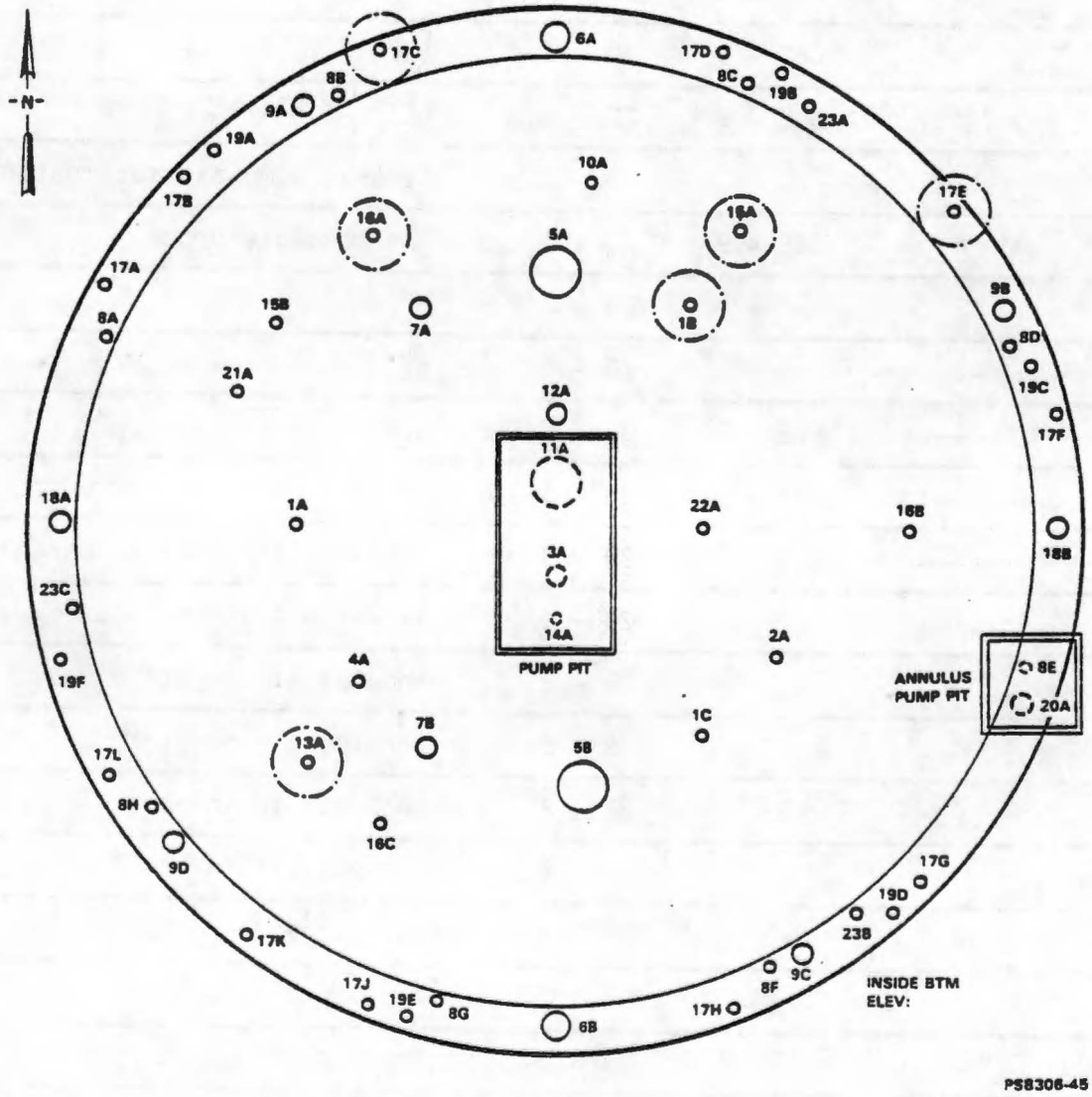
Tank No. AN 104.



Tank No. AN 104.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	20 - 0	SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Central pump pit supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	nf
B	42		20 - 0	nf
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12	667 - 3	20 - 0	P/CP (18 in. CVR) - spare
B	12		20 - 0	Tank ventilation
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

Tank No. AN 104.

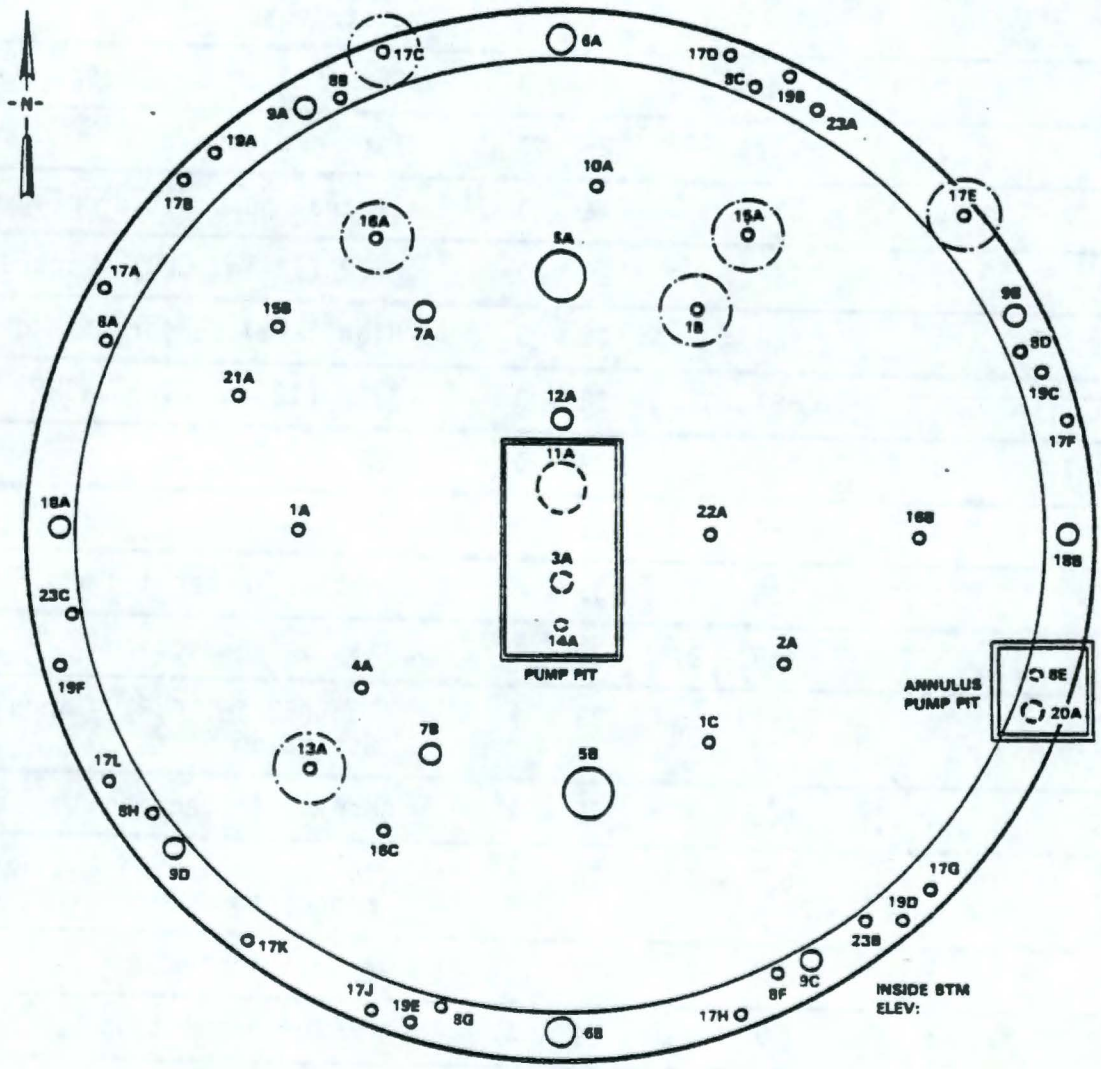


Tank No. AN 104.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4	668 - 9	28 - 0	Spare
11A	42		3 - 0	Central pump pit slurry distributor
12A	12	668 - 9	9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	667 - 3	28 - 0	P/CP (12 in. CVR) - spare
B	4	668 - 9	28 - 0	High level sensor (field ID 16B)
16A	4	667 - 3	28 - 0	P/CP (12 in. CVR) - SMP
B	4	668 - 9	28 - 0	SMP
C	4	668 - 9	28 - 0	SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	668 - 9	39 - 4	Annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	668 - 9	39 - 4	Annulus inspection
L	4	668 - 9	39 - 4	Annulus inspection
18A	12	668 - 9	38 - 9	Annulus access

9112362419923

Tank No. AN 104.



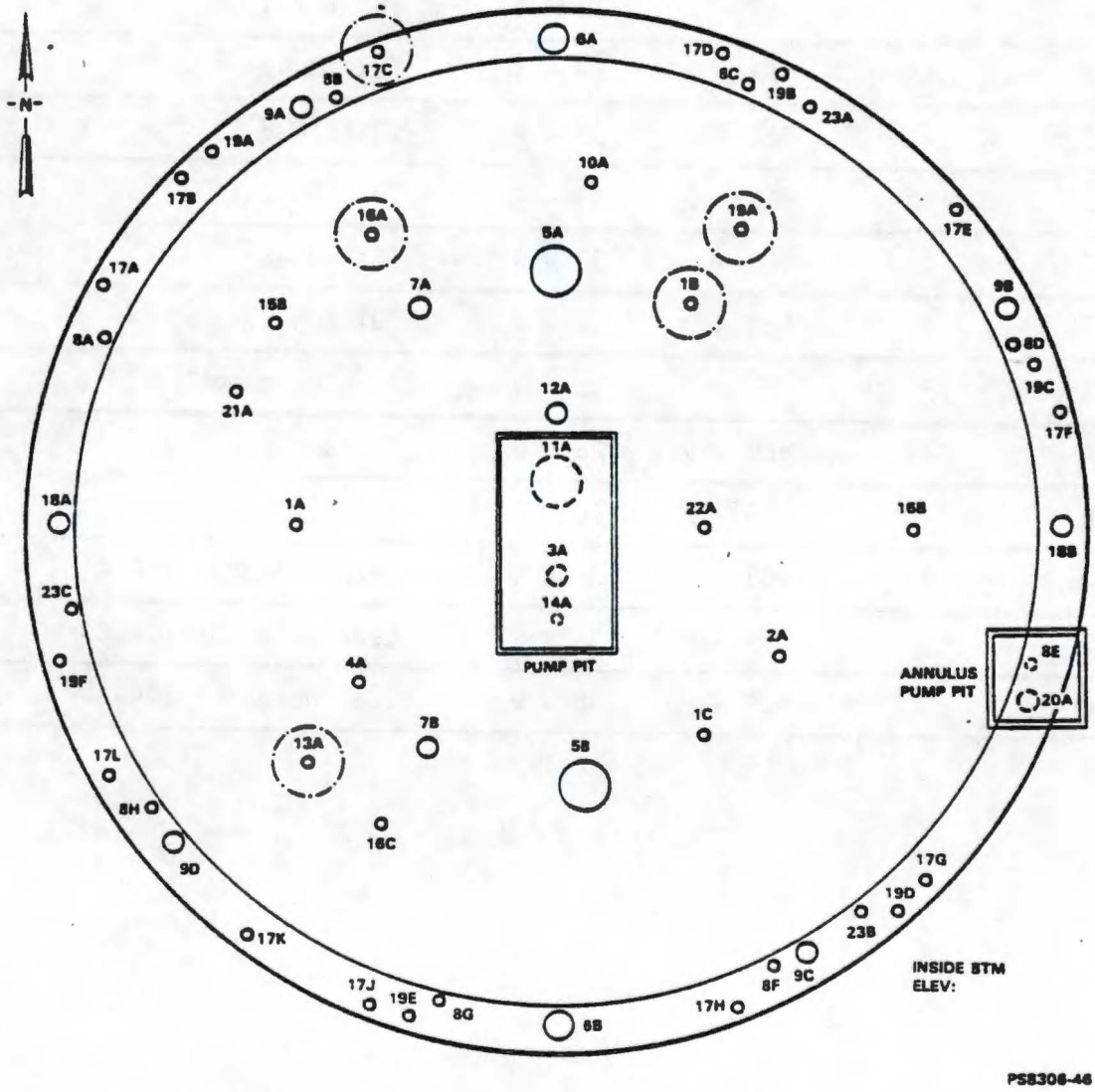
9 1 1 2 3 6 4 1 9 2 4

Tank No. AN 104.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
B	12	668 - 9	38 - 9	Annulus access
19A	4	668 - 9	39 - 4	TBX 104-4
B	4	668 - 9	39 - 4	TBX 104-5
C	4	668 - 9	39 - 4	TBX 104-6
D	4	668 - 9	39 - 4	TBX 104-1
E	4	668 - 9	39 - 4	TBX 104-2
F	4	668 - 9	39 - 4	TBX 104-3
20A	12		38 - 9	Annulus pump
21A	4	668 - 9	28 - 0	Spare
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 104-4
B	4	668 - 9	38 - 9	Leak detector 104-2
C	4	668 - 9	38 - 9	Leak detector 104-3

9 1 1 2 3 6 1 1 9 2 5

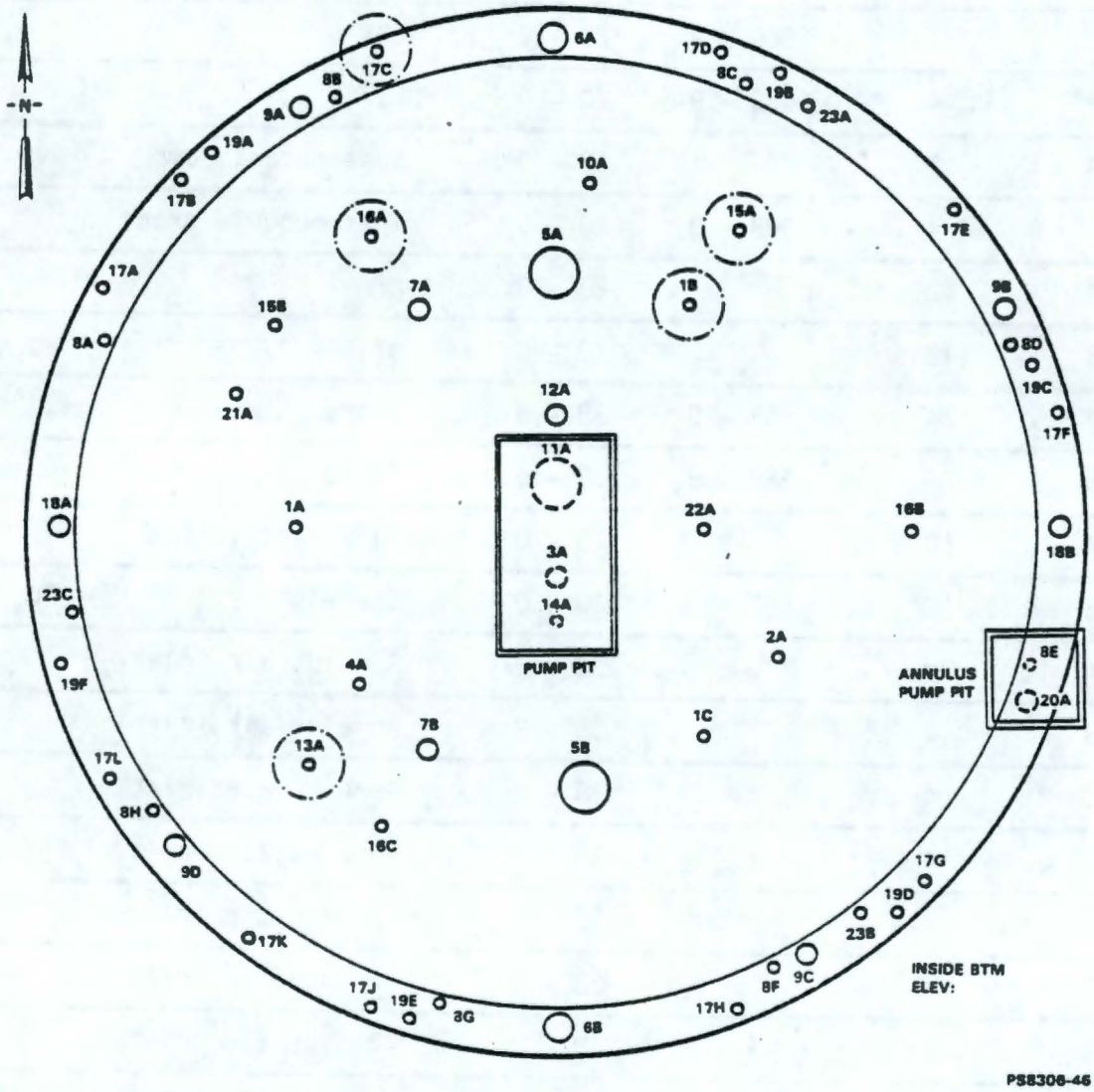
Tank No. AN 105.



Tank No. AN 105.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	20 - 0	SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	nf
B	42		20 - 0	nf
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12		20 - 0	Tank ventilation
B	12	668 - 9	20 - 0	Spare
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

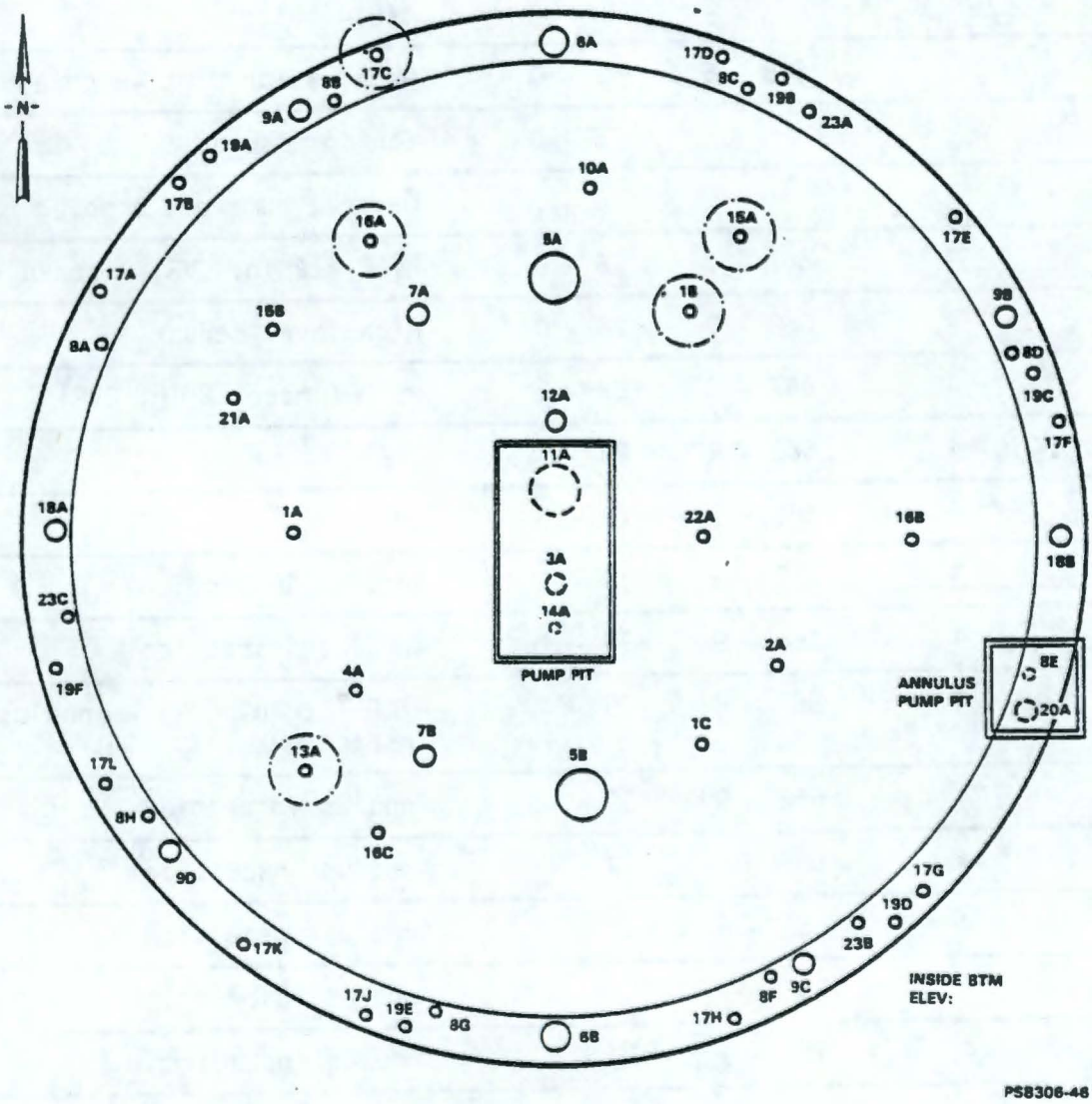
Tank No. AN 105.



Tank No. AN 105.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4	668 - 9	28 - 0	Spare
11A	42		3 - 0	Central pump pit slurry distributor
12A	12	668 - 9	9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	667 - 3	28 - 0	P/CP (12 in. CVR) - spare
B	4	668 - 9	28 - 0	High level sensor
16A	4	667 - 3	28 - 0	P/CP (under 12 in. CVR) - SMP
B	4	668 - 9	28 - 0	SMP
C	4	668 - 9	28 - 0	SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	668 - 9	39 - 4	Annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	668 - 9	39 - 4	Annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	668 - 9	39 - 4	Annulus inspection
L	4	668 - 9	39 - 4	Annulus inspection
18A	12	668 - 9	38 - 9	Annulus access
B	12	668 - 9	38 - 9	Annulus access

Tank No. AN 105.

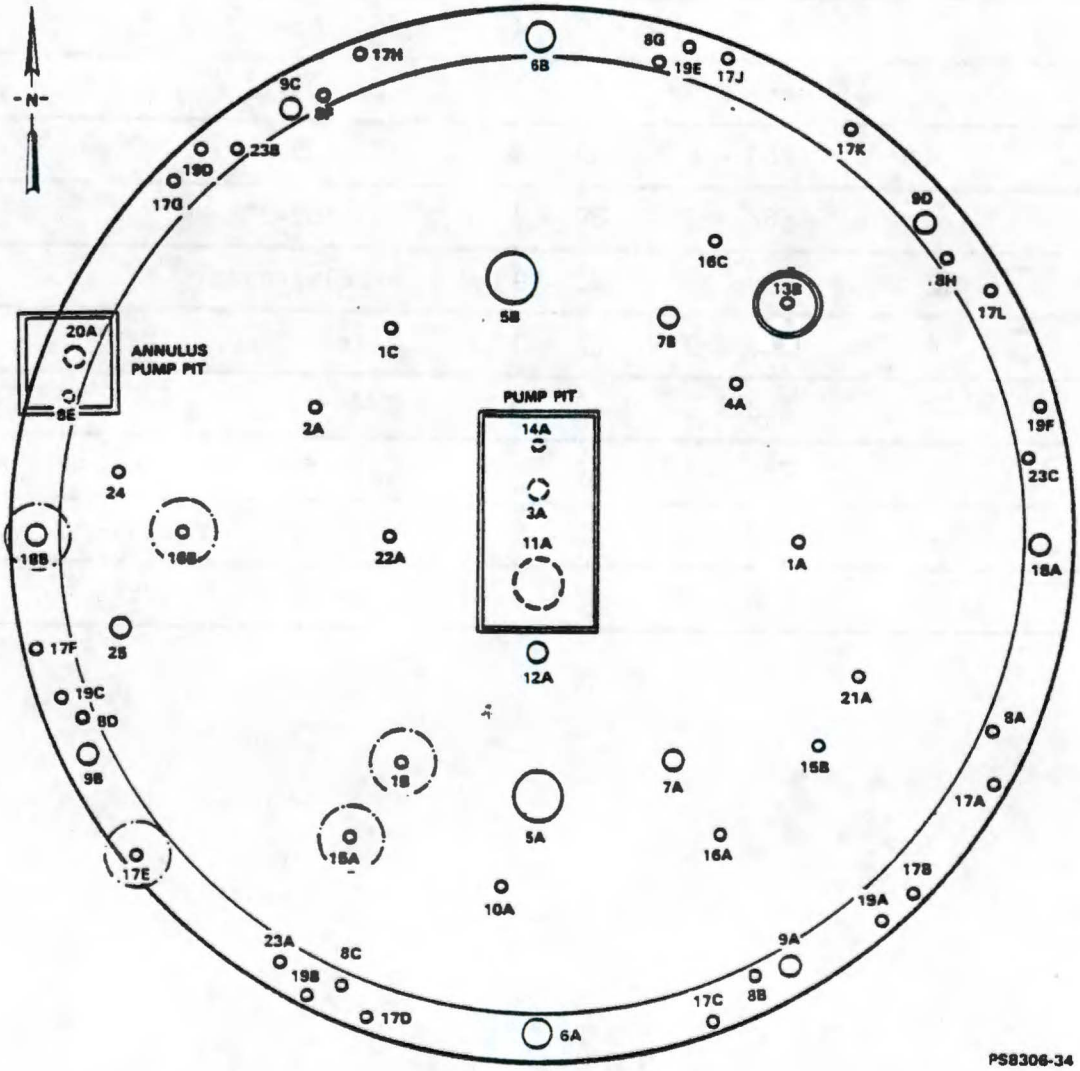


9 1 1 2 3 6 1 1 9 3 0

Tank No. AN 105.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
19A	4	668 - 9	39 - 4	TBX 105-4
B	4	668 - 9	39 - 4	TBX 105-5
C	4	668 - 9	39 - 4	TBX 105-6
D	4	668 - 9	39 - 4	TBX 105-1
E	4	668 - 9	39 - 4	TBX 105-2
F	4	668 - 9	39 - 4	TBX 105-3
20A	12		38 - 9	Annulus pump
21A	4	668 - 9	28 - 0	Spare
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 105-4
B	4	668 - 9	38 - 9	Leak detector 105-2
C	4	668 - 9	38 - 9	Leak detector 105-3

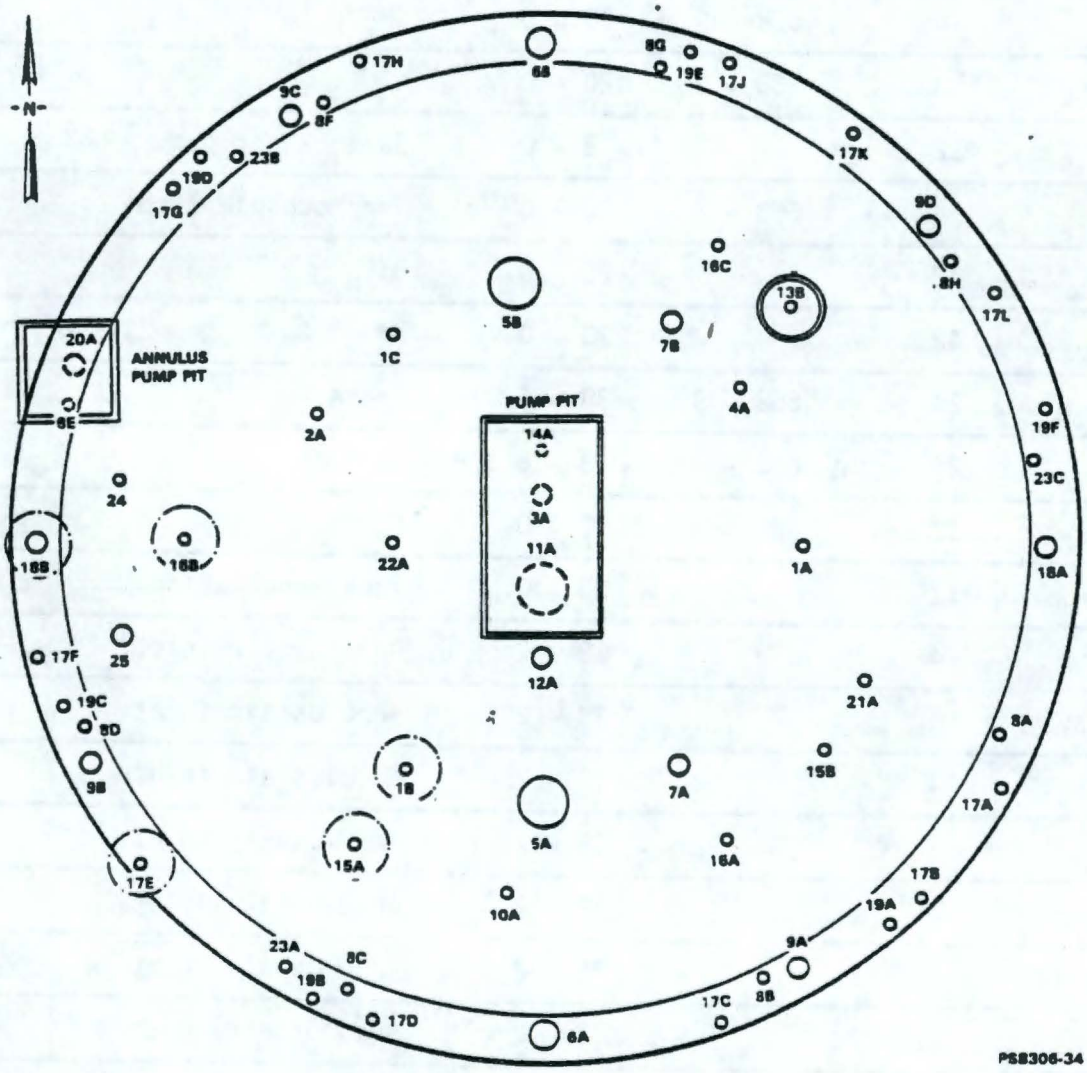
Tank No. AN 106.



Tank No. AN 106.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	20 - 0	SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	nf
B	42		20 - 0	nf
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12	668 - 9	20 - 0	Spare
B	12		20 - 0	Tank ventilation
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

Tank No. AN 106.

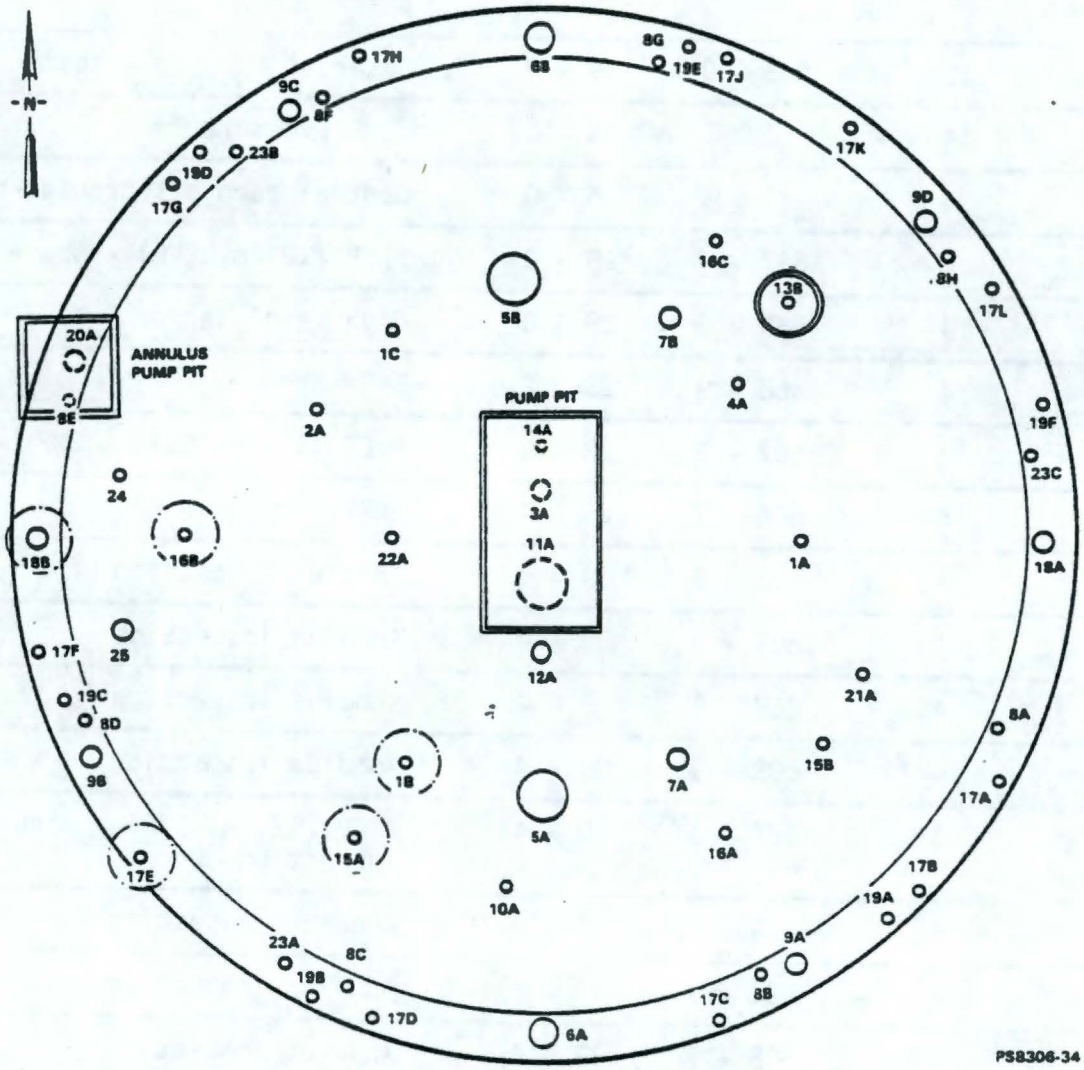


Tank No. AN 106.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4	668 - 9	28 - 0	Spare
11A	42		3 - 0	Central pump pit slurry distributor
12A	12	668 - 9	9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	667 - 3	28 - 0	P/CP (12 in. CVR) - spare
B	4	668 - 9	28 - 0	High level sensor
16A	4	668 - 9	28 - 0	SMP
B	4	667 - 3	28 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	28 - 0	SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	668 - 9	39 - 4	Annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	668 - 9	39 - 4	Annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	668 - 9	39 - 4	Annulus inspection
L	4	668 - 9	39 - 4	Annulus inspection
18A	12	668 - 9	38 - 9	Annulus access

9 1 1 2 3 5 4 1 9 3 5

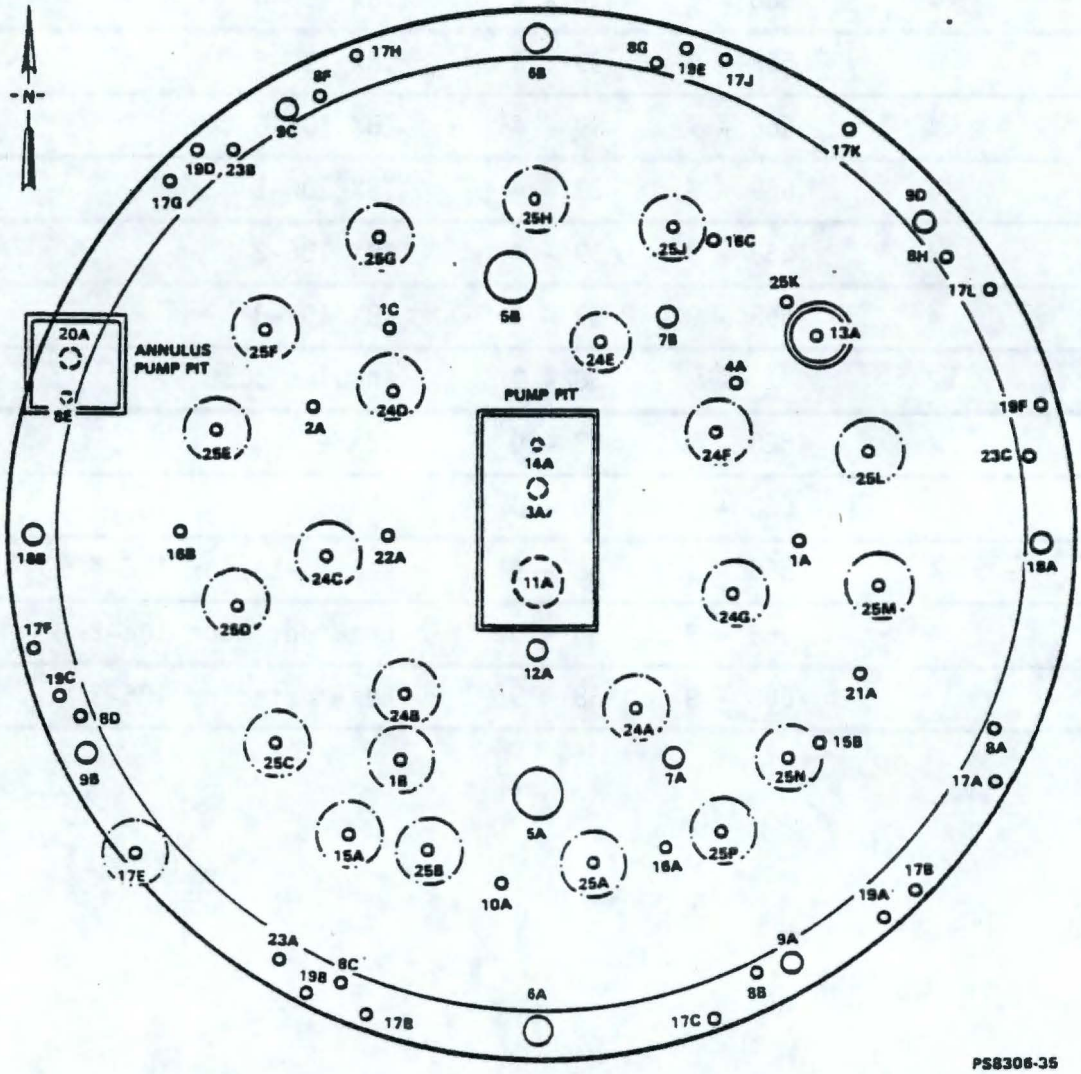
Tank No. AN 106.



Tank No. AN 106.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
B	12	667 - 3	38 - 9	P/CP (18 in. CVR) - annulus access
19A	4	668 - 9	39 - 4	TBX 106-4
B	4	668 - 9	39 - 4	TBX 106-5
C	4	668 - 9	39 - 4	TBX 106-6
D	4	668 - 9	39 - 4	TBX 106-1
E	4	668 - 9	39 - 4	TBX 106-2
F	4	668 - 9	39 - 4	TBX 106-3
20A	12		38 - 9	Annulus pump
21A	4	668 - 9	28 - 0	Spare
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 106-5
B	4	668 - 9	38 - 9	Leak detector 106-2
C	4	668 - 9	38 - 9	Leak detector 106-3

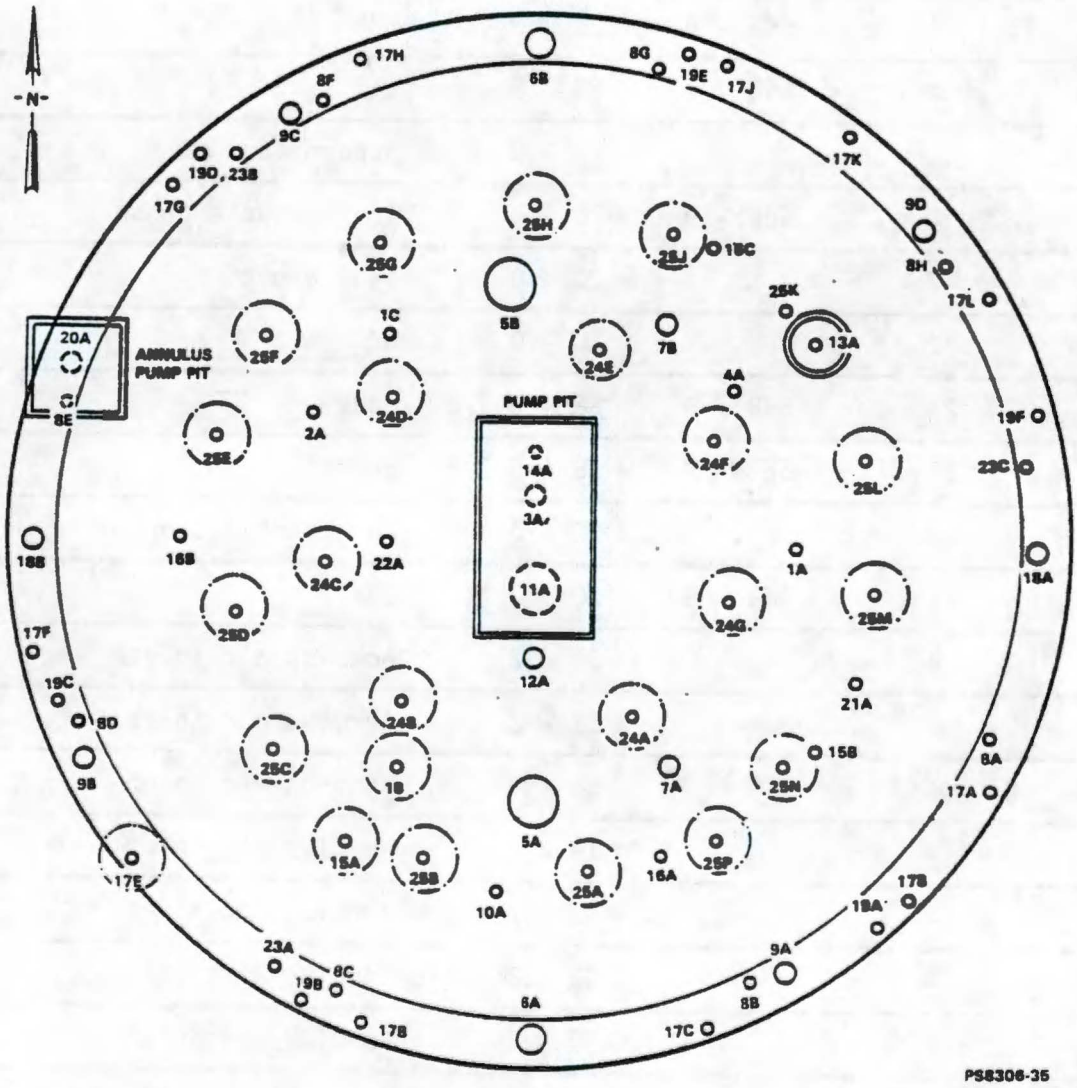
Tank No. AN 107.



Tank No. AN 107.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
1A	4	668 - 9	20 - 0	SMP
B	4	667 - 3	20 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	20 - 0	SMP
2A	4	668 - 9	20 - 0	LIT
3A	12		3 - 0	Supernatant pump
4A	4	668 - 9	20 - 0	Thermocouple probe
5A	42		20 - 0	Sluice pit
B	42		20 - 0	nf
6A	24	668 - 9	38 - 6 3/8	Spare
B	24	668 - 9	38 - 6 3/8	Spare
7A	12		20 - 0	Tank ventilation
B	12	668 - 9	20 - 0	Spare
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

Tank No. AN 107.



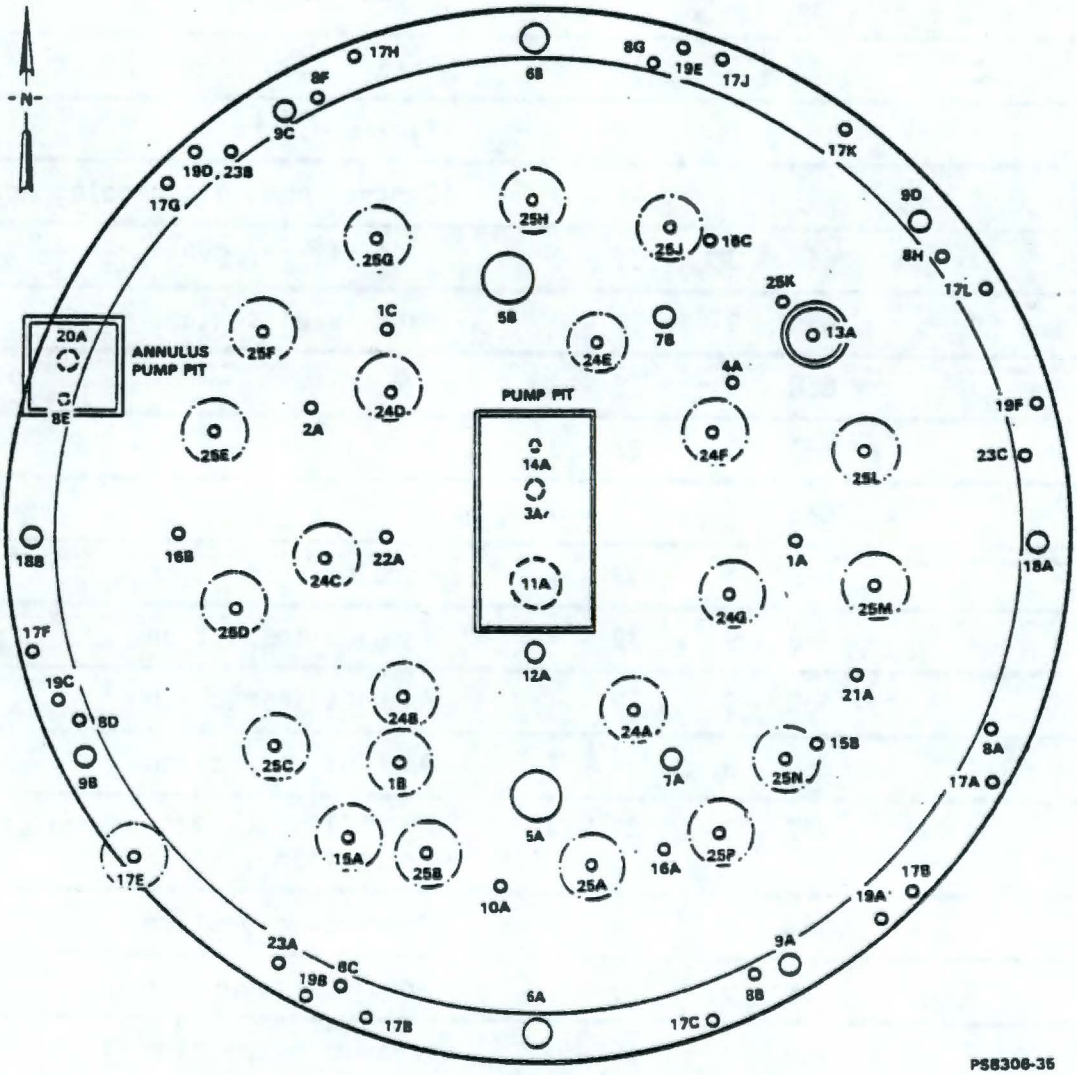
PS8306-35

Tank No. AN 107.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
10A	4	668 - 9	28 - 0	Spare
11A	42		3 - 0	Central pump pit slurry distributor
12A	12	668 - 9	9 - 0	Observation port - spare
13A	4		28 - 0	Tank pressure
14A	4		6 - 0	Central pump pit dropleg nozzle
15A	4	667 - 3	28 - 0	P/CP (12 in. CVR) - spare
B	4	668 - 9	28 - 0	High level sensor
16A	4	668 - 9	28 - 0	SMP
B	4	667 - 3	28 - 0	P/CP (12 in. CVR) - SMP
C	4	668 - 9	28 - 0	SMP
17A	4	668 - 9	39 - 4	Annulus inspection
B	4	668 - 9	39 - 4	Annulus inspection
C	4	668 - 9	39 - 4	Annulus inspection
D	4	668 - 9	39 - 4	Annulus inspection
E	4	667 - 3	39 - 4	P/CP (12 in. CVR) - annulus inspection
F	4	668 - 9	39 - 4	Annulus inspection
G	4	668 - 9	39 - 4	Annulus inspection
H	4	668 - 9	39 - 4	Annulus inspection
J	4	668 - 9	39 - 4	Annulus inspection
K	4	668 - 9	39 - 4	Annulus inspection
L	4	668 - 9	39 - 4	Annulus inspection
18A	12		38 - 9	Annulus access
B	12		38 - 9	Annulus access

9 1 1 2 3 6 4 1 9 4 1

Tank No. AN 107.



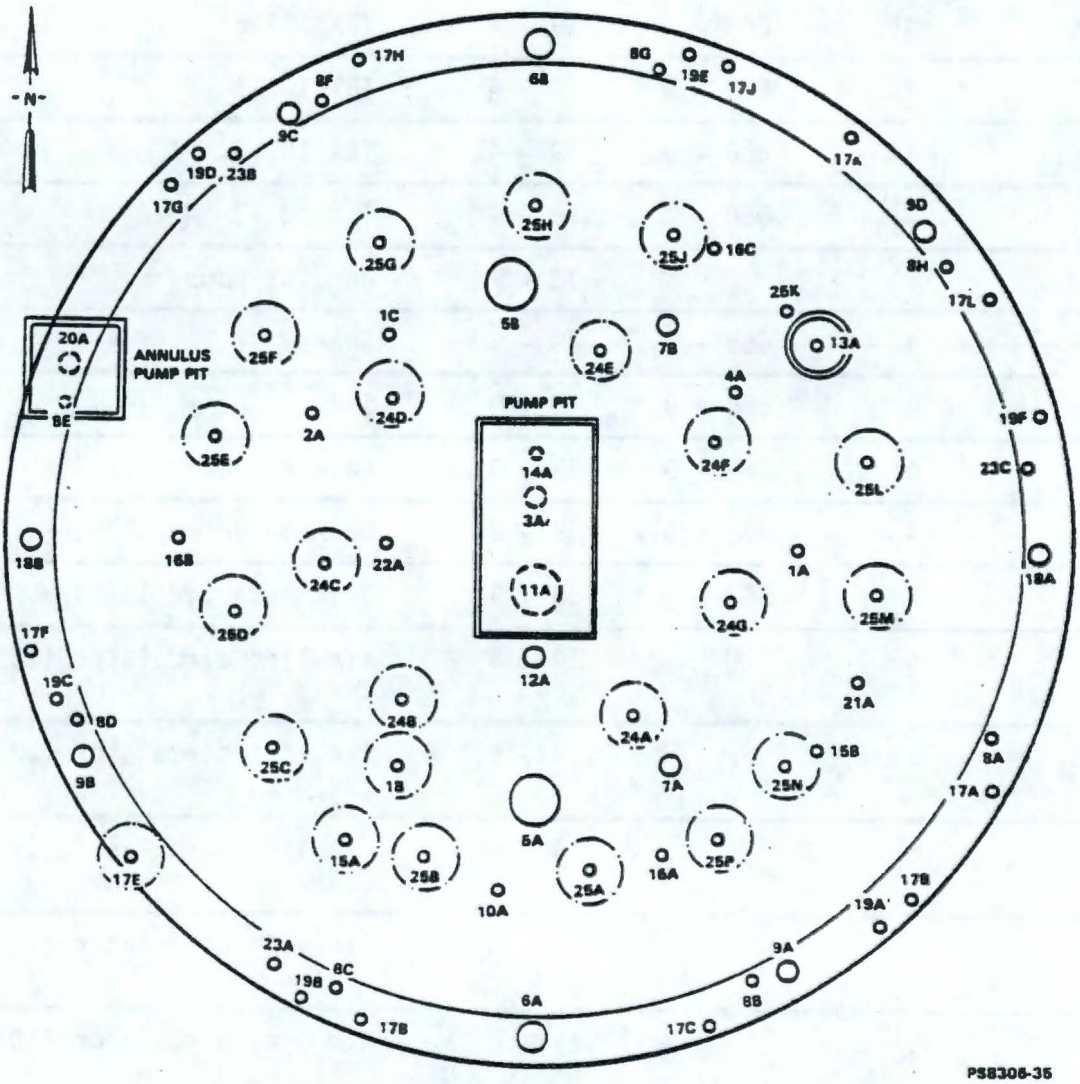
PS8306-35

Tank No. AN 107.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
19A	4	668 - 9	39 - 4	TBX 107-4
B	4	668 - 9	39 - 4	TBX 107-5
C	4	668 - 9	39 - 4	TBX 107-6
D	4	668 - 9	39 - 4	TBX 107-1
E	4	668 - 9	39 - 4	TBX 107-2
F	4	668 - 9	39 - 4	TBX 107-3
20A	12		38 - 9	Annulus pump
21A	4	668 - 9	28 - 0	Spare
22A	4	668 - 9	10 - 0	SMP
23A	4	668 - 9	38 - 9	Leak detector 107-4
B	4	668 - 9	38 - 9	Leak detector 107-2
C	4	668 - 9	38 - 9	Leak detector 107-3
24A	6		14 - 6	Air lift circulator (12 in. CVR)
B	6		14 - 6	Air lift circulator (12 in. CVR)
C	6		14 - 6	Air lift circulator (12 in. CVR)
D	6		14 - 6	Air lift circulator (12 in. CVR)
E	6		14 - 6	Air lift circulator (12 in. CVR)
F	6		14 - 6	Air lift circulator (12 in. CVR)
G	6		14 - 6	Air lift circulator (12 in. CVR)

9112361943

Tank No. AN 107.

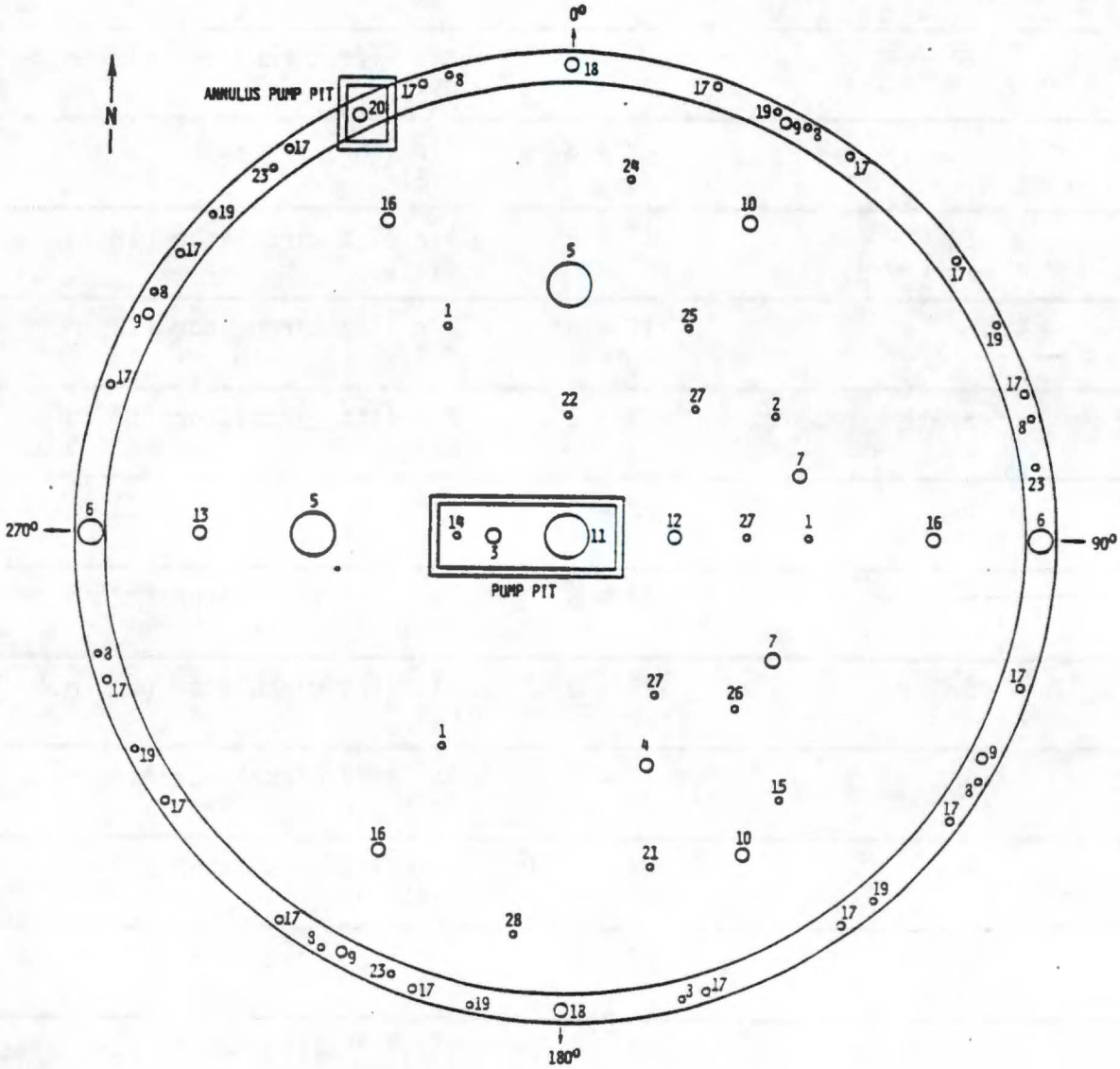


Tank No. AN 107.

Riser	Size (in. dia.)	Elevation (ft - in.)	Radius (ft - in.)	Function/planned use
25A	6		27 - 8	Air lift circulator (12 in. CVR)
B	6		27 - 8	Air lift circulator (12 in. CVR)
C	6		27 - 8	Air lift circulator (12 in. CVR)
D	6		27 - 8	Air lift circulator (12 in. CVR)
E	6		27 - 8	Air lift circulator (12 in. CVR)
F	6		27 - 8	Air lift circulator (12 in. CVR)
G	6		27 - 8	Air lift circulator (12 in. CVR)
H	6		27 - 8	Air lift circulator (12 in. CVR)
J	6		27 - 8	Air lift circulator (12 in. CVR)
K	6		27 - 8	Air lift circulator (12 in. CVR)
L	6		27 - 8	Air lift circulator (12 in. CVR)
M	6		27 - 8	Air lift circulator (12 in. CVR)
N	6		27 - 8	Air lift circulator (12 in. CVR)
P	6		27 - 8	Air lift circulator (12 in. CVR)

9 1 1 2 3 6 4 1 9 4 5

Tank No. AP 101.

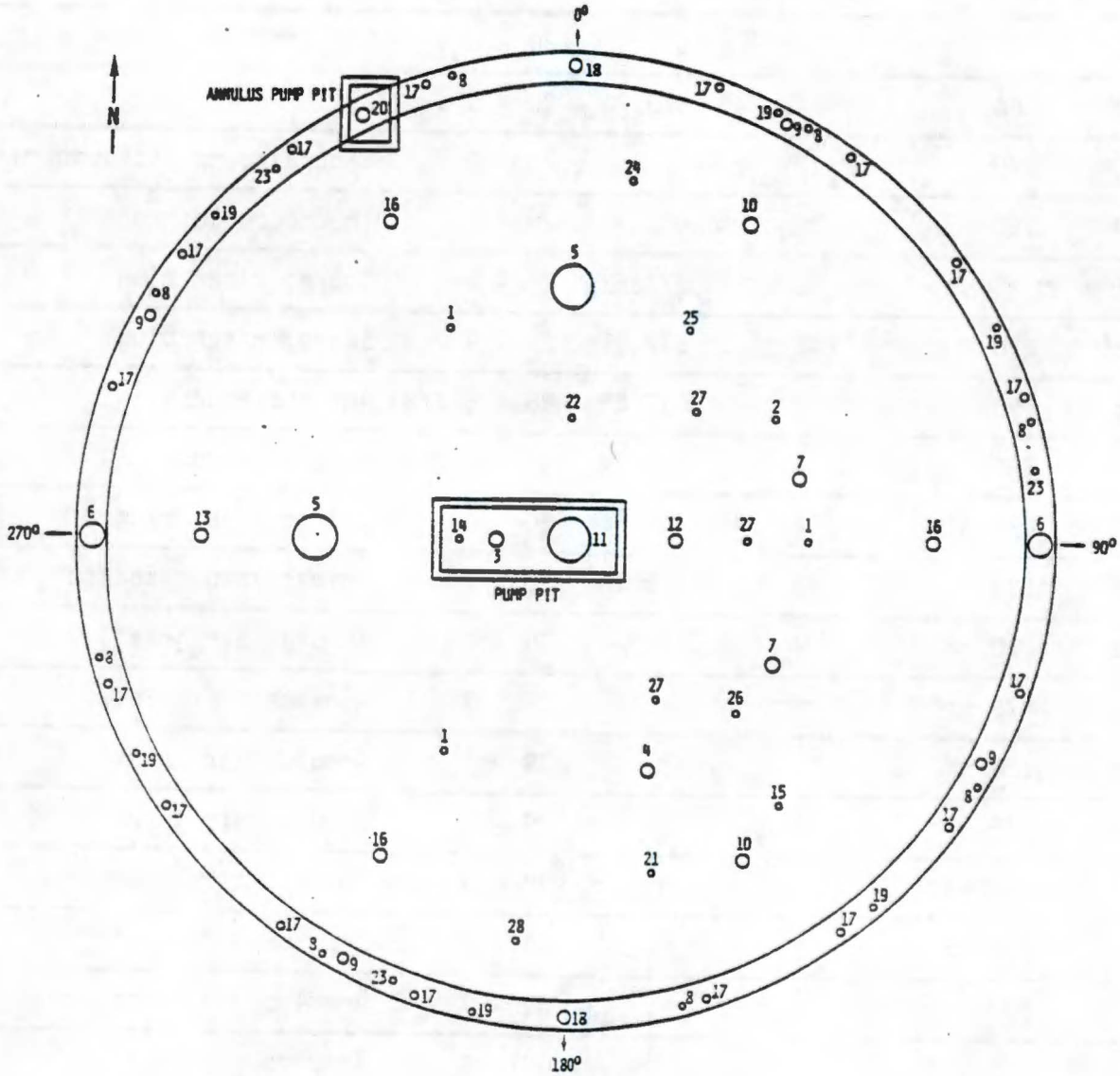


Tank No. AP 101.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	90	4	678.12	20 - 0	SMP (no tape)
1	210	4	678.12	20 - 0	SMP (no tape)
1	330	4	678.12	20 - 0	SMP (no tape)
2	60	4	679.70	20 - 0	LIT
3	270	12		6 - 0	Central pump pit pump riser
4	160	12	676.70	20 - 0	Thermocouple probe
5	0	42	677.52	20 - 9	Spare; riser plug
5	270	42	677.51	20 - 9	Spare; riser plug
6	90	24	677.65	38 - 6 3/8	Annulus access
6	270	24	677.64	38 - 6 3/8	Annulus access
7	75 nf	12		20 - 0	Spare; riser plug
7	120	12	678.10	20 - 0	Primary tank exhaust
8	30 nf	4		39 - 3	Annulus air inlet
8	75 nf	4		39 - 3	Annulus air inlet
8	120 nf	4		39 - 3	Annulus air inlet
8	165 nf	4		39 - 3	Annulus air inlet
8	210 nf	4		39 - 3	Annulus air inlet
8	255 nf	4		39 - 3	Annulus air inlet
8	300 nf	4		39 - 3	Annulus air inlet
8	345 nf	4		39 - 3	Annulus air inlet
9	27 nf	8		38 - 9	Annulus exhaust
9	117 nf	8		38 - 9	Annulus exhaust
9	207 nf	8		38 - 9	Annulus exhaust

9112135119947

Tank No. AP 101.

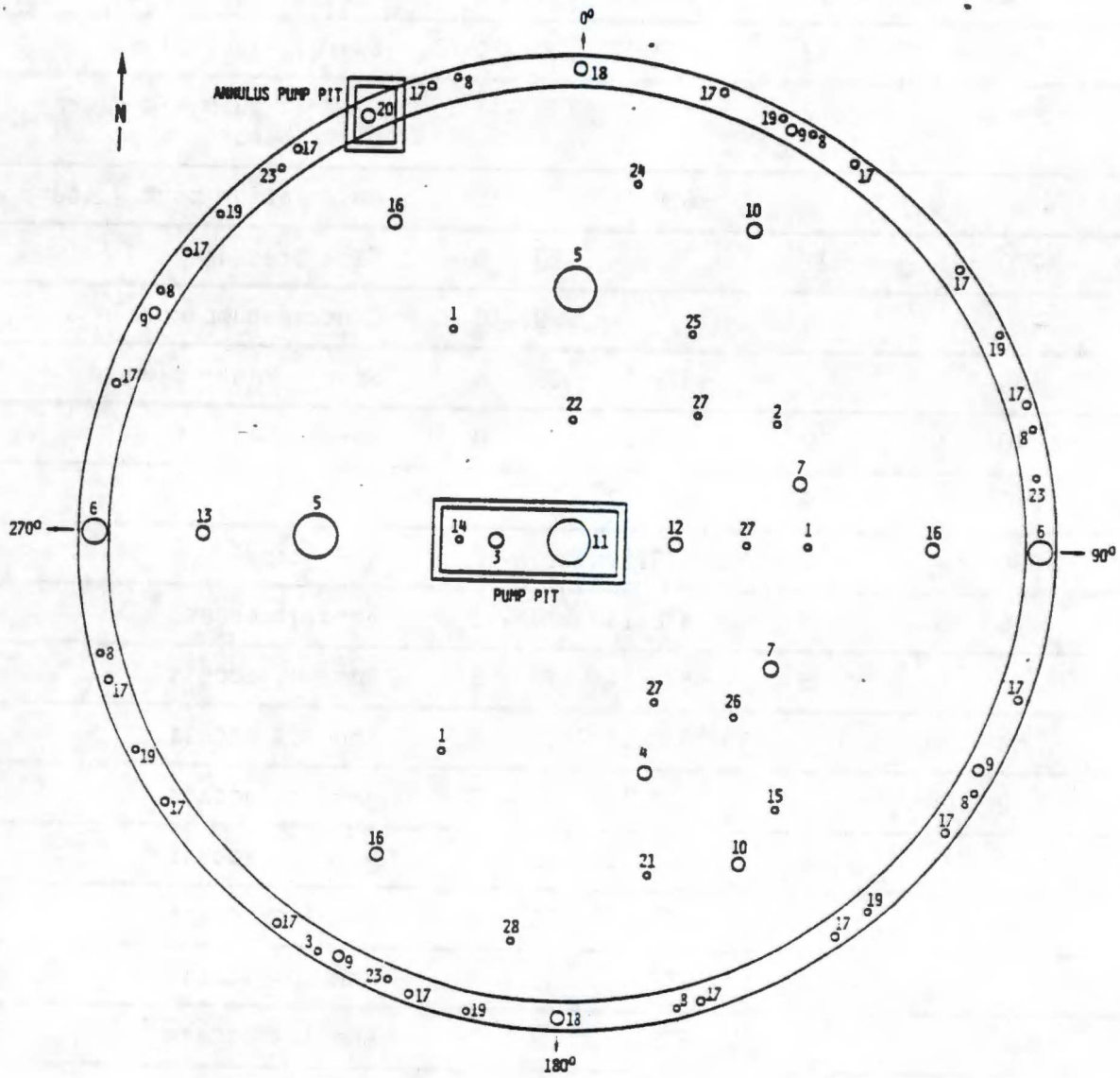


Tank No. AP 101.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	297 nf	8		38 - 9	Annulus exhaust
10	30	12	678.12	30 - 0	Spare; riser plug
10	150	12	678.12	30 - 0	Spare; riser plug
11	Center	42		-	Central pump pit slurry distributor
12	90	12	678.12	9 - 0	Observation port - spare
13	270 nf	12		30 - 0	Tank pressure
14	270	4		9 - 0	Central pump nozzle G
15	140	4	678.13	28 - 0	Spare; riser plug
16	90	12	678.13	30 - 0	SMP (tape)
16	210	12	678.12	30 - 0	SMP (tape)
16	330	12	678.12	30 - 0	SMP (tape)
17	18	6	678.14	38 - 3	Annulus access
17	36	6	678.14	38 - 3	Annulus access
17	54	6	678.14	38 - 3	Annulus access
17	72	6	678.13	38 - 3	Annulus access
17	108	6	678.13	38 - 3	Annulus access
17	126	6	678.13	38 - 3	Annulus access
17	144	6	678.12	38 - 3	Annulus access
17	162	6	678.13	38 - 3	Annulus access
17	198	6	679.70	38 - 3	Annulus access
17	216	6	678.13	38 - 3	Annulus access
17	236	6	678.13	38 - 3	Annulus access
17	252	6	678.13	38 - 3	Annulus access
17	288	6	678.13	38 - 3	Annulus access

9 1 1 2 7 3 4 1 9 4 9

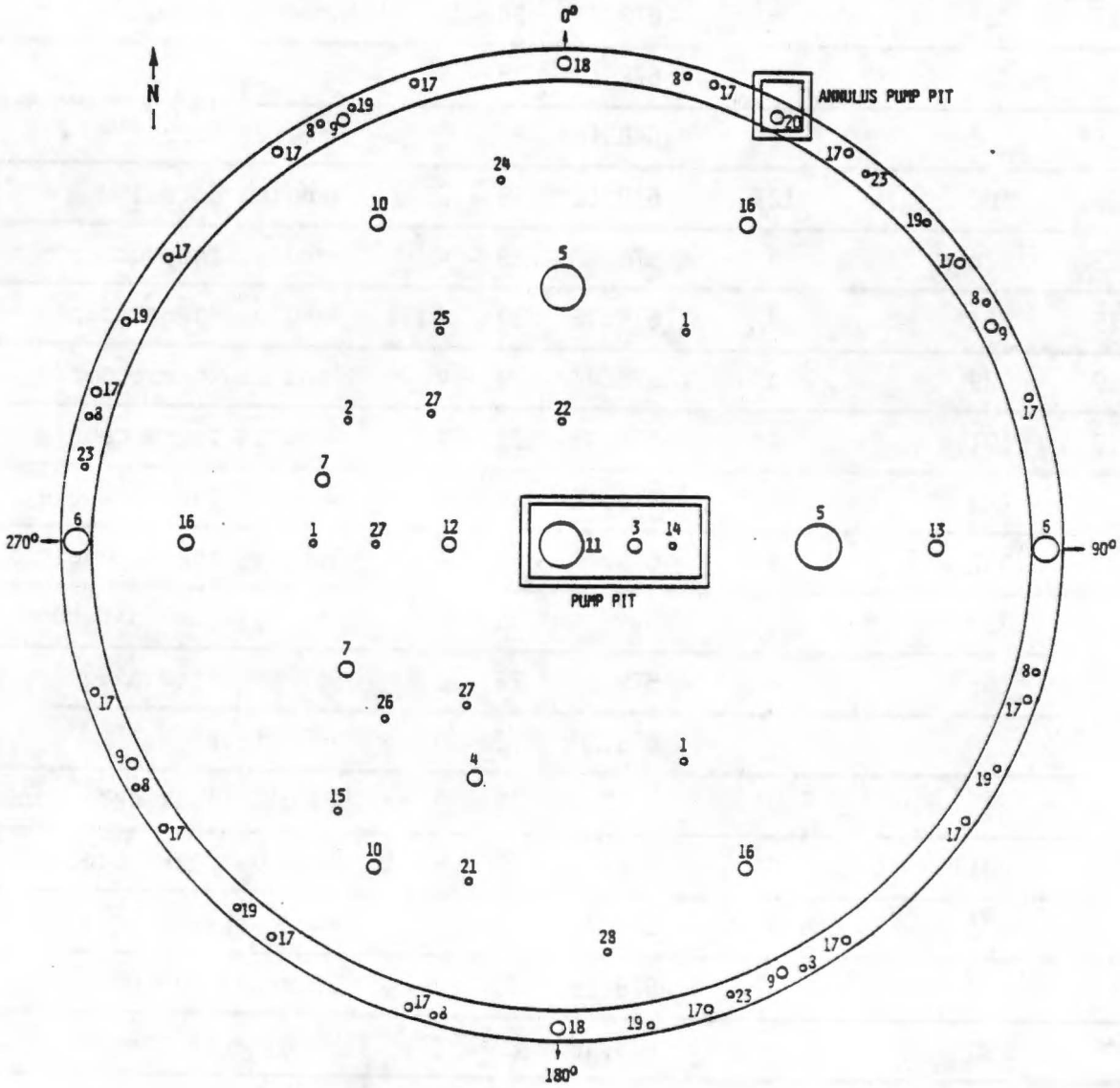
Tank No. AP 101.



Tank No. AP 101.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.14	38 - 3	Annulus access
17	324	6	679.71	38 - 3	Annulus access
17	342	6	678.12	38 - 3	Annulus access
18	0	12	678.16	39 - 0	Annulus access
18	180	12	678.12	39 - 0	Annulus access
19	26	4	676.47	39 - 4	Annulus thermocouple
19	63	4	676.46	39 - 4	Annulus thermocouple
19	139	4	676.47	39 - 4	Annulus thermocouple
19	191	4	676.46	39 - 4	Annulus thermocouple
19	243	4	676.46	39 - 4	Annulus thermocouple
19	312	4	676.47	39 - 4	Annulus thermocouple
20	333	12		38 - 9	Annulus pump pit pump riser
21	165	4	678.13	28 - 0	Spare; riser plug
22	0	4	678.20	10 - 0	SMP (tape)
23	81	4	679.71	38 - 9	Annulus leak detector
23	201	4	679.72	39 - 9	Annulus leak detector
23	321	4	679.70	38 - 9	Annulus leak detector
24	10	4	678.12	30 - 0	Spare; riser plug
25	30	4	676.46	20 - 0	High level sensor
26	135	4	679.70	20 - 0	Spare; riser plug
27	45	4	678.12	15 - 0	Spare; riser plug
27	90	4	678.12	15 - 0	Spare; riser plug
27	150	4	678.11	15 - 0	Spare; riser plug
28	187	4	678.13	33 - 0	Spare; riser plug

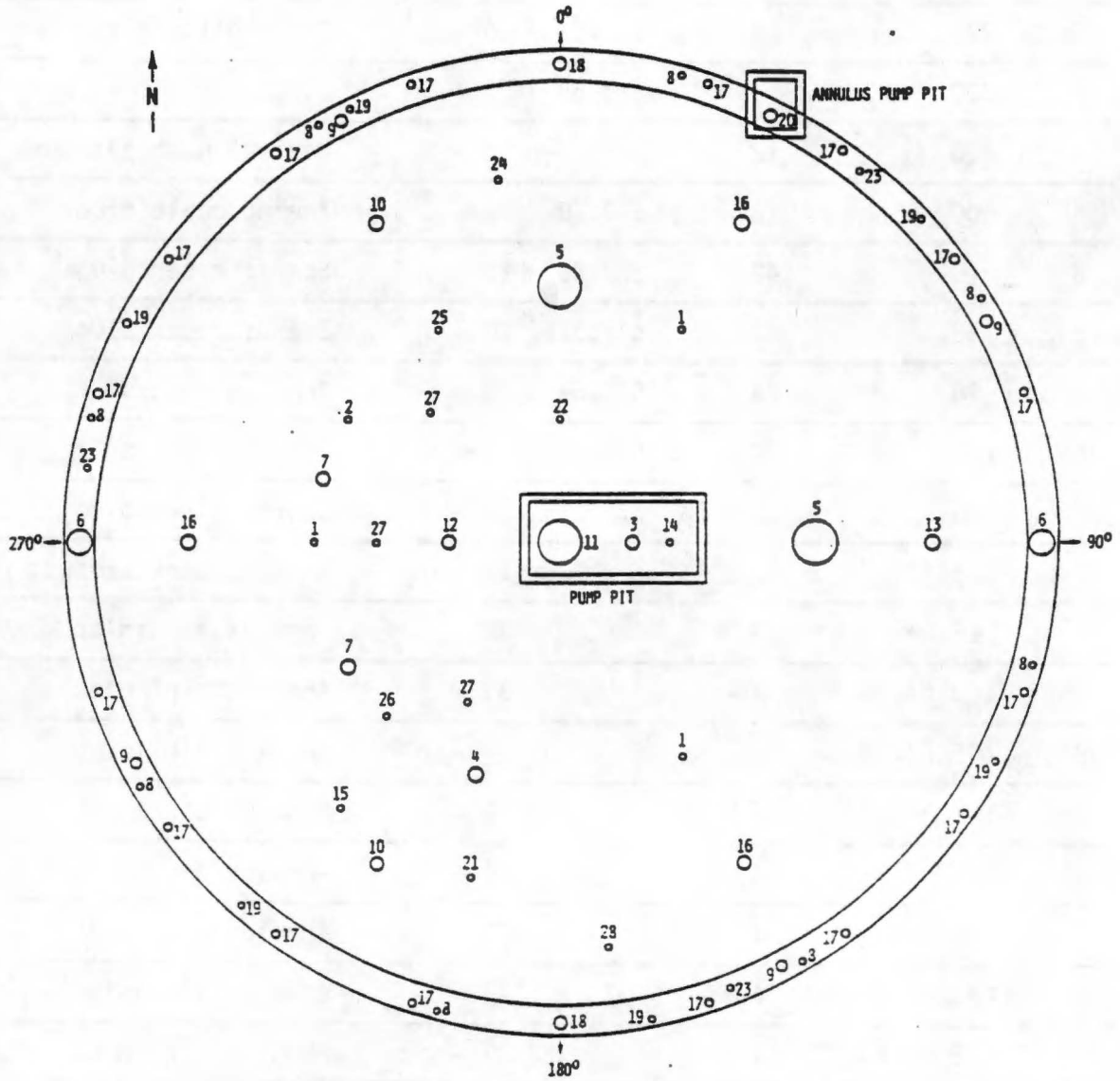
Tank No. AP 102.



Tank No. AP 102.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	30	4	678.12	20 - 0	SMP (no tape)
1	150	4	678.11	20 - 0	SMP (no tape)
1	270	4	678.12	20 - 0	SMP (no tape)
2	300	4	679.68	20 - 0	LIT
3	90	12		6 - 0	Central pump pit pump riser
4	200	12	677.70	20 - 0	Thermocouple probe
5	0	42	677.48	20 - 9	Spare; riser plug
5	90	42	677.51	20 - 9	Spare; riser plug
6	90	24	677.64	38 - 6 3/8	Annulus access
6	270	24	677.65	38 - 6 3/8	Annulus access
7	240	12	678.11	20 - 0	Spare; riser plug
7	285 nf	12		20 - 0	Primary tank exhaust
8	15 nf	4		39 - 3	Annulus air inlet
8	60 nf	4		39 - 3	Annulus air inlet
8	105 nf	4		39 - 3	Annulus air inlet
8	150 nf	4		39 - 3	Annulus air inlet
8	195 nf	4		39 - 3	Annulus air inlet
8	240 nf	4		39 - 3	Annulus air inlet
8	285 nf	4		39 - 3	Annulus air inlet
8	330 nf	4		39 - 3	Annulus air inlet
9	62 nf	8		38 - 9	Annulus exhaust
9	152 nf	8		38 - 9	Annulus exhaust
9	242 nf	8		38 - 9	Annulus exhaust

Tank No. AP 102.

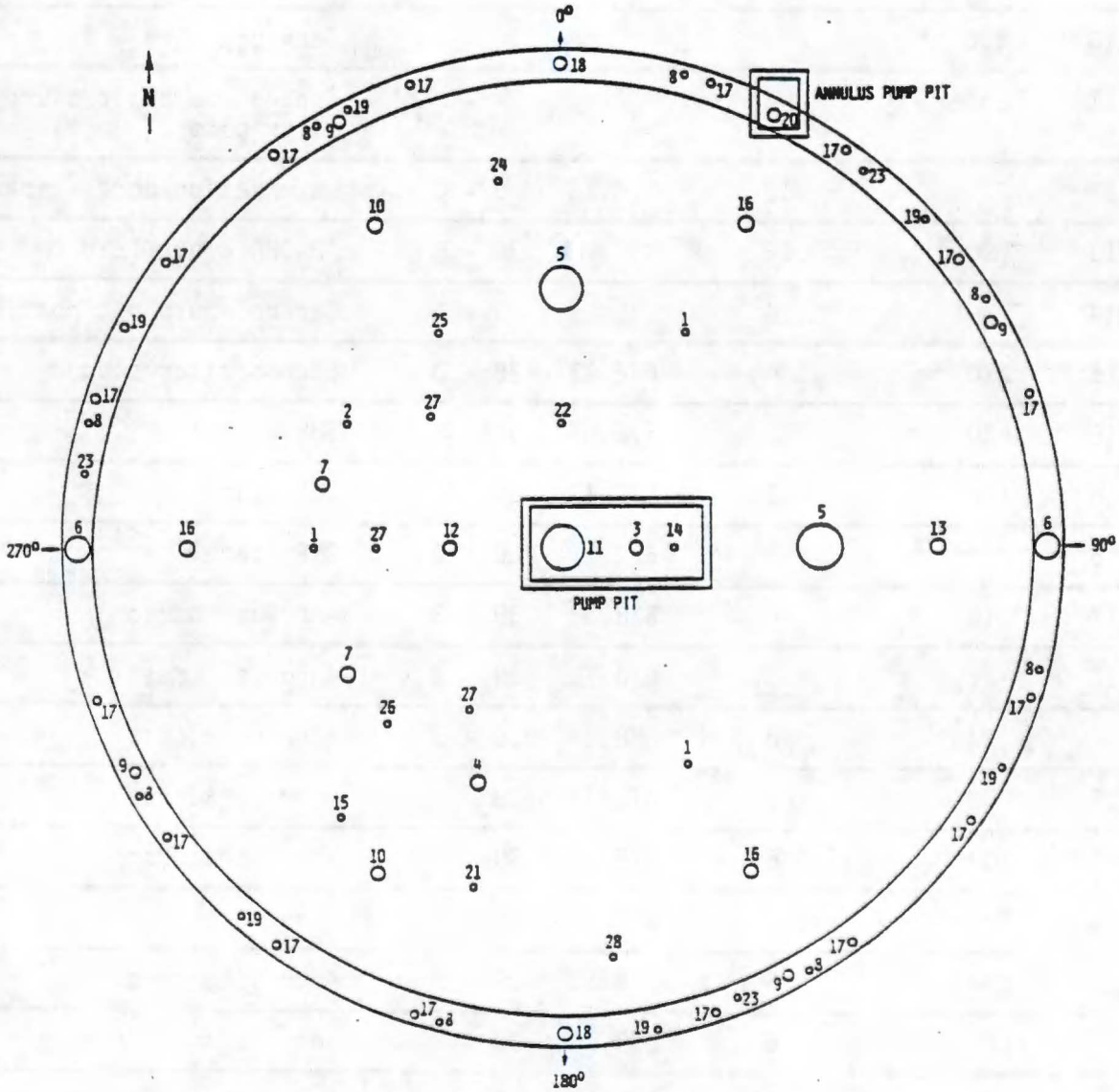


Tank No. AP 102.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	332 nf	8		38 - 9	Annulus exhaust
10	210	12	678.12	30 - 0	Spare; riser plug
10	330 nf	12		30 - 0	Tank pressure
11	Center	42		-	Central pump pit slurry distributor
12	270	12	678.13	9 - 0	Observation port - spare
13	90	12		30 - 0	AP-02D grout feed
14	90	4		9 - 0	Central pump pit nozzle G
15	220	4	678.12	28 - 0	Spare; riser plug
16	30	12	678.07	30 - 0	SMP (tape)
16	150	12	678.13	30 - 0	SMP (tape)
16	270	12	678.11	30 - 0	SMP (tape)
17	18	6	678.13	39 - 3	Annulus access
17	36	6	679.71	39 - 3	Annulus access
17	54	6	678.14	39 - 3	Annulus access
17	72	6	678.14	39 - 3	Annulus access
17	108	6	678.13	39 - 3	Annulus access
17	126	6	678.12	39 - 3	Annulus access
17	144	6	678.13	39 - 3	Annulus access
17	162	6	679.71	39 - 3	Annulus access
17	198	6	678.11	39 - 3	Annulus access
17	216	6	678.11	39 - 3	Annulus access
17	236	6	678.13	39 - 3	Annulus access
17	252	6	678.12	39 - 3	Annulus access
17	288	6	678.12	39 - 3	Annulus access

9 1 1 2 3 6 1 1 9 5 5

Tank No. AP 102.

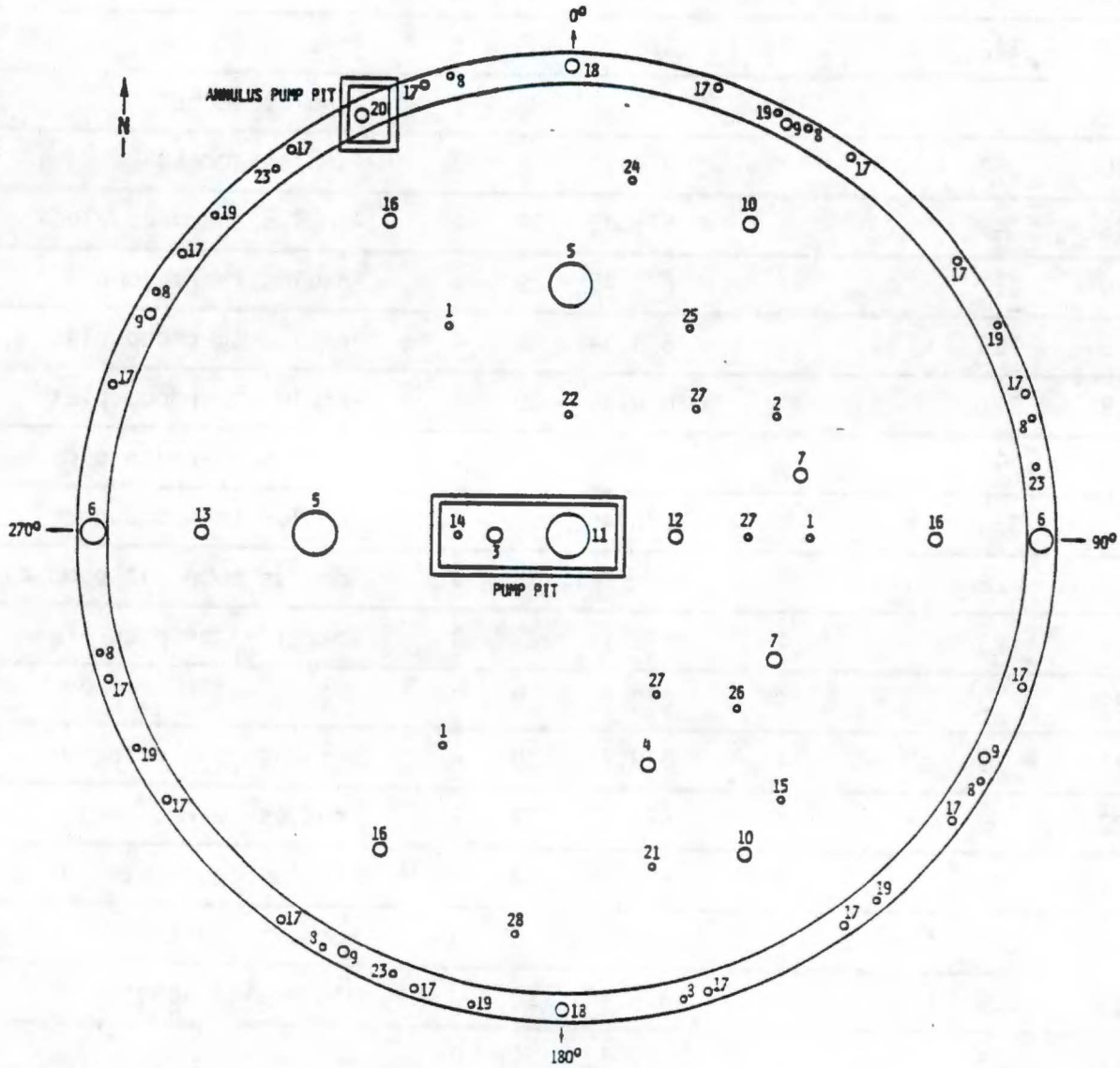


Tank No. AP 102.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.12	39 - 3	Annulus access
17	324	6	678.12	39 - 3	Annulus access
17	342	6	678.13	39 - 3	Annulus access
18	0	12	678.13	39 - 0	Annulus access
18	180	12	678.12	39 - 0	Annulus access
19	48	4	676.46	39 - 4	Annulus thermocouples
19	117	4	676.45	39 - 4	Annulus thermocouples
19	169	4	676.44	39 - 4	Annulus thermocouples
19	221	4	676.45	39 - 4	Annulus thermocouples
19	297	4	676.45	39 - 4	Annulus thermocouples
19	334	4	676.45	39 - 4	Annulus thermocouples
20	26	12		38 - 9	Annulus pump pit pump riser
21	195	4	678.11	28 - 0	Spare; riser plug
22	0	4	678.11	10 - 0	SMP (tape)
23	39	4	679.71	38 - 9	Annulus leak detector
23	159	4	679.68	38 - 9	Annulus leak detector
23	279	4	679.69	38 - 9	Annulus leak detector
24	350	4	678.12	30 - 0	Receiving pit
25	330	4	676.44	20 - 0	High level sensor
26	225	4	679.70	20 - 0	LLI
27	210	4	678.11	15 - 0	Spare; riser plug
27	270	4	678.11	15 - 0	Spare; riser plug
27	315	4	678.14	15 - 0	Spare; riser plug
28	173	4	678.11	33 - 0	Spare; riser plug

9112351957

Tank No. AP 103.

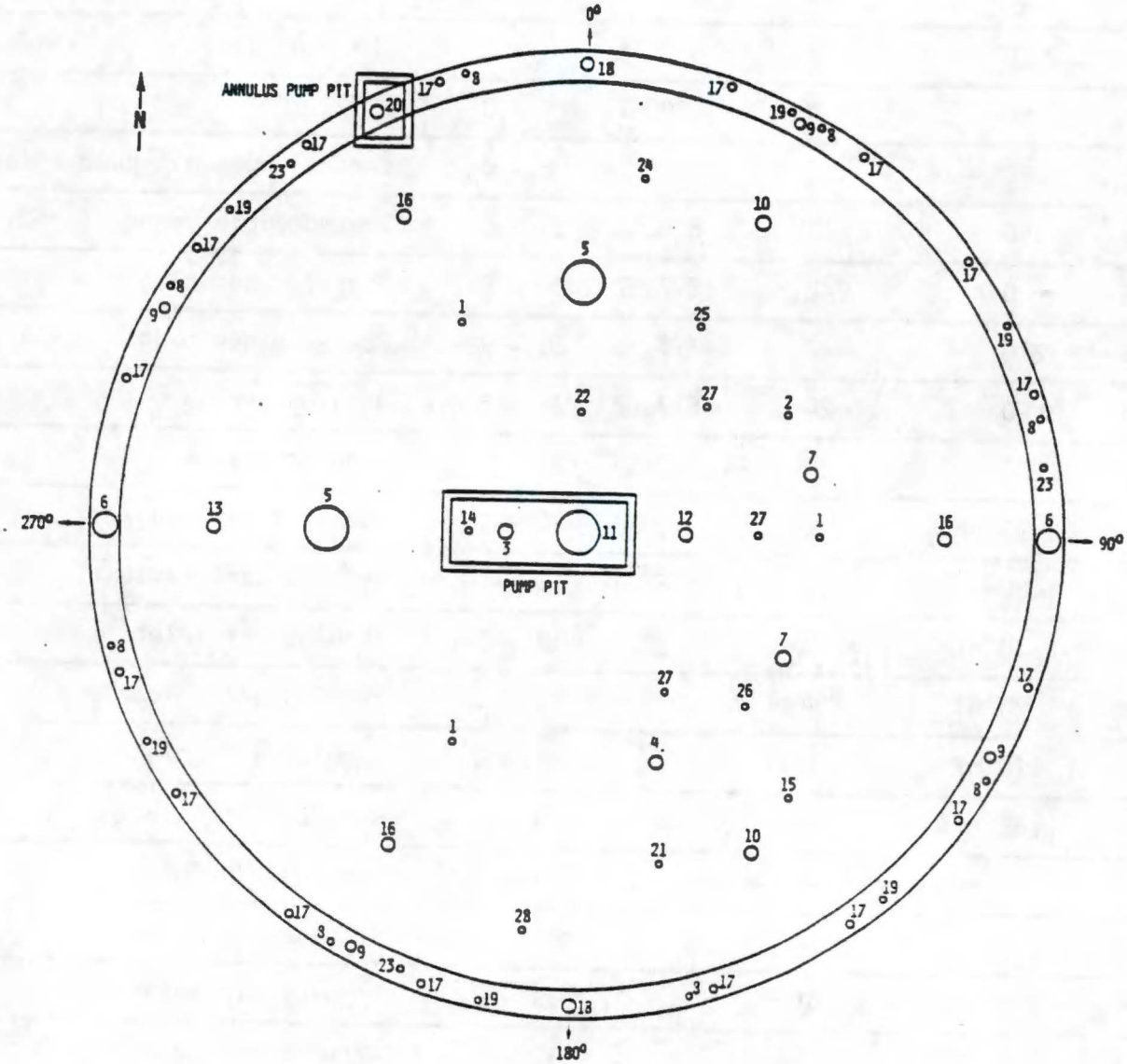


Tank No. AP 103.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	90	4	678.10	20 - 0	SMP (no tape)
1	210	4	678.10	20 - 0	SMP (no tape)
1	330	4	678.11	20 - 0	SMP (no tape)
2	60	4	679.67	20 - 0	LIT
3	270	12		6 - 0	Central pump pit pump riser
4	160	12	676.70	20 - 0	Thermocouple probe
5	0	42	677.52	20 - 9	Spare; riser plug
5	270	42	677.55	20 - 9	Spare; riser plug
6	90	24	677.62	38 - 6 3/8	Annulus access
6	270	24	677.64	38 - 6 3/8	Annulus access
7	75 nf	12		20 - 0	Spare; riser plug
7	120	12	678.11	20 - 0	Primary tank exhaust
8	30 nf	4		39 - 3	Annulus air inlet
8	75 nf	4		39 - 3	Annulus air inlet
8	120 nf	4		39 - 3	Annulus air inlet
8	165 nf	4		39 - 3	Annulus air inlet
8	210 nf	4		39 - 3	Annulus air inlet
8	255 nf	4		39 - 3	Annulus air inlet
8	300 nf	4		39 - 3	Annulus air inlet
8	345 nf	4		39 - 3	Annulus air inlet
9	27 nf	8		38 - 9	Annulus exhaust
9	117 nf	8		38 - 9	Annulus exhaust
9	207 nf	8		38 - 9	Annulus exhaust

9112376119659

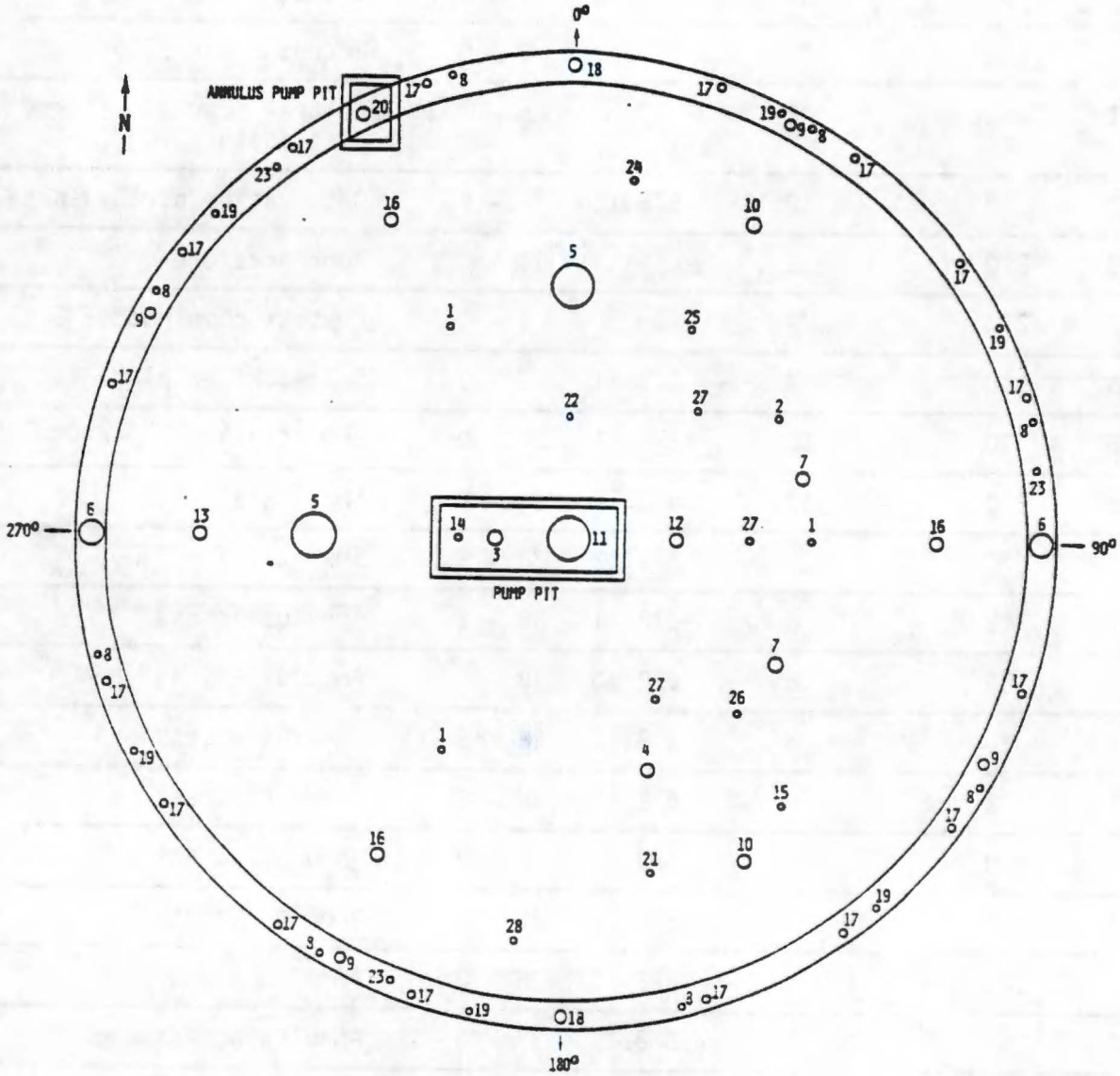
Tank No. AP 103.



Tank No. AP 103.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	297 nf	8		38 - 9	Annulus exhaust
10	30	12	678.12	30 - 0	Spare; riser plug
10	150	12		30 - 0	Spare; riser plug
11	Center	42		-	Central pump pit slurry distributor
12	90	12	678.11	9 - 0	Observation port - spare
13	270 nf	12		30 - 0	Tank pressure
14	270	4		9 - 0	Central pump nozzle G
15	140	4	678.11	28 - 0	Spare; riser plug
16	90	12	678.11	30 - 0	SMP (tape)
16	210	12	678.12	30 - 0	SMP (tape)
16	330	12	678.12	30 - 0	SMP (tape)
17	18	6	678.11	38 - 3	Annulus access
17	36	6	678.10	38 - 3	Annulus access
17	54	6	678.10	38 - 3	Annulus access
17	72	6	678.11	38 - 3	Annulus access
17	108	6	678.11	38 - 3	Annulus access
17	126	6	678.11	38 - 3	Annulus access
17	144	6	678.11	38 - 3	Annulus access
17	162	6	678.11	38 - 3	Annulus access
17	198	6	679.69	38 - 3	Annulus access
17	216	6	678.11	38 - 3	Annulus access
17	236	6	678.12	38 - 3	Annulus access
17	252	6	678.11	38 - 3	Annulus access
17	288	6	678.11	38 - 3	Annulus access

Tank No. AP 103.

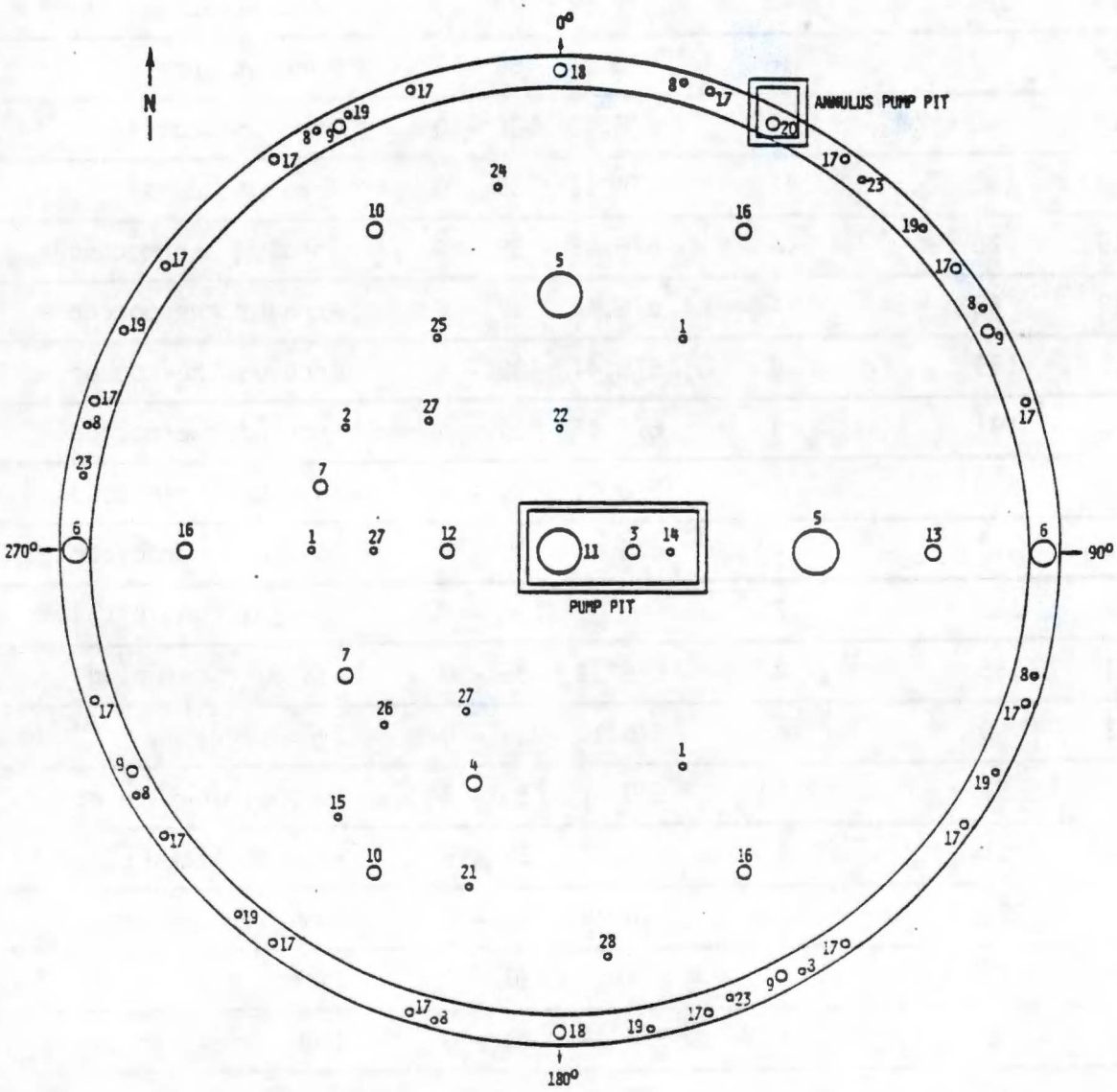


Tank No. AP 103.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.11	38 - 3	Annulus access
17	324	6	679.69	39 - 3	Annulus access
17	342	6	678.11	38 - 3	Annulus access
18	0	12	678.12	39 - 0	Annulus access
18	180	12	678.13	39 - 0	Annulus access
19	26	4	676.43	39 - 4	Annulus thermocouple
19	63	4	676.44	39 - 4	Annulus thermocouple
19	139	4	676.44	39 - 4	Annulus thermocouple
19	191	4	676.45	39 - 4	Annulus thermocouple
19	243	4	676.45	39 - 4	Annulus thermocouple
19	312	4	676.45	39 - 4	Annulus thermocouple
20	333	12		38 - 9	Annulus pump pit pump riser
21	165	4	678.12	28 - 0	Spare; riser plug
22	0	4	678.10	10 - 0	SMP (tape)
23	81	4	679.67	38 - 9	Annulus leak detector
23	201	4	679.71	38 - 9	Annulus leak detector
23	321	4	679.70	38 - 9	Annulus leak detector
24	10	4		30 - 0	Spare; riser plug
25	30	4	676.42	20 - 0	High level sensor
26	135	4	679.67	20 - 0	LLI
27	45	4	678.10	15 - 0	Spare; riser plug
27	90	4	678.10	15 - 0	Spare; riser plug
27	150	4	678.11	15 - 0	Spare; riser plug
28	187	4	678.12	33 - 0	Spare; riser plug

9112754119963

Tank No. AP 104.

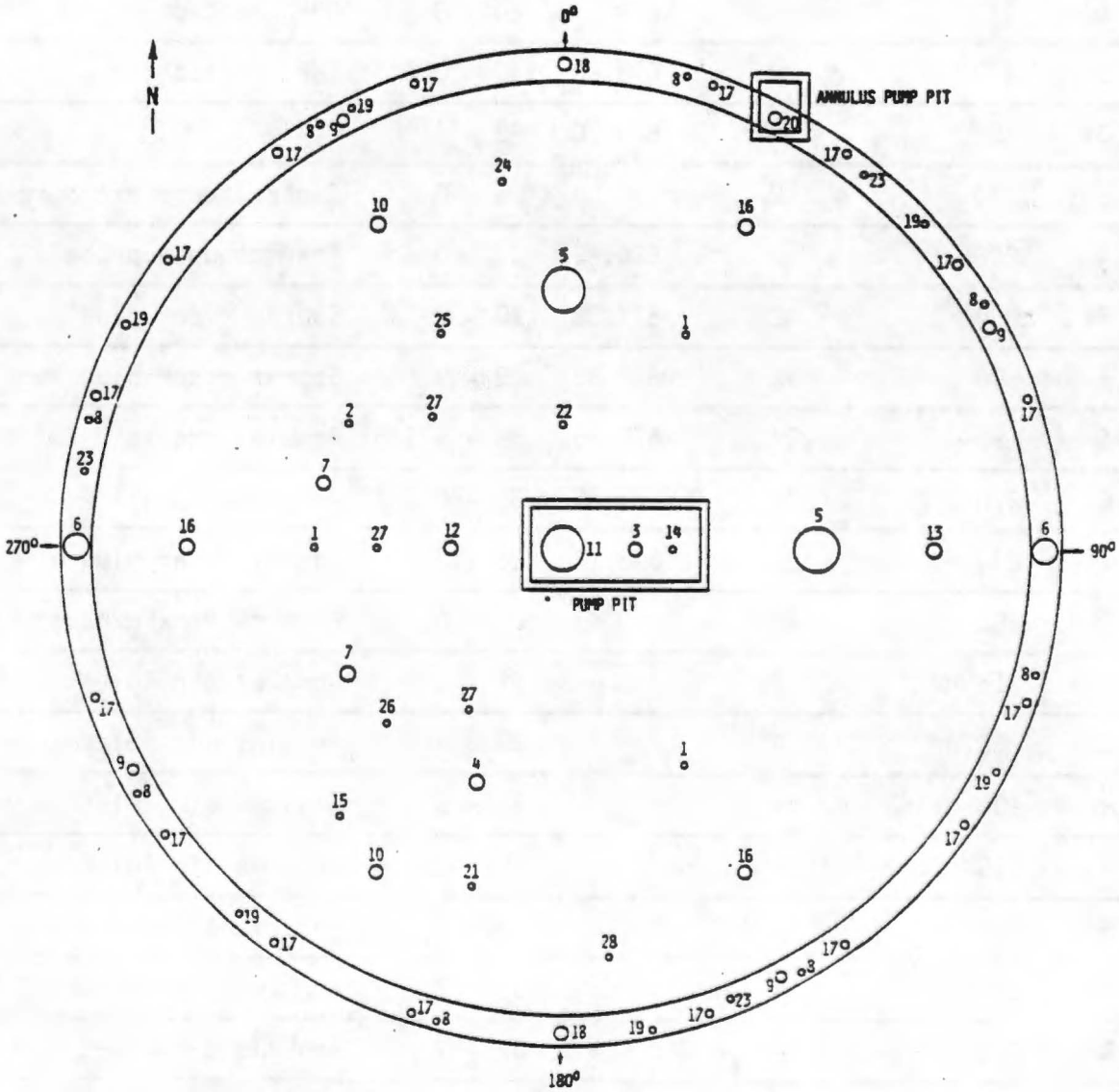


Tank No. AP 104.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	30	4	678.11	20 - 0	SMP (no tape)
1	150	4	678.11	20 - 0	SMP (no tape)
1	270	4	678.20	20 - 0	SMP (no tape)
2	300	4	679.70	20 - 0	LIT
3	90	12		6 - 0	Central pump pit pump riser
4	200	12	676.72	20 - 0	Thermocouple probe
5	0	42	677.38	20 - 9	Spare; riser plug
5	90	42	677.35	20 - 9	Spare; riser plug
6	90	24	677.65	38 - 6 3/8	Annulus access
6	270	24	677.63	38 - 6 3/8	Annulus access
7	240	12	678.12	20 - 0	Spare; riser plug
7	285 nf	12		20 - 0	Primary tank exhaust
8	15 nf	4		39 - 3	Annulus air inlet
8	60 nf	4		39 - 3	Annulus air inlet
8	105 nf	4		39 - 3	Annulus air inlet
8	150 nf	4		39 - 3	Annulus air inlet
8	195 nf	4		39 - 3	Annulus air inlet
8	240 nf	4		39 - 3	Annulus air inlet
8	285 nf	4		39 - 3	Annulus air inlet
8	330 nf	4		39 - 3	Annulus air inlet
9	62 nf	8		38 - 9	Annulus exhaust
9	152 nf	8		38 - 9	Annulus exhaust
9	242 nf	8		38 - 9	Annulus exhaust

9 1 1 2 7 3 4 1 9 6 5

Tank No. AP 104.

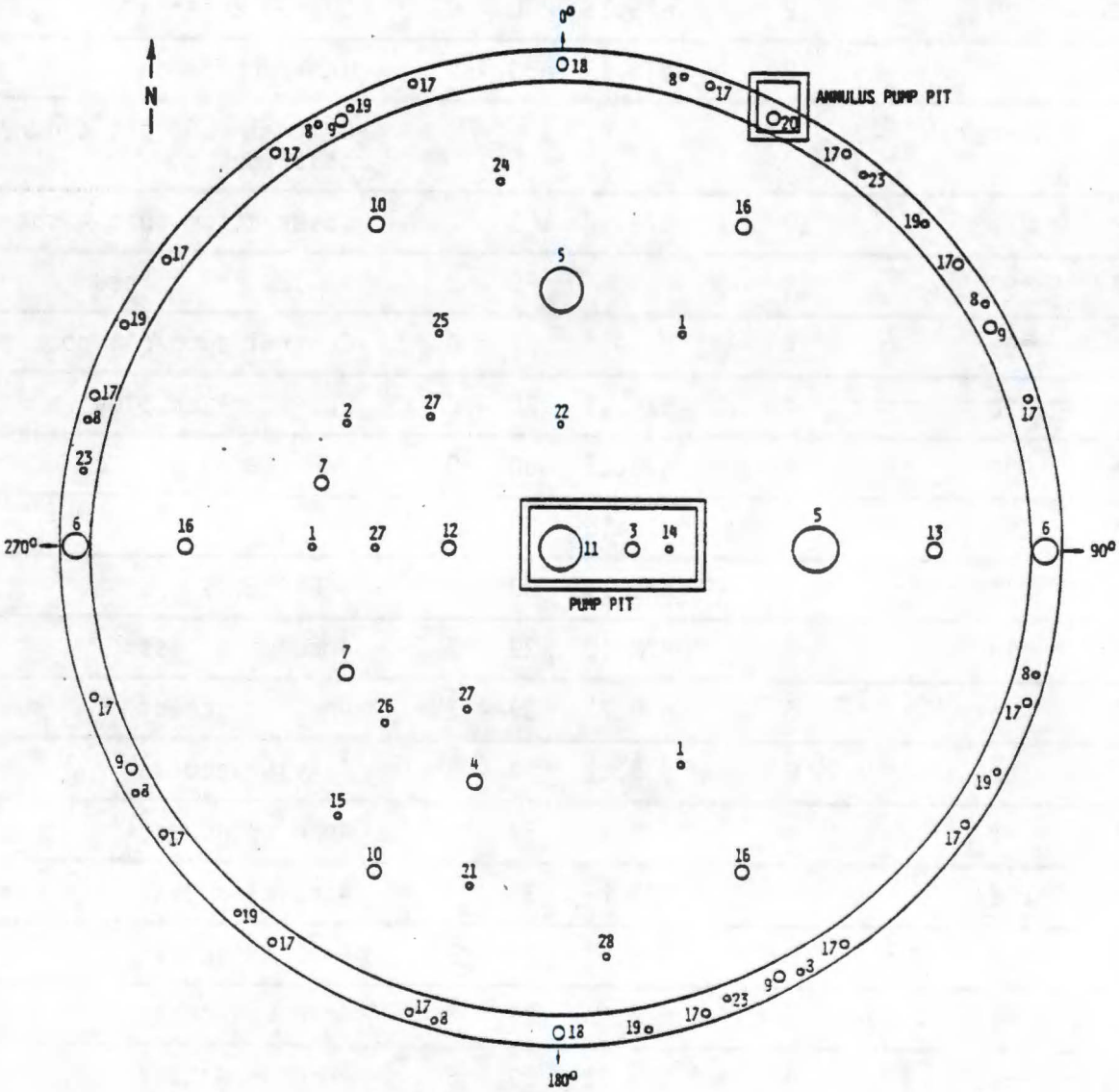


Tank No. AP 104.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	332 nf	8		38 - 9	Annulus exhaust
10	219	12	678.15	30 - 0	Spare; riser plug
10	330	12	678.13	30 - 0	Tank pressure
11	Center	42		-	Central pump pit slurry distributor
12	270	12	678.12	9 - 0	Observation port - spare
13	90	12		30 - 0	AP-02D grout feed
14	90	4		9 - 0	Central pump pit nozzle G
15	220	4	678.11	28 - 0	Spare; riser plug
16	30	12	678.13	30 - 0	SMP (tape)
16	150	12	678.15	30 - 0	SMP (tape)
16	270	12	678.14	30 - 0	SMP (tape)
17	18	6	678.12	39 - 3	Annulus access
17	36	6	679.71	39 - 3	Annulus access
17	54	6	678.12	39 - 3	Annulus access
17	72	6	678.14	39 - 3	Annulus access
17	108	6	678.12	39 - 3	Annulus access
17	126	6	678.13	39 - 3	Annulus access
17	144	6	678.13	39 - 3	Annulus access
17	162	6	679.72	39 - 3	Annulus access
17	198	6	678.14	39 - 3	Annulus access
17	216	6	678.13	39 - 3	Annulus access
17	236	6	678.13	39 - 3	Annulus access
17	252	6	678.13	39 - 3	Annulus access
17	288	6	678.13	39 - 3	Annulus access

9 1 1 2 3 1 1 9 6 7

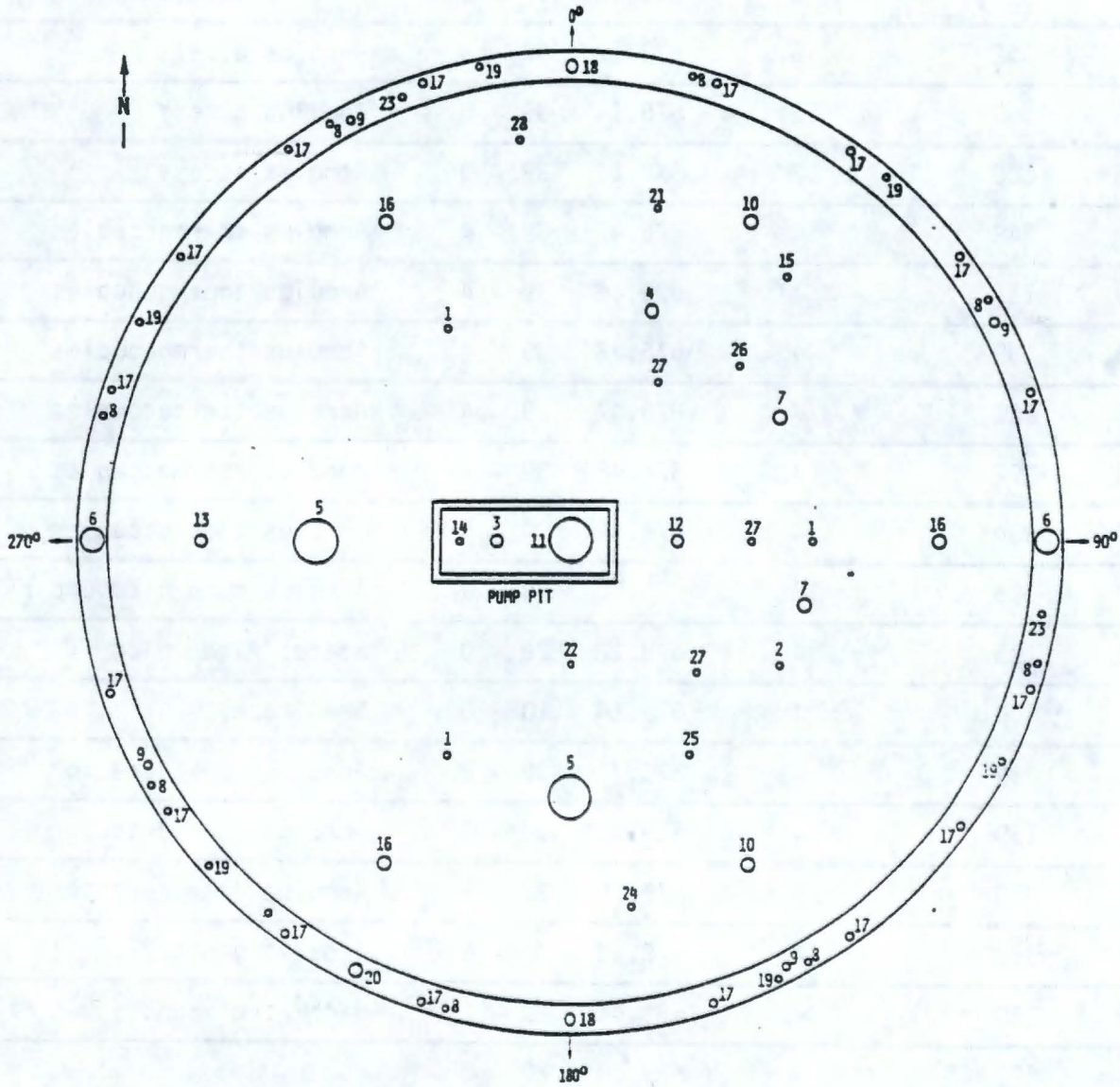
Tank No. AP 104.



Tank No. AP 104.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.13	39 - 3	Annulus access
17	324	6	678.12	39 - 3	Annulus access
17	342	6	678.12	39 - 3	Annulus access
18	0	12	678.14	39 - 0	Annulus access
18	180	12	678.15	39 - 0	Annulus access
19	48	4	676.47	39 - 4	Annulus thermocouples
19	117	4	676.46	39 - 4	Annulus thermocouples
19	169	4	676.46	39 - 4	Annulus thermocouples
19	221	4	676.47	39 - 4	Annulus thermocouples
19	297	4	676.46	39 - 4	Annulus thermocouples
19	334	4	676.46	39 - 4	Annulus thermocouples
20	26	12		38 - 9	Annulus pump pit pump riser
21	195	4	678.12	28 - 0	Spare; riser plug
22	0	4	678.14	10 - 0	SMP (tape)
23	39	4	679.71	38 - 9	Annulus leak detector
23	159	4	679.72	38 - 9	Annulus leak detector
23	279	4	679.70	38 - 9	Annulus leak detector
24	350	4	678.13	30 - 0	Receiving pit
25	330	4	676.44	20 - 0	High level sensor
26	225	4	679.69	20 - 0	LLI
27	210	4	678.12	15 - 0	Spare; riser plug
27	270	4	678.11	15 - 0	Spare; riser plug
27	315	4	678.11	15 - 0	Spare; riser plug
28	173	4	678.13	33 - 0	Spare; riser plug

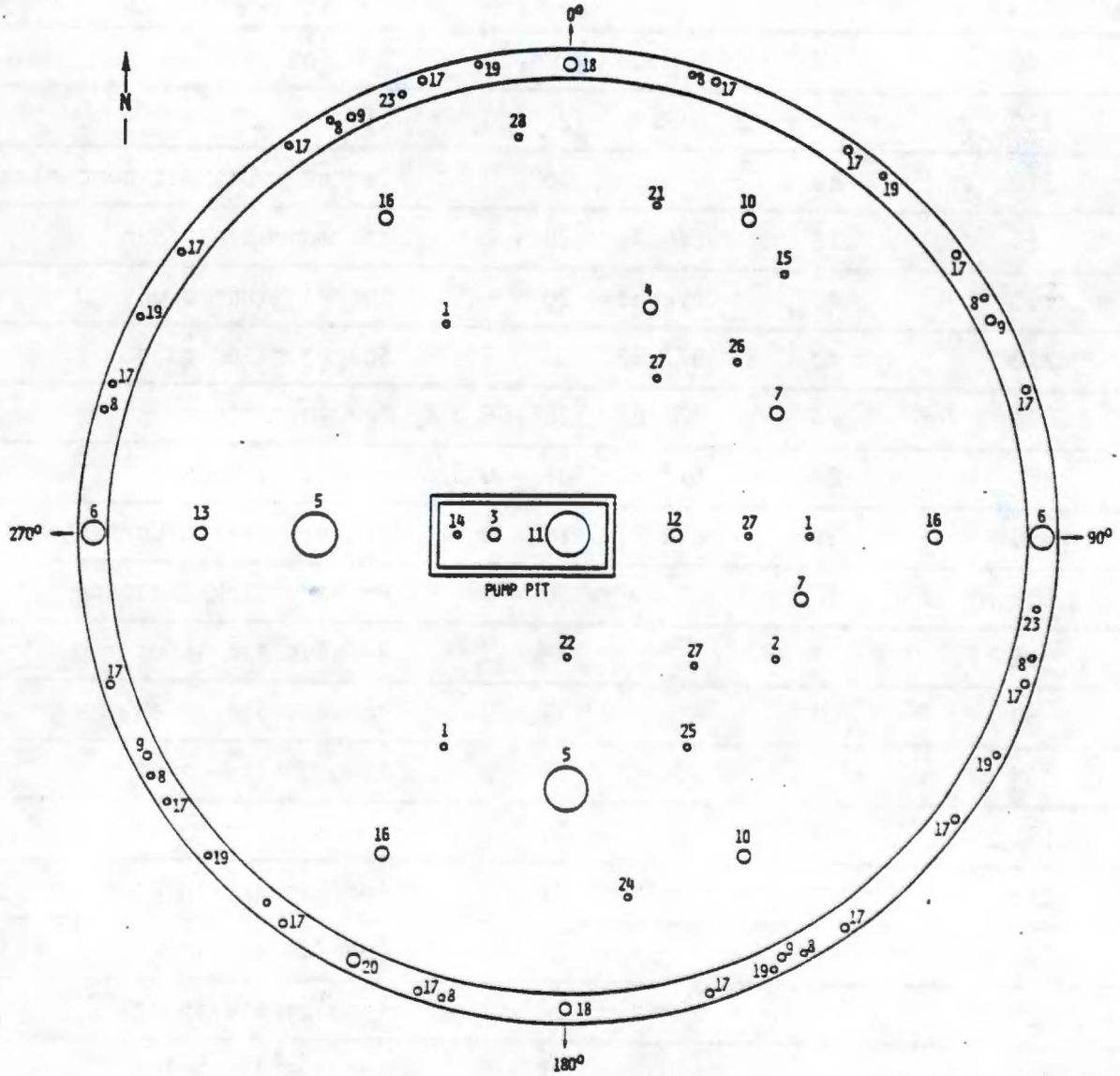
Tank No. AP 105.



Tank No. AP 105.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	90	4	678.10	20 - 0	SMP (no tape)
1	210	4	678.10	20 - 0	SMP (no tape)
1	330	4	678.10	20 - 0	SMP (no tape)
2	120	4	679.68	20 - 0	LIT
3	270	12		6 - 0	Central pump pit pump riser
4	20	12	676.71	20 - 0	Thermocouple riser
5	180	42	Covered	20 - 9	Spare; riser plug
5	270	42	677.53	20 - 9	Spare; riser plug
6	90	24	677.63	38 - 6 3/8	Annulus access
6	270	24	677.63	38 - 6 3/8	Annulus access
7	60	12	678.21	20 - 0	Spare; riser plug
7	105 nf	12		20 - 0	Primary tank exhaust
8	15 nf	4		39 - 3	Annulus air inlet
8	60 nf	4		39 - 3	Annulus air inlet
8	105 nf	4		39 - 3	Annulus air inlet
8	150 nf	4		39 - 3	Annulus air inlet
8	195 nf	4		39 - 3	Annulus air inlet
8	240 nf	4		39 - 3	Annulus air inlet
8	285 nf	4		39 - 3	Annulus air inlet
8	330 nf	4		39 - 3	Annulus air inlet
9	62 nf	8		38 - 9	Annulus exhaust
9	152 nf	8		38 - 9	Annulus exhaust
9	242 nf	8		38 - 9	Annulus exhaust

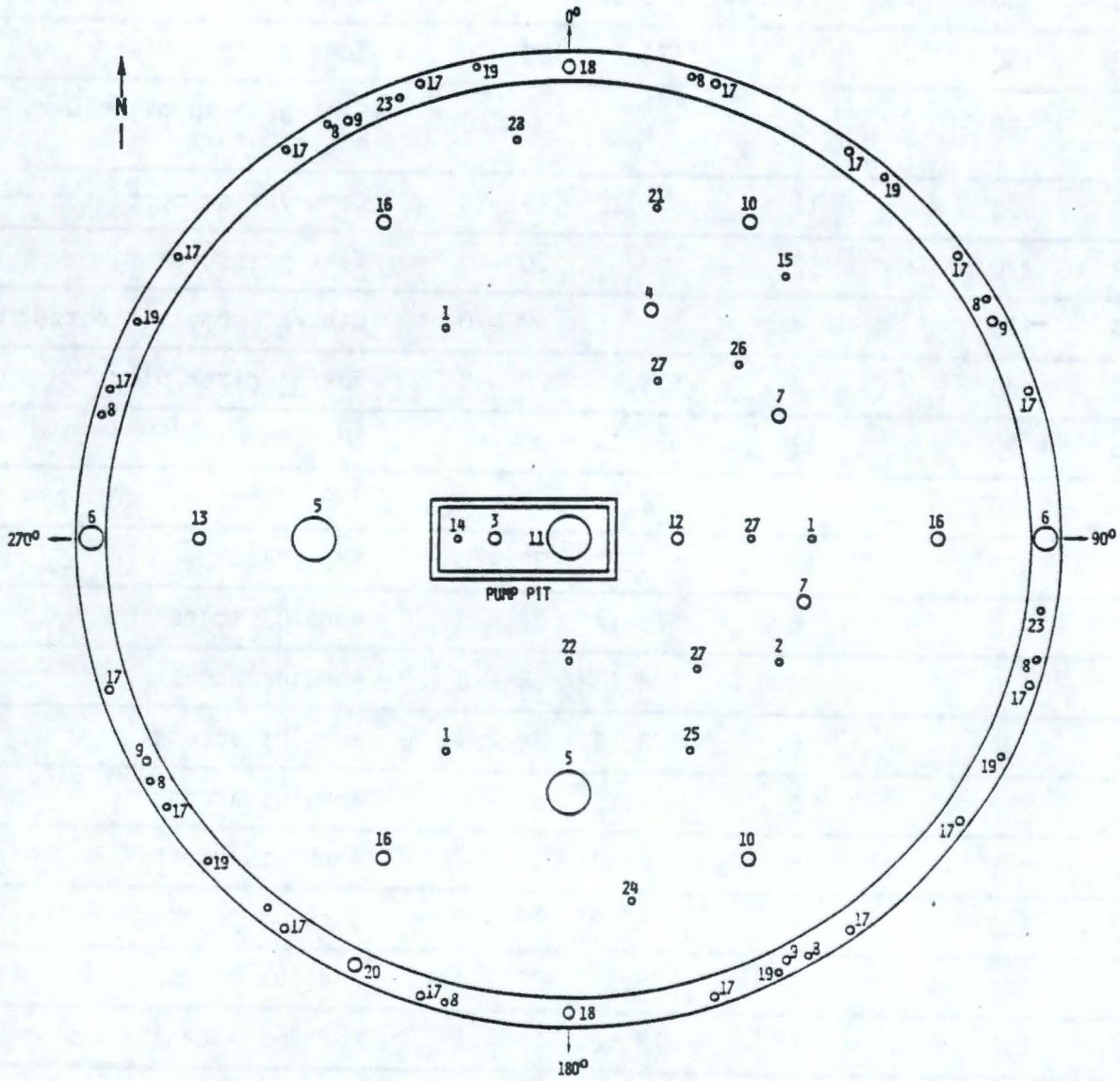
Tank No. AP 105.



Tank No. AP 105.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	332 nf	8		38 - 9	Annulus exhaust
10	30	12	678.13	30 - 0	Spare; riser plug
10	150	12	678.21	30 - 0	Spare; riser plug
11	Center	42		-	Central pump pit slurry distributor
12	90	12	678.12	9 - 0	Observation port - spare
13	270 nf	12		30 - 0	Tank pressure
14	270	4		9 - 0	Central pump pit nozzel G
15	40	4	678.11	28 - 0	Spare; riser plug
16	90	12	678.14	30 - 0	SMP (tape)
16	210	12	678.12	30 - 0	SMP (tape)
16	330	12	678.21	30 - 0	SMP (tape)
17	18	6	678.14	38 - 3	Annulus access
17	36	6	678.13	38 - 8	Annulus access
17	54	6	678.13	38 - 3	Annulus access
17	72	6	678.12	38 - 3	Annulus access
17	108	6	678.13	38 - 3	Annulus access
17	126	6	678.13	38 - 3	Annulus access
17	144	6	678.14	38 - 3	Annulus access
17	162	6	678.12	38 - 3	Annulus access
17	198	6	678.13	38 - 3	Annulus access
17	216	6	679.71	38 - 3	Annulus access
17	236	6	678.12	38 - 3	Annulus access
17	252	6	678.12	38 - 3	Annulus access
17	288	6	678.13	38 - 3	Annulus access

Tank No. AP 105



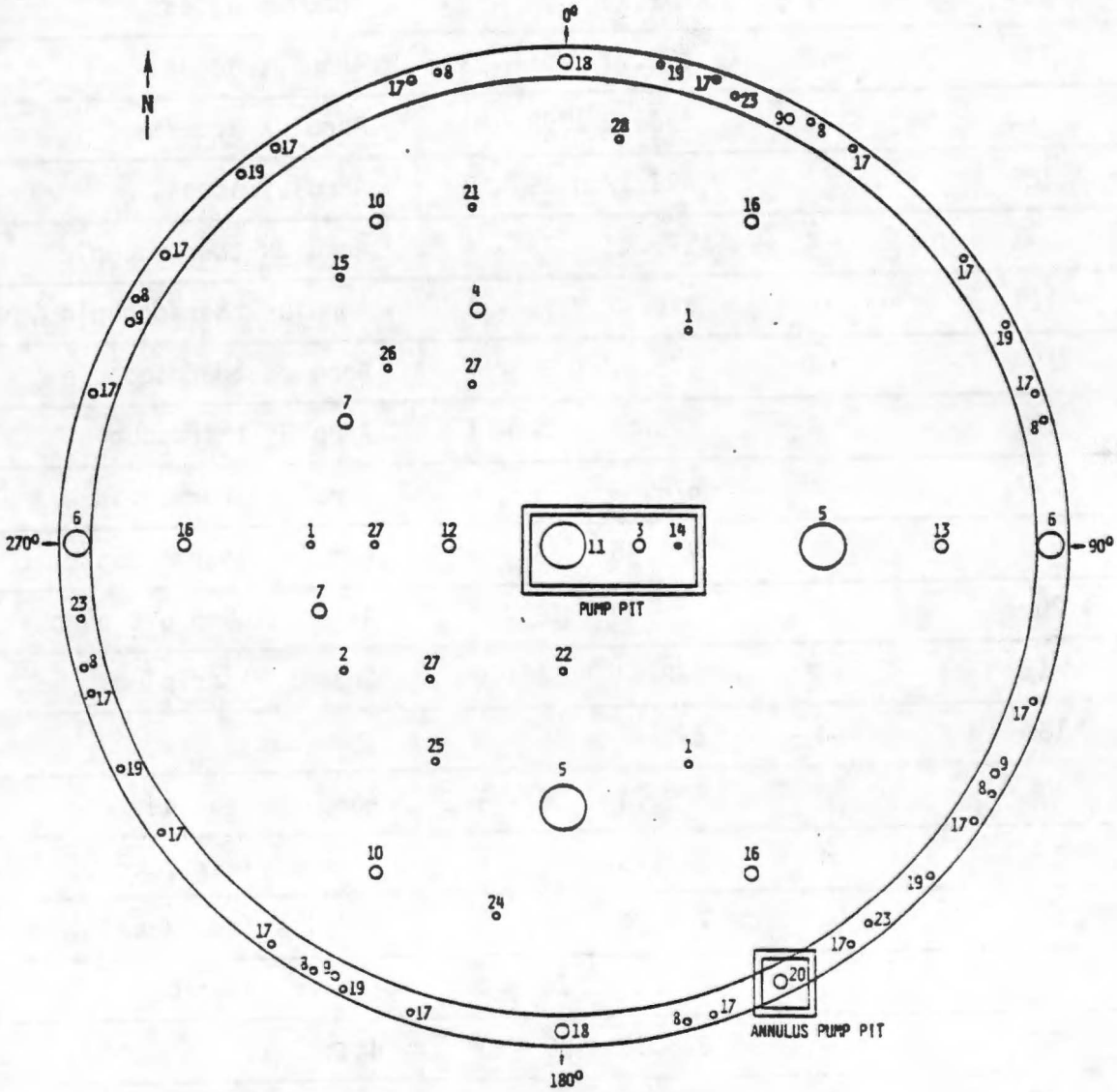
9 1 1 2 3 6 4 1 9 7 4

Tank No. AP 105.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.14	38 - 3	Annulus access
17	324	6	678.13	38 - 3	Annulus access
17	342	6	679.71	38 - 3	Annulus access
18	0	12	678.12	39 - 0	Annulus access
18	180	12	678.12	39 - 0	Annulus access
19	41	4	675.45	39 - 4	Annulus thermocouple
19	117	4	676.47	39 - 4	Annulus thermocouple
19	154	4	676.46	39 - 4	Annulus thermocouple
19	228	4	676.45	39 - 4	Annulus thermcouple
19	297	4	676.46	39 - 4	Annulus thermocouple
19	349	4	676.46	39 - 4	Annulus thermocouple
20	206	12		38 - 9	Annulus pump pit pump riser
21	15	4	678.11	28 - 0	Spare; riser plug
22	180	4	678.11	10 - 0	SMP (tape)
23	99	4	679.71	38 - 9	Annulus leak detector
23	219	4	679.79	38 - 9	Annulus leak detector
23	339	4	679.70	38 - 9	Annulus leak detector
24	170	4	678.12	30 - 0	Spare; riser plug
25	150	4	676.35	20 - 0	High level sensor
26	45	4	679.69	20 - 0	LLI
27	30	4	678.11	15 - 0	Spare; riser plug
27	90	4	678.11	15 - 0	Spare; riser plug
27	135	4	678.11	15 - 0	Spare; riser plug
28	353	4	678.12	33 - 0	Spare; riser plug

9 1 1 2 3 5 1 1 9 7 5

Tank No. AP 106.

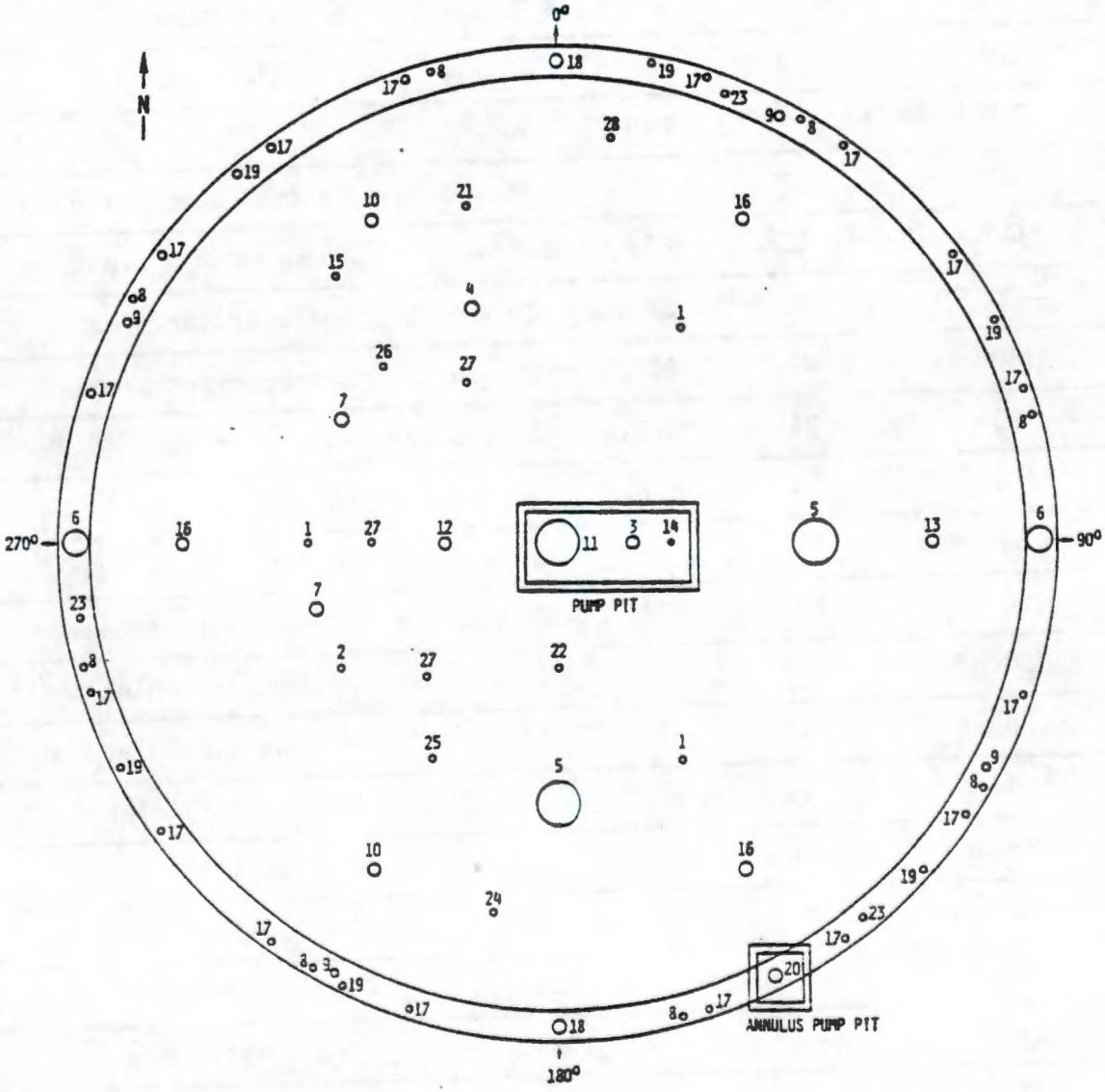


Tank No. AP 106.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	30	4	678.12	20 - 0	SMP (no tape)
1	150	4	678.13	20 - 0	SMP (no tape)
1	270	4	678.11	20 - 0	SMP (no tape)
2	240	4	679.70	20 - 0	LIT
3	90	12		6 - 0	Central pump pit pump riser
4	340	12	676.69	20 - 0	Thermocouple probe
5	90	42	677.53	20 - 9	Spare; riser plug
5	180	42	677.55	20 - 9	Spare; riser plug
6	90	24	677.64	38 - 6 3/8	Annulus access
6	270	24	677.62	38 - 6 3/8	Annulus access
7	255 nf	12		20 - 0	Spare; riser plug
7	300	12	678.12	20 - 0	Primary tank exhaust
8	30 nf	4		39 - 3	Annulus air inlet
8	75 nf	4		39 - 3	Annulus air inlet
8	120 nf	4		39 - 3	Annulus air inlet
8	165 nf	4		39 - 3	Annulus air inlet
8	210 nf	4		39 - 3	Annulus air inlet
8	255 nf	4		39 - 3	Annulus air inlet
8	300 nf	4		39 - 3	Annulus air inlet
8	345 nf	4		39 - 3	Annulus air inlet
9	27 nf	8		38 - 9	Annulus exhaust
9	117 nf	8		38 - 9	Annulus exhaust
9	207 nf	8		38 - 9	Annulus exhaust

9 1 1 2 3 5 1 1 9 7 7

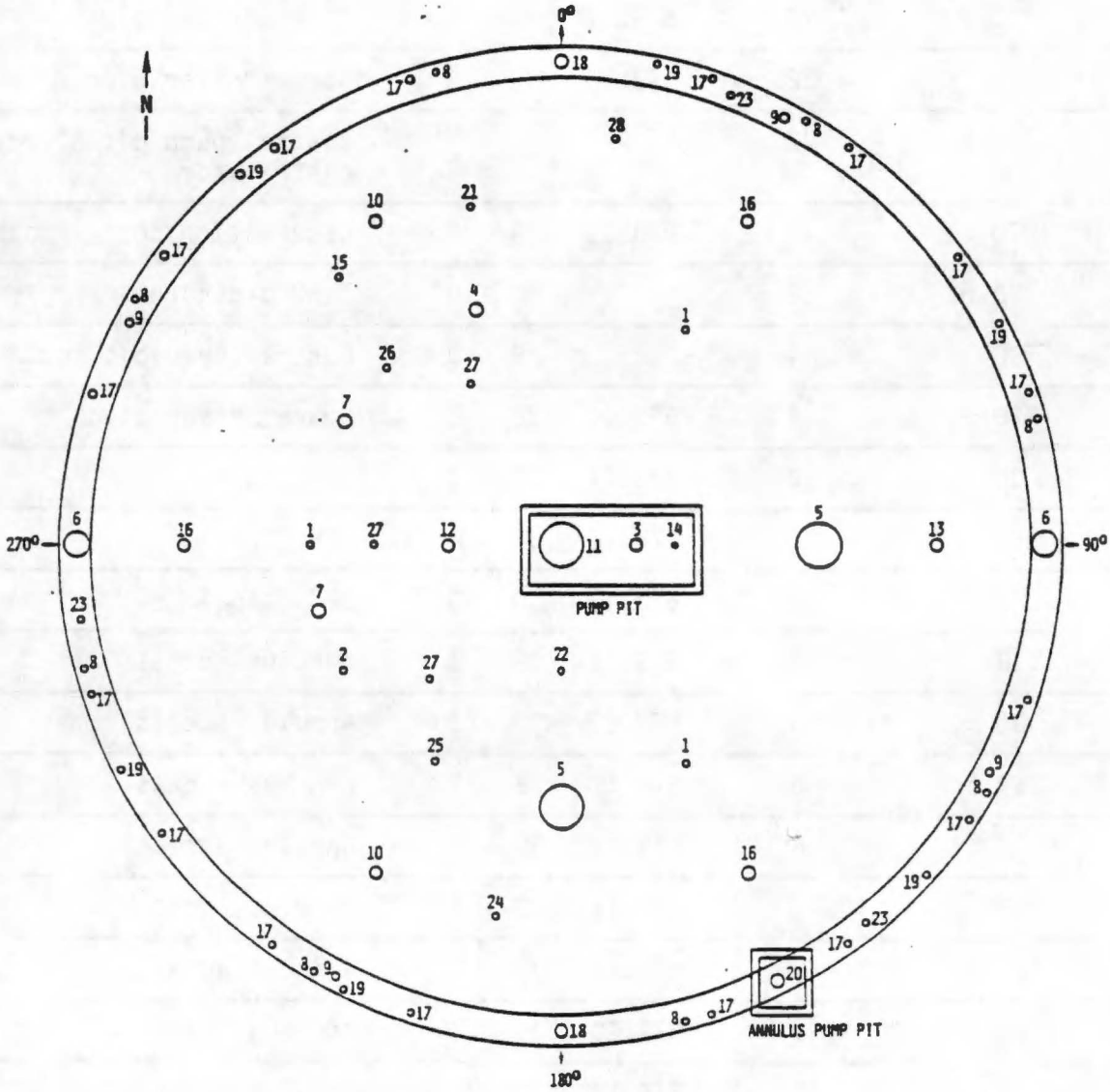
Tank No. AP 106



Tank No. AP 106.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	297 nf	8		38 - 9	Annulus exhaust
10	210	12	678.12	30 - 0	Spare; riser plug
10	330	12	678.13	30 - 0	Spare; riser plug
11	Center	42		-	Central pump pit slurry distributor
12	270	12	678.11	9 - 0	Observation port - spare
13	90 nf	12		30 - 0	Tank pressure
14	90	4		9 - 0	Central pump pit nozzle G
15	320	4	678.04	28 - 0	Spare; riser plug
16	30	12	678.14	30 - 0	SMP (tape)
16	150	12	678.13	30 - 0	SMP (tape)
16	270	12	678.13	30 - 0	SMP (tape)
17	18	6	679.71	39 - 3	Annulus access
17	36	6	678.12	39 - 3	Annulus access
17	54	6	678.12	39 - 3	Annulus access
17	72	6	678.13	39 - 3	Annulus access
17	108	6	678.12	39 - 3	Annulus access
17	124	6	678.12	39 - 3	Annulus access
17	144	6	679.70	39 - 3	Annulus access
17	162	6	678.12	39 - 3	Annulus access
17	198	6	678.13	39 - 3	Annulus access
17	216	6	678.12	39 - 3	Annulus access
17	236	6	678.13	39 - 3	Annulus access
17	252	6	678.12	39 - 3	Annulus access
17	288	6	678.21	39 - 3	Annulus access

Tank No. AP 106.

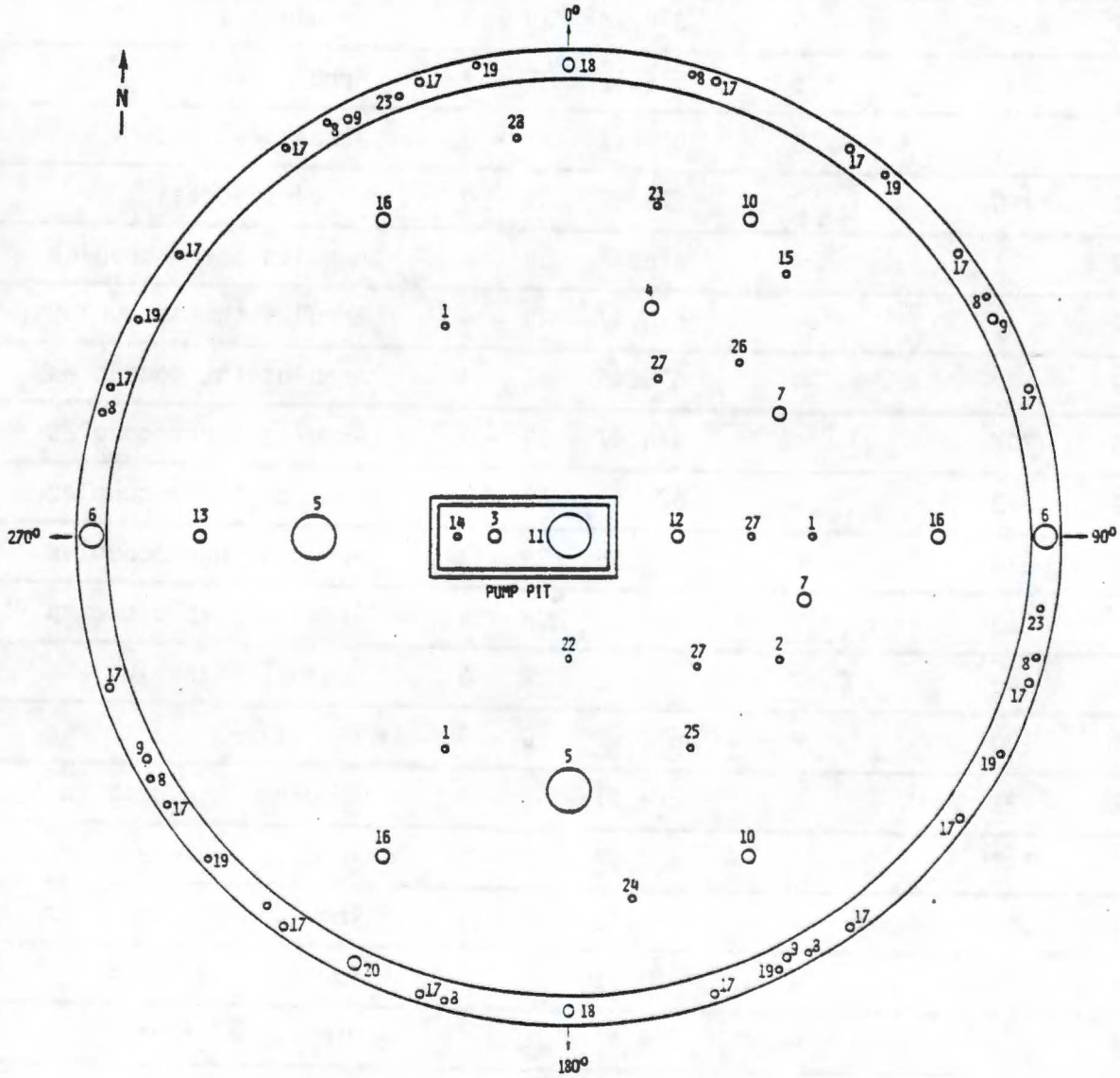


9 1 1 2 3 6 4 1 1 9 8 0

Tank No. AP 106.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.13	39 - 3	Annulus access
17	324	6	678.14	39 - 3	Annulus access
17	342	6	678.12	39 - 3	Annulus access
18	0	12	678.13	39 - 0	Annulus access
18	180	12	678.13	39 - 0	Annulus access
19	11	4	676.47	39 - 4	Annulus thermocouples
19	63	4	676.47	39 - 4	Annulus thermocouples
19	132	4	676.46	39 - 4	Annulus thermocouples
19	206	4	676.47	39 - 4	Annulus thermocouples
19	243	4	676.46	39 - 4	Annulus thermocouples
19	319	4	676.46	39 - 4	Annulus thermocouples
20	153	12		38 - 9	Annulus pump pit pump riser
21	345	4		28 - 0	Spare; riser plug
22	180	4	678.19	10 - 0	SMP (tape)
23	21	4	679.71	38 - 9	Annulus leak detector
23	141	4	679.69	38 - 9	Annulus leak detector
23	261	4	679.70	38 - 9	Annulus leak detector
24	190	4	678.13	30 - 0	Spare; riser plug
25	210	4	676.41	20 - 0	High level sensor
26	315	4	679.70	20 - 0	Spare; riser plug
27	225	4	678.12	15 - 0	Spare; riser plug
27	270	4	678.12	15 - 0	Spare; riser plug
27	330	4	678.12	15 - 0	Spare; riser plug
28	7	4	678.13	33 - 0	Spare; riser plug

Tank No. AP 107.



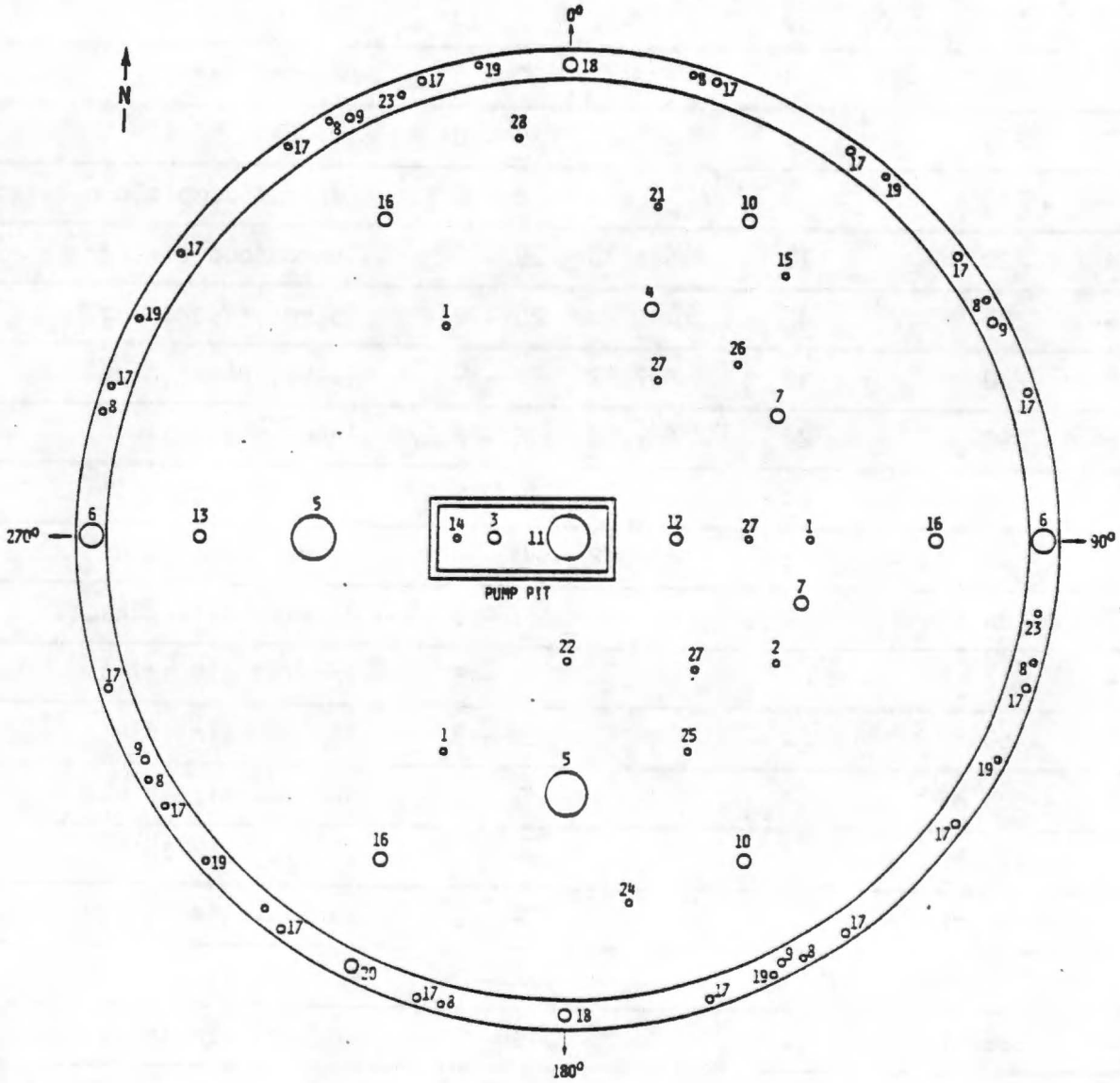
9 1 1 2 3 6 4 1 9 8 2

Tank No. AP 107.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	90	4	678.13	20 - 0	SMP (no tape)
1	210	4	678.12	20 - 0	SMP (no tape)
1	330	4	678.13	20 - 0	SMP (no tape)
2	120	4	679.70	20 - 0	LIT
3	270	12		6 - 0	Central pump pit pump riser
4	20	12	676.70	20 - 0	Thermocouple riser
5	180	42		20 - 9	Spare; riser plug
5	270	42	677.52	20 - 9	Spare; riser plug
6	90	24	677.64	38 - 6 3/8	Annulus access
6	270	24	677.64	38 - 6 3/8	Annulus access
7	60	12	678.12	20 - 0	Spare; riser plug
7	105 nf	12		20 - 0	Primary tank exhaust
8	15 nf	4		39 - 3	Annulus air inlet
8	60 nf	4		39 - 3	Annulus air inlet
8	105 nf	4		39 - 3	Annulus air inlet
8	150 nf	4		39 - 3	Annulus air inlet
8	195 nf	4		39 - 3	Annulus air inlet
8	240 nf	4		39 - 3	Annulus air inlet
8	285 nf	4		39 - 3	Annulus air inlet
8	330 nf	4		39 - 3	Annulus air inlet
9	62 nf	8		38 - 9	Annulus exhaust
9	152 nf	8		38 - 9	Annulus exhaust
9	242 nf	8		38 - 9	Annulus exhaust

9 1 1 2 3 5 4 1 9 8 3

Tank No. AP 107.



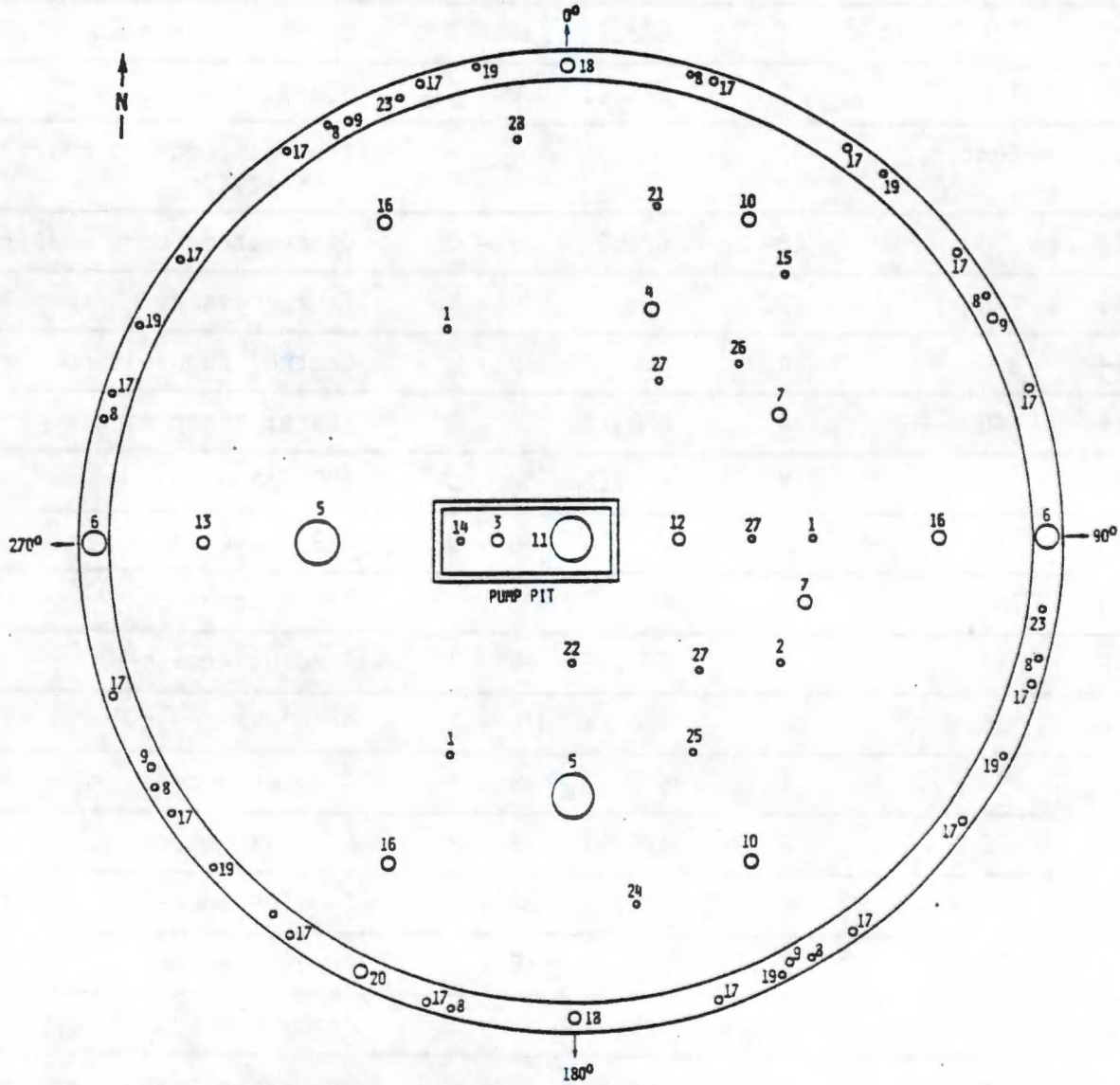
9 1 1 2 3 6 4 1 9 8 4

Tank No. AP 107.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	322 nf	8		38 - 9	Annulus exhaust
10	30	12	678.13	30 - 0	Spare; riser plug
10	150	12	678.13	30 - 0	Spare; riser plug
11	Center	42		-	Central pump pit slurry distributor
12	90	12	678.04	9 - 0	Observation port - spare
13	270 nf	12		30 - 0	Tank pressure
14	270	4		9 - 0	Central pump pit nozzle G
15	40	4	678.13	28 - 0	Spare; riser plug
16	90	12	678.12	30 - 0	SMP (tape)
16	210	12	678.14	30 - 0	SMP (tape)
16	330	12	678.12	30 - 0	SMP (tape)
17	18	6	678.13	38 - 3	Annulus access
17	36	6	678.13	38 - 3	Annulus access
17	54	6	678.13	38 - 3	Annulus access
17	72	6	678.13	38 - 3	Annulus access
17	108	6	678.14	38 - 3	Annulus access
17	126	6	678.15	38 - 3	Annulus access
17	144	6	678.13	38 - 3	Annulus access
17	162	6	678.14	38 - 3	Annulus access
17	198	6	678.14	38 - 3	Annulus access
17	216	6	679.72	38 - 3	Annulus access
17	236	6	678.15	38 - 3	Annulus access
17	252	6	678.13	38 - 3	Annulus access
17	288	6	678.12	38 - 3	Annulus access

9 1 1 2 3 5 4 1 9 8 5

Tank No. AP 107.

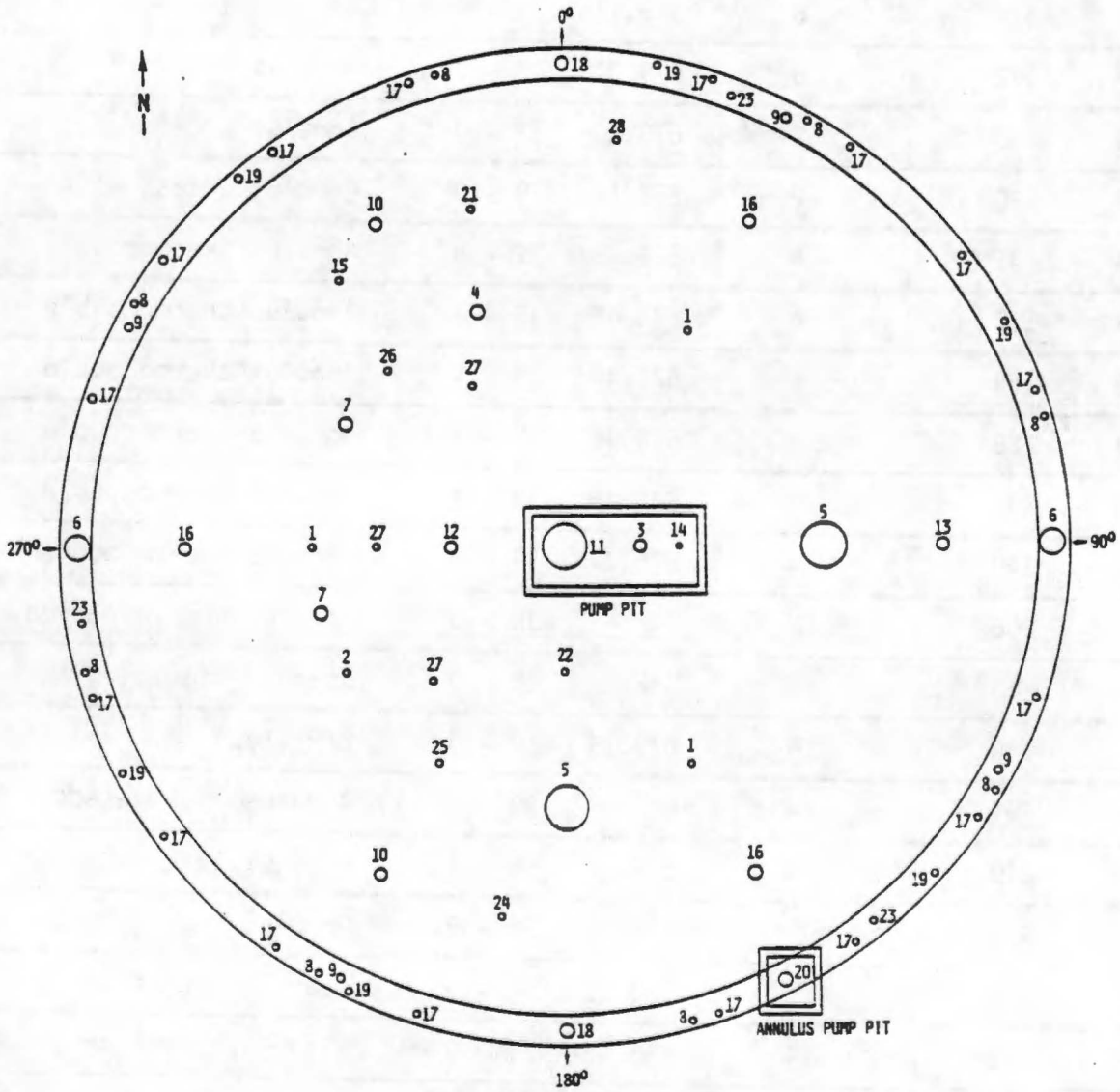


Tank No. AP 107.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.13	38 - 3	Annulus access
17	324	6	678.11	38 - 3	Annulus access
17	342	6	679.71	38 - 3	Annulus access
18	0	12	678.13	39 - 0	Annulus access
18	180	12	678.14	39 - 0	Annulus access
19	41	4	676.45	39 - 4	Annulus thermocouple
19	117	4	676.46	39 - 4	Annulus thermocouple
19	154	4	676.47	39 - 4	Annulus thermocouple
19	228	4	676.48	39 - 4	Annulus thermocouple
19	297	4	676.46	39 - 4	Annulus thermocouple
19	349	4	676.47	39 - 4	Annulus thermocouple
20	206	12		38 - 9	Annulus pump pit pump riser
21	15	4	678.11	28 - 0	Spare; riser plug
22	180	4	678.19	10 - 0	SMP (tape)
23	99	4		38 - 9	Annulus leak detector
23	219	4	679.72	38 - 9	Annulus leak detector
23	339	4	679.70	38 - 9	Annulus leak detector
24	170	4	678.12	30 - 0	Spare; riser plug
25	150	4	676.45	20 - 0	High level sensor
26	45	4	679.61	20 - 0	LLI
27	30	4	678.11	15 - 0	Spare; riser plug
27	90	4	678.12	15 - 0	Spare; riser plug
27	135	4	678.12	15 - 0	Spare; riser plug
28	353	4	678.13	33 - 0	Spare; riser plug

9 1 1 2 3 5 1 1 9 8 7

Tank No. AP 108.

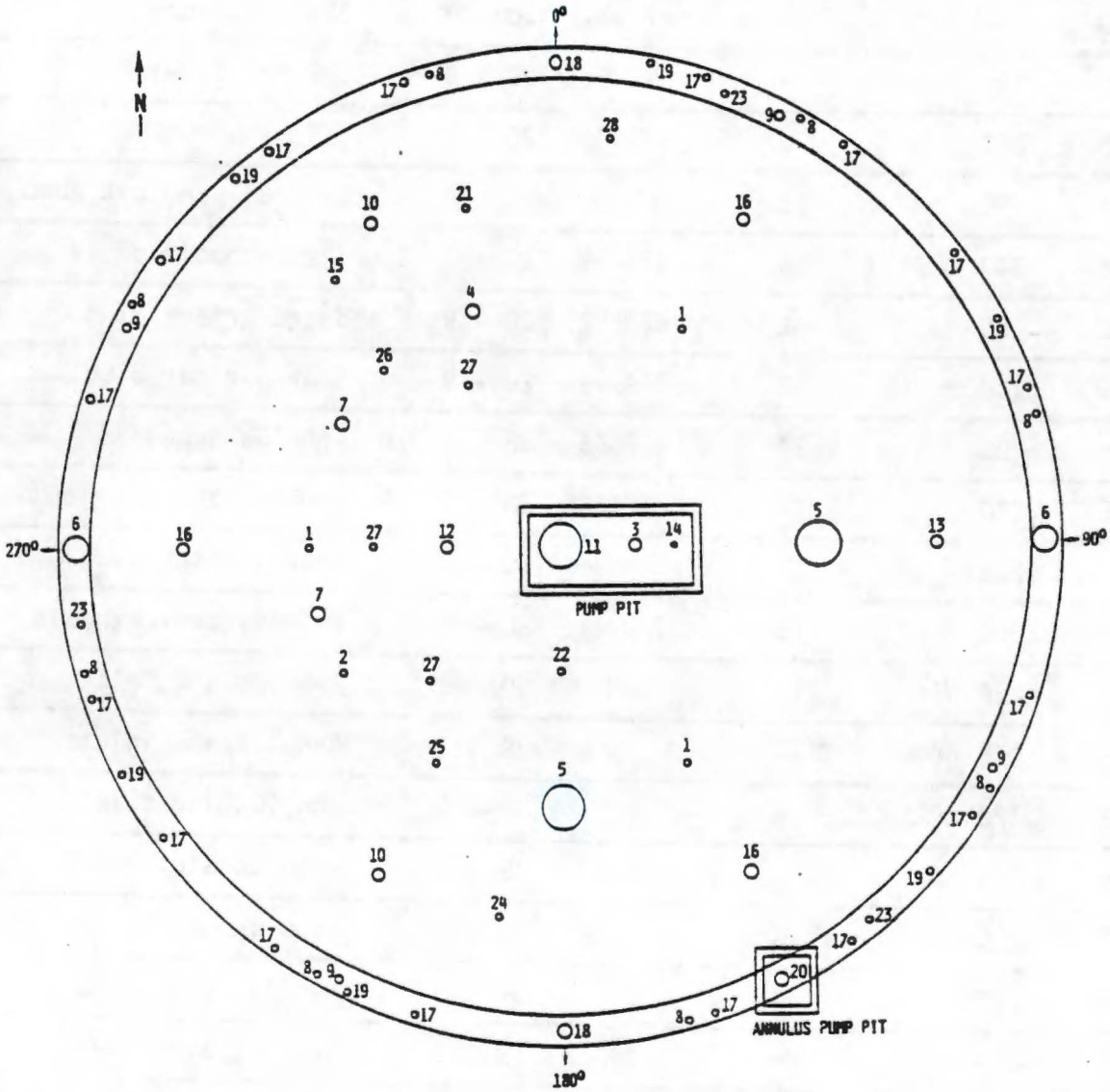


Tank No. AP 108.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1	30	4	678.12	20 - 0	SMP (no tape)
1	150	4	678.11	20 - 0	SMP (no tape)
1	270	4	678.11	20 - 0	SMP (no tape)
2	240	4	679.70	20 - 0	LIT
3	90	12		6 - 0	Central pump pit pump riser
4	340	12	676.71	20 - 0	Thermocouple probe
5	90	42	677.52	20 - 9	Spare; riser plug
5	180	42	677.49	20 - 9	Spare; riser plug
6	90	24	677.66	38 - 6 3/8	Annulus access
6	270	24	677.66	38 - 6 3/8	Annulus access
7	255 nf	12		20 - 0	Spare; riser plug
7	300	12	678.11	20 - 0	Primary tank exhaust
8	30 nf	4		39 - 3	Annulus air inlet
8	75 nf	4		39 - 3	Annulus air inlet
8	120 nf	4		39 - 3	Annulus air inlet
8	165 nf	4		39 - 3	Annulus air inlet
8	210 nf	4		39 - 3	Annulus air inlet
8	255 nf	4		39 - 3	Annulus air inlet
8	300 nf	4		39 - 3	Annulus air inlet
8	345 nf	4		39 - 3	Annulus air inlet
9	27 nf	8		38 - 9	Annulus exhaust
9	117 nf	8		38 - 9	Annulus exhaust
9	207 nf	8		38 - 9	Annulus exhaust

9112761199

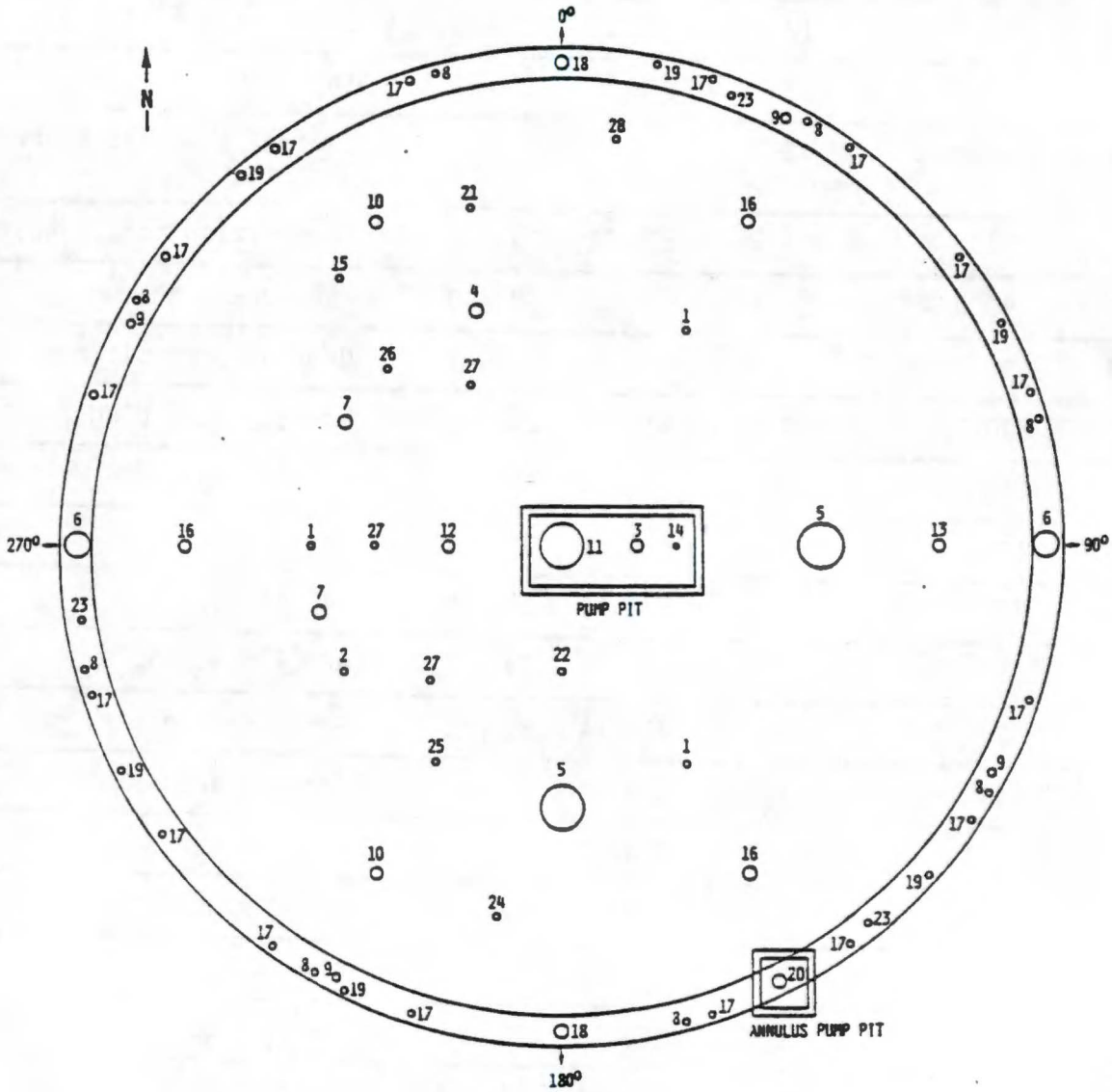
Tank No. AP 108.



Tank No. AP 108.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
9	297 nf	8		38 - 9	Annulus exhaust
10	210	12	678.13	30 - 0	Spare; riser plug
10	330	12	678.12	30 - 0	Spare; riser plug
11	Center	42		-	Central pump pit slurry distributor
12	270	12	678.12	9 - 0	Observation port - spare
13	90 N/A	12		30 - 0	Tank pressure
14	90	4		9 - 0	Central pump pit nozzle G
15	320	4	678.13	28 - 0	Spare; riser plug
16	30	12	678.14	30 - 0	SMP (tape)
16	150	12	678.13	30 - 0	SMP (tape)
16	270	12	678.13	30 - 0	SMP (tape)
17	18	6	679.71	39 - 3	Annulus access
17	36	6	678.14	39 - 3	Annulus access
17	54	6	678.14	39 - 3	Annulus access
17	72	6	678.13	39 - 3	Annulus access
17	108	6	678.15	39 - 3	Annulus access
17	126	6	678.14	39 - 3	Annulus access
17	144	6	679.72	39 - 3	Annulus access
17	162	6	678.14	39 - 3	Annulus access
17	198	6	678.14	39 - 3	Annulus access
17	216	6	678.14	39 - 3	Annulus access
17	236	6	678.14	39 - 3	Annulus access
17	252	6	678.14	39 - 3	Annulus access
17	288	6	678.14	39 - 3	Annulus access

Tank No. AP 108.

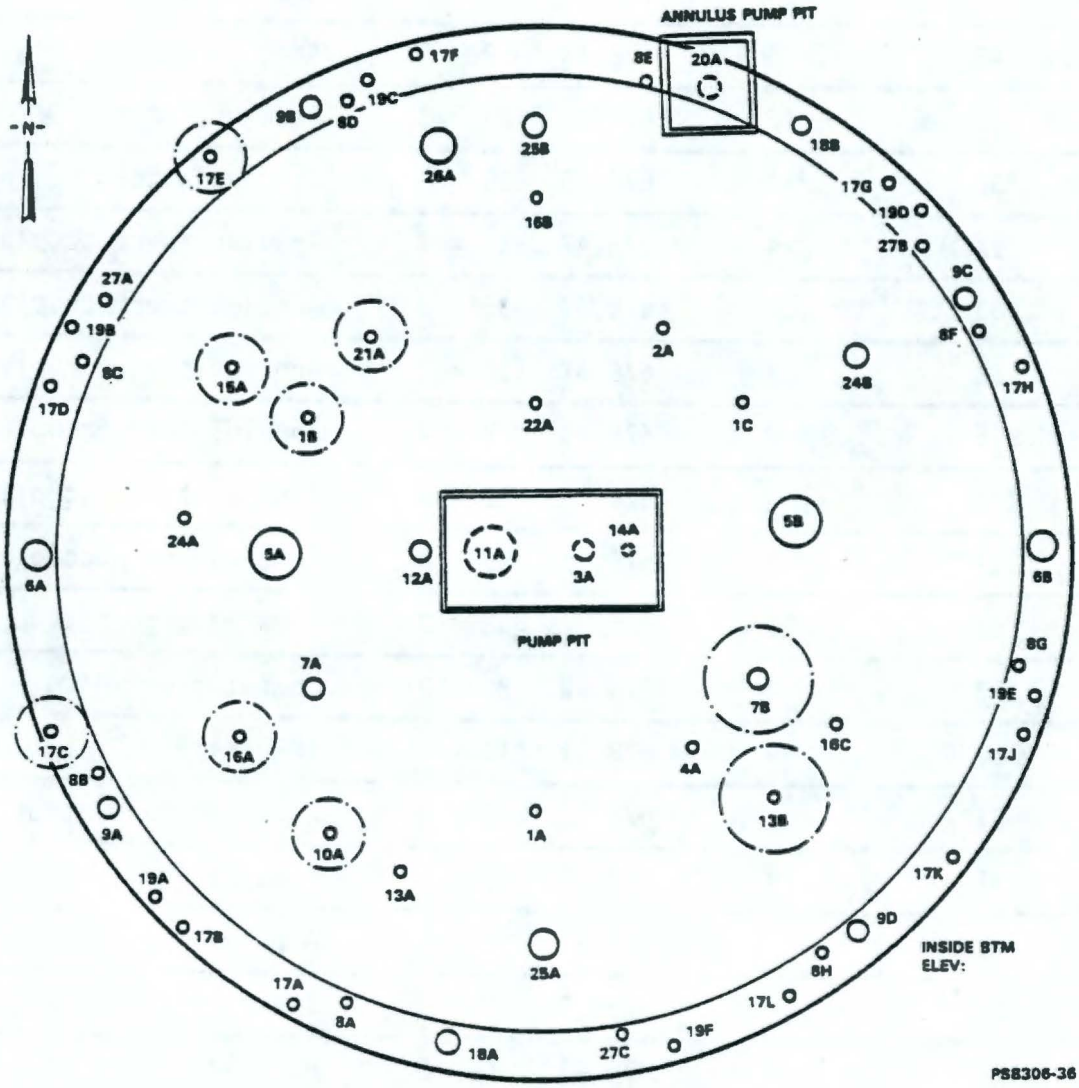


9 1 1 2 1 1 1 9 9 2

Tank No. AP 108.

Riser	Location (Degrees)	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17	306	6	678.14	39 - 3	Annulus access
17	324	6	678.14	39 - 3	Annulus access
17	342	6	678.14	39 - 3	Annulus access
18	0	12	678.13	39 - 0	Annulus access
18	180	12	678.15	39 - 0	Annulus access
19	11	4	676.47	39 - 4	Annulus thermocouples
19	63	4	676.47	39 - 4	Annulus thermocouples
19	132	4	676.47	39 - 4	Annulus thermocouples
19	206	4	676.46	39 - 4	Annulus thermocouples
19	243	4	676.47	39 - 4	Annulus thermocouples
19	319	4	676.46	39 - 4	Annulus thermocouples
20	153	12		38 - 9	Annulus pump pit pump riser
21	345	4	678.12	28 - 0	Spare; riser plug
22	180	4	678.11	10 - 0	SMP (tape)
23	21	4	679.70	38 - 9	Annulus leak detector
23	141	4	679.71	38 - 9	Annulus leak detector
23	261	4	679.71	38 - 9	Annulus leak detector
24	190	4	678.13	30 - 0	Spare; riser plug
25	210	4	676.44	20 - 0	High level sensor
26	315	4	679.69	20 - 0	Spare; riser plug
27	225	4	678.11	15 - 0	Spare; riser plug
27	270	4	678.11	15 - 0	Spare; riser plug
27	330	4	678.12	15 - 0	Spare; riser plug
28	7	4	678.12	33 - 0	Spare; riser plug

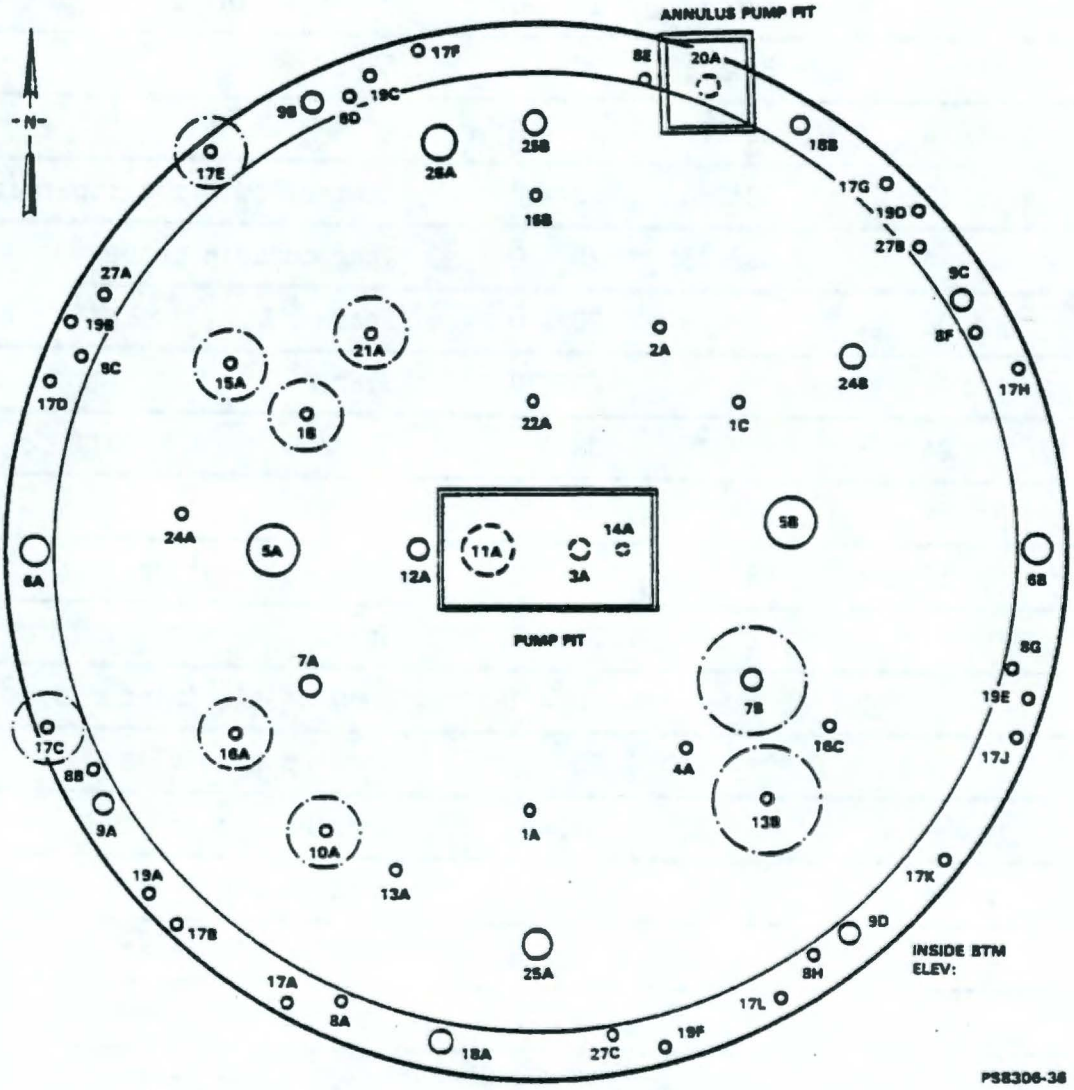
Tank No. AW 101.



Tank No. AW 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	687.75	20 - 0	LLI
B	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
C	4	687.75	20 - 0	SMP
2A	4	687.75	20 - 0	LIT
3A	12	681.70	3 - 0	Central pump pit supernatant pump
4A	4	687.75	20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
B	42		20 - 0	Spare
6A	24	687.75	38 - 6	Spare
B	24	687.75	38 - 6	Spare
7A	12	681.0	20 - 0	Tank ventilation
B	12	687.75	20 - 0	Spare
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 9	Annulus air outlet
B	8		38 - 9	Annulus air outlet
C	8		38 - 9	Annulus air outlet
D	8		38 - 9	Annulus air outlet

Tank No. AW 101.

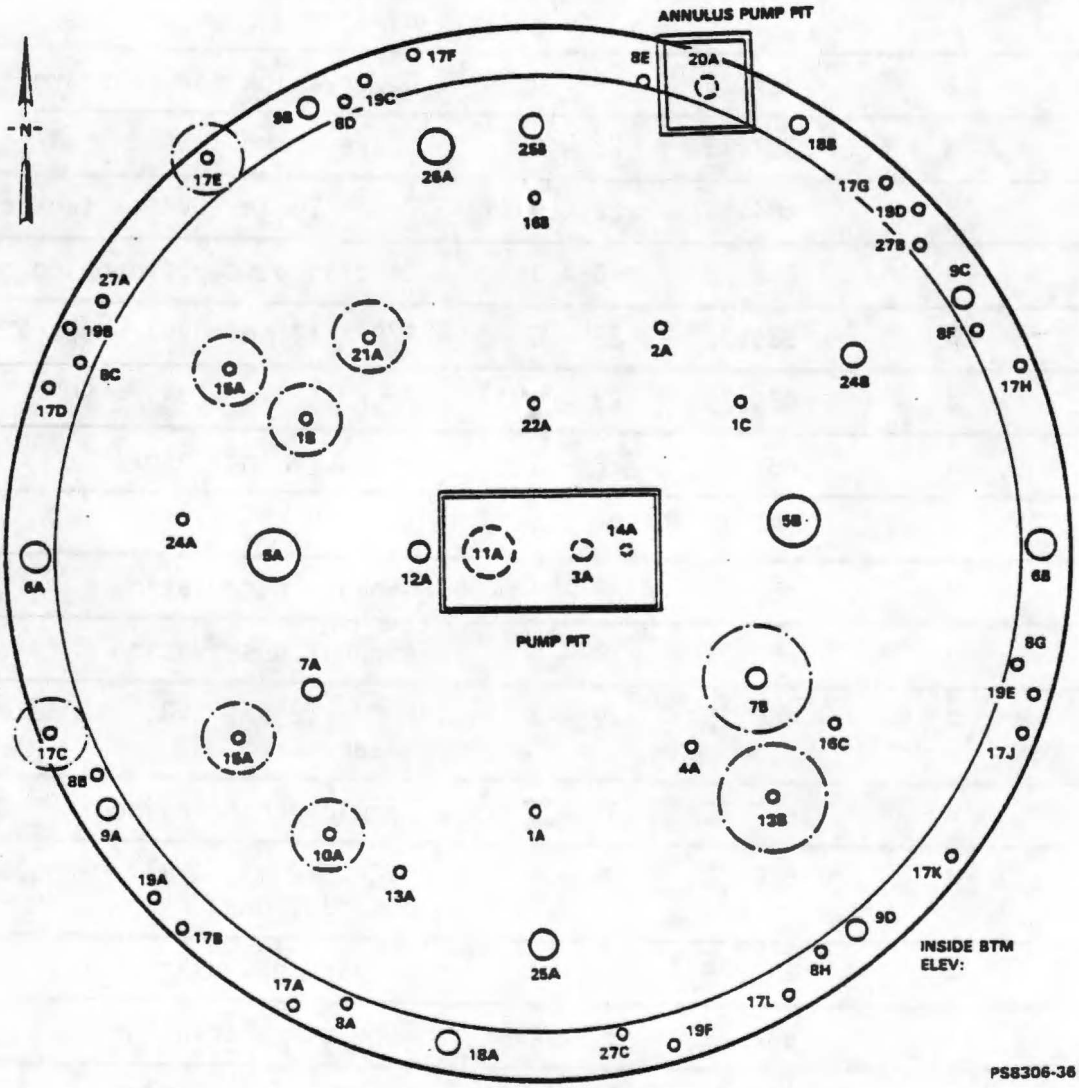


9 1 1 2 3 6 1 1 9 9 6

Tank No. AW 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10A	4	686.33	28 - 0	P/CP (12 in. CVR) - spare
11A	42	682.49	3 - 0	Central pump pit slurry distributor
12A	12	687.75	9 - 0	Observation port - spare
13A	4	687.75	28 - 0	Spare
B	4	684.58	28 - 0	P/CP (24 in. CVR) - tank pressure
14A	4	682.73	6 - 0	Central pump pit dropleg nozzle
15A	4	686.33	28 - 0	P/CP (12 in. CVR) - spare
16A	4	686.33	28 - 0	P/CP (12 in. CVR) - SMP
B	4	687.75	28 - 0	Pressure indicator
C	4	687.75	28 - 0	SMP
17A	4	687.75	39 - 4	Annulus observation
B	4	687.75	39 - 4	Annulus observation
C	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
D	4	687.75	39 - 4	Annulus observation
E	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
F	4	687.75	39 - 4	Annulus observation
G	4	687.75	39 - 4	Annulus observation
H	4	687.75	39 - 4	Annulus observation
J	4	687.75	39 - 4	Annulus observation
K	4	687.75	39 - 4	Annulus observation
L	4	687.75	39 - 4	Annulus observation
18A	12	687.75	38 - 9	Annulus access
B	12	687.75	38 - 9	Annulus access

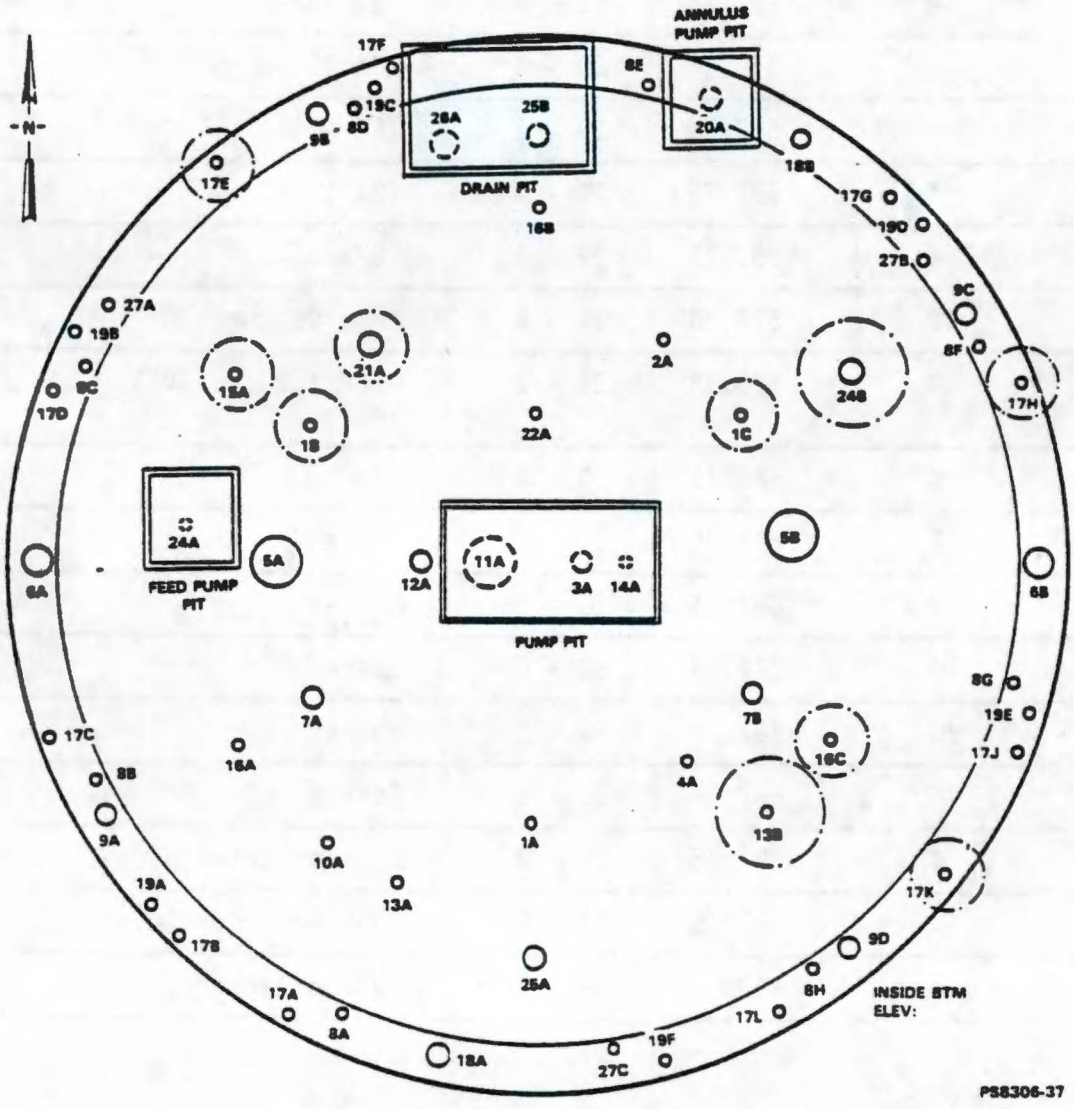
Tank No. AW 101.



Tank No. AW 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
19A	4	687.75	39 - 4	TBX 101-4
B	4	687.75	39 - 4	TBX 101-5
C	4	687.75	39 - 4	TBX 101-6
D	4	687.75	39 - 4	TBX 101-1
E	4	687.75	39 - 4	TBX 101-2
F	4	687.75	39 - 4	TBX 101-3
20A	12	677.88	38 - 9	Annulus pump
21A	4	686.33	38 - 0	P/CP (12 in. CVR) - high level sensor
22A	4	687.75	10 - 0	SMP
24A	12	687.75	30 - 0	Spare
B	12	687.75	30 - 0	Spare
25A	20	687.75	33 - 0	Spare
B	20	687.75	33 - 0	Spare
26A	36	687.75	33 - 8	Spare
27A	4	687.75	38 - 9	Leak detector 101-4
B	4	687.75	38 - 9	Leak detector 101-2
C	4	687.75	38 - 9	Leak detector 101-3

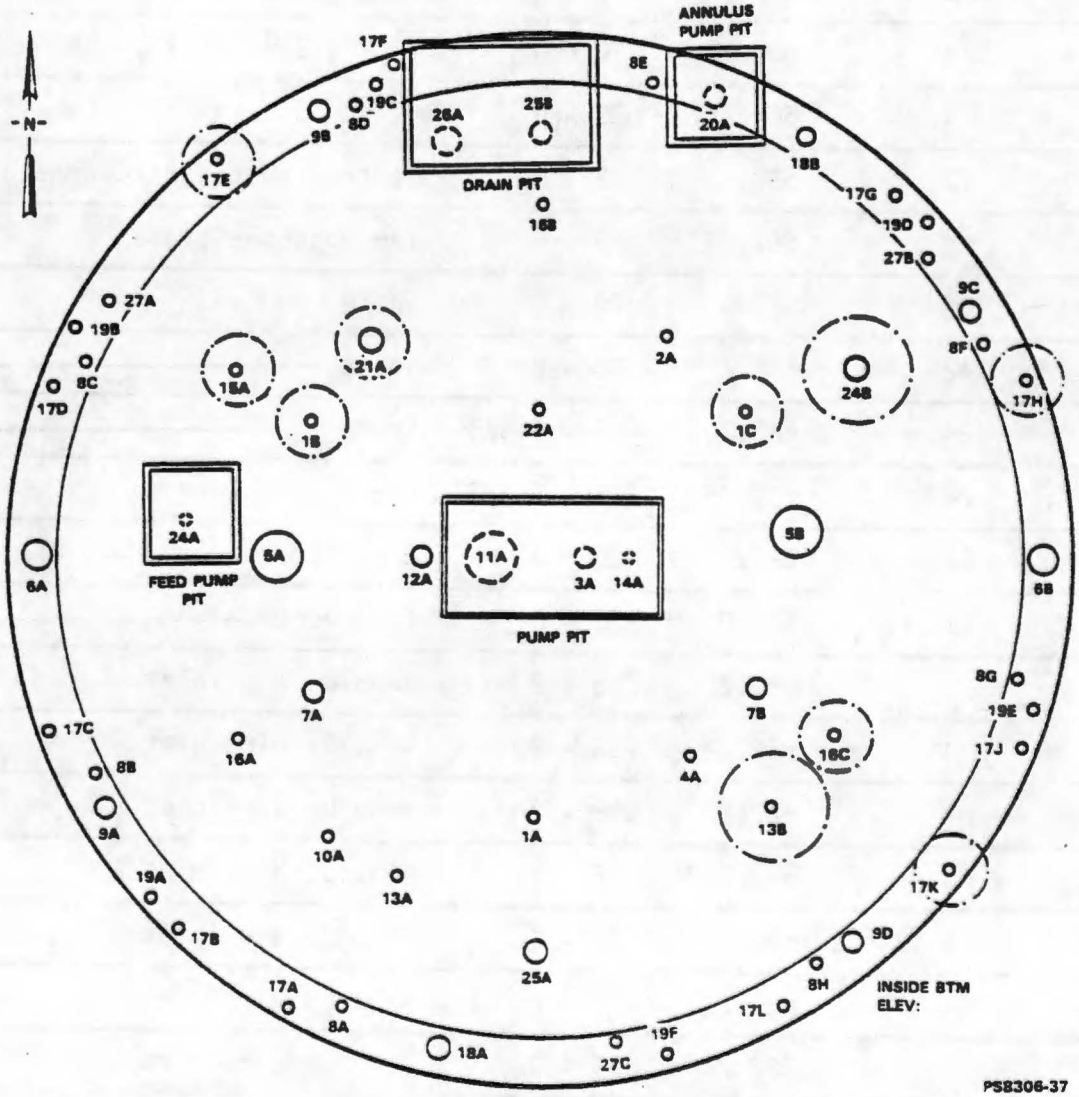
Tank No. AW 102.



Tank No. AW 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	687.75	20 - 0	LLI
B	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
C	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
2A	4	687.75	20 - 0	LIT
3A	12	681.68	3 - 0	Central pump pit supernatant pump
4A	4	687.75	20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
B	42		20 - 0	Spare
6A	24	687.75	38 - 6 3/8	Spare
B	24	687.75	38 - 6 3/8	Spare
7A	12	687.75	20 - 0	Specific gravity
B	12	681.0	20 - 0	Tank ventilation
8A	4	682.27	38 - 2	Annulus air inlet
B	4	682.27	38 - 2	Annulus air inlet
C	4	682.27	38 - 2	Annulus air inlet
D	4	682.27	38 - 2	Annulus air inlet
E	4	682.27	38 - 2	Annulus air inlet
F	4	682.27	38 - 2	Annulus air inlet
G	4	682.27	38 - 2	Annulus air inlet
H	4	682.27	38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

Tank No. AW 102.

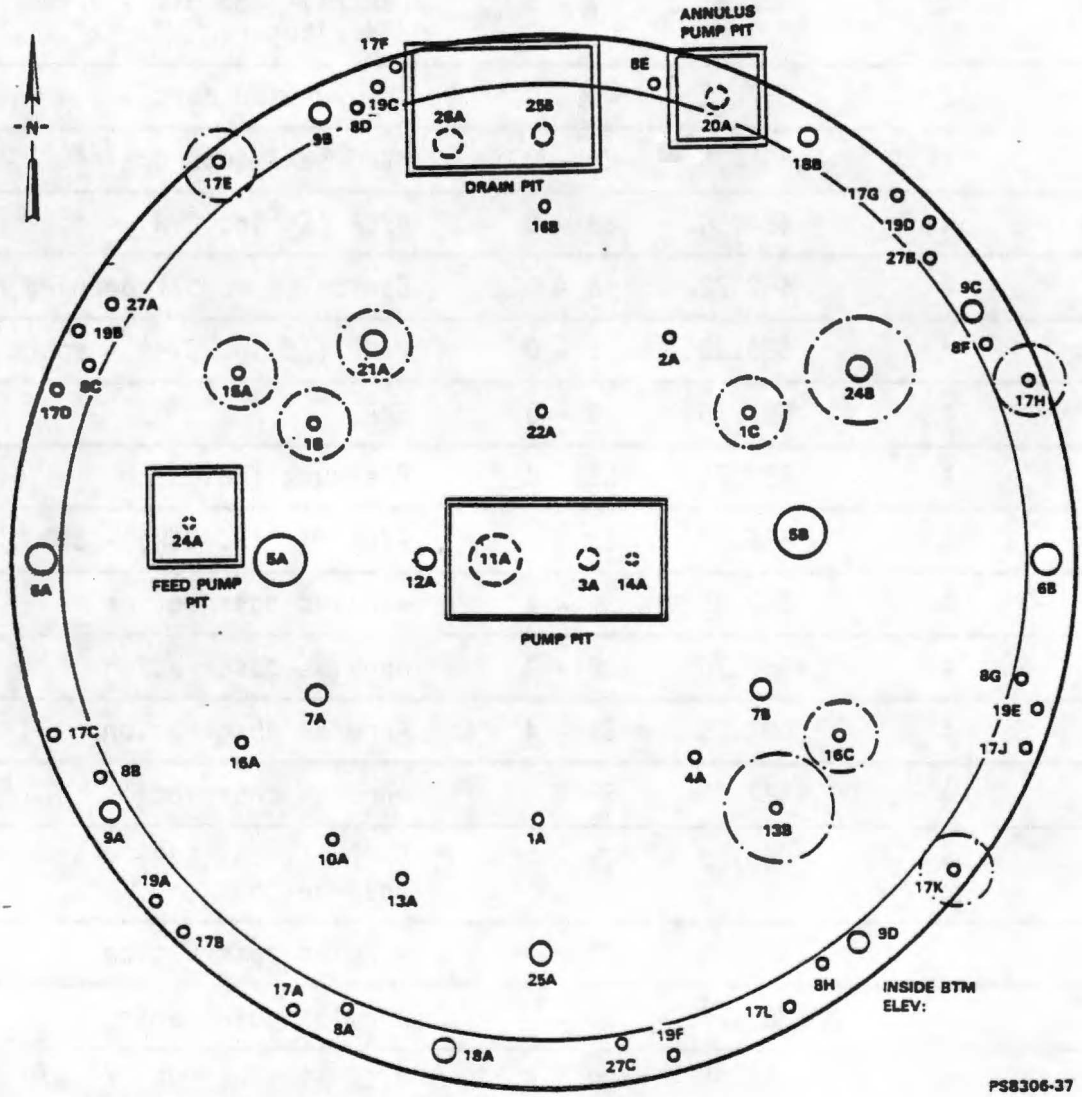


Tank No. AW 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10A	4		28 - 0	Flush pit/service pit drain
11A	42	682.47	3 - 0	Central pump pit slurry distributor
12A	12	687.75	9 - 0	Observation port - spare
13A	4	681.38	28 - 0	HVAC seal pots drain
B	4	684.58	28 - 0	P/CP (24 in. CVR) - tank pressure
14A	4	682.72	6 - 0	Central pump pit dropleg nozzle
15A	4	686.33	28 - 0	P/CP (12 in. CVR) - spare
16A	4	687.75	28 - 0	SMP
B	4	687.75	28 - 0	Pressure indicator
C	4	686.77	28 - 0	P/CP (12 in. CVR) - SMP
17A	4	687.75	39 - 4	Annulus observation
B	4	687.75	39 - 4	Annulus observation
C	4	687.75	39 - 4	Annulus observation
D	4	687.75	38 - 4	Annulus observation
E	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
F	4	687.75	39 - 4	Annulus observation
G	4	687.75	39 - 4	Annulus observation
H	4	686.33	39 - 4	P/CP (12 in. CVR) (field ID 17B) Annulus observation
J	4	687.75	39 - 4	Annulus observation
K	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
L	4	687.75	39 - 4	Annulus observation

9112362 0 03

Tank No. AW 102.



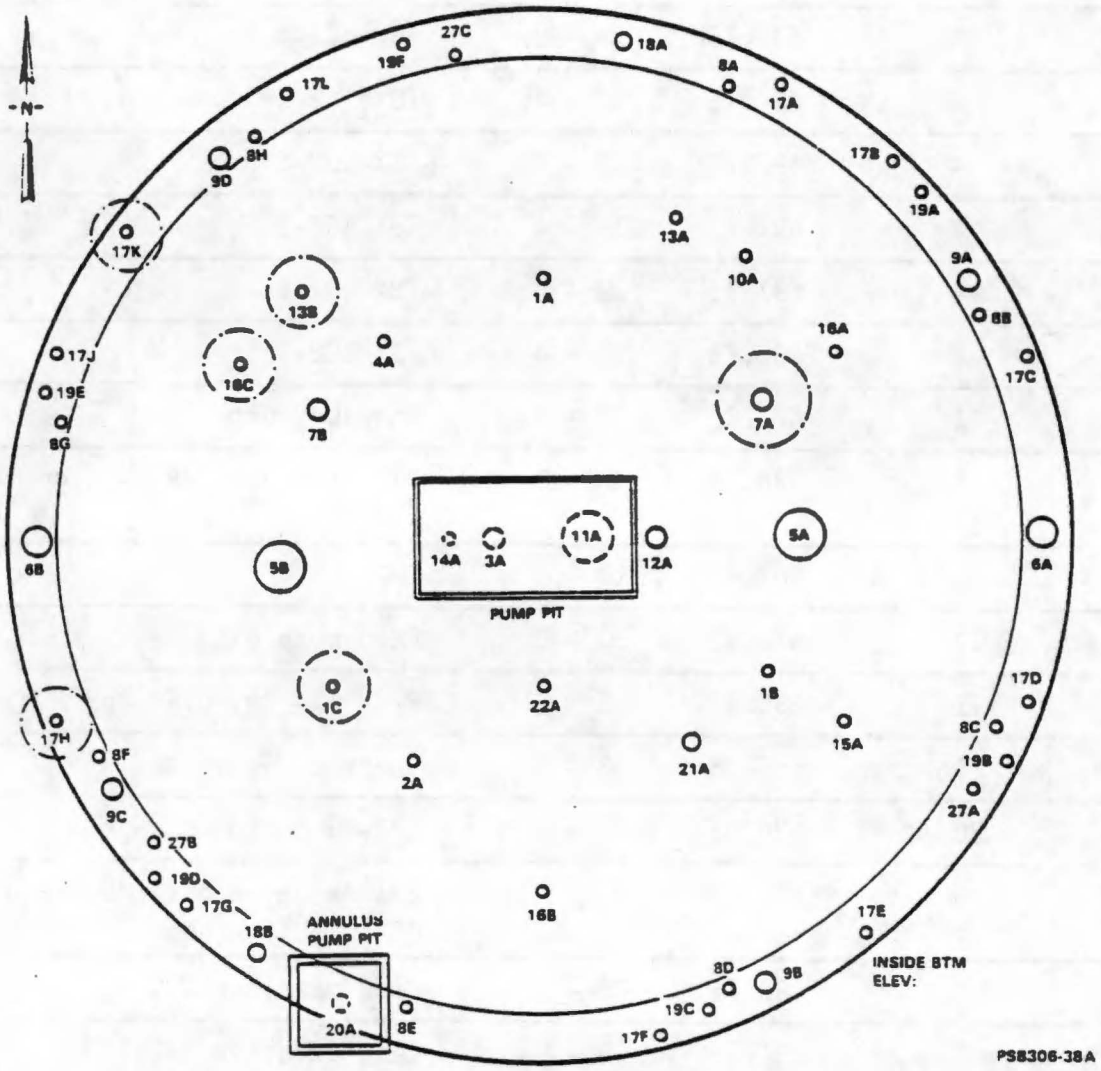
PS8306-37

9112312004

Tank No. AW 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
18A	12	687.75	38 - 9	Annulus access
B	12	687.75	38 - 9	Annulus access
19A	4	687.75	39 - 4	TBX 102-4
B	4	687.75	39 - 4	TBX 102-5
C	4	687.75	39 - 4	TBX 102-6
D	4	687.75	39 - 4	TBX 102-1
E	4	687.75	39 - 4	TBX 102-2
F	4	687.75	39 - 4	TBX 102-3
20A	12	677.88	38 - 9	Annulus pump
21A	4	686.33	28 - 0	P/CP (12 in. CVR) - high level sensor
22A	4	687.75	10 - 0	SMP
24A	12	677.92	30 - 0	Feed pump pit
B	12	686.33	30 - 0	P/CP (24 in. CVR) spare
25A	20	687.75	33 - 0	Spare
B	20	676.05	33 - 0	272-AW decon. shower drain
26A	36	676.17	33 - 8	241-AW valve pit and 242-A bldg. drain
27A	4	687.75	38 - 9	Leak detector 102-4
B	4	687.75	38 - 9	Leak detector 102-2
C	4	687.75	38 - 9	Leak detector 102-3

Tank No. AW 103.

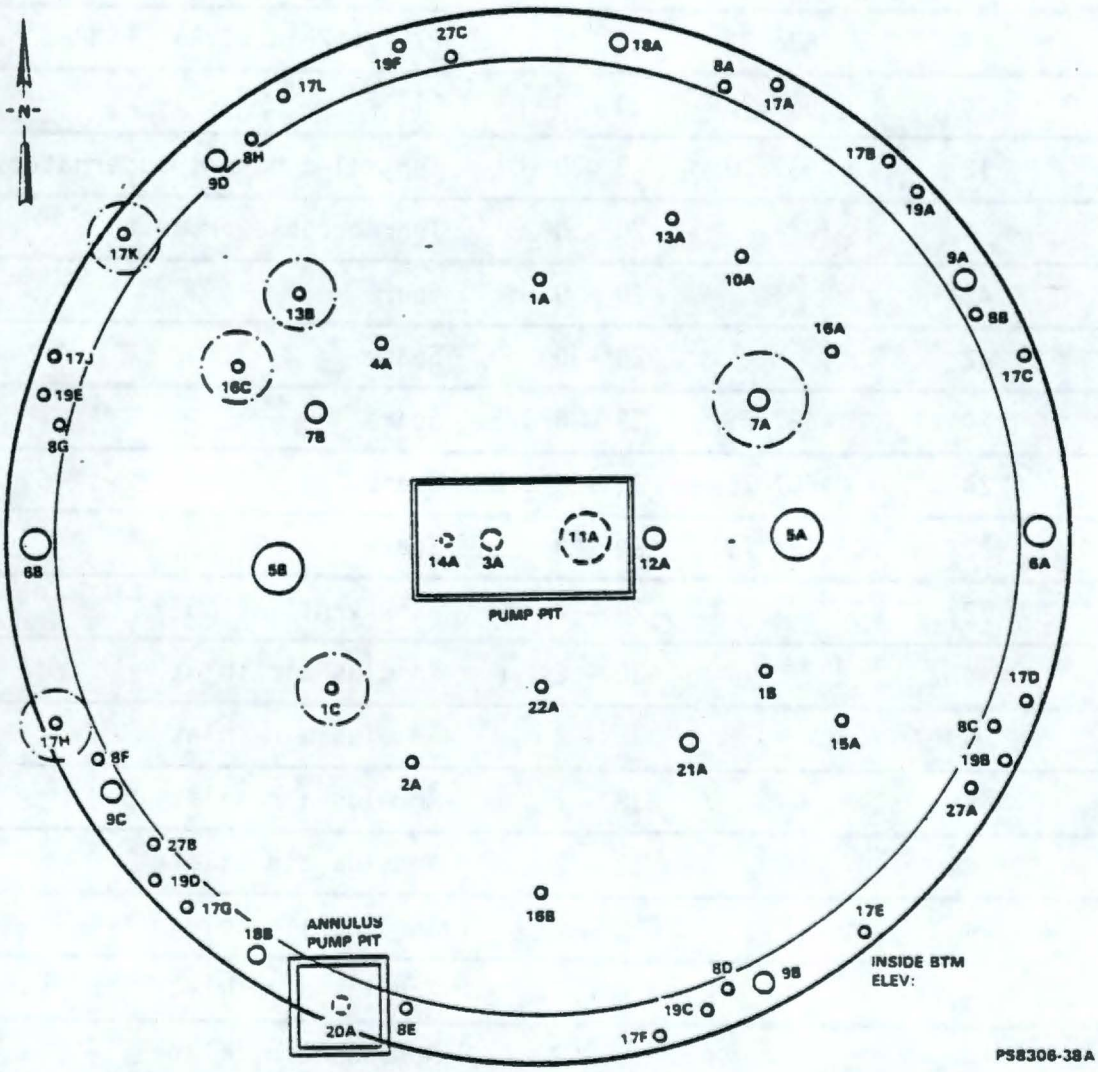


9 1 1 2 3 6 1 2 0 0 6

Tank No. AW 103.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	687.75	20 - 0	LLI
B	4	687.75	20 - 0	SMP
C	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
2A	4	687.75	20 - 0	LIT
3A	12	681.70	3 - 0	Central pump pit supernatant pump
4A	4		20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
B	42		20 - 0	Spare
6A	24	687.75	38 - 6 3/8	Spare
B	24	687.75	38 - 6 3/8	Spare
7A	12	687.75	20 - 0	Spare
B	12		20 - 0	Tank ventilation
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

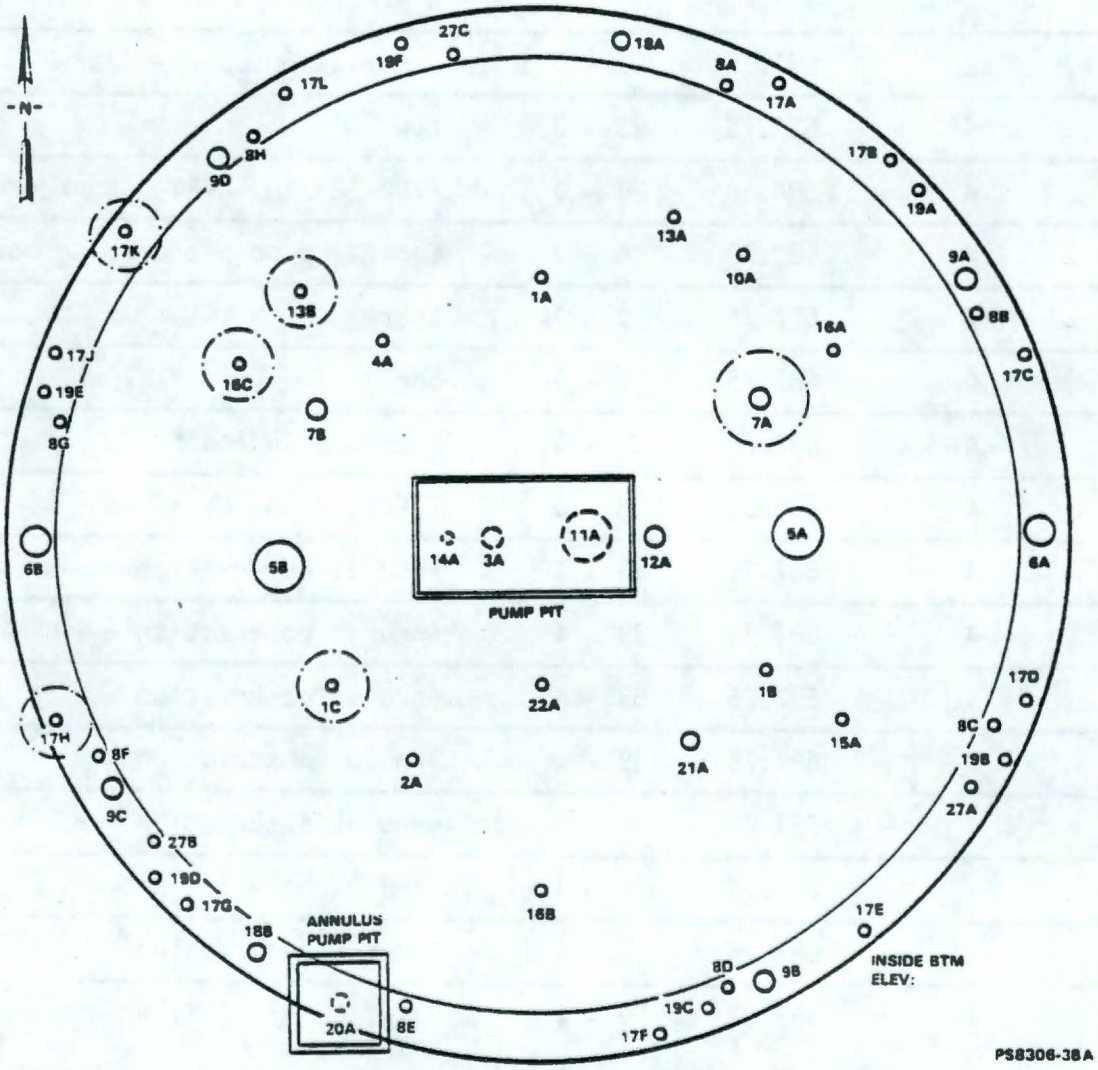
Tank No. AW 103.



Tank No. AW 103.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10A	4	686.33	28 - 0	Spare
11A	42	682.48	3 - 0	Central pump pit slurry distributor
12A	12	687.75	9 - 0	Observation port - spare
13A	4	687.75	28 - 0	LOW
B	4	684.58	28 - 0	P/CP (24 in. CVR) - tank pressure
14A	4	682.73	6 - 0	Central pump pit dropleg nozzle
15A	4	687.75	28 - 0	Spare
16A	4	687.75	28 - 0	SMP
B	4	687.75	28 - 0	Pressure indicator
C	4	686.33	28 - 0	P/CP (12 in. CVR) - SMP
17A	4	687.75	39 - 4	Annulus observation
B	4	687.75	39 - 4	Annulus observation
C	4	687.75	39 - 4	Annulus observation
D	4	687.75	39 - 4	Annulus observation
E	4	687.75	39 - 4	Annulus observation
F	4	687.75	39 - 4	Annulus observation
G	4	687.75	39 - 4	Annulus observation
H	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
J	4	687.75	39 - 4	Annulus observation
K	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
L	4	687.75	39 - 4	Annulus observation

Tank No. AW 103

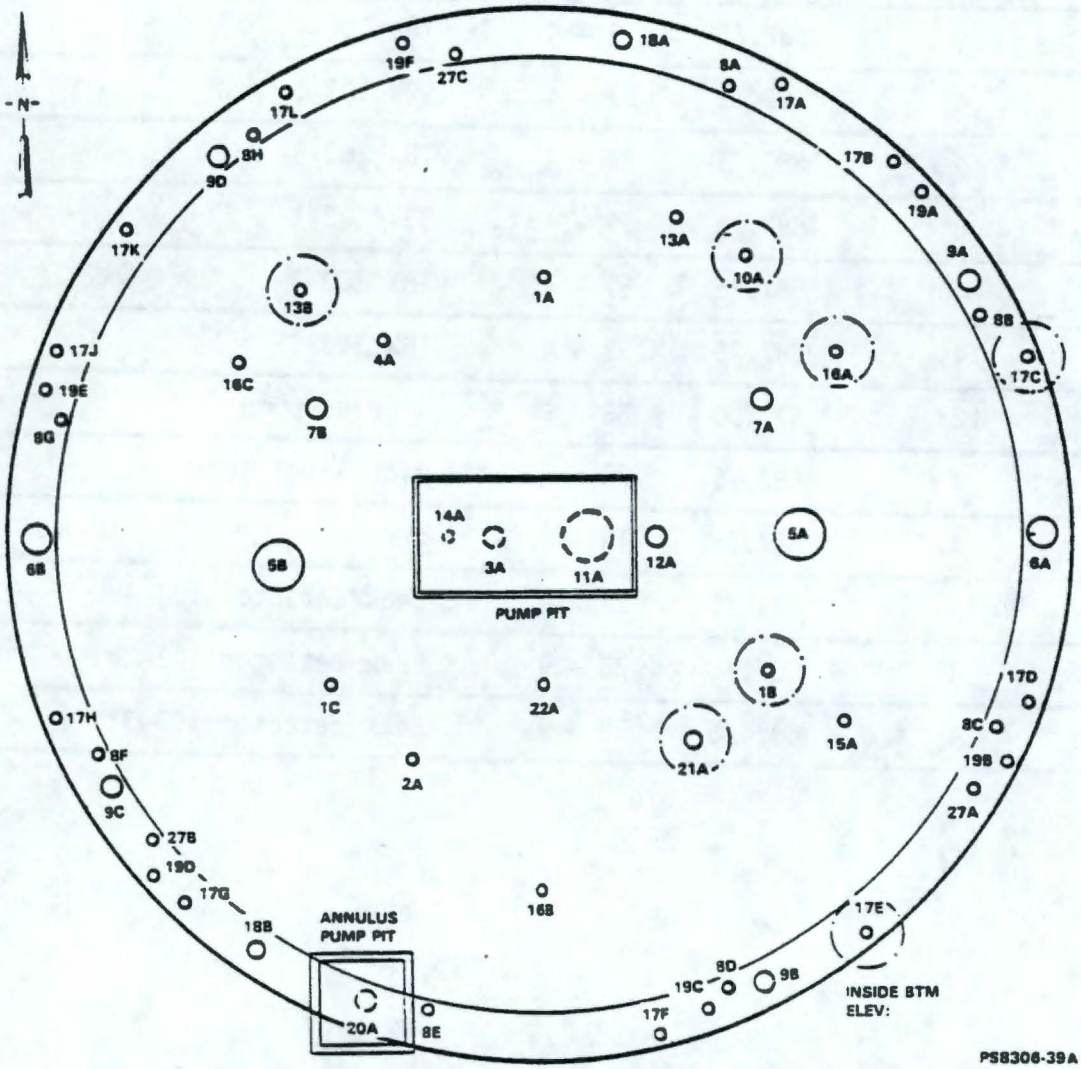


Tank No. AW 103.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
18A	12	687.75	38 - 9	Annulus access
B	12	687.75	38 - 9	Annulus access
19A	4	687.75	39 - 4	TBX 103-4
B	4	687.75	39 - 4	TBX 103-5
C	4	687.75	39 - 4	TBX 103-6
D	4	687.75	39 - 4	TBX 103-1
E	4	687.75	39 - 4	TBX 103-2
F	4	687.75	39 - 4	TBX 103-3
20A	12	677.90	38 - 9	Annulus pump
21A	4	687.75	28 - 0	High level sensor
22A	4	687.75	10 - 0	SMP
27A	4	687.75	38 - 9	Leak detector 103-4
B	4	687.75	38 - 9	Leak detector 103-2
C	4	687.75	38 - 9	Leak detector 103-3

9112715.12011

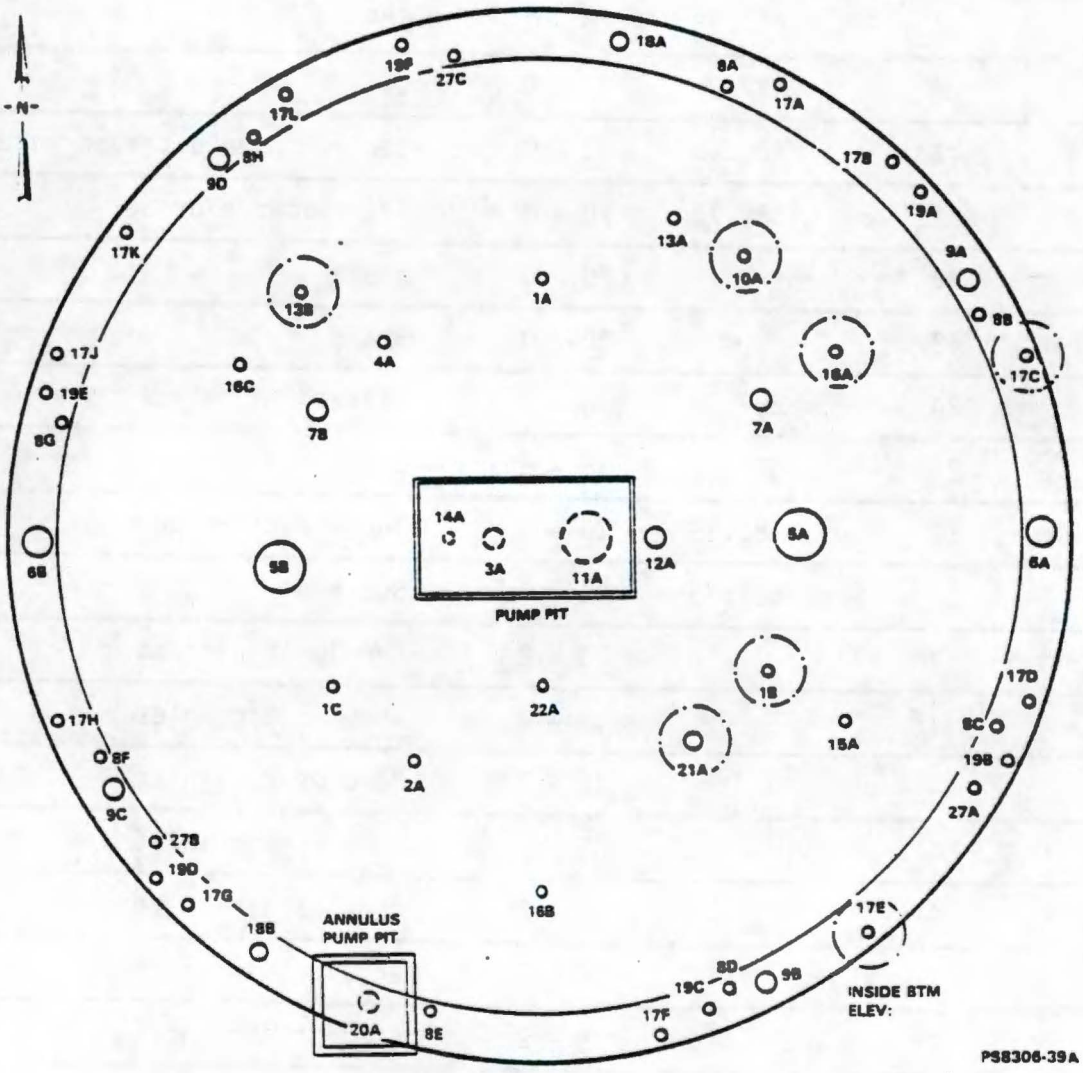
Tank No. AW 104.



Tank No. AW 104.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	687.75	20 - 0	LLI
B	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
C	4	687.75	20 - 0	SMP
2A	4	687.75	20 - 0	LIT
3A	12	681.68	3 - 0	Central pump pit supernatant pump
4A	4	687.75	20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
B	42		20 - 0	Spare
6A	24	687.75	38 - 6 3/8	Spare
B	24	687.75	38 - 6 3/8	Spare
7A	12	682.88	20 - 0	Tank ventilation
B	12	687.75	20 - 0	Spare
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

Tank No. AW 104.



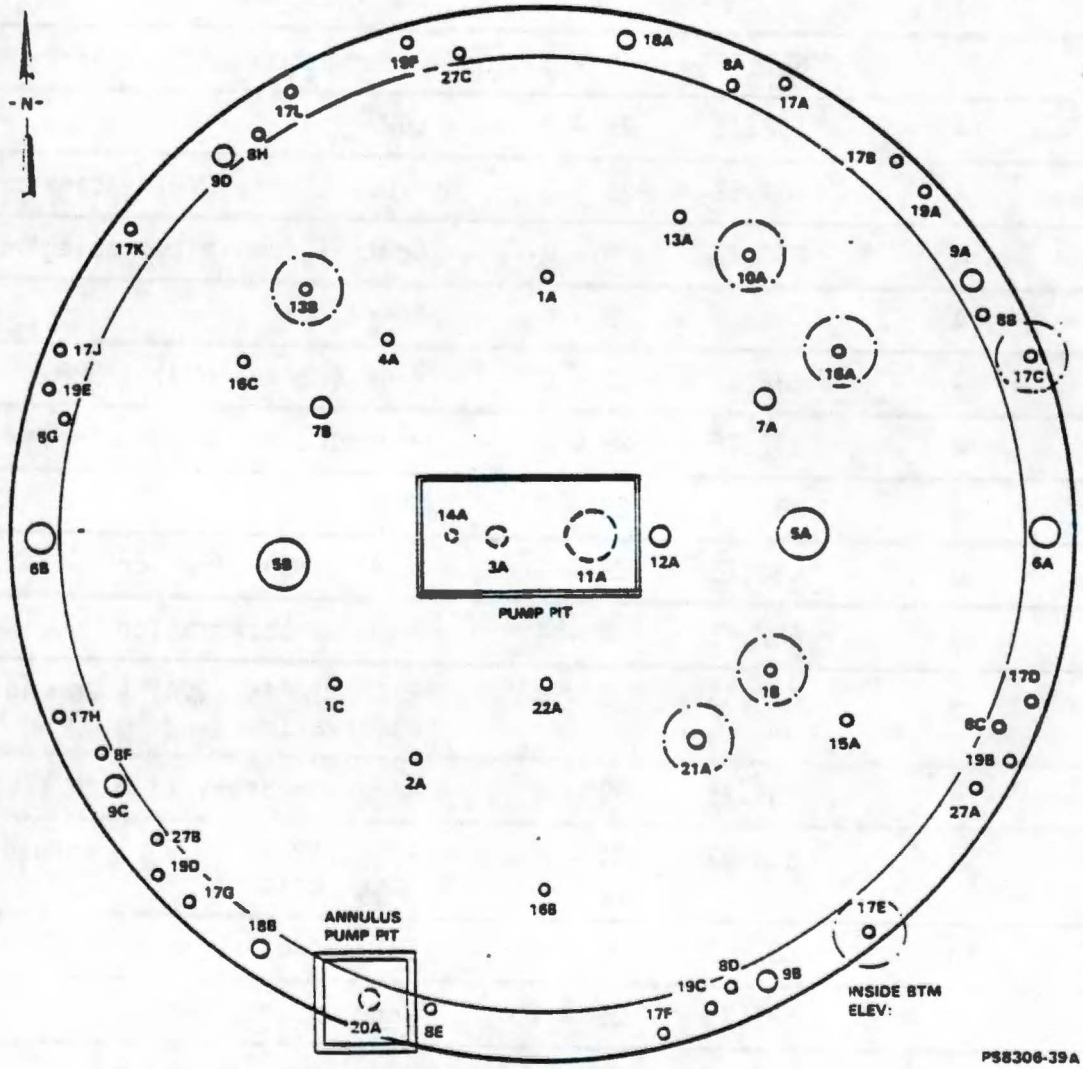
9 1 1 2 3 6 4 2 0 1 4

Tank No. AW 104.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10A	4	686.33	28 - 0	P/CP (12 in. CVR) - spare
11A	42	682.47	3 - 0	Central pump pit slurry distributor
12A	12	687.75	9 - 0	Observation port - spare
13A	4	687.75	28 - 0	LOW
B	4	684.58	28 - 0	P/CP (12 in. CVR) - tank pressure
14A	4	682.73	6 - 0	Central pump pit dropleg nozzle
15A	4		28 - 0	Spare
16A	4	686.33	28 - 0	P/CP (12 in. CVR) - SMP
B	4	687.75	28 - 0	Pressure indicator
C	4	687.75	28 - 0	SMP
17A	4	687.75	39 - 4	Annulus observation
B	4	687.75	39 - 4	Annulus observation
C	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
D	4	687.75	39 - 4	Annulus observation
E	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
F	4	687.75	39 - 4	TBX 104-6
G	4	687.75	39 - 4	Annulus observation
H	4	687.75	39 - 4	Annulus observation
J	4	687.75	39 - 4	Annulus observation
K	4	687.75	39 - 4	Annulus observation
L	4	687.75	39 - 4	Annulus observation

9 1 1 2 3 6 4 2 0 1 5

Tank No. AW 104.

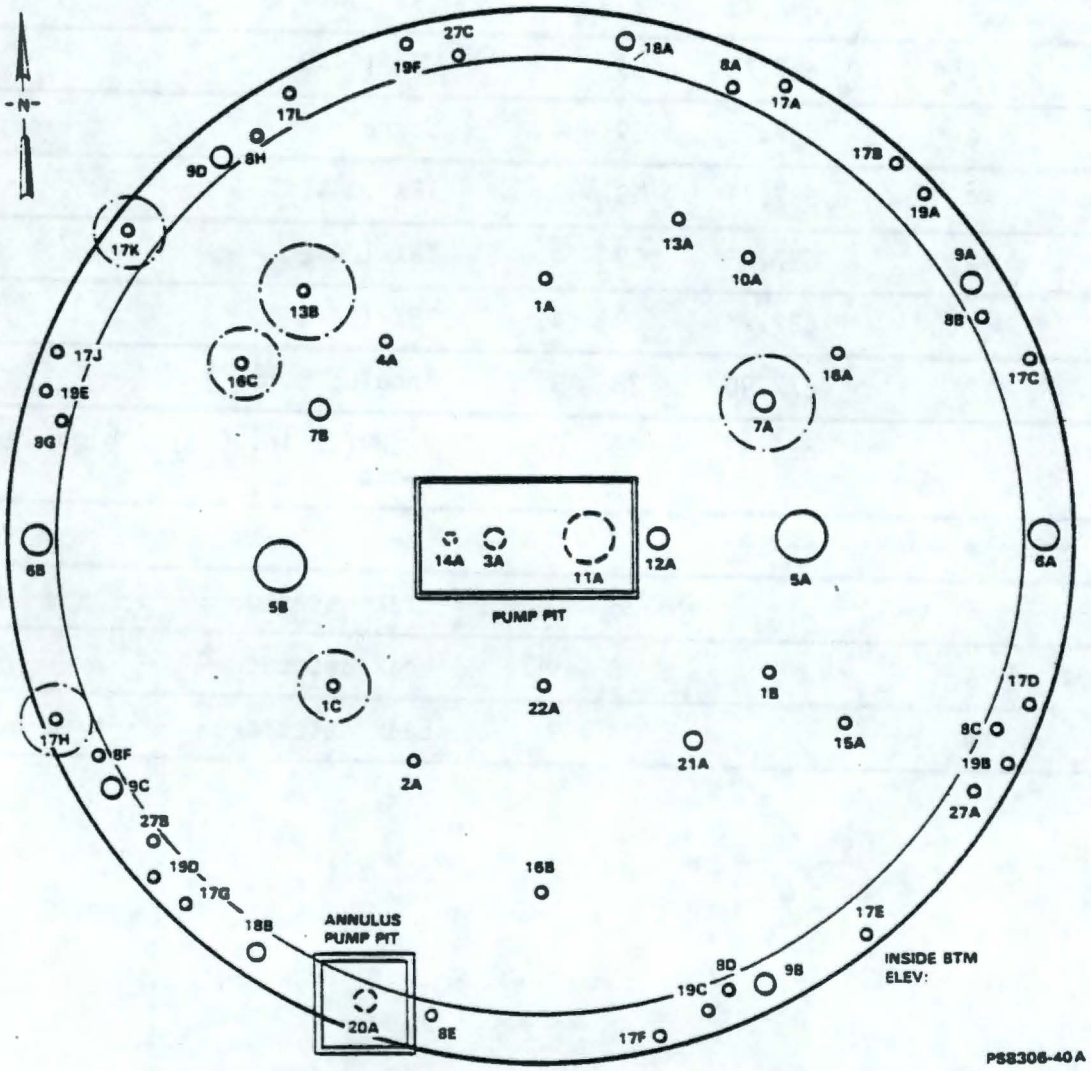


9 1 1 2 3 6 1 2 0 1 6

Tank No. AW 104.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
18A	12	687.75	38 - 9	Annulus access
B	12	687.75	38 - 9	Annulus access
19A	4	687.75	39 - 4	TBX 104-4
B	4	687.75	39 - 4	TBX 104-5
C	4	687.75	39 - 4	Spare
D	4	687.75	39 - 4	TBX 104-1
E	4	687.75	39 - 4	TBX 104-2
F	4	687.75	39 - 4	TBX 104-3
20A	12	677.90	38 - 9	Annulus pump
21A	4	686.33	28 - 0	P/CP (12 in. CVR) - high level sensor
22A	4	687.75	10 - 0	SMP
27A	4		38 - 9	Leak detector 2
B	4		38 - 9	Leak detector 4
C	4		38 - 9	Leak detector 3

Tank No. AW 105.

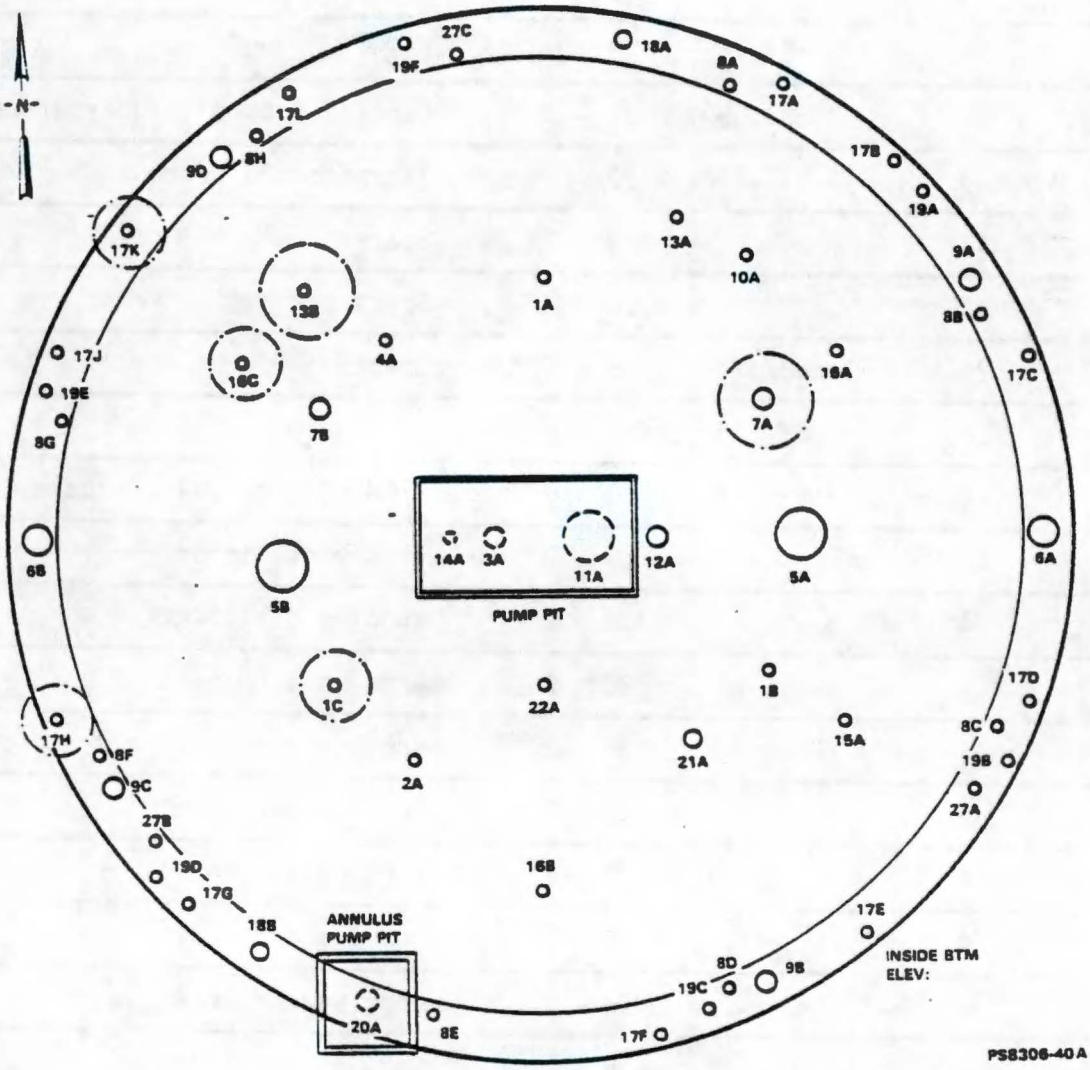


Tank No. AW 105.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	687.75	20 - 0	LLI
B	4	687.75	20 - 0	SMP
C	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
2A	4	687.75	20 - 0	LIT
3A	12	681.69	3 - 0	Central pump pit supernatant pump
4A	4	687.75	20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
B	42		20 - 0	Spare
6A	24	687.75	38 - 6 3/8	Spare
B	24	687.75	38 - 6 3/8	Spare
7A	12	687.75	20 - 0	P/CP (24 in. CVR) - spare
B	12		20 - 0	Tank ventilation
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 4	Annulus air outlet
B	8		38 - 4	Annulus air outlet
C	8		38 - 4	Annulus air outlet
D	8		38 - 4	Annulus air outlet

9 1 1 2 7 5 1 2 0 1 9

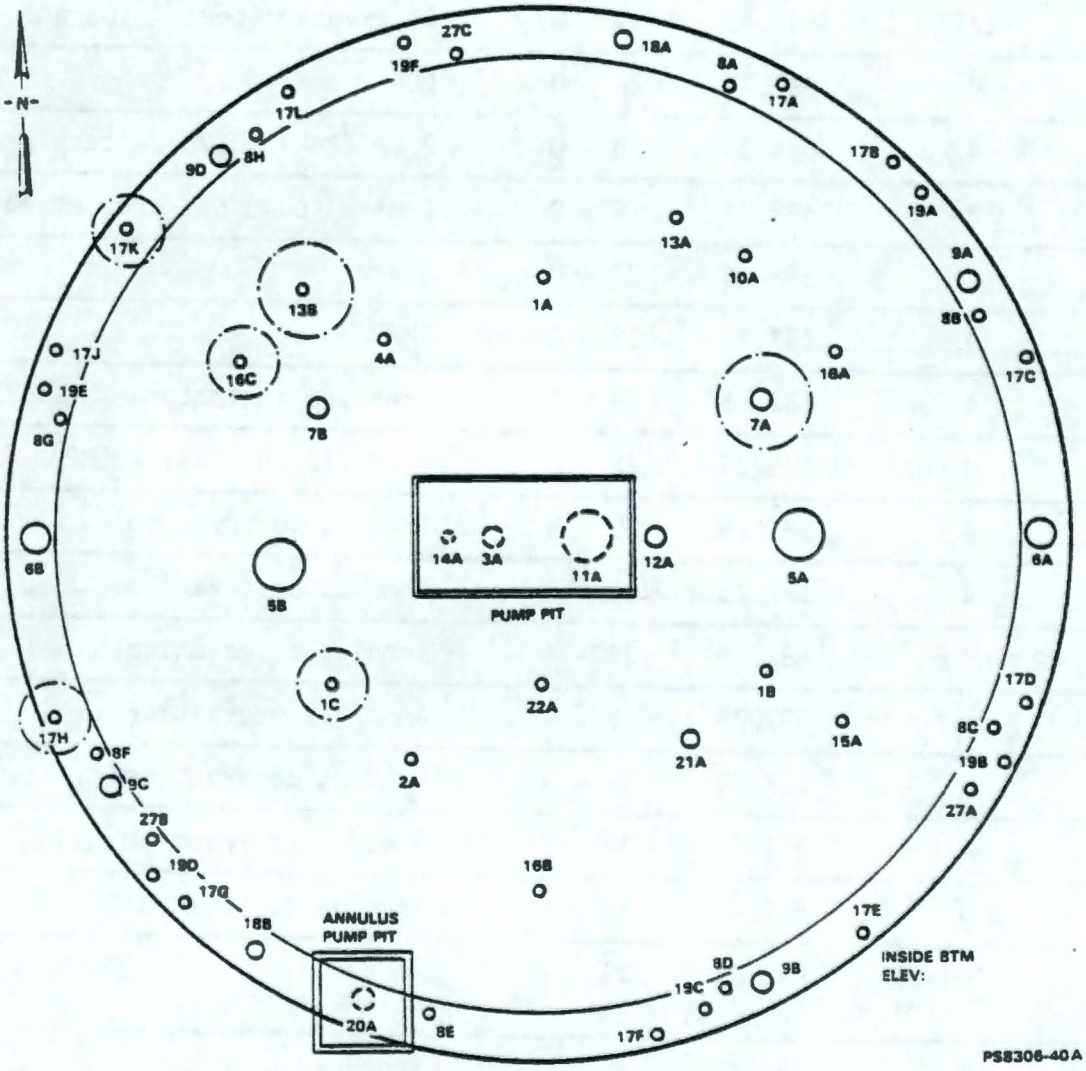
Tank No. AW 105.



Tank No. AW 105.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10A	4	687.75	28 - 0	Spare
11A	42	682.48	3 - 0	Central pump pit slurry distributor
12A	12	687.75	9 - 0	Observation port - spare
13A	4	687.75	28 - 0	LOW
B	4	684.58	28 - 0	P/CP (24 in. CVR) - tank pressure
14A	4	682.74	6 - 0	Central pump pit dropleg nozzle
15A	4	687.75	28 - 0	Spare
16A	4	687.75	28 - 0	SMP
B	4	687.75	28 - 0	Pressure indicator
C	4	686.33	28 - 0	P/CP (12 in. CVR) - SMP
17A	4	687.75	39 - 4	Annulus observation
B	4	687.75	39 - 4	Annulus observation
C	4	687.75	39 - 4	Annulus observation
D	4	687.75	39 - 4	Annulus observation
E	4	687.75	39 - 4	Annulus observation
F	4	687.75	39 - 4	Annulus observation
G	4	687.75	39 - 4	Annulus observation
H	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
J	4	687.75	39 - 4	Annulus observation
K	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
L	4	687.75	39 - 4	Annulus observation
18A	12	687.75	38 - 9	Annulus access
B	12	687.75	38 - 9	Annulus access

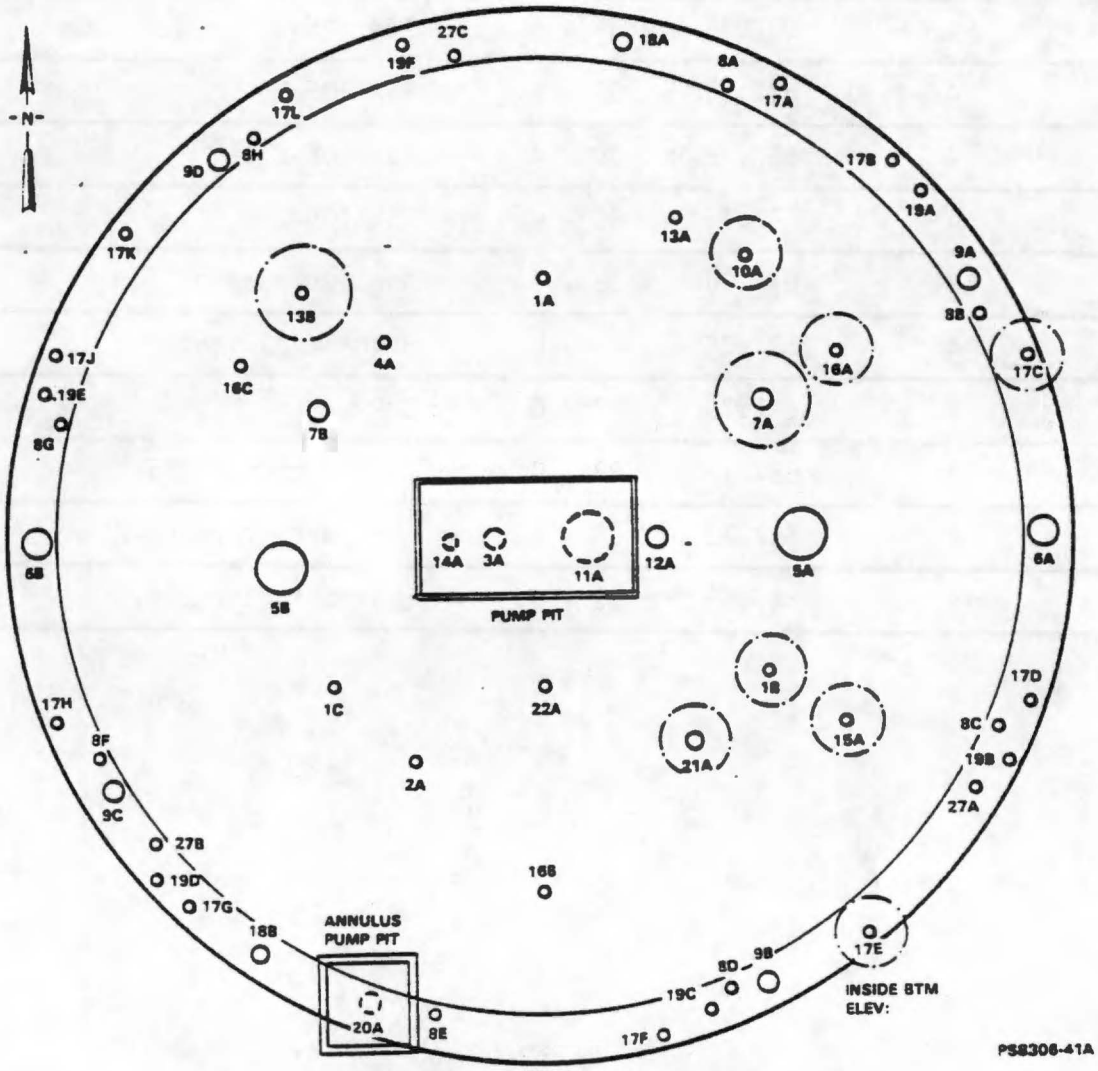
Tank No. AW 105.



Tank No. AW 105.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
19A	4	687.75	39 - 4	TBX 105-4
B	4	687.75	39 - 4	TBX 105-5
C	4	687.75	39 - 4	TBX 105-6
D	4	687.75	39 - 4	TBX 105-1
E	4	687.75	39 - 4	TBX 105-2
F	4	687.75	39 - 4	TBX 105-3
20A	12	677.90	38 - 9	Annulus pump
21A	4	687.75	28 - 0	High level sensor
22A	4	687.75	10 - 0	SMP
27A	4	687.75	38 - 9	Leak detector 105-4
B	4	687.75	38 - 9	Leak detector 105-2
C	4	687.75	38 - 9	Leak detector 105-3

Tank No. AW 106.

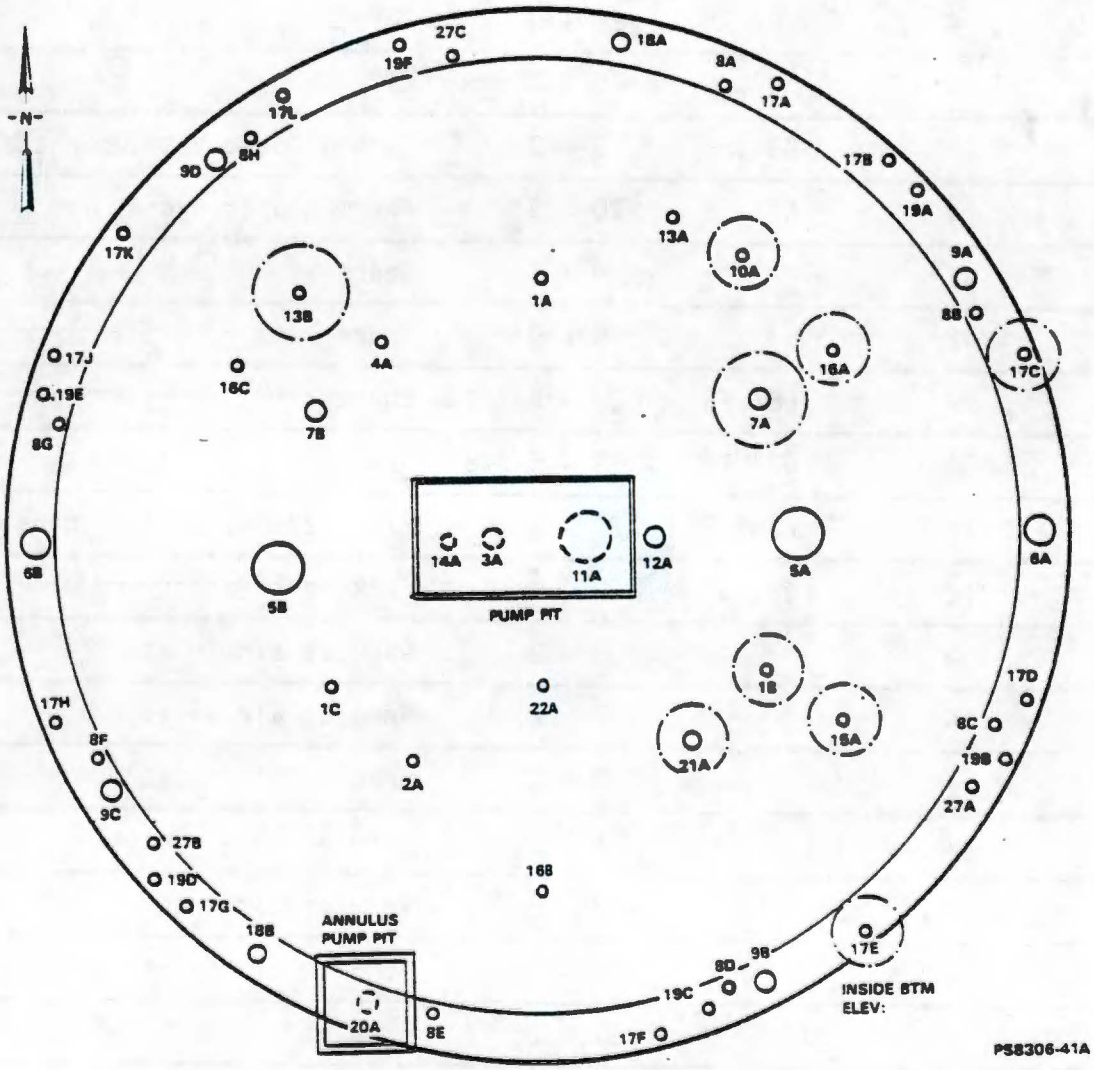


Tank No. AW 106.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	687.75	20 - 0	LLI
B	4	686.33	20 - 0	P/CP (12 in. CVR) - SMP
C	4	687.75	20 - 0	SMP
2A	4	687.75	20 - 0	LIT
3A	12	681.68	3 - 0	Central pump pit supernatant pump
4A	4	687.75	20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
B	42		20 - 0	Spare
6A	24	687.75	38 - 6 3/8	Spare
B	24	687.75	38 - 6 3/8	Spare
7A	12	686.33	20 - 0	P/CP (24 in. CVR) - spare
B	12	681.00	20 - 0	Tank ventilation
8A	4		38 - 2	Annulus air inlet
B	4		38 - 2	Annulus air inlet
C	4		38 - 2	Annulus air inlet
D	4		38 - 2	Annulus air inlet
E	4		38 - 2	Annulus air inlet
F	4		38 - 2	Annulus air inlet
G	4		38 - 2	Annulus air inlet
H	4		38 - 2	Annulus air inlet
9A	8		38 - 9	Annulus air outlet
B	8		38 - 9	Annulus air outlet
C	8		38 - 9	Annulus air outlet
D	8		38 - 9	Annulus air outlet

9 1 1 2 7 5 4 2 0 2 5

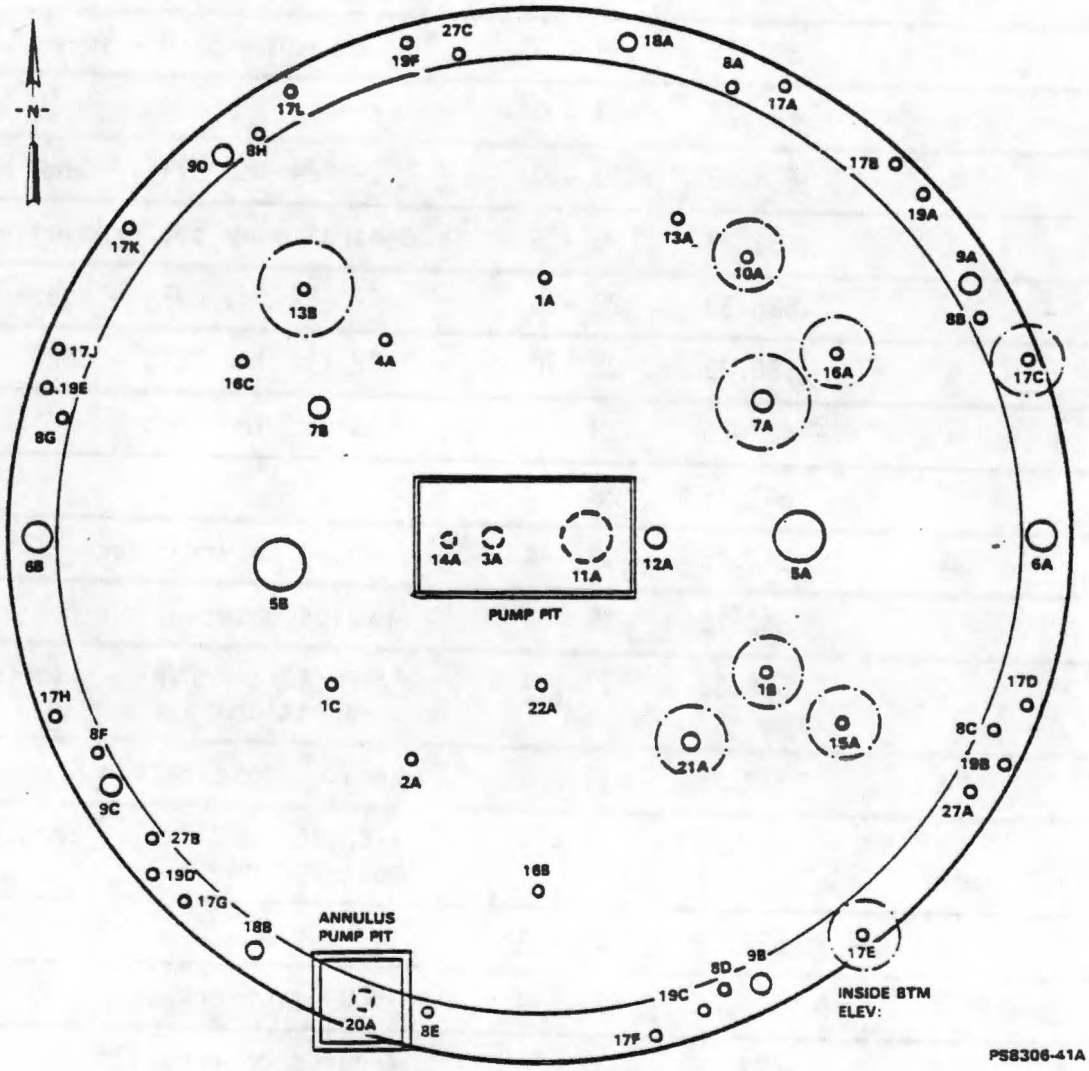
Tank No. AW 106.



Tank No. AW 106.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10A	4	686.33	28 - 0	P/CP (12 in. CVR) - spare
11A	42	682.46	3 - 0	Central pump pit slurry distributor
12A	12	687.75	9 - 0	Observation port - spare
13A	4	687.75	28 - 0	Spare
B	4	684.58	28 - 0	P/CP (24 in. CVR) - tank pressure
14A	4	682.73	6 - 0	Central pump pit dropleg nozzle
15A	4	686.33	28 - 0	P/CP (12 in. CVR) - spare
16A	4	686.33	28 - 0	P/CP (12 in. CVR) - SMP
B	4	687.75	28 - 0	Pressure indicator
C	4	687.75	28 - 0	SMP
17A	4	687.75	39 - 4	Annulus observation
B	4	687.75	39 - 4	Annulus observation
C	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
D	4	687.75	39 - 4	Annulus observation
E	4	686.33	39 - 4	P/CP (12 in. CVR) - annulus observation
F	4	687.75	39 - 4	TBX 106-6
G	4	687.75	39 - 4	Annulus observation
H	4	687.75	39 - 4	Annulus observation
J	4	687.75	39 - 4	Annulus observation
K	4	687.75	39 - 4	Annulus observation
L	4	687.75	39 - 4	Annulus observation
18A	12	687.75	38 - 9	Annulus access
B	12	687.75	38 - 9	Annulus access

Tank No. AW 106.

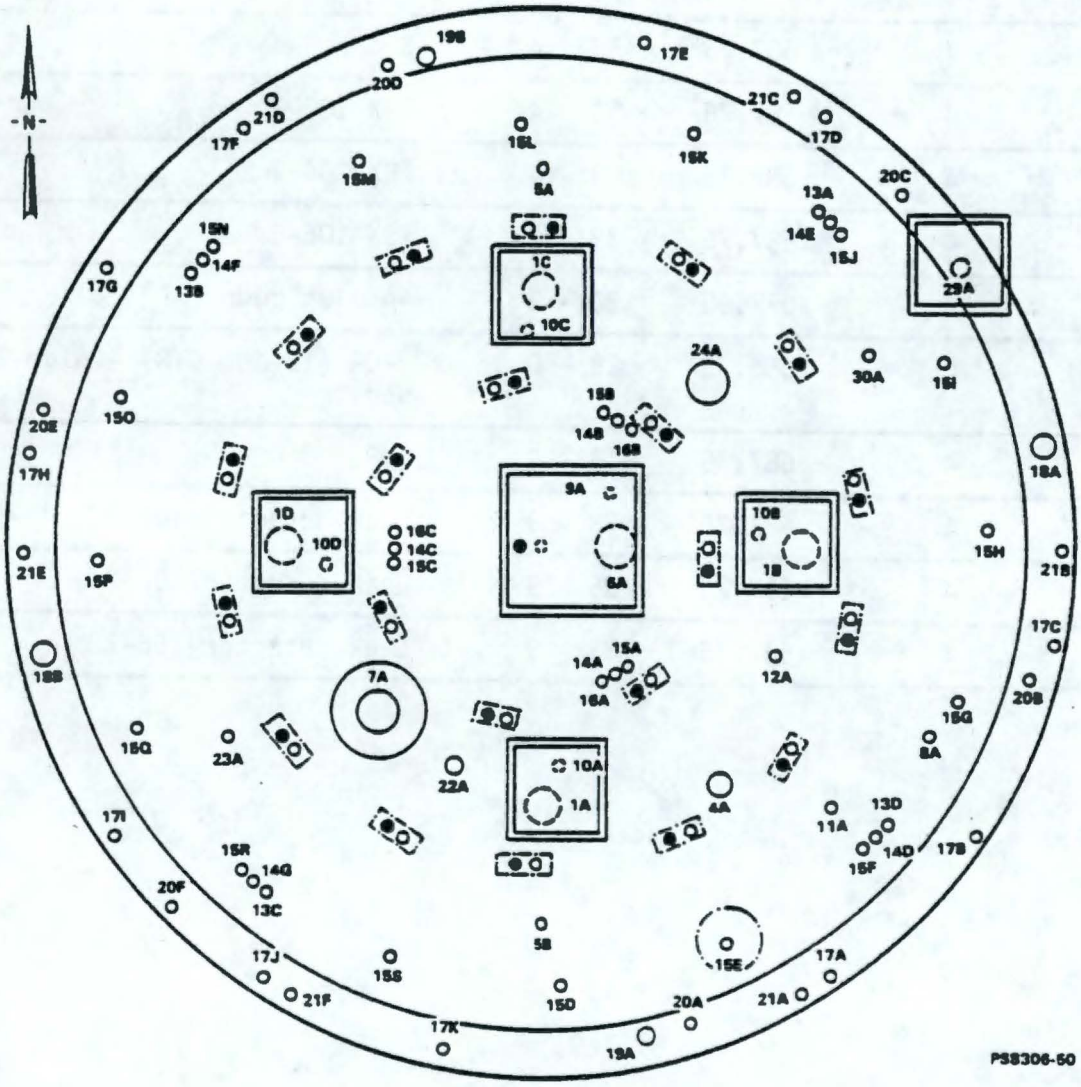


Tank No. AW 106.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
19A	4	687.75	39 - 4	TBX 106-4
B	4	687.75	39 - 4	TBX 106-5
C	4	687.75	39 - 4	Spare
D	4	687.75	39 - 4	TBX 106-1
E	4	687.75	39 - 4	TBX 106-2
F	4	687.75	39 - 4	TBX 106-3
20A	12	677.90	38 - 9	Annulus pump
21A	4	686.33	28 - 0	P/CP (12 in. CVR) - high level sensor
22A	4	687.75	10 - 0	SMP
27A	4	687.75	38 - 9	Leak detector 106-4
B	4	687.75	38 - 9	Leak detector 106-2
C	4	687.75	38 - 9	Leak detector 106-3

9112312029

Tank No. AY 101.



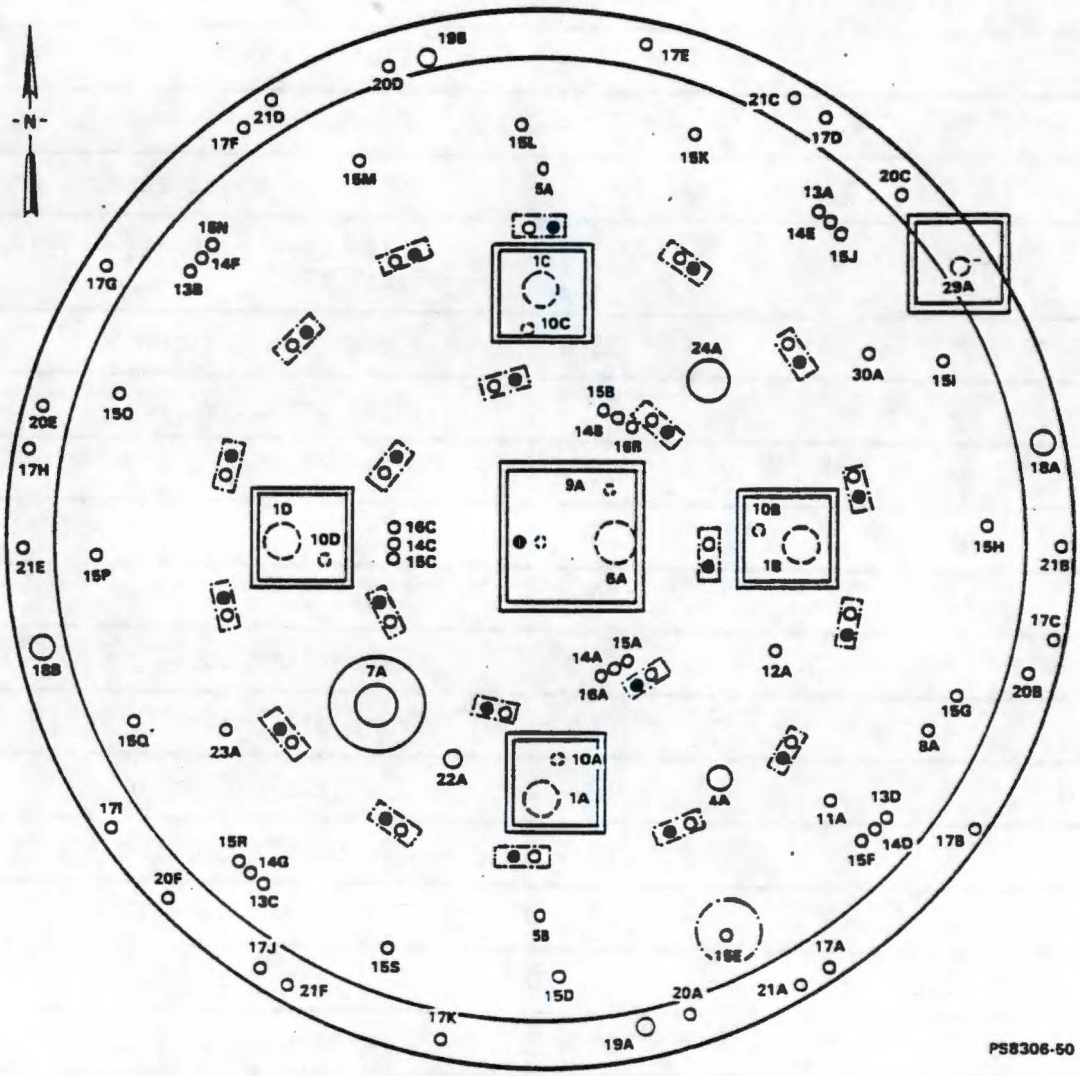
9 1 1 2 3 6 1 2 0 3 0

Tank No. AY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	34		22 - 0	Sluice pit D
1B	34		22 - 0	Sluice pit C
1C	34		22 - 0	Sluice pit B
1D	34		22 - 0	Sluice pit E
2	6			22 - air circulators - P/CP
3	3/4			22 - temp elements - in P/CP with #2
4A	20		25 - 0	Tank ventilation
5A	4		32 - 0	Tank pressure
5B	4		32 - 0	Spare
6A	42		6 - 0	Pump pit
7A	42		20 - 0	Steam coil
8A	2		34 - 0	Condensate addition
9A	4		7 - 5	Pump pit drain
10A	3		19 - 0	Sluice pit D drain
10B	3		19 - 0	Sluice pit C drain
10C	3		19 - 0	Sluice pit B drain
10D	3		19 - 0	Sluice pit E drain
11A	4		32 - 0	Leak detection pit drain
12A	4		22 - 0	Leak detector
13A	4	680.03	34 - 9	Thermocouple probe
13B	4	680.05	34 - 9	Thermocouple probe
13C	4	680.06	34 - 9	Thermocouple probe
13D		680.08	34 - 9	Thermocouple probe

9112762031

Tank No. AY 101.

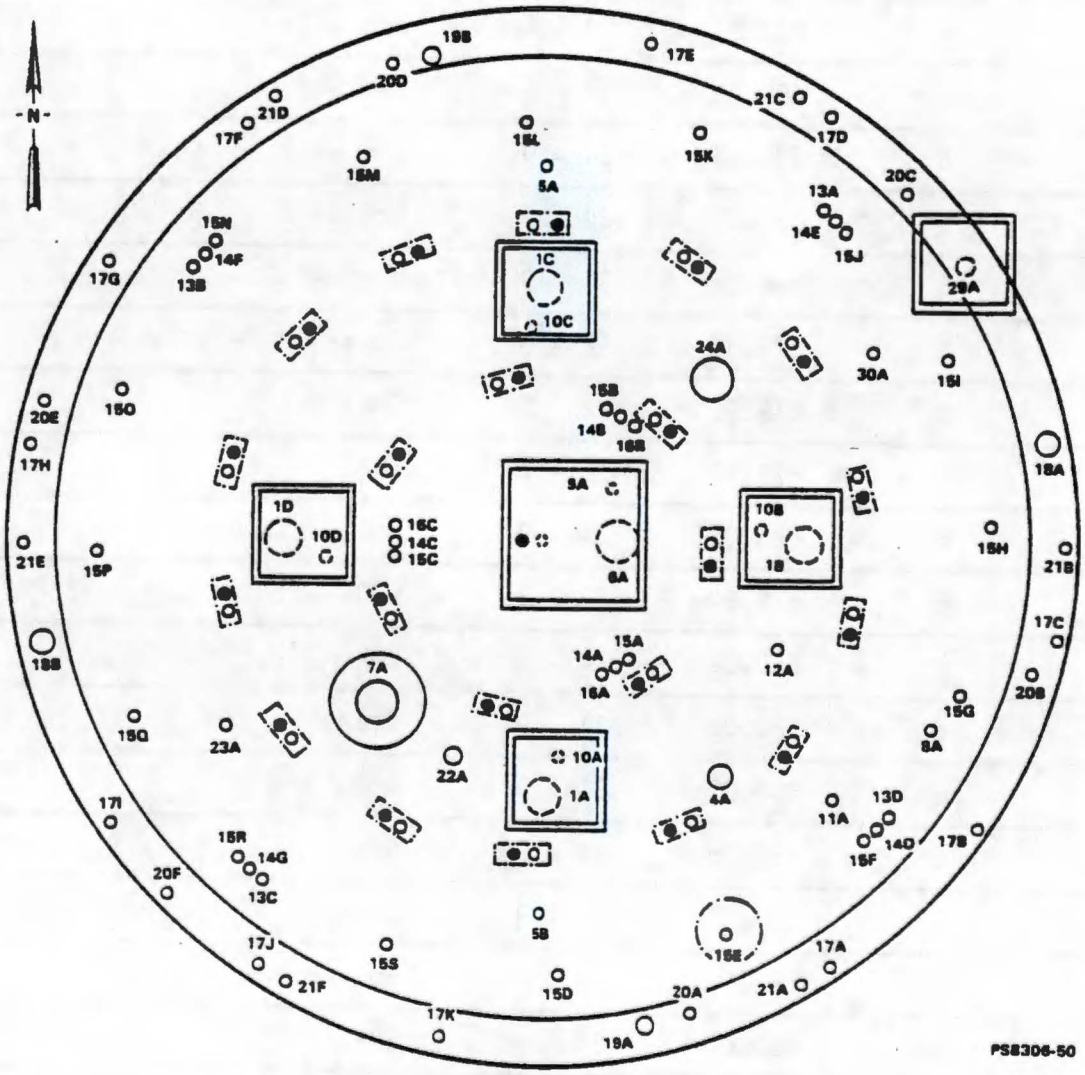


Tank No. AY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
14A	6	679.87	12 - 6	Dry well
14B	6	679.94	12 - 6	Dry well
14C	6	679.91	12 - 6	Dry well
14D	6	680.08	34 - 9	Dry well
14E	6	680.05	34 - 9	Dry well
14F	6	680.04	34 - 9	Dry well
14G	6	680.06	34 - 9	Dry well
15A	6	679.85	12 - 6	Spare
15B	6	679.91	12 - 6	SMP
15C	6	679.93	12 - 6	SMP
15D	6	680.02	34 - 9	SMP w/Magnehelix
15E	6	679.94	34 - 9	P/CP (12 in. CVR) - SMP
15F	6	680.09	34 - 9	SMP
15G	6	680.06	34 - 9	Spare
15H	6	680.07	34 - 9	SMP
15I	6	680.05	34 - 9	Spare
15J	6	680.03	34 - 9	SMP
15K	6	680.04	34 - 9	Spare
15L	6	680.04	34 - 9	SMP
15M	6	680.01	34 - 9	Spare
15N	6	680.06	34 - 9	SMP
15O	6	680.16	34 - 9	Spare
15P	6	680.20	34 - 9	SMP
15Q	6	680.09	34 - 9	Spare

9112362033

Tank No. AY 101.

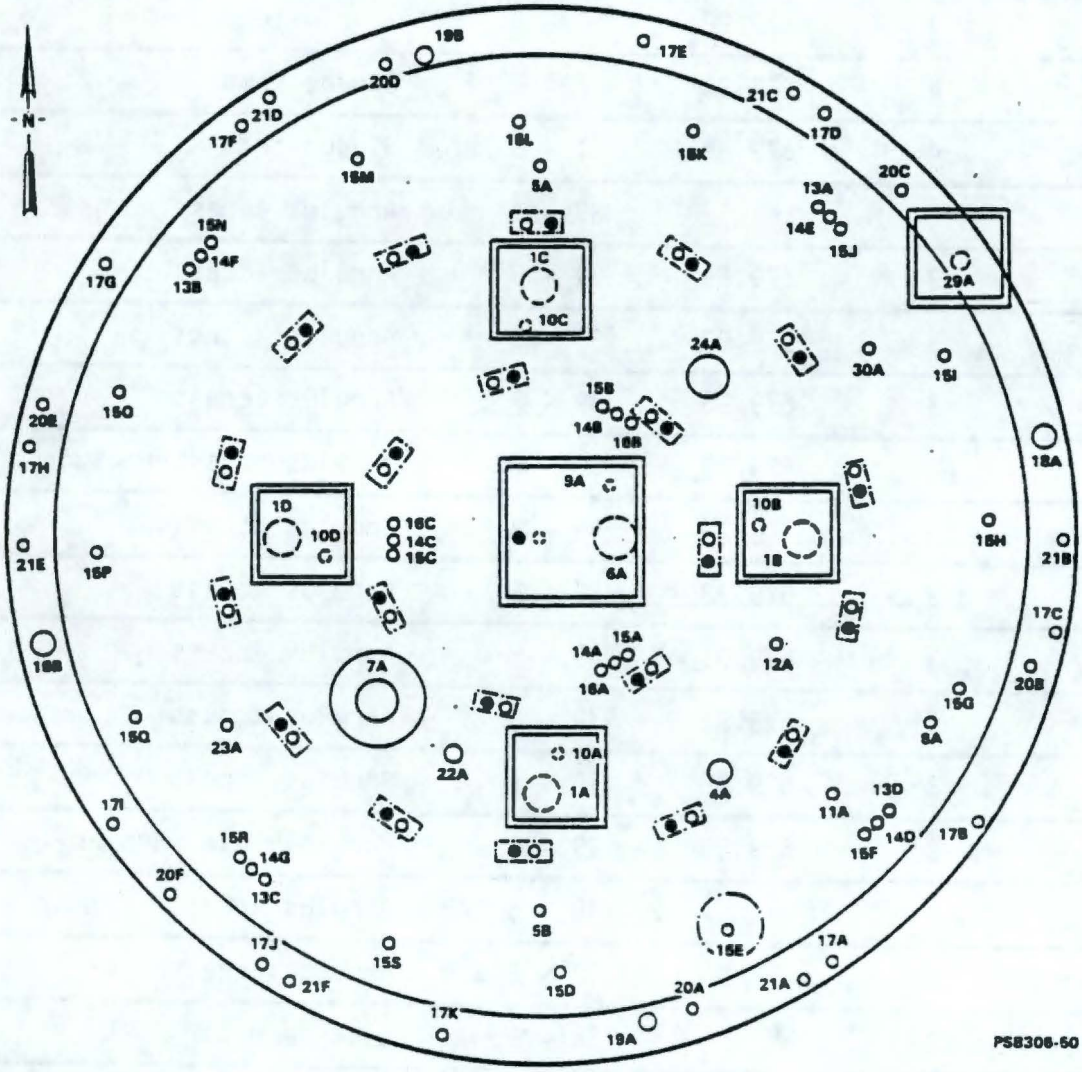


Tank No. AY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
15R	6	680.04	34 - 9	SMP
15S	6	680.05	34 - 9	Spare
16A	4	679.92	12 - 6	Sludge temp
16B	4	679.93	12 - 6	Sludge temp
16C	4	679.89	12 - 6	Sludge temp
17A	3		39 - 8	Annulus access
17B	3	679.89	39 - 8	Annulus access
17C	3	679.93	39 - 8	Annulus access
17D	3	679.96	39 - 8	Annulus access
17E	3	679.99	39 - 8	Annulus pressure gauge
17F	3		39 - 8	Annulus access
17G	3	679.93	39 - 8	Annulus access
17H	3	679.93	39 - 8	Annulus access
17I	3	679.83	39 - 8	Annulus access
17J	3	679.98	39 - 8	Annulus access
17K	3	679.99	39 - 8	Portable air sampler
18A	24		38 - 6 3/8	Annulus access
18B	24		38 - 6 3/8	Annulus access
19A	12		38 - 9	Leak detector
19B	12		38 - 9	Annulus access
20A	8		38 - 9	Air outlet
20B	8		38 - 9	Air outlet
20C	8		38 - 9	Air outlet
20D	8		38 - 9	Air outlet

9 1 1 2 7 6 4 2 0 3 5

Tank No. AY 101.

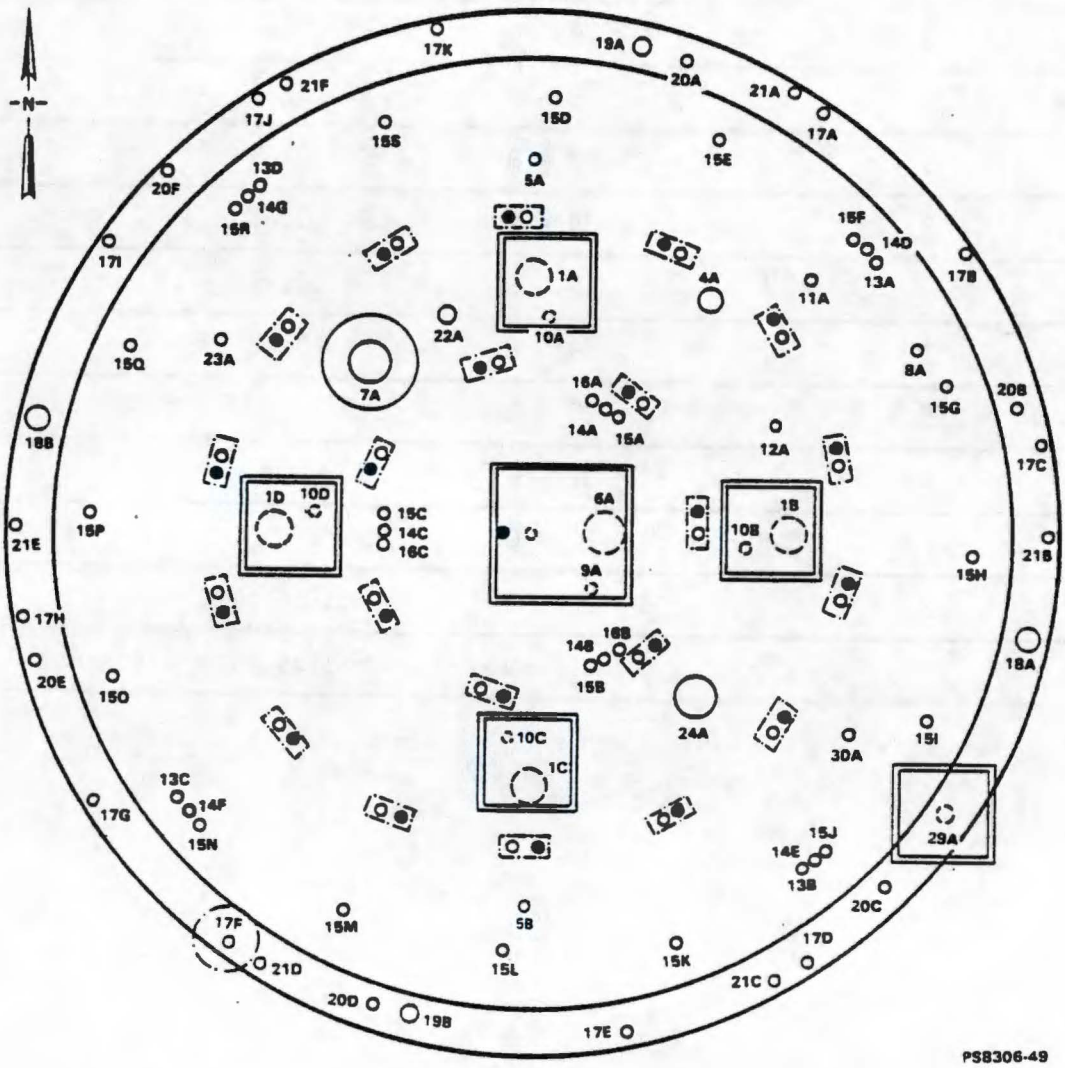


Tank No. AY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
20E	8		38 - 9	Air outlet
20F	8		38 - 9	Air outlet
21A	3		39 - 8	TBX 101-3
21B	3		39 - 8	TBX 101-4
21C	3		39 - 8	TBX 101-5
21D	3		39 - 8	TBX 101-6
21E	3		39 - 8	TBX 101-1
21F	3		39 - 8	TBX 101-2
22A	16		20 - 0	LIT
23A	4		31 - 0	LLI
24A	42		20 - 0	Spare
29A	12		38 - 9	Annulus pump
30A	4		31 - 0	Annulus pump discharge

9112754203 7

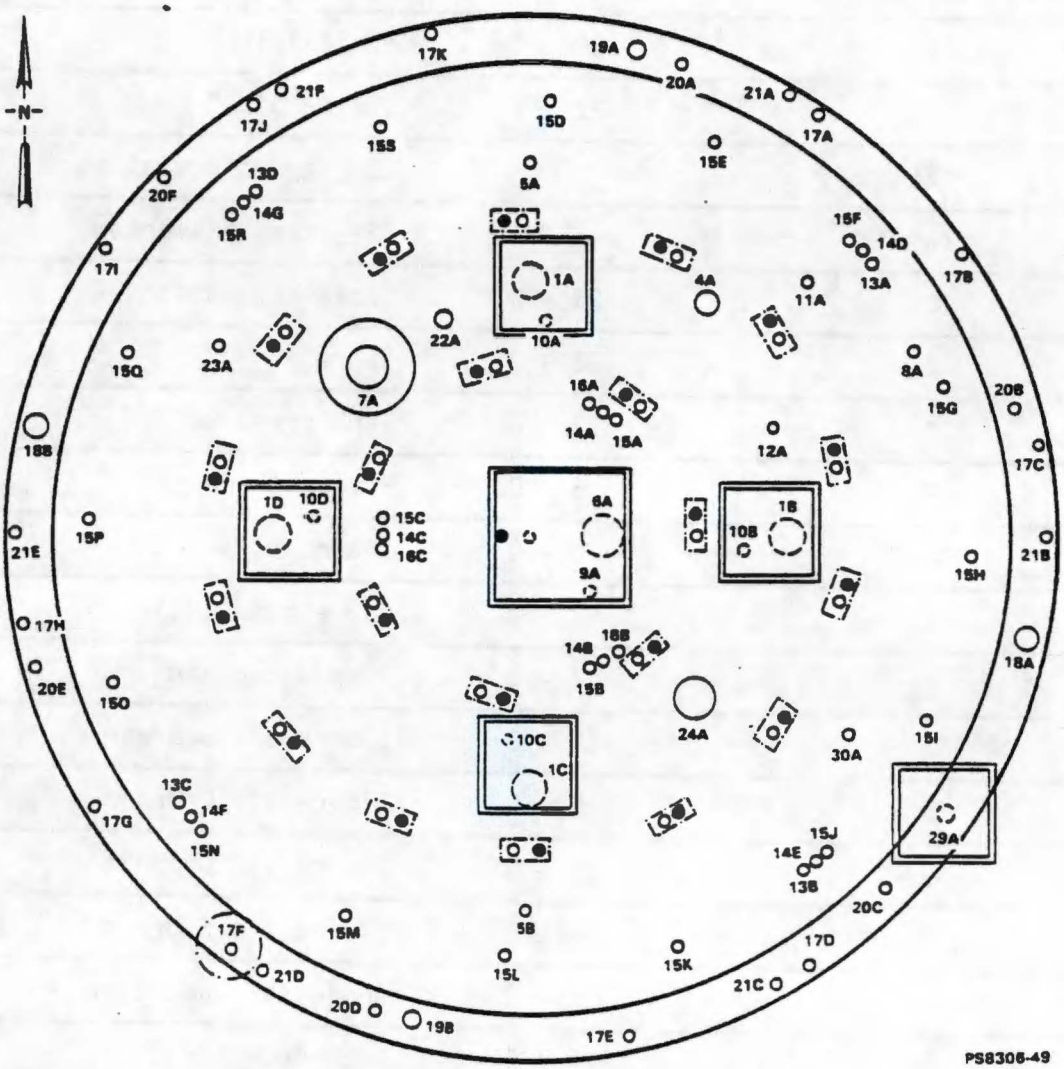
Tank No. AY 102.



Tank No. AY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	34		22 - 0	Sluice pit B
1B	34		22 - 0	Sluice pit C
1C	34		22 - 0	Sluice pit D
1D	34		22 - 0	Sluice pit E
2	6			22 - air circulators
3	3/4			22 - temp elements
4A	20		25 - 0	Tank ventilation
5A	4		32 - 0	Spare
5B	4		32 - 0	Tank pressure
6A	42		6 - 0	Pump pit
7A	42		20 - 0	Steam coils
8A	2		34 - 0	Condensate addition
9A	4		7 - 5	Pump pit drain
10A	3		19 - 0	Sluice pit B drain
10B	3		19 - 0	Sluice pit C drain
10C	3		19 - 0	Sluice pit D drain
10D	3		19 - 0	Sluice pit E drain
11A	4		32 - 0	Condensate addition
12A	4		22 - 0	Leak detector
13A	4	680.08	34 - 9	Thermocouple probe
13B	4	680.08	34 - 9	Thermocouple probe
13C	4	680.09	34 - 9	Thermocouple probe
13D		680.11	34 - 9	Thermocouple probe

Tank No. AY 102.

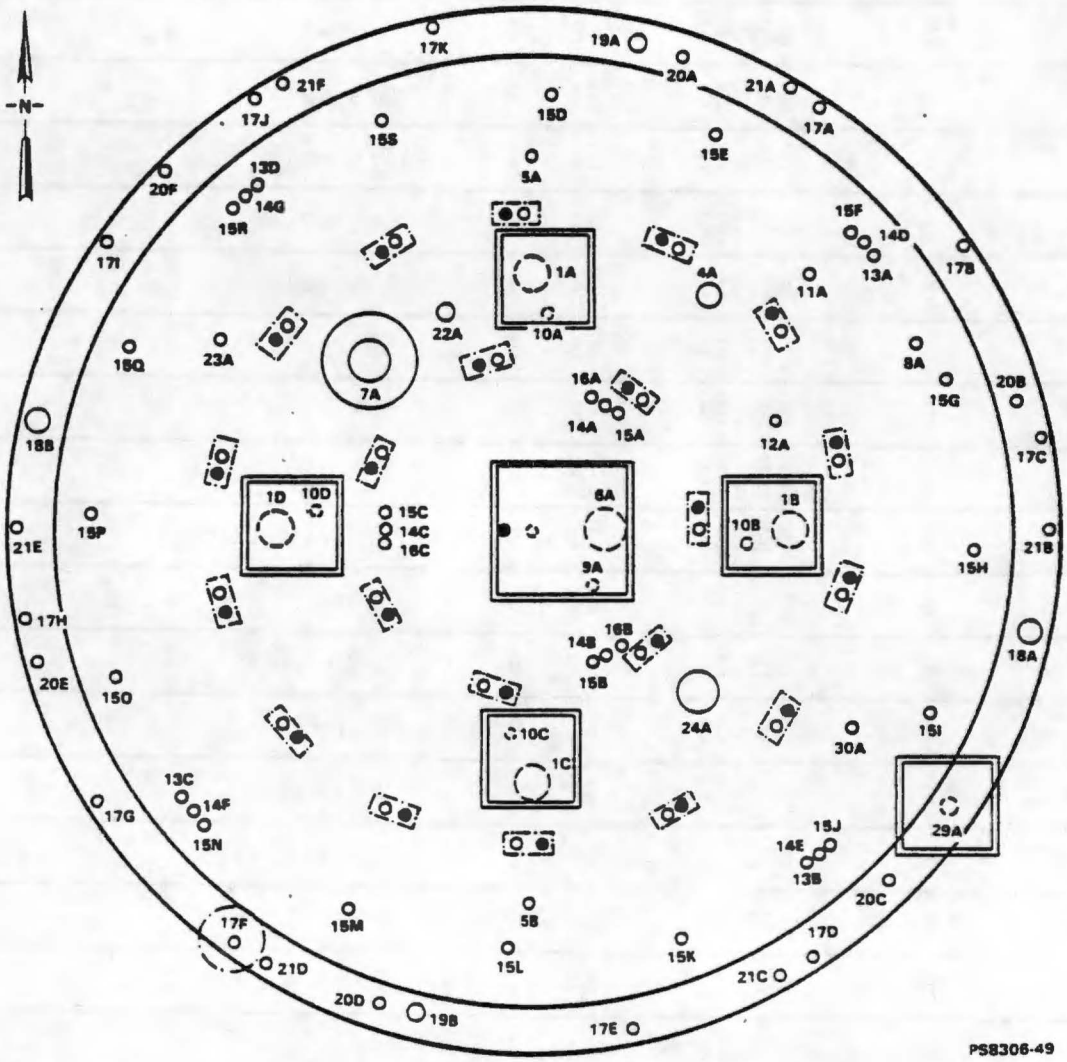


Tank No. AY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
14A	6	679.95	12 - 6	Dry well
14B	6	679.99	12 - 6	Dry well
14C	6	679.98	12 - 6	Dry well
14D	6	680.09	34 - 9	Dry well
14E	6	680.12	34 - 9	Dry well
14F	6	680.08	34 - 9	Dry well
14G	6	680.13	34 - 9	Dry well
15A	6	679.94	12 - 6	Spare
15B	6	679.99	12 - 6	SMP
15C	6	679.97	12 - 6	SMP
15D	6	680.08	34 - 9	SMP w/Magnehelix
15E	6		34 - 9	Spare
15F	6	680.09	34 - 9	SMP
15G	6	680.09	34 - 9	Spare
15H	6		34 - 9	SMP
15I	6	680.11	34 - 9	Spare
15J	6	680.07	34 - 9	SMP
15K	6	680.08	34 - 9	Spare
15L	6	679.98	34 - 9	SMP
15M	6	680.07	34 - 9	Spare
15N	6	680.10	34 - 9	SMP
15O	6	680.09	34 - 9	Spare
15P	6	680.08	34 - 9	SMP
15Q	6	680.10	34 - 9	Spare

9112736412041

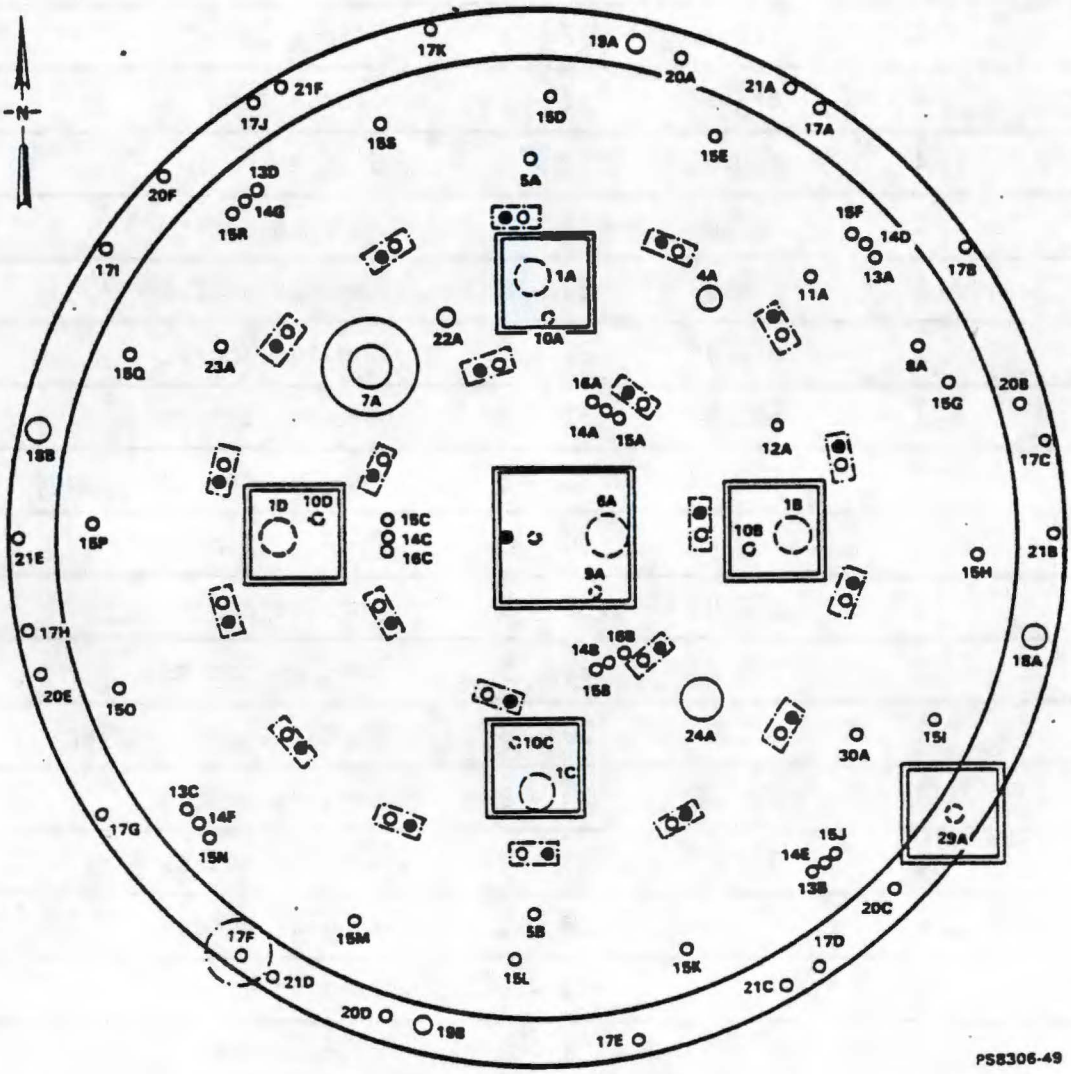
Tank No. AY 102.



Tank No. AY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
15R	6	680.11	34 - 9	SMP
15S	6	680.11	34 - 9	Spare
16A	4	679.93	12 - 6	Sludge temp
16B	4	679.97	12 - 6	Sludge temp
16C	4	680.01	12 - 6	Sludge temp
17A	3	680.04	39 - 8	Annulus access
17B	3	679.99	39 - 8	Annulus access
17C	3	679.95	39 - 8	Annulus access
17D	3	680.02	39 - 8	Annulus access
17E	3	680.03	39 - 8	Annulus pressure gauge
17F	3	-	39 - 8	P/CP (12 in. CVR)
17G	3	680.01	39 - 8	Annulus access
17H	3	680.03	39 - 8	Annulus access
17I	3	680.02	39 - 8	Portable air sampler
17J	3	680.00	39 - 8	Annulus access
17K	3	679.97	39 - 8	Annulus access
18A	24		38 - 6 3/8	Annulus access
18B	24		38 - 6 3/8	Annulus access
19A	12		38 - 9	Leak detector
19B	12		38 - 9	Annulus access
20A	8		38 - 9	Air outlet
20B	8		38 - 9	Air outlet
20C	8		38 - 9	Air outlet
20D	8		38 - 9	Air outlet

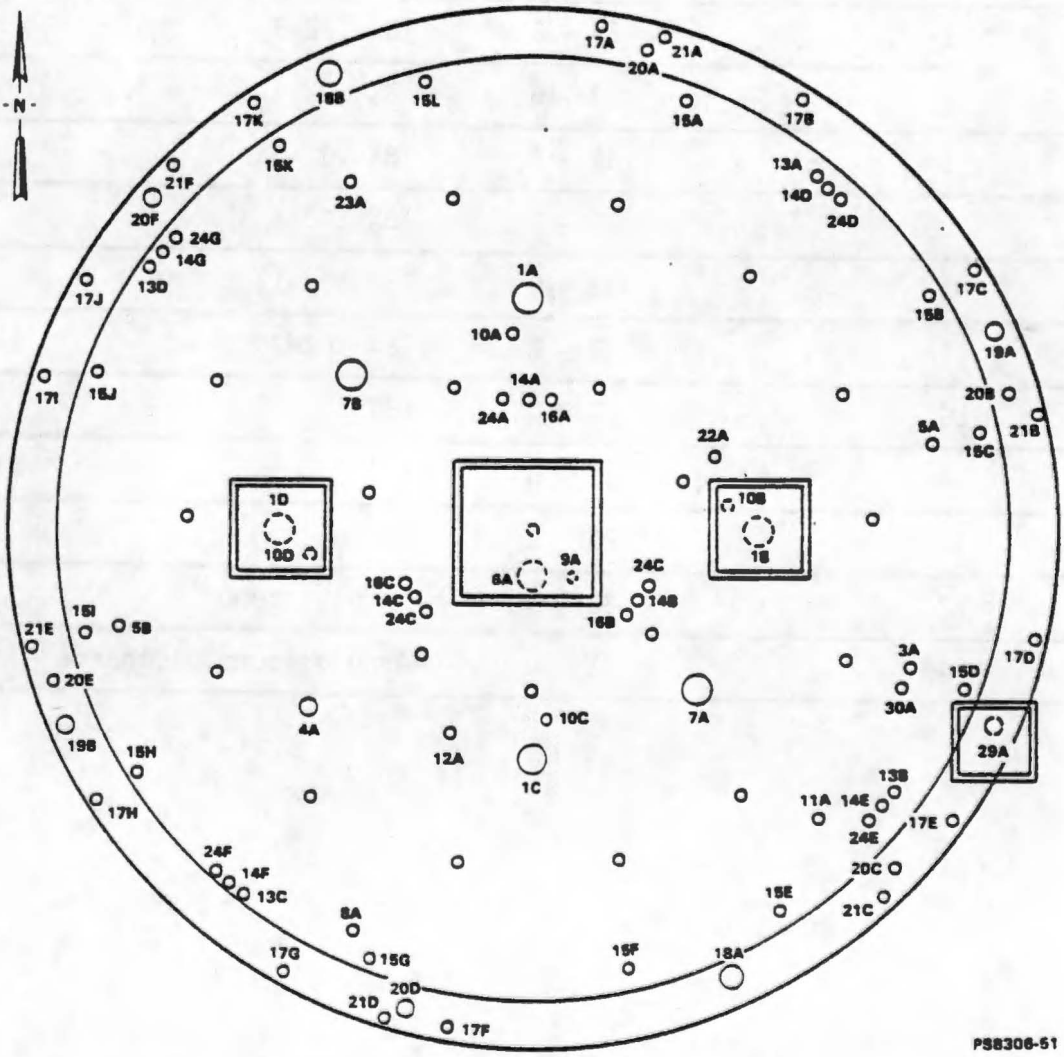
Tank No. AY 102.



Tank No. AY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
20E	8		38 - 9	Air outlet
20F	8		38 - 9	Air outlet
21A	3		39 - 8	TBX 102-3
21B	3		39 - 8	TBX 102-4
21C	3		39 - 8	TBX 102-5
21D	3		39 - 8	TBX 102-6
21E	3		39 - 8	TBX 102-1
21F	3		39 - 8	TBX 102-2
22A	16		20 - 0	LIT
23A	4		31 - 0	LLI
24A	42		20 - 0	Spare
29A	12		38 - 9	Annulus pump
30A	4		31 - 0	Annulus pump discharge

Tank No. AZ 101.

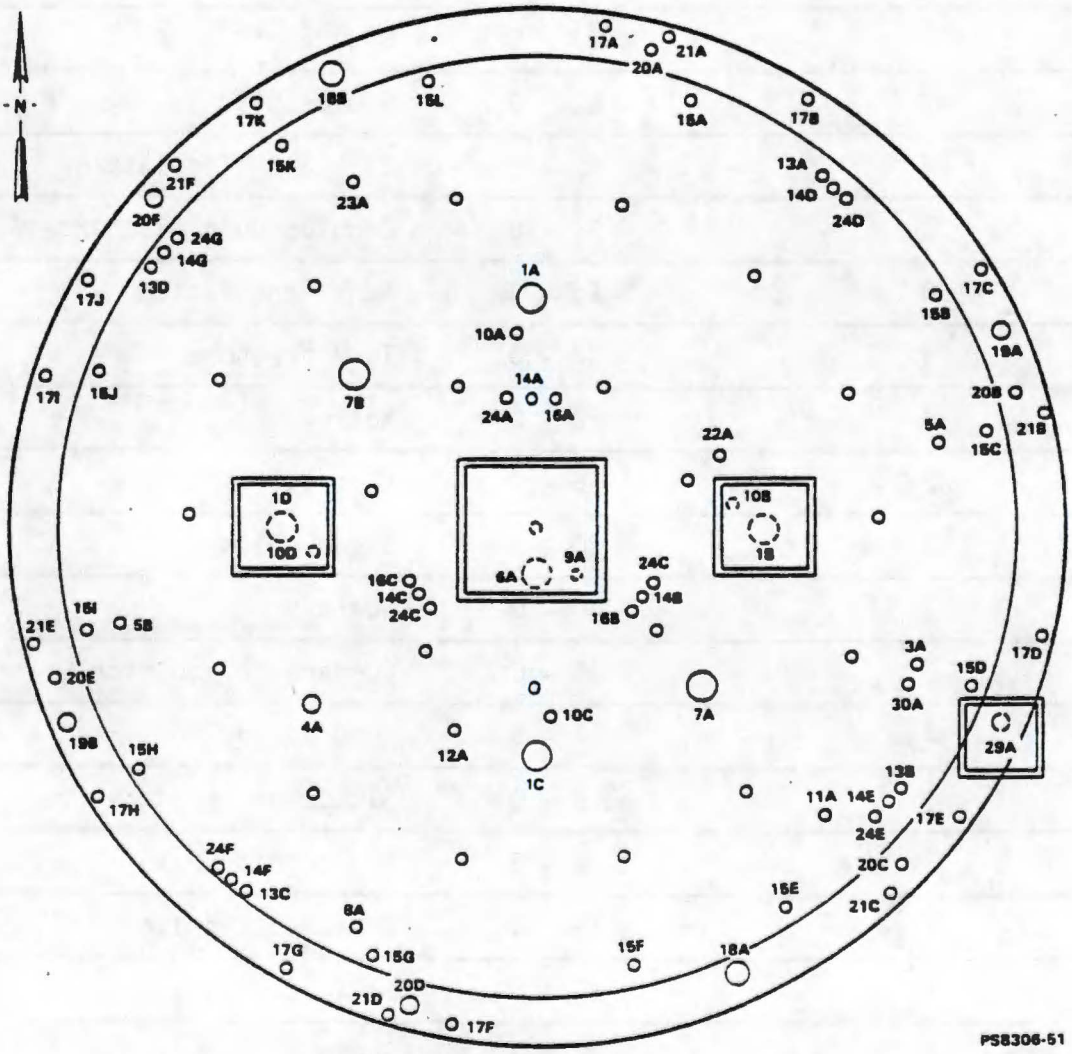


Tank No. AZ 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	42		22 - 0	Sluice pit - nf
1B	42		22 - 0	Sluice pit
1C	42		22 - 0	Sluice pit - nf
1D	42		22 - 0	Sluice pit
2	6			22 - air circulators
3A	3		31 - 0	Annulus pump discharge
4A	20		25 - 0	Tank ventilation
5A	4		32 - 0	Tank pressure
5B	4		32 - 0	Spare
6A	42		6 - 0	Pump pit
7A	42		20 - 0	Steam coils
7B	42		20 - 0	Spare
8A	2		34 - 0	Condensate addition
9A	4		7 - 5	Pump pit drain
10A	3		19 - 0	Sluice pit drain - nf
10B	3		19 - 0	Sluice pit drain
10C	3		19 - 0	Sluice pit drain - nf
10D	3		19 - 0	Sluice pit drain
11A	4		32 - 0	Spare
12A	4	672.35	22 - 0	Leak detector
13A	4	673.42	34 - 9	Thermocouple probe
13B	4	673.34	34 - 9	Thermocouple probe
13C	4	673.25	34 - 9	Thermocouple probe

9 1 1 2 1 5 1 2 0 4 7

Tank No. AZ 101.

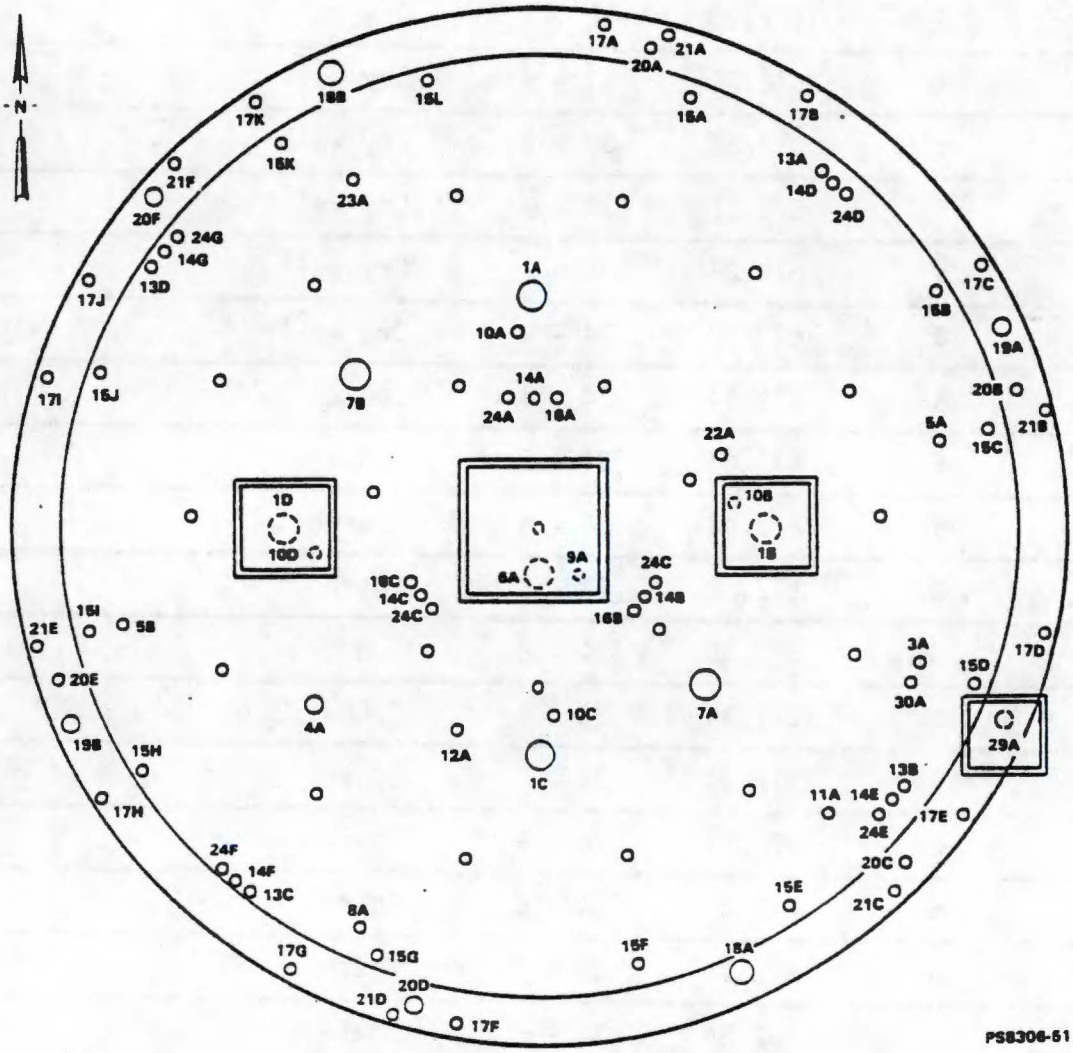


Tank No. AZ 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
13D	4	673.31	34 - 9	Thermocouple probe
14A	6	672.95	12 - 6	Dry well
14B	6	672.38	12 - 6	Dry well
14C	6	672.38	12 - 6	Dry well
14D	6	672.36	34 - 9	Dry well
14E	6	672.31	34 - 9	Dry well
14F	6	672.29	34 - 9	Dry well
14G	6	672.30	34 - 9	Dry well
15A	6	672.44	34 - 8	Spare
15B	6	672.46	34 - 8	Spare
15C	6	672.44	34 - 8	Spare
15D	6	672.38	34 - 8	Spare
15E	6	672.35	34 - 8	Spare
15F	6	672.35	34 - 8	P/CP (12 in. CVR) - SMP
15G	6	672.34	34 - 8	Spare
15H	6	672.37	34 - 8	Spare
15I	6	672.32	34 - 8	Spare
15J	6	672.34	34 - 8	Spare
15K	6	672.34	34 - 8	Spare
15L	6	672.34	34 - 8	P/CP (12 in. CVR) - spare
16A	4	673.69	12 - 6	Thermocouple probe
16B	4	673.37	12 - 6	Thermocouple probe
16C	4	673.44	12 - 6	Thermocouple probe

9 1 1 2 7 5 4 2 0 4 9

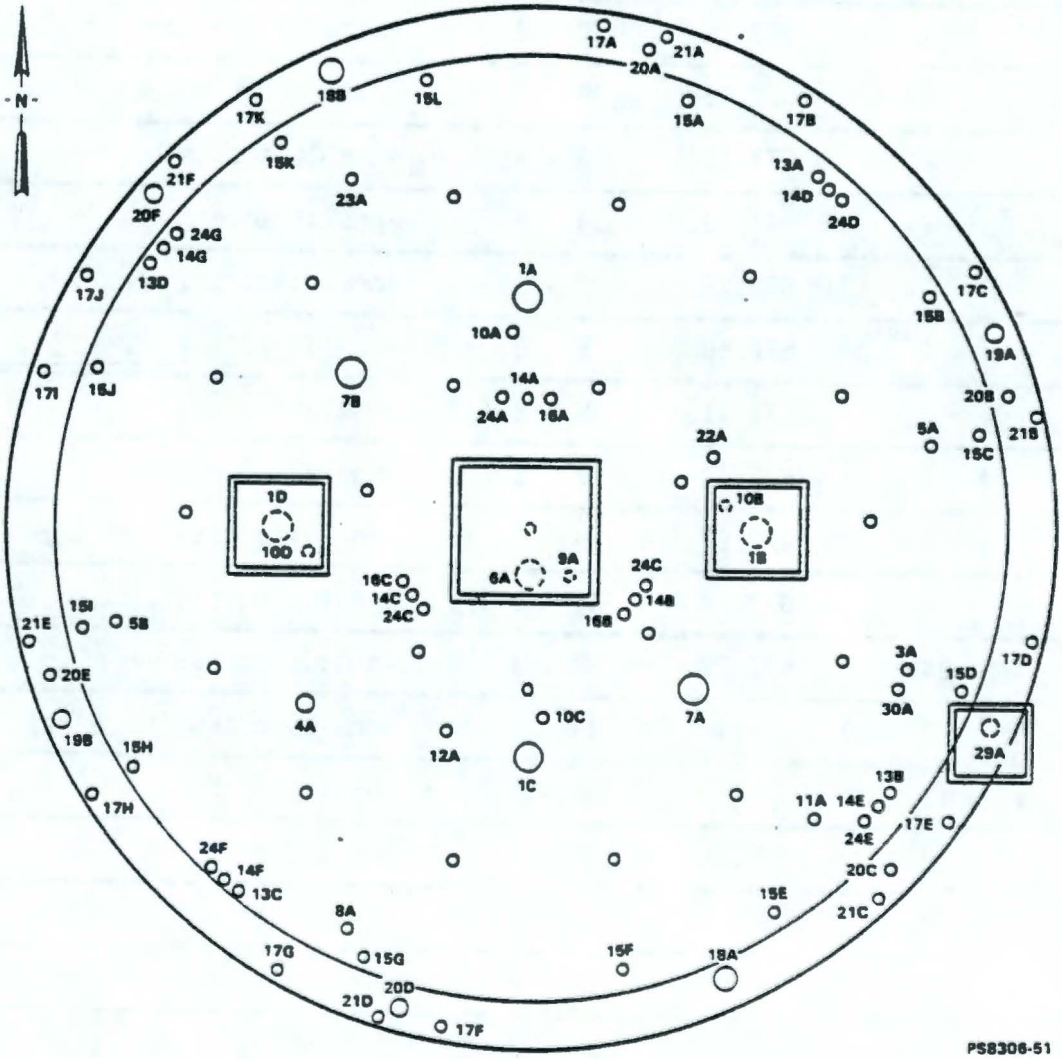
Tank No. AZ 101.



Tank No. AZ 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17A	4	672.83	39 - 8	Annulus access
17B	4	672.94	39 - 8	Annulus access
17C	4	672.76	39 - 8	Portable air sampler
17D	4	672.93	39 - 8	Leak detector
17E	4	672.12	39 - 8	Annulus access
17F	4	673.02	39 - 8	Annulus access
17G	4	673.25	39 - 8	Annulus access
17H	4	672.66	39 - 8	Annulus access
17I	4	672.91	39 - 8	Annulus access
17J	4	672.79	39 - 8	Annulus access
17K	4	672.97	39 - 8	Annulus access
18A	24	672.34	38 - 6 3/8	Annulus access
18B	24	672.82	38 - 6 3/8	Annulus access
19A	12		38 - 9	Annulus access
19B	12		38 - 9	Annulus access
20A	8		38 - 9	Air outlet
20B	8		38 - 9	Air outlet
20C	8		38 - 9	Air outlet
20D	8		38 - 9	Air outlet
20E	8		38 - 9	Air outlet
20F	8		38 - 9	Air outlet
21A	3		39 - 8	TBX 101-3

Tank No. AZ 101.



Tank No. AZ 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
21B	3		39 - 8	TBX 101-4
21C	3		39 - 8	TBX 101-5
21D	3		39 - 8	TBX 101-6
21E	3		39 - 8	TBX 101-1
21F	3		39 - 8	TBX 101-2
22A	16	672.54	20 - 0	LIT
23A	4	672.35	31 - 0	LLI
24A	6	672.66	12 - 6	Aging-waste sampler
24B	6	672.38	12 - 6	SMP
24C	6	672.37	12 - 6	SMP
24D	6	673.00	34 - 9	SMP
24E	6	672.33	34 - 9	SMP
24F	6	672.31	34 - 9	SMP
24G	6	672.31	34 - 9	SMP w/Pressure indicator
29A	12		38 - 9	Annulus pump
30A	4		31 - 0	Spare

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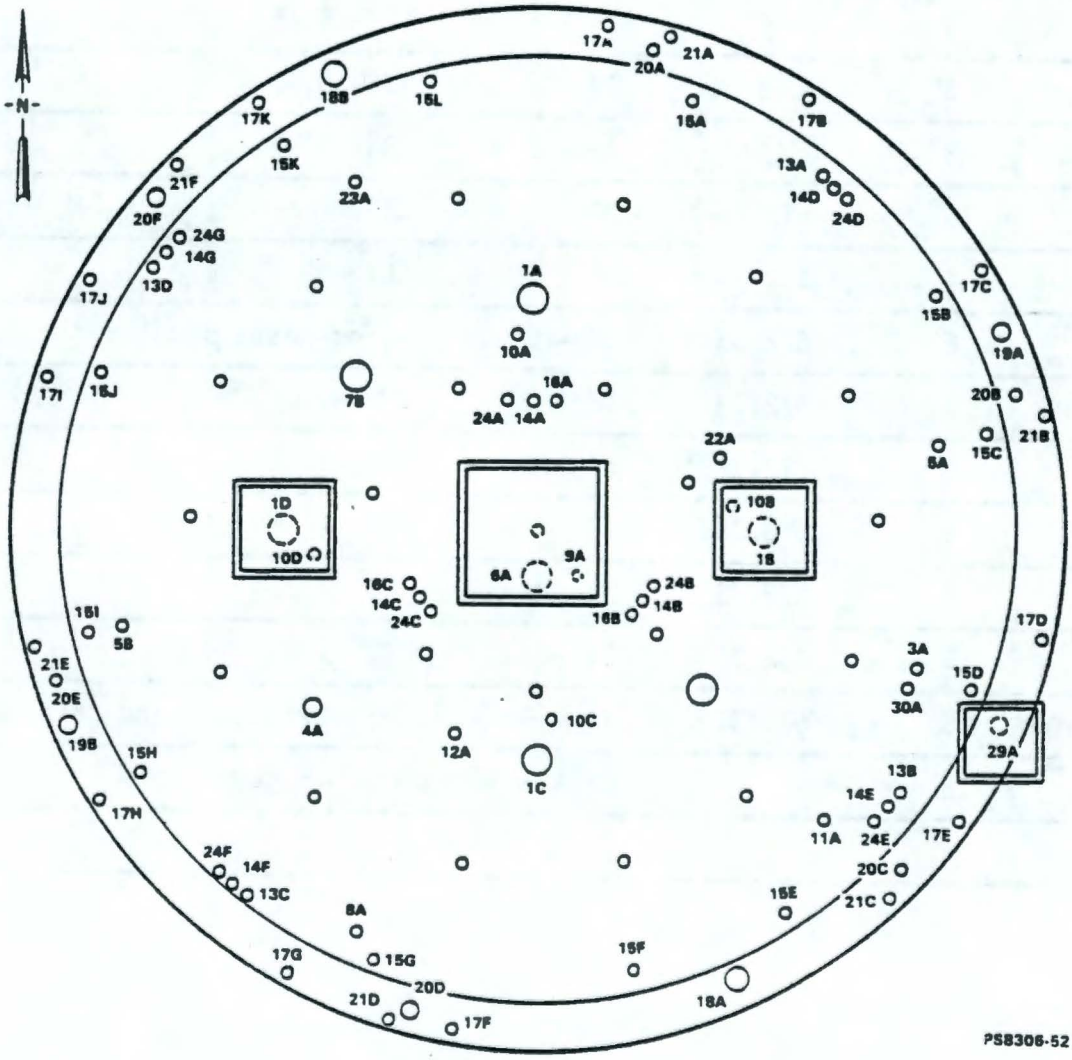
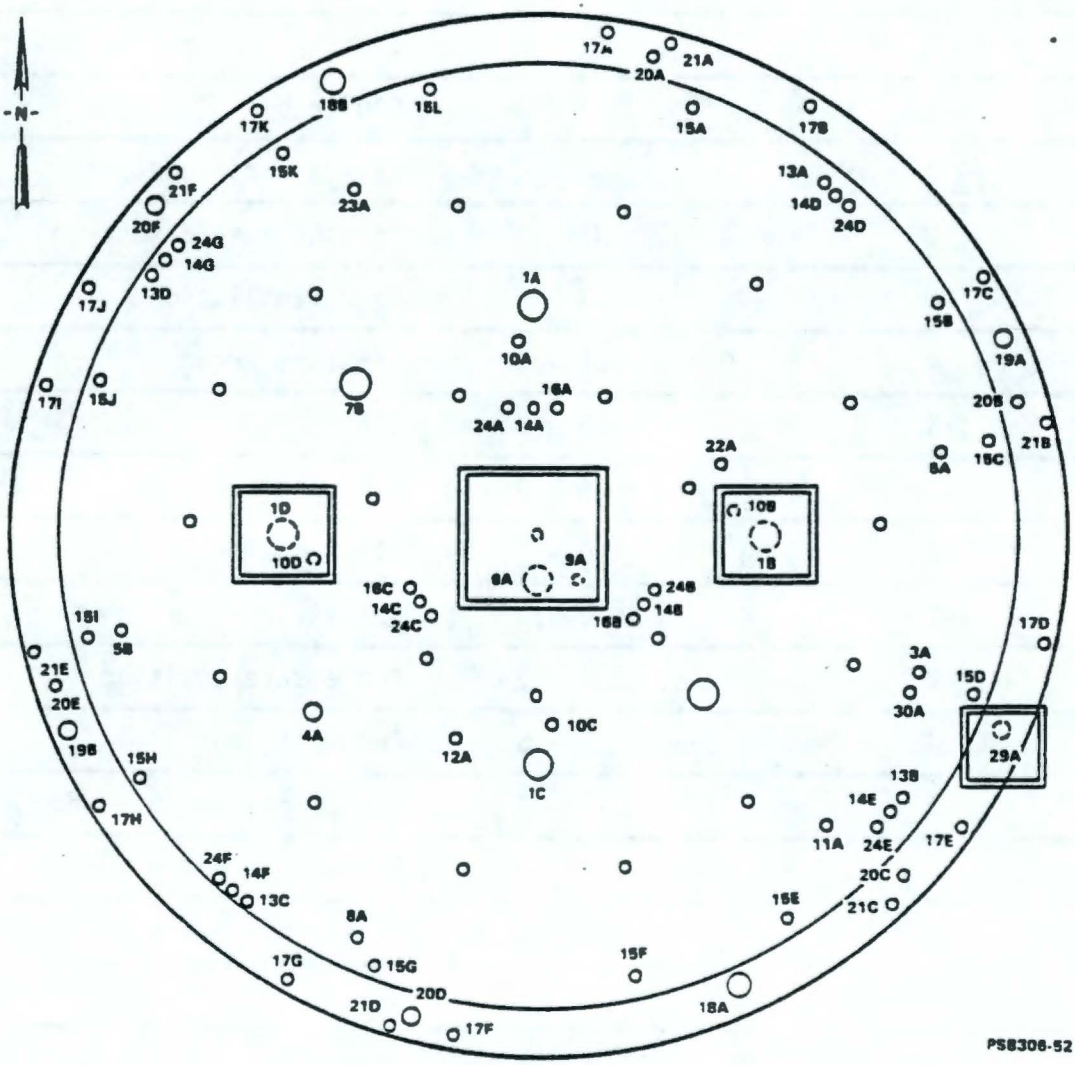
Tank No. AZ 102.



Tank No. AZ 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	42		22 - 0	Sluice pit - nf
1B	42		22 - 0	Sluice pit
1C	42		22 - 0	Sluice pit - nf
1D	42		22 - 0	Sluice pit
2	6			22 - air circulators
3A	3		31 - 0	Annulus pump discharge
4A	20		23 - 0	Tank ventilation
5A	4		32 - 0	Pressure probe
5B	4		32 - 0	Spare
6A	42		6 - 0	Pump pit
7A	42		20 - 0	Steam coils
7B	42		20 - 0	Spare
8A	2		34 - 0	Condensate addition
9A	4		7 - 5	Pump pit drain
10A	3		19 - 0	Sluice pit drain - nf
10B	3		19 - 0	Sluice pit drain
10C	3		19 - 0	Sluice pit drain - nf
10D	3		19 - 0	Sluice pit drain
11A	4		32 - 0	Spare
12A	4	672.68	22 - 0	Leak detector
13A	4	672.68	34 - 9	Thermocouple probe
13B	4	673.66	34 - 9	Thermocouple probe
13C	4	673.68	34 - 9	Thermocouple probe

Tank No. AZ 102.

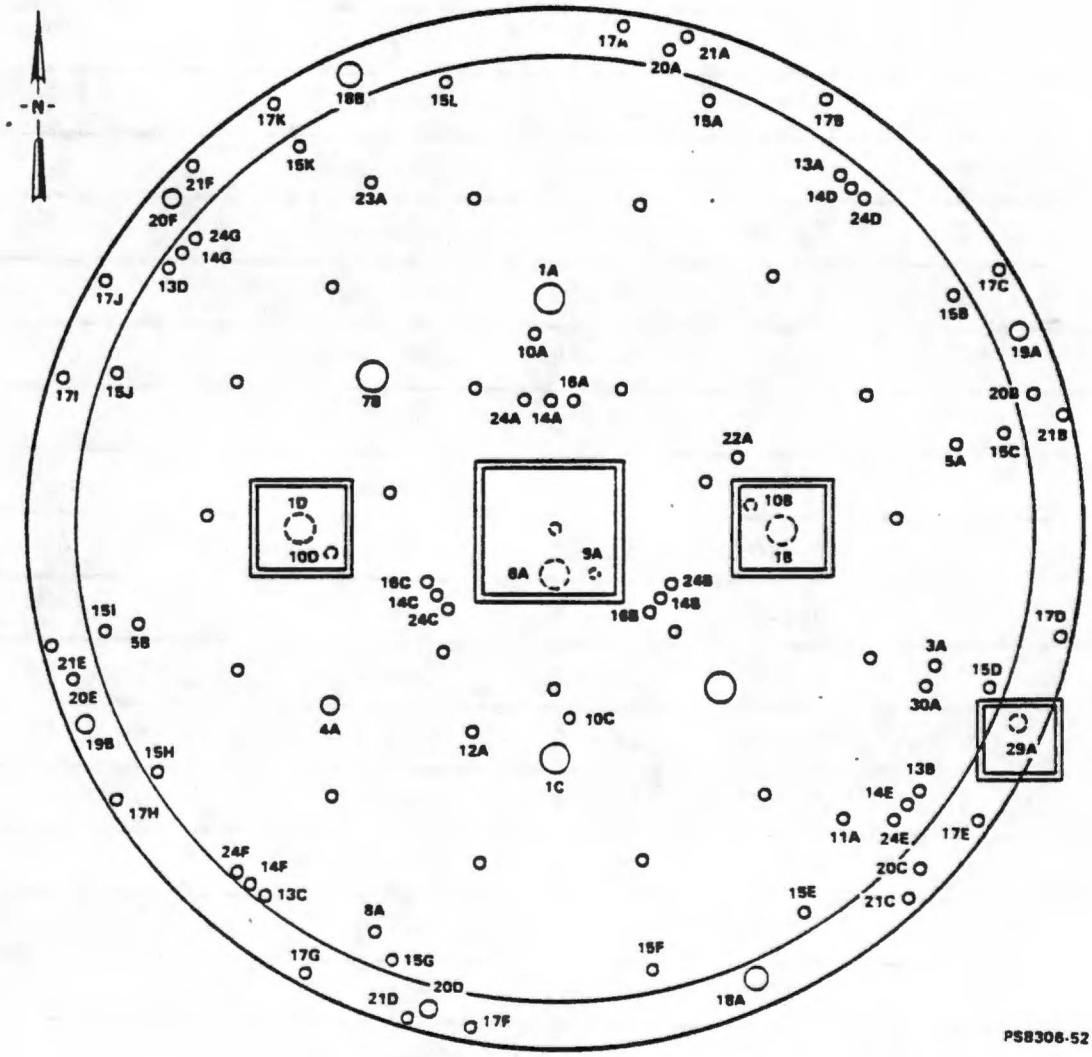


Tank No. AZ 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
13D	4	673.70	34 - 9	Thermocouple probe
14A	6	672.67	12 - 6	Dry well
14B	6	672.67	12 - 6	Dry well
14C	6	672.67	12 - 6	Dry well
14D	6	672.70	34 - 9	Dry well
14E	6	672.69	34 - 9	Dry well
14F	6	672.69	34 - 9	Dry well
14G	6	672.69	34 - 9	Dry well
15A	6	672.70	34 - 8	Spare
15B	6	672.70	34 - 8	Spare
15C	6	672.69	34 - 8	Spare
15D	6	672.69	34 - 8	Spare
15E	6	672.68	34 - 8	Spare
15F	6	672.68	34 - 8	Spare - field ID 15E
15G	6	672.68	34 - 8	Spare
15H	6	672.70	34 - 8	Spare
15I	6	672.71	34 - 8	Spare
15J	6	672.69	34 - 8	Spare
15K	6	672.70	34 - 8	Spare
15L	6	672.71	34 - 8	Spare
16A	4	673.68	12 - 6	Thermocouple probe
16B	4	673.64	12 - 6	Thermocouple probe
16C	4	673.63	12 - 6	Thermocouple probe

9112732057

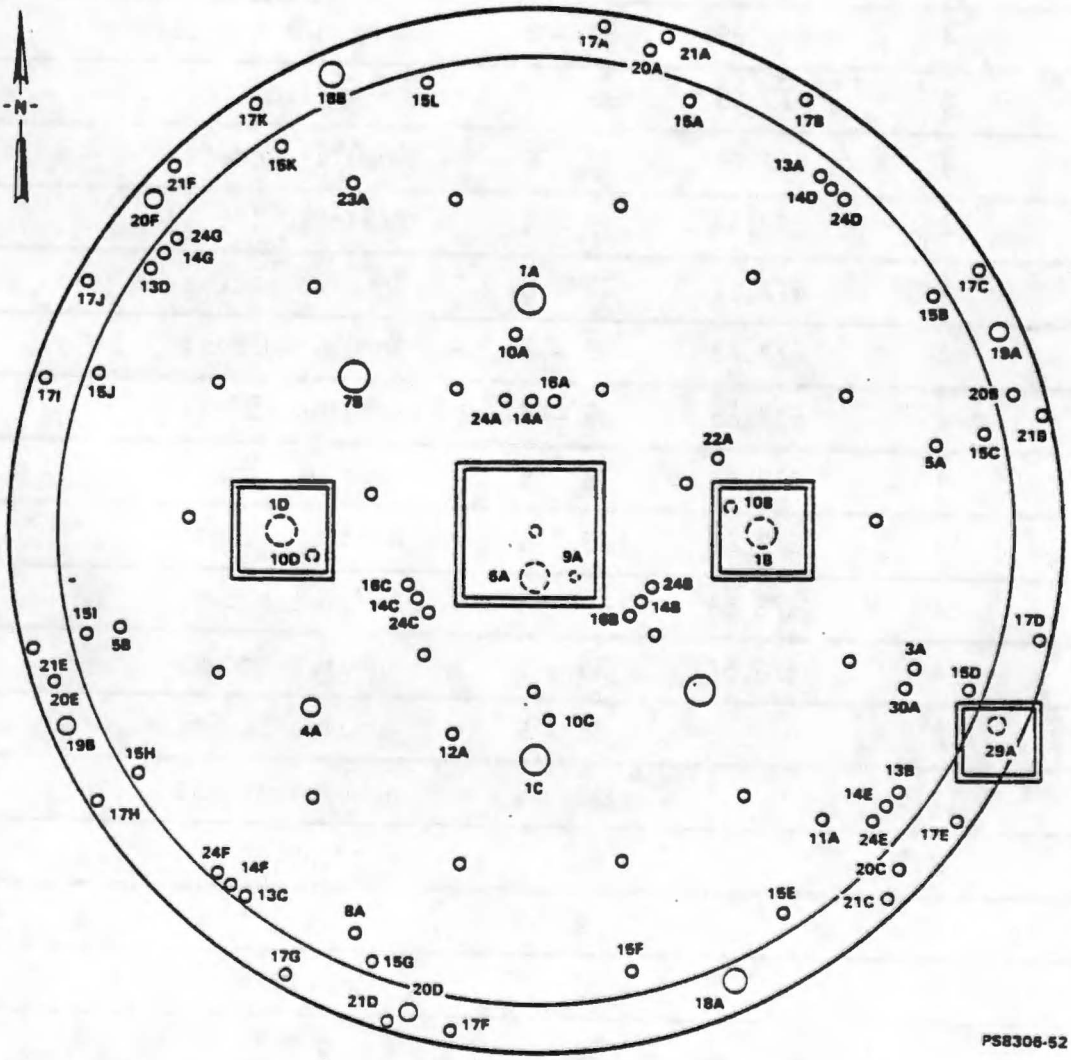
Tank No. AZ 102.



Tank No. AZ 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
17A	4	672.70	39 - 8	Annulus access - field ID 17D
17B	4	672.69	39 - 8	Annulus access
17C	4	672.69	39 - 8	Portable air sampler
17D	4	672.68	39 - 8	Leak detector
17E	4	672.66	39 - 8	Annulus access
17F	4	672.67	39 - 8	Field ID 17E
17G	4	672.69	39 - 8	Annulus access
17H	4	672.72	39 - 8	Annulus access
17I	4	672.68	39 - 8	Annulus access
17J	4	672.70	39 - 8	Annulus access
17K	4	672.69	39 - 8	Annulus access
18A	24	672.68	38 - 6 3/8	Annulus access
18B	24	672.67	38 - 6 3/8	Annulus access
19A	12		38 - 9	Annulus access
19B	12		38 - 9	Annulus access
20A	8		38 - 9	Air outlet
20B	8		38 - 9	Air outlet
20C	8		38 - 9	Air outlet
20D	8		38 - 9	Air outlet
20E	8		38 - 9	Air outlet
20F	8		38 - 9	Air outlet
21A	3		39 - 8	TBX 102-3

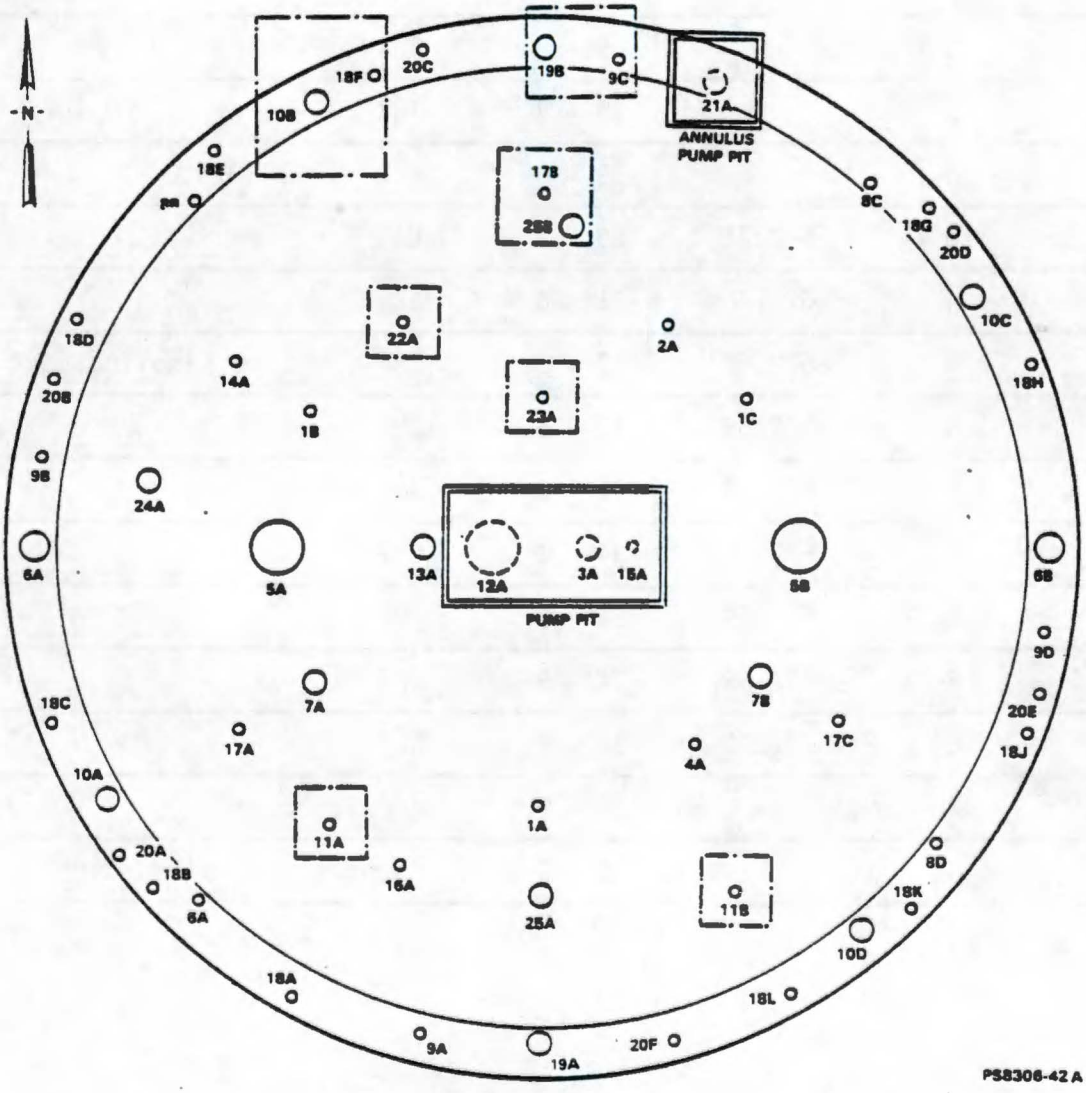
Tank No. AZ 102.



Tank No. AZ 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
21B	3		39 - 8	TBX 102-4
21C	3		39 - 8	TBX 102-5
21D	3		39 - 8	TBX 102-6
21E	3		39 - 8	TBX 102-1
21F	3		39 - 8	TBX 102-2
22A	16	672.75	20 - 0	LIT
23A	4	672.70	31 - 0	LLI
24A	6	672.68	12 - 6	SMP - future sampling port
24B	6	672.66	12 - 6	SMP
24C	6	672.67	12 - 6	SMP
24D	6	672.70	34 - 9	SMP
24E	6	672.69	34 - 9	SMP
24F	6	672.68	34 - 9	SMP
24G	6	672.70	34 - 9	SMP
29A	12		38 - 9	Annulus pump
30A	4		31 - 0	Annulus pump pit drain

Tank No. SY 101.

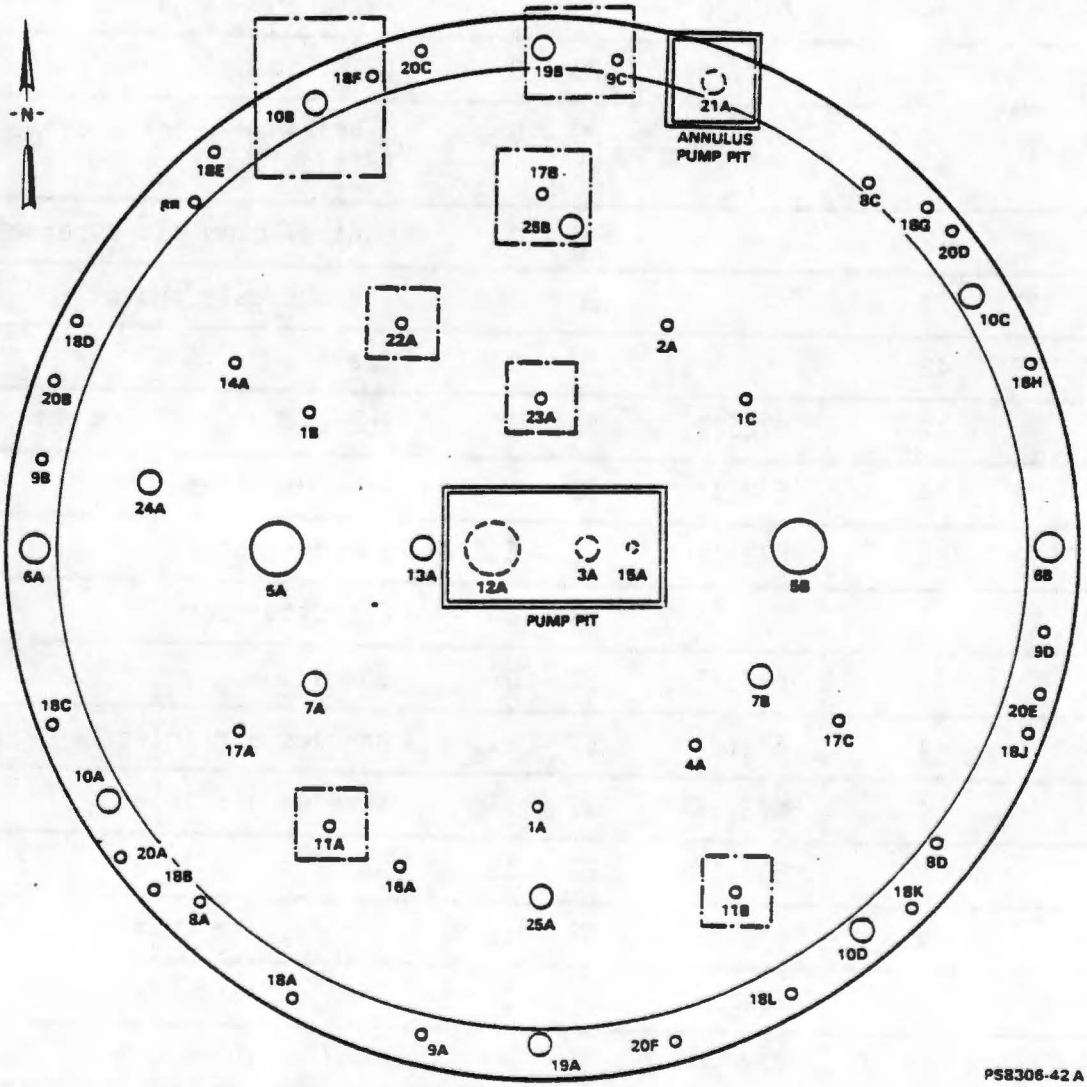


Tank No. SY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	672.61	20 - 0	Permanent lance
1B	4	672.44	20 - 0	Permanent lance
1C	4	672.42	20 - 0	LIT (Field ID 2A)
2A	4	672. 25	20 - 0	Bent riser - not useable (Field ID_1 C)
3A	12		3 - 0	Central pump pit supernatant pump
4A	4		20 - 0	Thermocouple probe
5A	42		20 - 0	Spare
5B	42	672.22	20 - 0	Spare
6A	24	672.47	38 - 6 3/8	Annulus access
6B	24	672.38	38 - 6 3/8	Annulus access
7A	12		20 - 0	Exhauster port
7B	12	672.37	20 - 0	Spare/LOW
8A	4	672.37	37 - 11	Annulus air inlet
8B	4	672.27	37 - 11	Annulus air inlet
8C	4	672.17	37 - 11	Annulus air inlet
8D	4	672.38	37 - 11	Annulus air inlet
9A	6	672.35	38 - 9	Annulus inspection
9B	6	672.44	38 - 9	Annulus inspection
9C	6	671.44	38 - 9	P/CP (12 in. CVR) - annulus inspection
9D	6	672.40	38 - 9	Annulus inspection
10A	8	671.44	38 - 9	Annulus exhauster port
10B	8	671.43	38 - 9	P/CP (18 in. CVR) - annulus inspection

9 1 1 2 3 5 1 2 0 6 3

Tank No. SY 101.



Tank No. SY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10C	8	672.46	38 - 9	Annulus air inlet
10D	8	672.46	38 - 9	Annulus inspection
11A	4		28 - 0	P/CP (18 in. CVR) Spare
11B	4	672.60	28 - 0	P/CP (18 in. CVR) SpG
12A	42		3 - 0	Central pump pit supernatant addition
13A	12	672.23	9 - 0	Observation port
14A	4	672.25	28 - 0	Temporary lance
15A	4		6 - 0	Central pump pit dropleg nozzle
16A	4	672.23	28 - 0	Spare/LOW
17A	4		28 - 0	LLI
17B	4	671.83	28 - 0	P/CP (12 in. CVR) - spare
17C	4	672.37	28 - 0	Permanent lance
18A	4	672.45	39 - 8	Annulus inspection
18B	4	672.42	39 - 8	Annulus inspection
18C	4	672.40	39 - 8	Annulus inspection
18D	4	672.42	39 - 8	Annulus inspection
18E	4	672.43	39 - 8	Annulus inspection
18F	4	671.42	39 - 8	P/CP (12 in. CVR) - annulus inspection
18G	4	672.43	39 - 8	Annulus inspection
18H	4	672.43	39 - 8	Annulus inspection
18J	4	672.43	39 - 8	Annulus inspection
18K	4	672.44	39 - 8	Annulus inspection
18L	4	672.44	39 - 8	Annulus inspection

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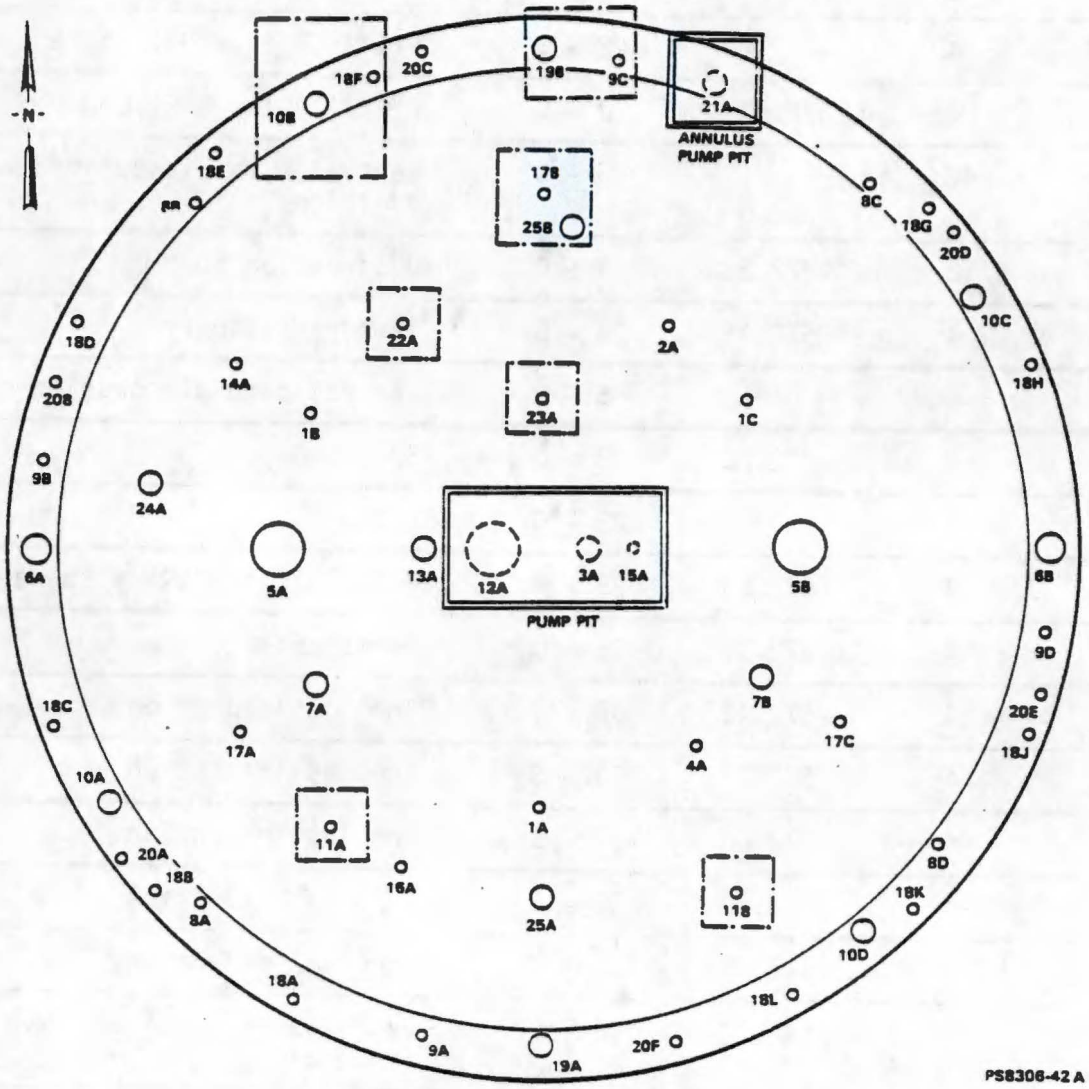
Tank No. SY 101.

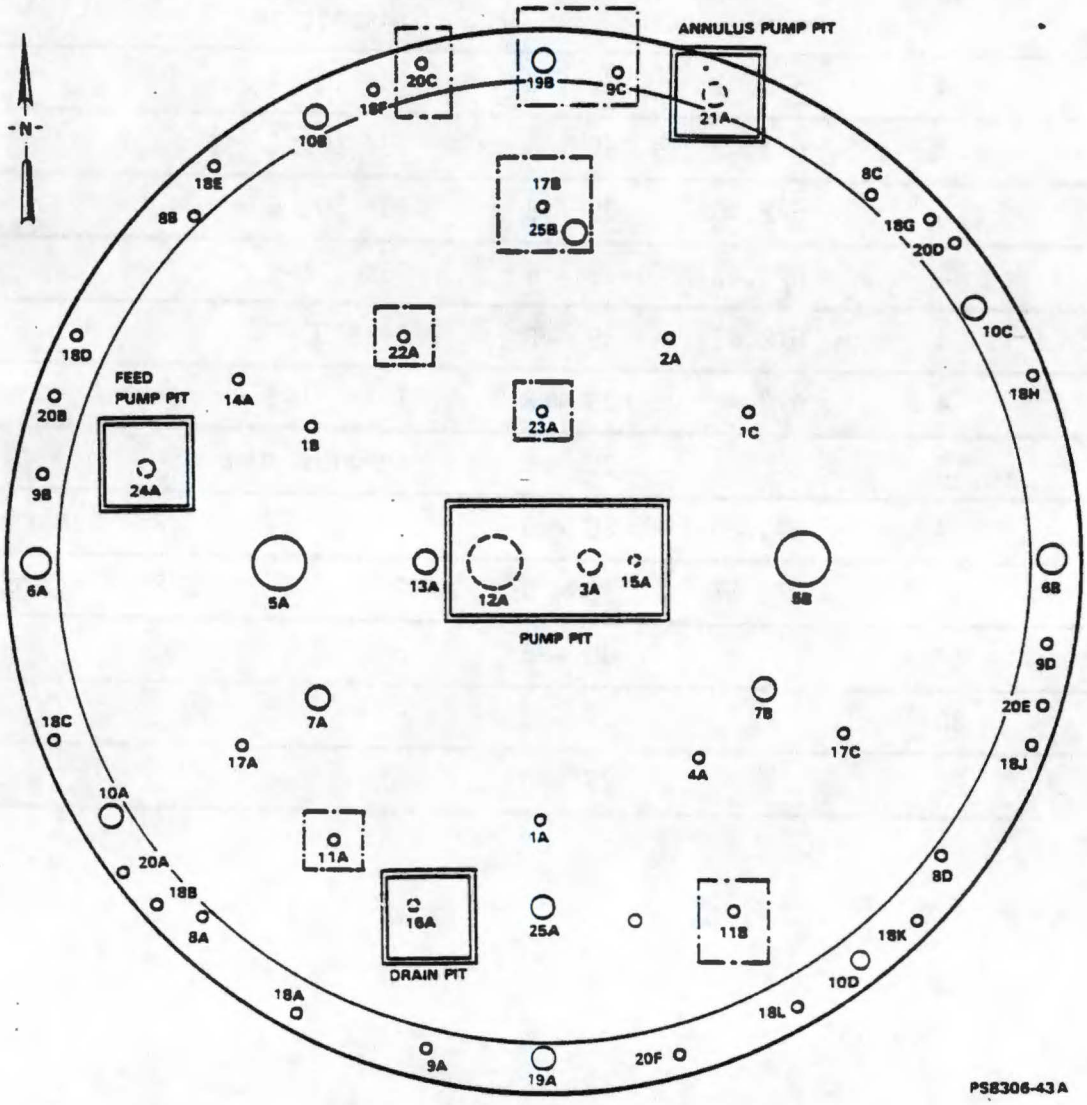


Tank No. SY 101.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
19A	12	672.44	38 - 9	Leak detector
19B	12	671.42	38 - 9	P/CP (18 in. CVR) - annulus inspection
20A	4	672.41	39 - 8	TBX 101-4
20B	4	672.43	39 - 8	TBX 101-5
20C	4	672.40	39 - 8	TBX 101-6
20D	4	672.47	39 - 8	TBX 101-1
20E	4	672.43	39 - 8	TBX 101-2
20F	4	672.46	39 - 8	TBX 101-3
21A	12		38 - 9	Annulus pump
22A	4	671.20	20 - 0	P/CP (12 in. CVR) - spare
23A	4	671.61	10 - 0	P/CP (12 in. CVR) - spare
24A	12		30 - 0	nf
25A	20		27 - 0	nf
25B	20		27 - 0	nf

9 1 1 2 3 5 4 2 0 6 7

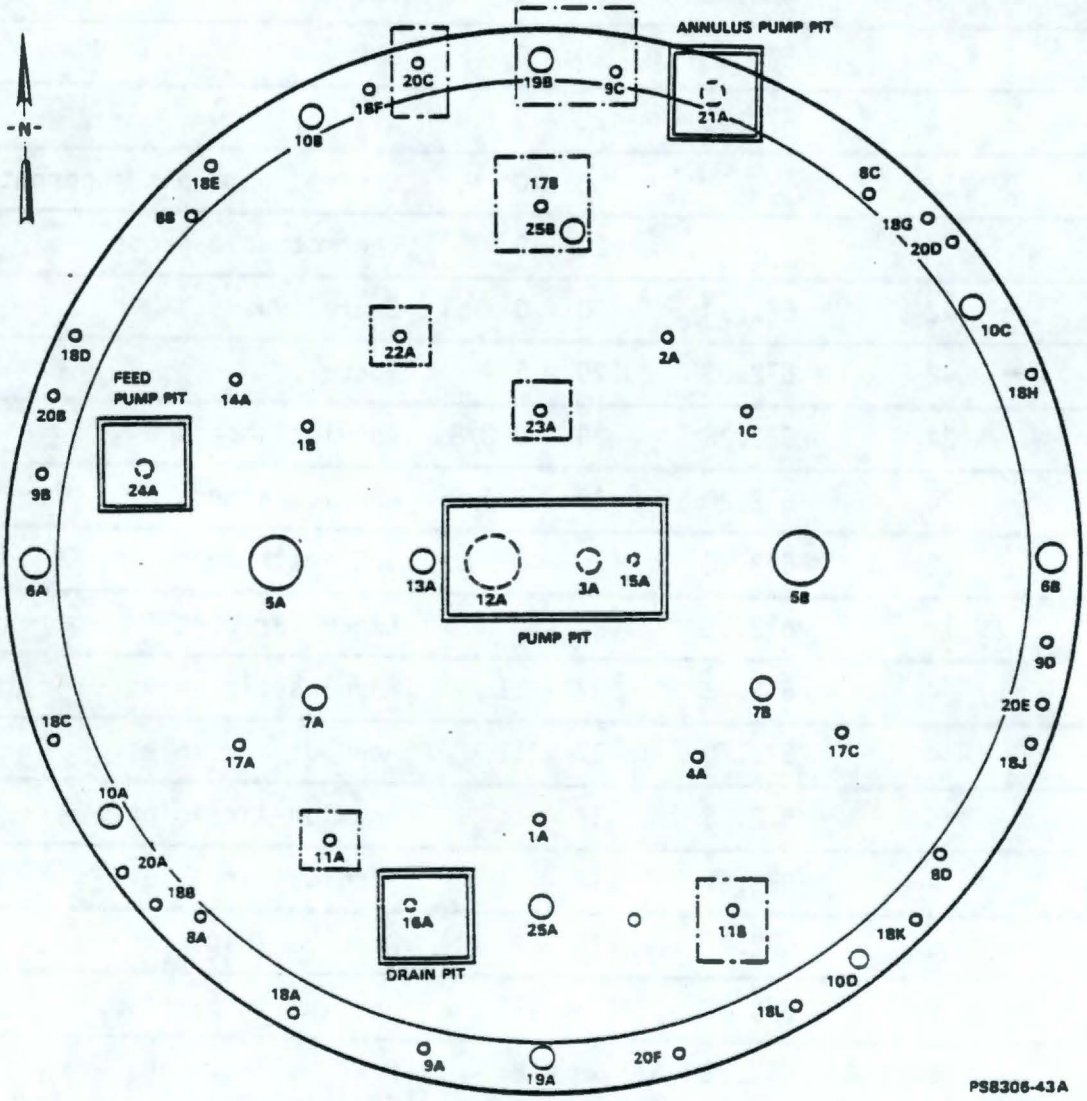
Tank No. SY 102.



Tank No. SY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	672.57	20 - 0	SMP
1B	4	672.48	20 - 0	Spare/LOW
1C	4	672.25	20 - 0	SMP
2A	4	672.51	20 - 0	LIT
3A	12		3 - 0	Central pump pit supernatant pump
4A	4		20 - 0	Thermocouple probe
5A	42	671.94	20 - 0	Spare/LOW
5B	42	672.03	20 - 0	Spare
6A	24	672.25	38 - 6 3/8	Annulus access
6B	24	672.20	38 - 6 3/8	Annulus access
7A	12	672.30	20 - 0	SpG instrument
7B	12	672.26	20 - 0	Exhauster port
8A	4	672.75	37 - 11	Annulus air inlet
8B	4	672.70	37 - 11	Annulus air inlet
8C	4	672.45	37 - 11	Annulus air inlet
8D	4	672.51	37 - 11	Annulus air inlet
9A	6	672.22	38 - 9	Annulus inspection
9B	6	672.25	38 - 9	Annulus inspection
9C	6	671.52	38 - 9	P/CP (12 in. CVR) - annulus inspection
9D	6	672.19	38 - 9	Annulus inspection
10A	8	672.27	38 - 9	Annulus inspection
10B	8	672.13	38 - 9	Annulus air inlet

Tank No. SY 102.



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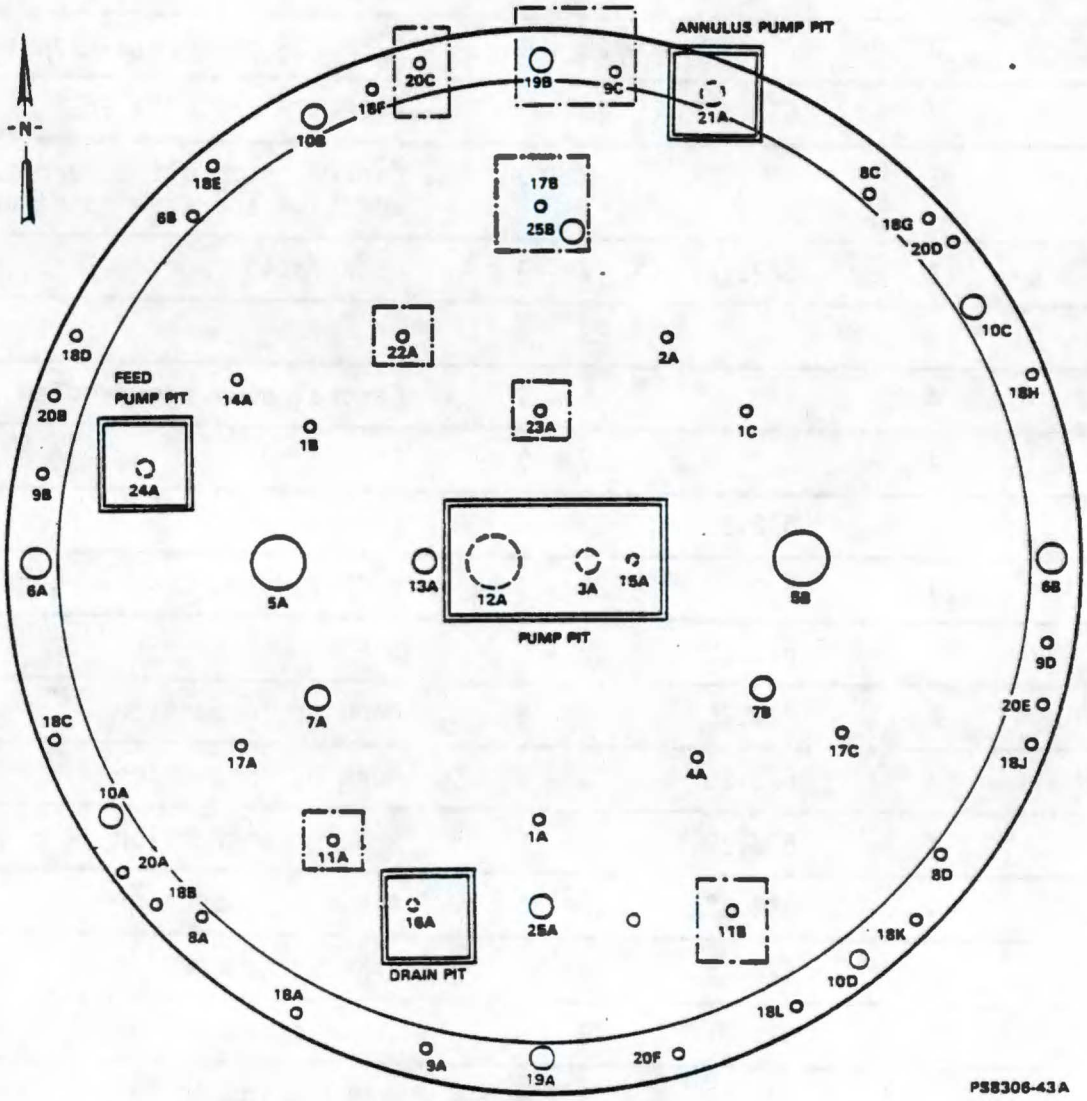
Tank No. SY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10C	8	672.19	38 - 9	Annulus inspection
10D	8	672.18	38 - 9	Annulus exhauster port
11A	4		28 - 0	P/CP (18 in. CVR) - spare
11B	4	672.58	28 - 0	P/CP (18 in. CVR) SpG
12A	42		3 - 0	Central pump pit supernatant addition and airlift circulators
13A	12	672.17	9 - 0	Observation port
14A	4		28 - 0	nf
15A	4		6 - 0	Central pump pit dropleg nozzle
16A	4		28 - 0	Pit drain
17A	4	672.25	28 - 0	LLI
17B	4	672.85	28 - 0	P/CP (18 in. CVR) - spare
17C	4	672.28	28 - 0	SMP
18A	4	672.25	39 - 8	Annulus inspection
18B	4	672.26	39 - 8	Annulus inspection
18C	4	672.29	39 - 8	Annulus inspection
18D	4	672.22	39 - 8	Annulus inspection
18E	4	672.15	39 - 8	Annulus inspection
18F	4	672.21	39 - 8	Annulus inspection
18G	4	672.19	39 - 8	Annulus inspection
18H	4	672.12	39 - 8	Annulus inspection
18J	4	672.39	39 - 8	Annulus inspection
18K	4		39 - 8	Annulus inspection
18L	4	672.25	39 - 8	Annulus inspection

Tank No. SY 102.

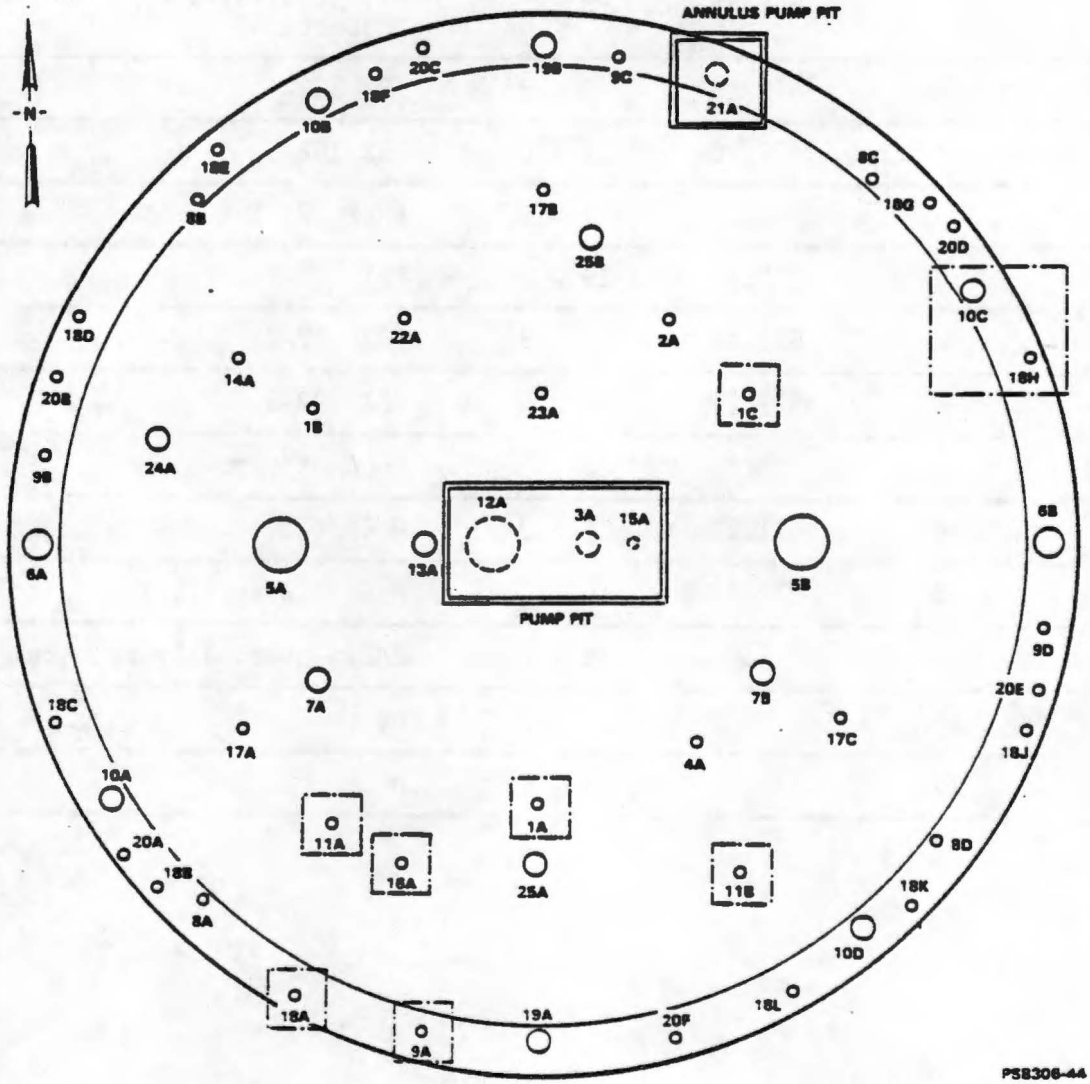


Tank No. SY 102.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
19A	12	672.25	38 - 9	Annulus leak detector
19B	12	672.25	38 - 9	P/CP (18 in. CVR) - annulus inspection
20A	4	672.26	39 - 8	TBX 102-4
20B	4	672.26	39 - 8	TBX 102-5
20C	4		39 - 8	P/CP TBX 102-6
20D	4	672.10	39 - 8	TBX 102-1
20E	4	672.41	39 - 8	TBX 102-2
20F	4	672.29	39 - 8	TBX 102-3
21A	12		38 - 9	Annulus pump
22A	4	671.23	20 - 0	P/CP (12 in. CVR) - spare
23A	4	672.68	10 - 0	P/CP (12 in. CVR) - spare
24A	12		30 - 0	242-S evaporator feed pump
25A	20		27 - 0	nf
25B	20		27 - 0	nf

9 1 1 2 7 6 4 2 0 7 3

Tank No. SY 103.

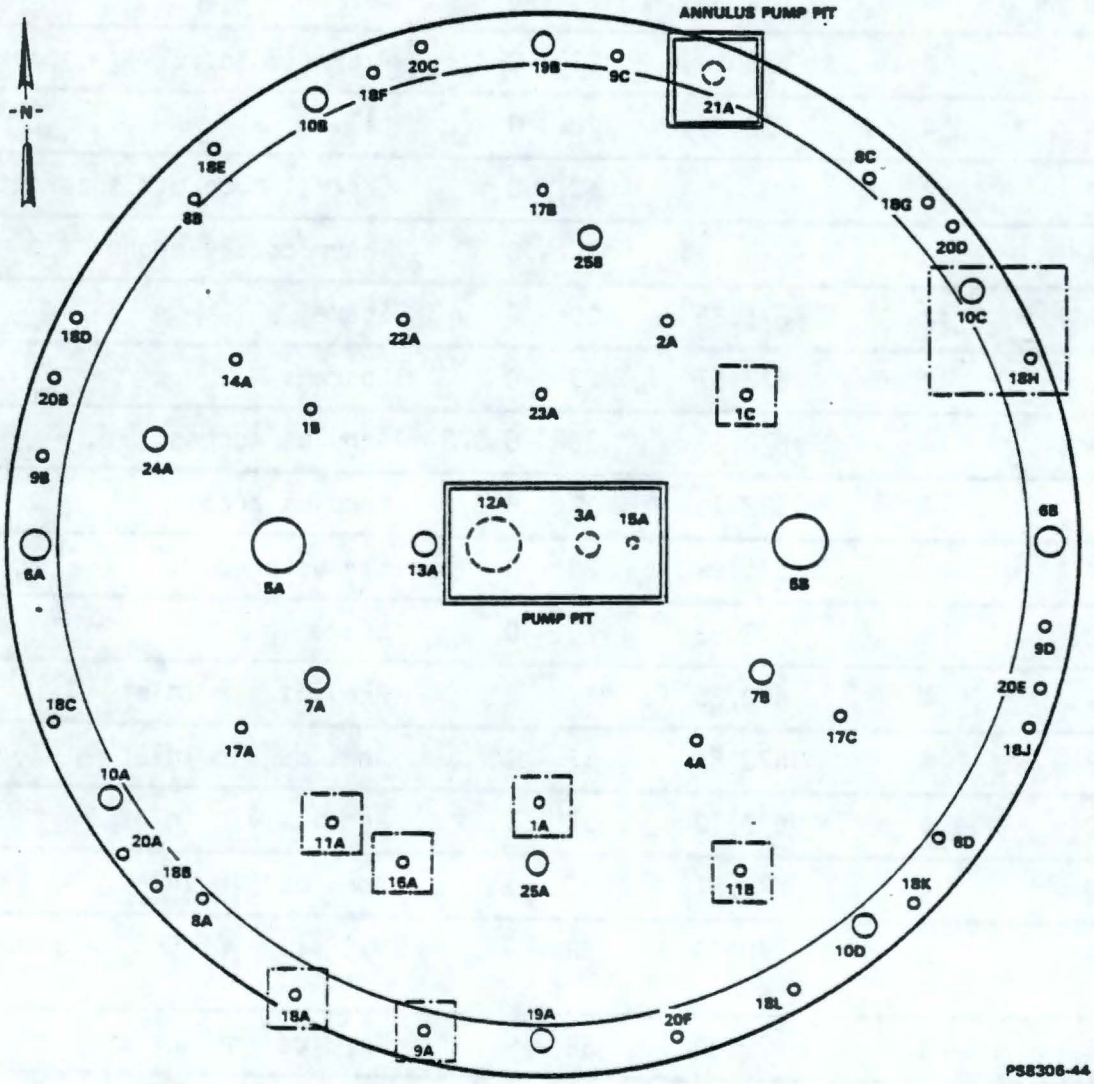


9 1 1 2 3 6 4 2 0 7 4

Tank No. SY 103.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
1A	4	672.40	20 - 0	P/CP (12 in. CVR) - spare
1B	4	672.35	20 - 0	SMP
1C	4	671.10	20 - 0	P/CP (12 in. CVR) - spare
2A	4	672.50	20 - 0	LIT
3A	12		3 - 0	Central pump pit supernatant pump
4A	4		20 - 0	Thermocouple probe
5A	42	671.86	20 - 0	Spare
5B	42	672.57	20 - 0	Spare
6A	24	672.37	38 - 6 3/8	Annulus access
6B	24	672.40	38 - 6 3/8	Annulus access
7A	12	671.98	20 - 0	Exhauster port
7B	12	672.63	20 - 0	Spare
8A	4	672.86	37 - 11	Annulus air inlet
8B	4	672.69	37 - 11	Annulus air inlet
8C	4	672.13	37 - 11	Annulus air inlet
8D	4	672.87	37 - 11	Annulus air inlet
9A	6	670.95	38 - 9	P/CP (12 in. CVR) - annulus inspection
9B	6	672.39	38 - 9	Annulus inspection
9C	6	672.41	38 - 9	Annulus inspection
9D	6	672.34	38 - 9	Annulus inspection
10A	8	672.42	38 - 9	Annulus inspection
10B	8	672.43	38 - 9	Annulus exhauster port

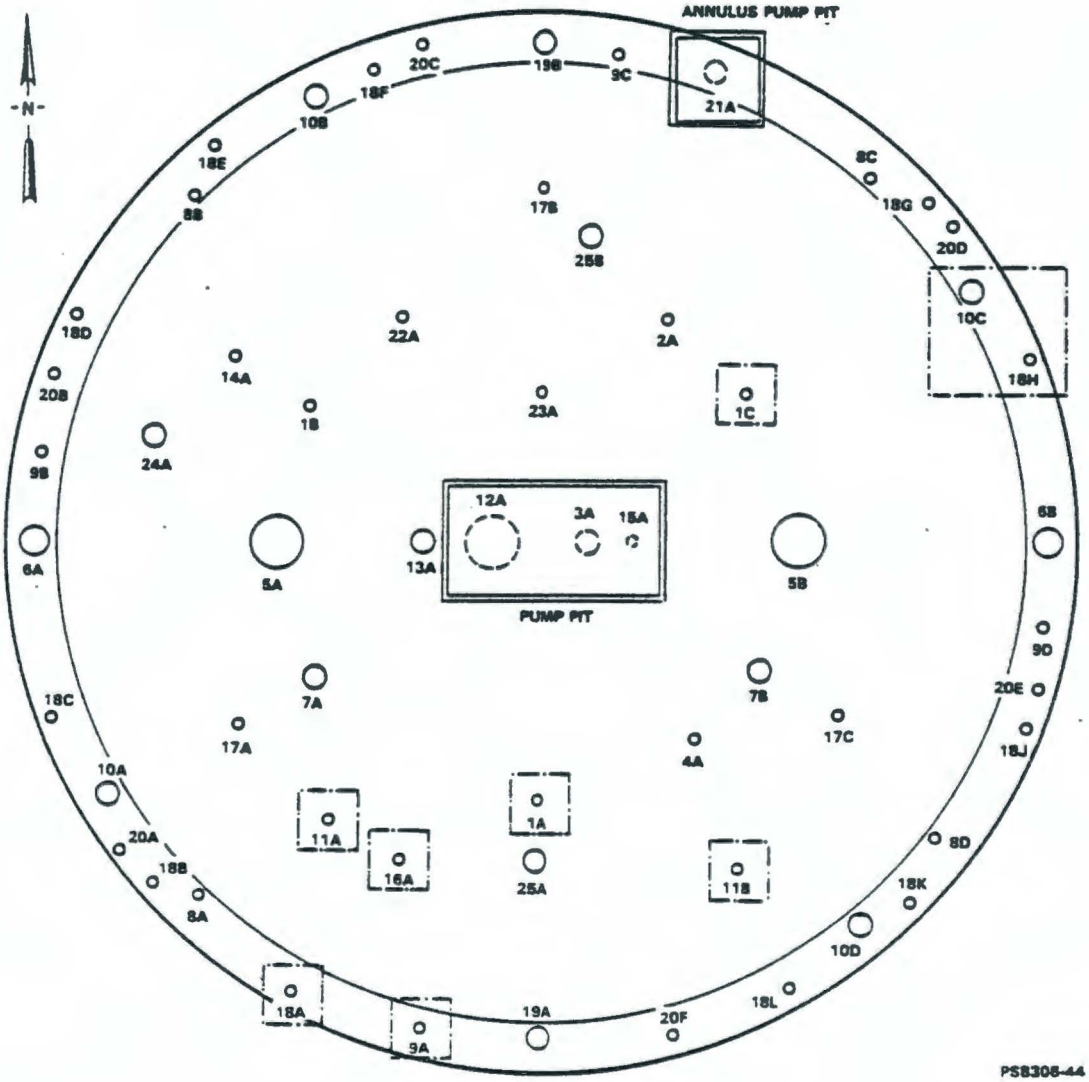
Tank No. SY 103.



Tank No. SY 103.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
10C	8	671.44	38 - 9	P/CP (18 in. CVR) - annulus inspection
10D	8	672.42	38 - 9	Annulus air inlet
11A	4		28 - 0	P/CP (18 in. CVR) - spare
11B	4	672.36	28 - 0	P/CP (18 in. CVR) SpG
12A	42		3 - 0	Central pump pit supernatant addition
13A	12	672.56	9 - 0	Observation port
14A	4	671.40	28 - 0	Spare
15A	4		6 - 0	Central pump pit dropleg nozzle
16A	4	670.75	28 - 0	P/CP (12 in. CVR)
17A	4	672.19	28 - 0	LLI
17B	4	672.20	28 - 0	SMP
17C	4	672.26	28 - 0	Spare
18A	4	670.95	39 - 8	P/CP (12 in. CVR) - annulus inspection
18B	4	672.41	39 - 8	Annulus inspection
18C	4	672.43	39 - 8	Annulus inspection
18D	4	672.41	39 - 8	(Field ID 18C) annulus inspection
18E	4	672.36	39 - 8	Annulus inspection
18F	4	672.39	39 - 8	Annulus inspection
18G	4	672.45	39 - 8	Annulus inspection
18H	4	671.45	39 - 8	P/CP (12 in. CVR) - annulus inspection
18J	4	672.40	39 - 8	Annulus inspection

Tank No. SY 103.



Tank No. SY 103.

Riser	Size (in. dia.)	Elevation (ft)	Radius (ft - in.)	Function/planned use
18K	4	672.40	39 - 8	Annulus inspection
18L	4	672.40	39 - 8	Annulus inspection
19A	12	672.40	38 - 9	Annulus leak detector
19B	12	672.41	38 - 9	Annulus inspection
20A	4	672.40	39 - 8	TBX 103-4
20B	4	672.38	39 - 8	TBX 103-5
20C	4	672.39	39 - 8	TBX 103-6
20D	4	672.46	39 - 8	TBX 103-1
20E	4	672.42	39 - 8	TBX 103-2
20F	4	672.41	39 - 8	TBX 103-3
21A	12		38 - 9	Annulus pump
22A	4	672.42	20 - 0	Spare
23A	4	672.20	10 - 0	SMP
24A	12		30 - 0	nf
25A	20		27 - 0	nf
25B	20		27 - 0	nf

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