



USED TANK FIELD INSPECTION

2000 bbl Tank – 03-07-11 12394

EMPRESS ENGINEERING LTD.

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PREPARED BY:

Les Unrau

November 18, 2024



TANK FIELD INSPECTION RECORD

Serial No.	03-07-11-12394	Location		Inspection Date	Nov. 14, 2024
		Size	2000 Bbl 21'3" x 36'0" - 6' cone	Inspection No.	SI-00035

NAMEPLATE

Manufacturer	Universal Ind.
Date	2003
Design Pres.	6 oz. / 0.4oz

	Thickness
Floor	1/4"
Shell 1	1/4"
Shell 2	1/4"
Shell 3	3/16"
Shell 4	3/16"
Shell 5	3/16"
Roof	3/16"

ACCESSORIES

	Orientation	Comments
Vault	0 degrees	Dirty - Good
Manway	45 degrees	Split door -Good
Thief Hatch	320 degrees	
Gauge Board	315 degrees	Good
Ladder	320 degrees	Good
Burner Platform	135 degrees	Good - no toeboard

Sample Lines	
Size	1"
Valves	Ball Valve
Elevation 1	3'0"
Elevation 2	3'6"
Elevation 3	4'0"
Elevation 4	2'6"
Elevation 5	11'0"
Elevation 6	18'0"
Elevation 7	25'0"

INSULATION

Thickness	2.5"
Condition	Good

*Some damage at the roof to shell and some bubbles that have opened from birds.

VAULT

	Size	Elevation (Ft)	Orientation	Valve	Riser to
Nozzle 1	3"	3'0"	Left	Gate	9'6"
Nozzle 2	3"	3'0"	Far Left	Gate	6'5"
Nozzle 3	4"	3'0"	Far right	Ball	Center of cone
Nozzle 4	4"	4'0"	Right	Ball	12'0"

MAJOR NOZZLES

	Size	Elevation (Ft)	Orientation	Valve	Riser to
Nozzle 1	4"	9'0"	50 degrees	N/A	Anode
Nozzle 2	8"	8'0"	180 degrees	Ball	10'0"
Nozzle 3	8"	10'0"	180 degrees	None	None
Nozzle 4	3"	8'0"	185 degrees	Ball	Floating Suction
Nozzle 5	24"	10'0"	225 degrees	None	Manway
Nozzle 6	4"	9'0"	230 degrees	None	Anode
Nozzle 7	8"	8'0"	180 degrees	Butterfly	Slotted Spreader
Nozzle 8	8"	18'0"	270 degrees	None	None
Nozzle 9	8"	26'0"	270 degrees	None	None
Nozzle 10	8"	32'0"	270 degrees	None	None
Nozzle 11	8"	8'0"	270 degrees	None	Syphon*

*up to 12' & down to 6'6"

FIRETUBES

	Size	Elevation (Ft)	Orientation	Stack Size	FA Size	Burner Run
Firetube #1	24"	12'0"	120 degrees	N/A	N/A	N/A
Firetube #2	24"	12'0"	150 degrees	N/A	N/A	N/A

2" firetube desand pipes over each tube with veejet spray in two directions.

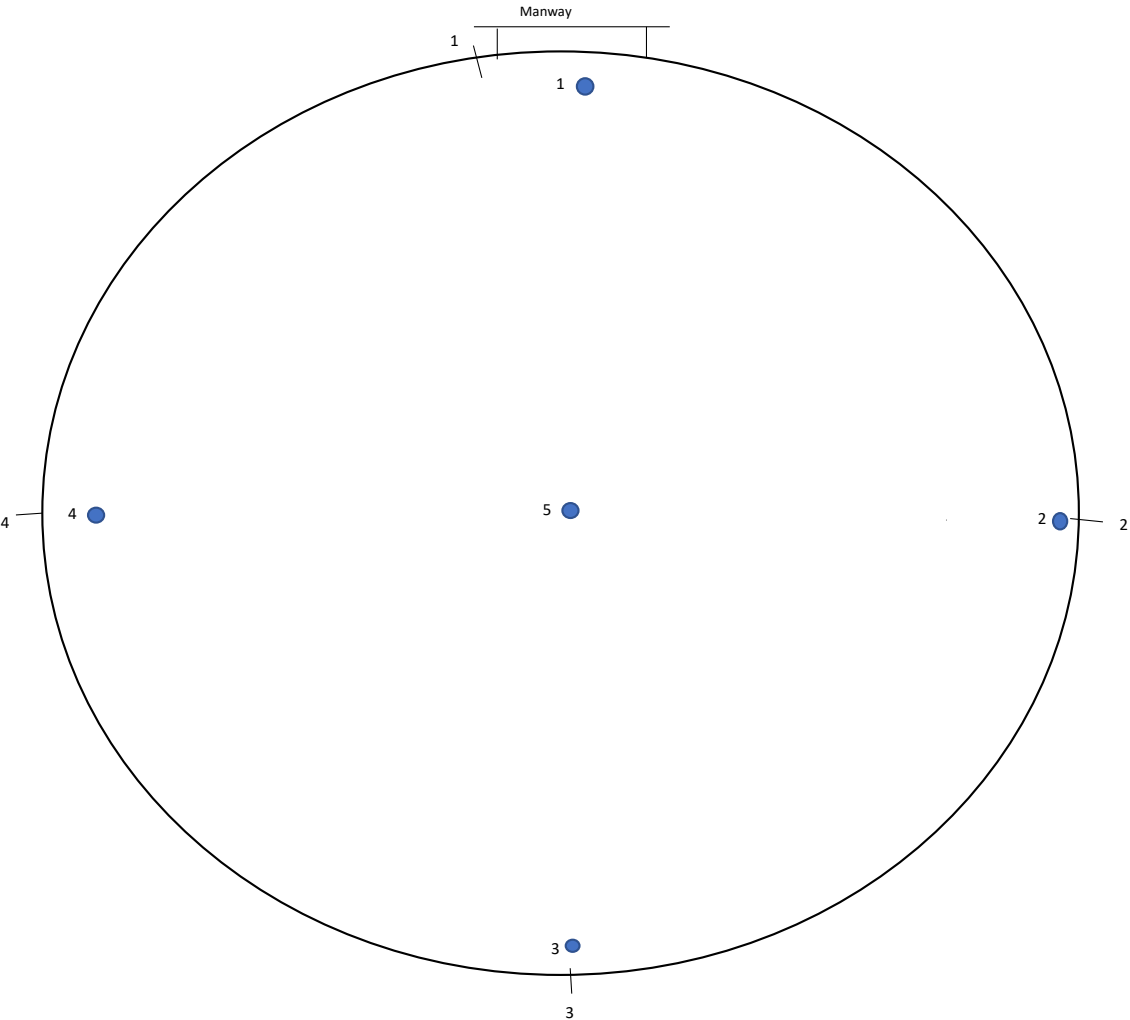
COMMENTS

The tank is sitting on concrete rig mats. There is internal corrosion on the skirt up 2' around the tank.
There are three desand rings and a floating suction.
Firetubes are not included, but there are blinds for the throats.
This tank is good to put into service.

Inspected by: Kevin Schimelfenig
API Cert. #25239

Signed: _____

Ultrasonic Thickness Test



1st. Course

- Point 1
- Point 2
- Point 3
- Point 4
- Point 5
- Point 6
- Point 7
- Point 8
- Point 9

Skirt

0.25"
0.228
0.219
0.224

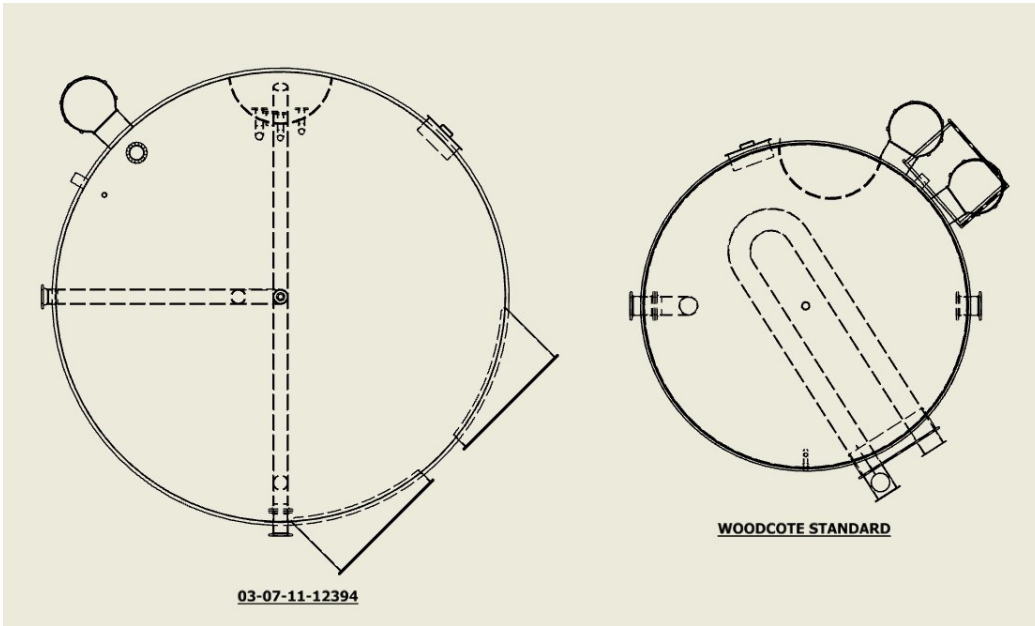
Original Thickness

Cone Floor

0.25"
0.251
0.252
0.252
0.252
0.253

Original Thicknes

The following is a plan view sketch showing the orientation of this tank.



The following pages include photos taken of the tank. The first photo (below) is the nameplate. Four (4) photos were then taken 90 degrees apart to capture the entire exterior. For reference, the degrees are shown below each of the photos. Zero degrees has been set to the vault and the other photos follow in a clockwise direction (in top view) at 90 degree intervals. A drone shot of the exterior roof is also included.

There is also one photo of the inside of the envirovault along with photos of the tank interior.



Nameplate



0 Degrees



90 Degrees



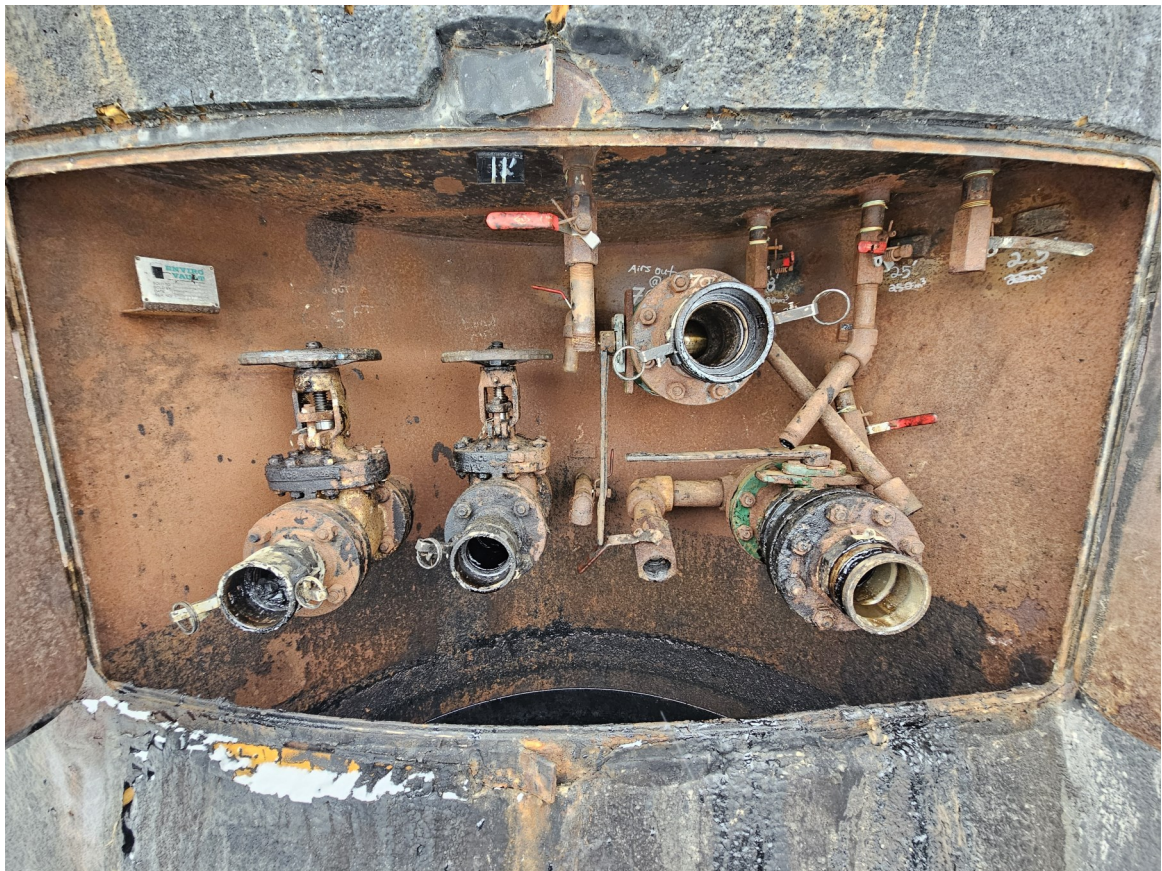
180 Degrees



290 Degrees



Roof



Vault



FLOOR





