

RED HILL TANK NO. 10  
PRODUCT: DFM

<u>DATE</u>	<u>REMARKS</u>
10/2/63	Put in floats and welding brackets to secure 3/4" pipe from telltale #4 to catwalk entrance. Telltales plugged following inspection after cleaning.
10/3/63	Completed piping on telltale #4 in tank. Ready for testing.
10/7/63	Made air test of 2-1/2 psi on telltale #4.
10/11/63	Calibrated gauge.
4/21/64	Repaired broken tape.
3/3/67	Replaced 6" standard 150 lbs. steel valve (new). Old valve frozen and valve stem bent. Labor Cost: \$22. Material: \$185
3/3-21/67	Fished float from tank bottom and installed new float. Labor Cost: \$174. Material: \$65
3/67	Installed turn buckles at top of guide wires for float.
3/3/67	Removed all gear from tank and took to maintenance shop for cleaning.
3/6/67	Machined new manhole cover for tank.
3/9/67	Checked and found counterweight required an additional 1-1/2 lbs. Machined additional weight to be installed.
3/10/67	While attempting to install additional weight to counterweight, upon removing cover, chain cable jumped, causing counterweight to drop to bottom of tank and breaking cable. Tank gear was set up immediately to start washing down catwalk and elevator shaft.
3/15/67	Tested elevator with 920 lbs. Washed side wall of tank using elevator.
3/17/67	Washed, checked and inspected tank bottom. No signs of any new dents or splits. Machined cracked 52 lbs. counterweight.
3/20/67	Cleared and tested plugged collector ring.
3/21/67	Wire brushed bad pits on tank bottom and painted same with tarset. Hung back counterweight and checked operation of float.
3/10/72	Emptied and cleaned for conversion.

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3/22-4/10/72	Cleaned tank (252 hours). Labor Cost: \$1,174.32. Converted from NSFO to Navy Distillate.
6/29/72	Topped off with Navy Distillate.
1/73	Started to empty tank. Suspected leak. No sign of oil from telltale.
8/22/73	Emptied tank into mainline. Started cleaning.
9/1/73	Emptied and cleaned for conversion. Telemeter system installed. Converted to DFM.
9/4/73	Installed 6" valve on drain line.
11/14/73	Started receiving Navy Distillate from Tank 7 due to leak.
4/20/76	Telltale #1 started to leak--60 drops per minute.
4/23/76	Started to drain pits into Tank 13.
5/5/76	Emptied and cleaned tank for repairs.
5/28/76	Leak found on collector ring.
5/4/76	Tank removed from service due to leakage.
9/21/76	PWC working in tank. Tank emptied and washed down for contractors.
12/15/77	PWC Pearl commenced repairs to tank.
10/25/78	Contractor began work. Removed motorized valves and installed blanks.
4/9/80	Contractor notified ROICC that tank ready to be returned to service.
4/11/80	Began refilling tank for leak test.

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LEAK TEST DATA

(Note that leak rate is based on data from telemetering.)

<u>DATE</u>	<u>FILL LEVEL</u>	<u>LEAK RATE (GAL/DAY)</u>
4/11-7/22/80	Various 188-235	Bad data due to leaking skin valves
7/22-8/21/80	235.0	13.3
9/10-10/4/80	235.0	12.8
10/4-11/12/80	235.0	2.4
11/12/80-1/9/81	235.0	4.7
1/9-10/81	242.1	1206
1/10-12/81	195.4	NIL
1/12-15/81	235.1	NIL
1/15-19/81	236.1	NIL
1/19-22/81	237.1	NIL
1/22-26/81	238.0	NIL
1/26-29/81	238.0	NIL
1/29-30/81	240.0	693
1/30-2/10/81	239.0	15.0

1/9/81                      Fill level raised from 235.0 ft. to 242.1 ft. to test upper dome. Severe leak somewhere between 235.0 ft. and 242.1 ft. Fuel ran out of concrete near first platform on stairway to top of dome.

1/29/81                      Leak located between 239 ft. and 240 ft. level.

10/9/81                      Completed draining DFM from tank.

10/14/81                      Flushed with JP-5 and drained.

10/19/81                      Started refilling tank with JP-5.

4/1/83                      Tank is still being tested for leaks. If necessary, the contractor will return in August or September 1983 for a final rework.