

RED HILL TANK NO. 6
PRODUCT: JP-5

<u>DATE</u>	<u>REMARKS</u>
7/23/52	Cleaned. Welded leak in collector ring. Labor Cost: \$2310.80. Material: \$675.10
6/63	Opened and cleaned tank to check for leaks. Cut collector ring and all telltale pipes. Pressurized tank at 1-1/2 lbs. pressure maximum.
10/17/63	Installed smoke tracer system at telltales.
11/18/63	2-1/2 lbs. air pressure test made on telltale pipes #3, #4, and #10 at 42' level. Welded fittings of subject telltale pipes were checked for leaks--okay. Air pressure test secured after 1 hour and 15 minutes. Black oil or JP-5 seems to be coming back into the tank from either the 18" line or the 32" line, causing coating of oil on surface of water. Decision made to drain tank down. A check was made on 32" line which runs in the lower tunnel up to Tank No. 6 to see if the blank needs to be reversed.
11/19/63	Resumed draining--from 0745 to 1725.
11/20/63	Five lengths of hoses were connected to the water hydrant line to hose down the bottom of the tank to remove the black oil or JP-5. Resumed draining; secured.
11/21/63	Unplugged 6" drain on bottom of tank. There was 4" of water left at bottom. Tried clearing drain with 1-1/2" water hose. No results. J. Novit closed valve by sump pit, then opened the valve on Tank #10 so that the water would go down, then up to tank #6 drain to release the sludge that is plugged in the 6" drain. Drain was unplugged. 18" line was flushed out. Drain line was closed so that tank could be filled with water.
11/22/63	Gas detector tests made by Pearl Harbor NSYD Safety Officer on tank. Also checked telltales 3, 4 and 10 from top of catwalk. Checked out okay. Made checks of tank bottom (around water level) and telltale of lower tunnel of tank. Recommended blower to be utilized during welding operations.
11/26/63	Safety Inspector checked out 40 foot water level for inspection. Okayed area for drilling holes in telltales but not for hot work. One hole each drilled on telltales 3, 4, and 10. Area rechecked by Safety Inspector. Gas test on telltales okay. Welded 3/4" nipples on telltales 3, 4, and 10 at 40 foot level for testing purposes.

REPRODUCED AT GOVERNMENT EXPENSE

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11/27/63	Connected water hose and welding leads to telltale #10 to weld 3/4" nipple to 3/4" telltale line at bottom of 40 foot level. Welding completed. 7-1/2 lbs. air pressure test made for one hour on telltale #10 to check all areas around 10 ft. level. Rechecked telltale #10 an hour later. When opened, water and air came shooting out for about 10 minutes. Valve was closed. Temporarily secured. When 7-1/2 lbs. air pressure was applied to telltale #10 from inside at bottom of 40 foot level, the pressure did not indicate any reading at the telltale pipe which extends to the catwalk. Conclusion: 3/4" telltale is plugged in between. (Cleared on 12/2/63.) Switched over from telltale #10 to telltale #4. Air pressure of 8-1/2 lbs. was put into telltale #4 for about one hour. Telltale #4 in lower tunnel is clear and the air pressure coming out is at 7 lbs. All other telltales--no air. Telltale #4 air pressure at bottom is 8-1/2 lbs.; top of catwalk is 1-1/2 lbs. Shut off air pressure. 8 lbs. air pressure turned on into telltale #3 for one hour from 40 foot level. Telltale #3 at top of catwalk shows 3 lbs.
12/2/63	Safety Inspector okayed telltales 3, 4, and 10 at bottom for hot work. Welded 3" nipple on telltale #3 at 43-1/2 foot level for testing purposes. 7-1/2 lbs. pressure on telltale #3 for 1/2 hour. Pressure okay after 10 minutes. Pressurized telltale #3 with 8 lbs. of air. There was 1-3/4 lbs. of pressure on telltale #3 showing from top of catwalk. With pressure on, telltale #3 checked around fittings and joints for leaks. Negative. 10 lbs. air put into telltale #4. From top of catwalk telltale #4 read 1-3/4 lbs. Checked telltale #4 at lower tunnel; line clear and okay. Fittings and joints around telltale #4 checked for leak--okay. 10 lbs. air pressure put in telltale #10 from bottom of 43-1/2 foot level. Air pressure at top of catwalk from telltale #10 is 6-1/4 lbs. Plugged at first, but 10 lbs. air pressure cleared it. Air pressure on telltale #10 at lower tunnel good, but 1/2 gallon of oil and water came out before it was cleared. Checked for leaks at 43-1/2 foot level. Negative.
12/3/63	Tank was filled from 43'-5" to 50'-7". Air pressure put into telltale #10 from top of catwalk to determine whether any water or oil left in back of walls or shell. Checked water level. All okay. Went down to bottom of 50'-7" level to drill 5/8" holes in telltales #3, 4 and 10. 3" nipple welded over holes for testing purposes.

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12/4/63	Air pressure test on telltale #10 for 1 hour (50'-7" level). Telltale #10 is clear. Reading at bottom of 50'-7" level is 10 lbs. and the reading at top of catwalk is 7 lbs. Telltale at lower tunnel is clear (no water). Checked around 50'-7" level for leaks on welds and joints, using liquid soap around all these areas. No leaks reported. 10 lbs. air pressure put into telltale #4. Will be held for 40 minutes. At bottom of telltale #4, 10 lbs. air is being used, 3 lbs. at catwalk, and bottom of lower tunnel telltale #4 is clear (no water). Air pressure was turned on telltale #3. Air pressure reading at bottom of 50'-7" level was 10 lbs; air pressure reading at catwalk for telltale #3 was 4 lbs. Telltale #3 at lower tunnel is clear; however, when valve was opened, water and oil came out and filled one-half quart. Three manifolds made of black pipe (12' long with 3 nipples on each one) will be threaded on the nipple that extends out from telltale #3, 4 and 10 so that tests may be made without welding any nipples. This manifold is good up to the 60' level.
1/7/64	Started calibrating sounding equipment.
2/24/64	Started checking tank for leak. Tank appears to be leaking at 85' level.
3/1/64	Cleaned tank.
4/13/64	Removed two manifolds at 60' level.
6/25/69	Manhole cover removed from tank. Vent closed.
1/20/70	Emptied and cleaned for conversion.
1/21-2/3/70	Cleaned tank. Washed down sludge from tank and also elevator (224 hours). Labor Cost: \$732.48
2/2/72	Topped off with Navy Distillate. Converted to Navy Distillate. Emptied and cleaned for conversion. Telemeter system installed.
7/8/74	Started transferring to Tank 16. Tank emptied.
7/22/74	Tank washed down for conversion to JP-5 from Navy Distillate. Blank installed on 32" line inside tank.
7/23/74	Welded flange to mainline. 32" line blanked inside of tank. Drain line slightly plugged. Tank buttoned. Manhole cover removed.

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10/74	Tank converted from Navy Distillate to JP-5 storage.
4/78	Manhole cover removed.
4/11/78	Removed 6" valve on drain line.
4/12/78	Cleaned tank.
3/23/81	Tank removed from service and turned over to the contractor for initial repairs and lining.
1/15/82	Tank inspected and accepted. Started refilling tank for leak test.
3/16/83	NSC Pearl formally accepted tank in a letter to ROICC Pearl.
8/15/88	Tank emptied in order to perform required maintenance and repairs on the 6" Drain Line valve, and the Skin and Motor operated valves on the 16" and 32" pipeline.