

# PROJECT HISTORY

## SOUTHWESTERN OKLAHOMA STATE UNIVERSITY

WEATHERFORD, OKLAHOMA

COMPLETION: 2008



### PROJECT ASSESSMENT

#### *“What needed to be done”*

This was a two-fold specialty project. First, the pool was beset with leakage from 16- rusted and deteriorated cast-iron and brass inlet fittings. Second, the old, fully tiled pool had additional leakage through degraded or missing grout joint material. Stains and calcium deposits gave the surface a dull, brownish looking appearance. Total circulation system replacement and alternative interior re-surfacing was not within the school’s budget considerations necessitating a piece-meal approach to the leakage and appearance problems.

### RENOVATION PLAN

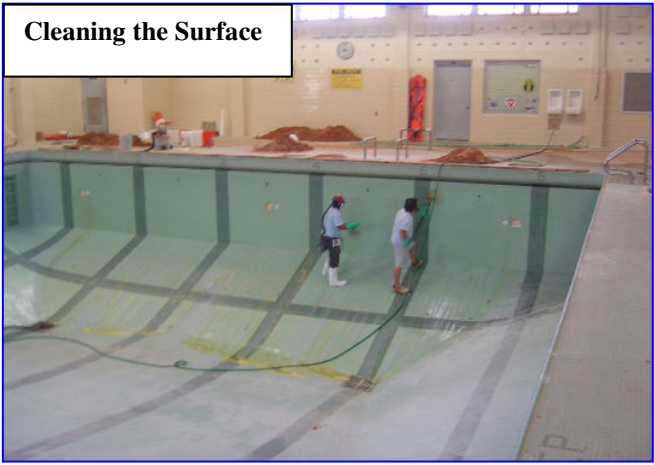
#### *“How it was done”*

Adjacent to each existing return line inlet fitting, a 4” square of the existing tiling was carefully removed. A new 2” hole was drilled into this 4” square area and through the pool wall. 16-pits corresponding directly to the locations of each return line inlet were first cut into the decking concrete, then excavated down equal to the depth of where the inlet line met the 6” main return line. Care was required so as not to injure this main return line, which was also cast-iron. Fortunately, threaded fittings were located below grade making the transition to new Schedule 80 PVC less complicated.

Pressure checks were placed repeatedly on the system to insure that no additional leakage through deterioration was found in the main return line, or through injury in the course of the piping transition. The surface of the main pool was thoroughly cleaned including high pressure water blasting. All necessary tile cutting, patching and replacement were done, including around the new PVC inlet fittings, followed by re-grouting of the entire tiled pool surface. Final cleaning of the pool surface restored a beautiful blue reflective look from the tile finish. Tile work was done to ANSI & TCA installation standards.



SAMPLE PICTORIAL SEQUENCE ON BACK OF THIS PAGE



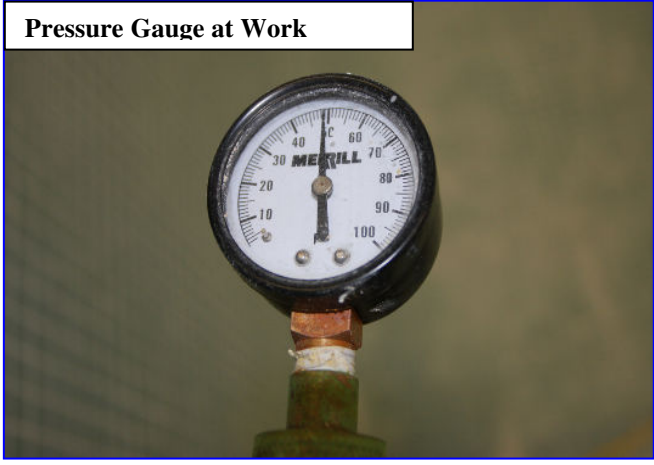
**Cleaning the Surface**



**Excavated Pit for New Plumbing**



**New Inlet Return Line**



**Pressure Gauge at Work**



**Grouting Walls**



**Grouting Floor**

**PROJECT SPECIFICATIONS:**

TOTAL SQ. FT.:	4,671
POOL SHAPE:	RECTANGULAR W/L DEEP END
TYPE OF CIRCULATION:	GUTTER
TYPE OF CONSTRUCTION:	CONCRETE
TYPE OF FINISH AFTER RENOVATION:	TILE