

# Hanlon Engineering + Architecture

## Design-Planning-Development-Management

Merging Traditional Values with Today's Technologies to Better Serve Our Client's Future.

## Acid Tanks & Raffinate

Arizona

### SERVICES

PROCESS ENGINEERING  
PROCESS DEVELOPMENT & P&ID'S  
BASIC ENGINEERING  
DETAIL ENGINEERING  
PROCUREMENT ASSISTANCE  
CAPITAL COST ESTIMATE  
CONSTRUCTION MANAGEMENT

### SCOPE

HANLON ENGINEERING & ARCHITECTURE IS CURRENTLY ADDING A 10,000 TON ACID STORAGE TANK ASSOCIATED WITH PIPING AND CONTROL SYSTEM AS REQUIRED.

HANLON ENGINEERING PERFORMED A DETAILED HYDRAULIC ANALYSIS AND PROVIDED RECOMMENDATIONS FOR DIFFERENT SCENARIOS FOR A COPPER RAFFINATE DISTRIBUTION SYSTEM FOR THE LEACH PAD. PERFORMED A SITE VISITS TO CAPTURE ALL INFORMATION NEEDED AND IMPLEMENTED A SUPPLIED SURVEY TO ACCURATELY PREDICT THE PERFORMANCE OF THE SYSTEM FOR A BASE CASE AND ALSO FOR WHEN CHANGES WERE TO BE MADE TO THE SYSTEM. OVERALL FLOW OF THE SYSTEM IS OVER 20,000 GPM.

### DATA

**CLIENT:**  
FREEPORT-MCMORAN

**CAPITAL COST:**  
\$ 9.0 MILLION



**CORPORATE:**

**BRANCH:**

TUCSON, ARIZONA

ELKO, NEVADA

PHOENIX, ARIZONA

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