



CASE STUDY

Minera Mexicana La Ciénega has been successfully **using** the Rhosonics **Slurry Density Meter** (SDM) for **three years** now.

CASE STUDY - MINERA MEXICANA LA CIENEGA

Introduction

Minera Mexicana La Ciénega, located in the north of Durango, has been using the Rhosonics Slurry Density Meter (SDM) for three years now. The SDM is essential in measuring and controlling different purposes and to monitor the efficiency.

Customer



Minera Mexicana 'La Cienega' is a Fresnillo PLC mine, located in Durango. It has been operating since 1992, as an underground mine, flotation plant and leaching plant. It is engaged in exploration and mining as well as in the processing and sale of gold and silver, among other minerals. Its mill has the capacity to generate 4,000 tons per day, with those silver and gold ores.



Challenge

- To control density which is very crucial since they need to track how much slurry they are transferring to tailings at all times
- To improve and optimize the thickener underflow

Measuring tasks

Measuring slurry density under the first washer.
Pipe diameters: 125 mm (six inch)
Pipe material: HDPE
Solids: 10-65 wt%
Density: 500-1650 g/l

Instrument used

Ultrasonic Slurry Density Meter (SDM) of Rhosonics. This was assembled inline via a 6" non lined pipe with a spool piece.

Our solution

Rhosonics' SDM Slurry Density Meter is an excellent choice for this measuring task, because of its reliable, stable and real-time measurement results. After a 30 day trial in October 2018, the customer carried out an evaluation of the use of the nuclear and Rhosonics analysers. Unlike the nuclear ones, the SDM coped easily with all the tasks and challenges.

Furthermore, by using ultrasonic technology instead of nuclear, the customer will save time and money on obtaining government licenses as well as paying specialist employees for maintenance and calibration.

Application



Results

Fresnillo is currently using the Rhosonics density meter and the client experienced many advantages when using it:

- No recalibration
- No special licenses
- No radiation
- Accuracy
- Real-time and reliable measurements
- Better control of the slurry
- No shielding
- No restricted area
- Operators well-being is warranted
- No special place for wastes

Measurement Accuracy: +-0.1% of the Slurry



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