Abrolhos Steel
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PROJECT:
Underground Mine Ventilation Shaft

Scope of works:
Procure, transport and install a 24m x 4m steel tube into a hole at a remote mine site.Two segments to be joined together and lifted into the hole, backfilling with concrete.

150-tonne crane to lift shaft.


Original work platform, which was not used in construction.

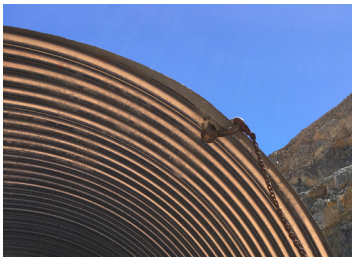

Welding lugs that would be used to suspend the first can.

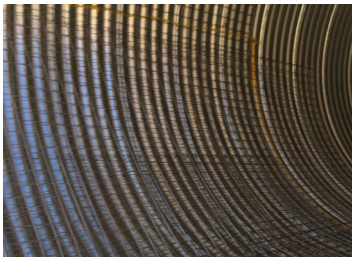

First can being taken from work zone to the pit adjacent to the raise bore.


First lift of single can.


Overview in pit of work site during lift of first can.


Lining up two cans on the ground.


Lifting gear at top of tube.


Welded mesh welded on to inside of tube.


Lifting two tubes using dirt pile as a pivot.


Two tubes standing together, 24m high.


Marking opening to go into drive.


Strap joining the two tubes and ropes attached to position in drive.


Marking doorway to match drive opening.


Cutting the doorway.


Opening cut of vent shaft.


Vent bag attached to enable shot crete at bottom of shaft.


Positioning shaft over hole.


Spotter communicating with crane driver.


Vent shaft in final position and ready for concrete back fill.