

## HydroTesting Pipe Under Road Crossing

**Location: Gold Fields - Western Australia**

**Pipe Details: 200 NB SCH 80, CS, Test Pressure 14295 kPa**

EST Group's GripTight® family of test plugs have proven to save up to 80% of the time spent welding on/cutting off end caps in order to perform pressure testing of pipe spools, piping systems and pressure vessels.

### Application

A customer needed to test open ended pipe to 14295 kPa. They had used GripTight Test Plugs on a previous project where a quick turnaround was crucial and found that the plugs saved them weeks as they eliminated welding on end caps and re-prepping the pipe. In this particular application they needed to pre-test pipes being installed under crossings to ensure they were reliable. The pipes had been fabricated to suit with no green allowance.

Major benefits experienced were:

- Increased number of test packages per day
- No welding on end caps and prepping pipe
- Plugs paid for themselves after the first 8 tests and are reusable

This customer realized the benefits of using GripTight Test Plugs over welded on end caps and has requested plugs for multiple projects from 100 NB to 400 NB (4 inch up to 16 inch NPS).



GripTight Testing 12m lengths prior to being installed under a road crossing

### Installation & Removal Times - GripTight vs. Welded Caps

NPS (DN)	Schedule	GripTight Test Plugs		Welded Caps			Total Labor Hours	Labor Hours Saved with GripTight Test Plugs Per Pipe End
		Personnel Required	Installation & Removal Labor Hours	Personnel Required (Welders & Fitters)	Installation Welding & Prep Time	Removal Cut Time		
10" (DN250)	Std	1 fitter	0.5	1	1.5	0.5	2.0	1.5
	Sch 120	1 fitter	0.5	2	4.0	2.0	12.0	11.5
20" (DN500)	Std	1 fitter	0.5	3	4.0	1.5	15.50	15.0
	Sch 120	1 fitter	0.5	3	8.0	4.0	36.0	35.5
30" (DN750)	Std	1 fitter	0.75	3	5.0	2.0	21.0	20.25
	Sch 120	1 fitter	0.75	3	10.0	8.0	54.0	53.25

### Proven Results

Based on figures in the table, testing two 20" (DN500) Sch 120 pipes and two 30" (DN750) Sch 120 pipes with GripTight Test Plugs save up to 180 labor hours over using welded end caps! Complete your testing 7+ days sooner with GripTight Test Plugs.



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