Monitoring Location	Instrument Type	Monitoring Target (Formation or Other)	Data Collection Location(s)	Explanation
CO_2 Central CO_2 handling	Mass flow meter	Monitor injectate for accounting	SCADA	Mass and density are basic surveillance techniques
	Sampling port	Monitor injectate for accounting	Via lab	Identify unacceptable impurities, CO_2 accounting
Injection Wells 1 & 2	Temperature corrected volume meter	Monitor injectate for each well	SCADA	For input to models
	Wellhead pressure gauge on tubing	Safely and compliance	SCADA	Safely and compliance
	Wellhead pressure gauge on annulus	Safely and compliance	SCADA	Safely and compliance
	Downhole pressure and temperature gauge	Frio	SCADA	For input to models
	Fiber optic DAS and DT	Whole section	Dedicated server, designed as part of VSP array	CO_2 plume tracking, well integrity
In-zone monitoring Well	Well corrosion management program	Prevent corrosion		Prevent corrosion
	Wellhead pressure gauge on tubing	Safely and compliance	SCADA	Safely and compliance
	Downhole pressure and temperature gauge	Frio	SCADA	For input to models
AZMI monitoring Well	Well corrosion management program	Prevent corrosion		Prevent corrosion
	Wellhead pressure gauge on tubing	Safely and compliance	SCADA	Safely and compliance
	Downhole pressure and temperature gauge	Miocene	SCADA	To show no out of zone fluid loss
VSP walk-way source stations	Stable platform for source relocation	Whole section	Dedicated server, designed as part of VSP array	Sources of VSP
Groundwater wells	Relocatable pump and groundwater level monitoring system	Chicot Aquifer	Environmental data storage	Installed system or relocated to each of the wells
Soil and surface water sampling locations	Shallow wells or marked sample points	Near surface water and gas	Environmental data storage	Details designed by at next stage of project development

Table 4.1.4.1-2 Instrumentation Summary