



A Rockwell Automation Company

## El Paso Energy - Colorado Interstate Gas Parachute Compressor CG-4

### The Client:

Colorado Interstate Gas, a part of El Paso Energy is responsible for transporting natural gas across a large portion of the United States.

The Colorado Interstate Gas system is connected to

nearly every major supply basin in the Rocky Mountains as well as production areas in the Texas Panhandle, western Oklahoma, western Kansas, and Wyoming.

### The Requirement:

CIG was adding a fourth compressor, CG-4, at the existing Parachute natural gas compression facility in western Colorado to increase CIG's system capacity. The additional compressor would provide 50 MDthd of new capacity out of the Piceance Basin for existing producers.

The new compression package would consist of a 1,000hp Caterpillar G3516TALE engine driving an Ariel JGT-4 compressor. The new unit would be installed as an add-on to the existing compressor building. It would operate in parallel with the existing compressors CG-2 and CG-3, with common suction and discharge headers. Additionally, a new flow path

would be installed to allow CG-4 discharge to be routed to the discharge of Greasewood CG-1, with CG2 and CG-3 simultaneously discharging to the suction side of Greasewood.

The control system addition at Parachute Compressor Station required the addition of the new unit and updates to the Station HMI SCADA node, new Unit PLC panel to control the new compression package, and a new unit MMI for local monitoring and control in the new compressor building. It also required a new engine and compressor package, and a Caterpillar Air/Fuel Ratio Control Box for the engine.

### The Design Solution:

Hinz was contracted to update the existing Station HMI SCADA node, as well as implementing a new unit control system for CG-4.

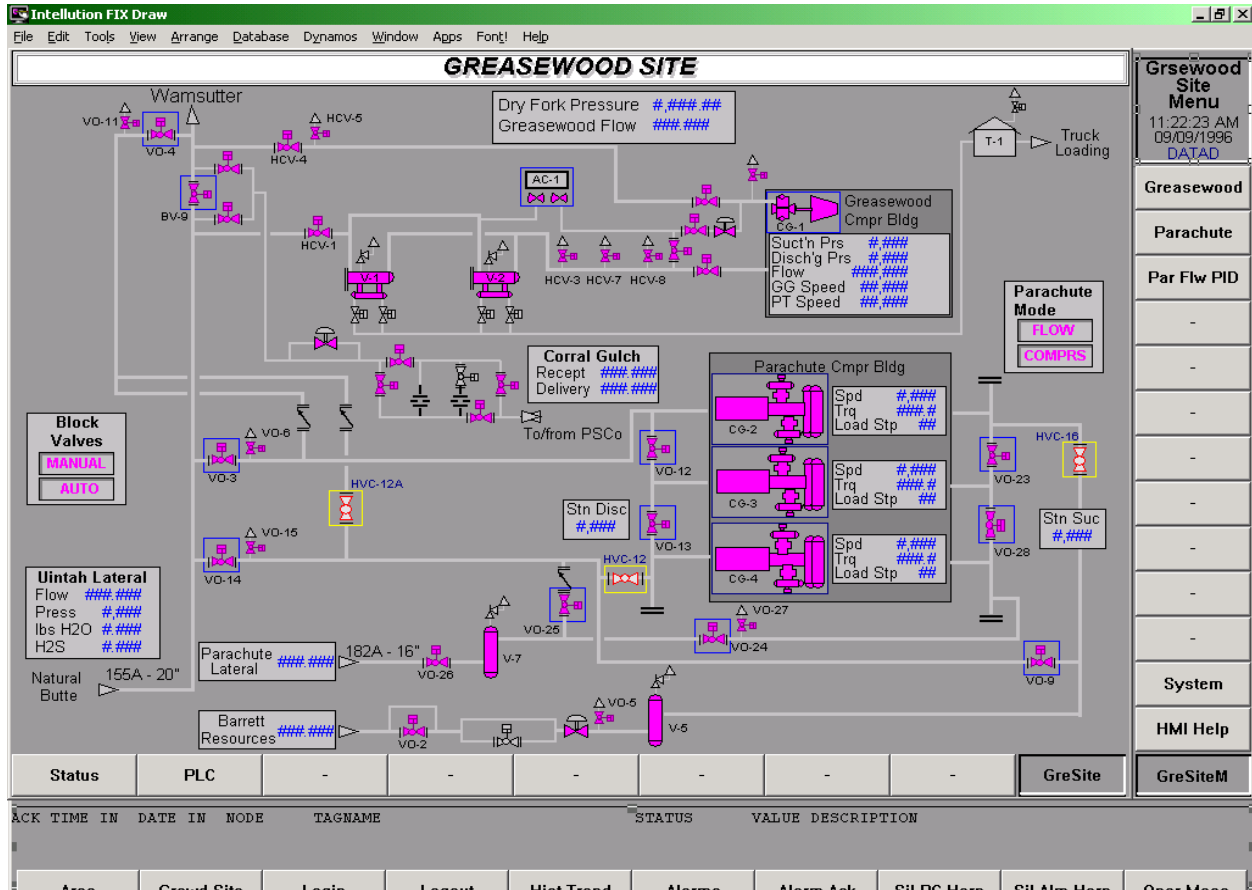
Hinz provided the following software automation services for the Parachute Compressor Station control system:

- Consultation to finalize the control system configuration.
- Software design and program modifications for the Station PLC (fire and gas detection).
- Software design and programming for the Unit PLC.
- System design and configuration for the Station HMI modifications, Intellution FIX32 SCADA software.
- System design and configuration for the new Unit Panel MMI software.
- Assistance to CIG during the site commissioning at the facility.
- Training to the CIG staff.
- Budget and schedule reporting throughout the project.



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### System Specifications:

- Station SCADA node—Intellution FIX32 Version 7.0
- ControlLogix5550 1756-LIM PLC
- 1756 Discrete Input and Output Modules
- 1756 Analog Input and Output Modules
- 1756 RTD Input Modules
- 1794 Flex I/O Discrete Input and Output Modules
- 1794 Flex I/O Analog Input and Output Modules
- 1794 Flex I/O RTD Input Modules
- Prosoft Gas Flow Computer Module
- PanelView OIT
- Rockwell RSLogix 5000 (ControlLogix) Programming software

For further information or to contact a Hinz office near you, please check our website at:

[www.hinz.com](http://www.hinz.com)