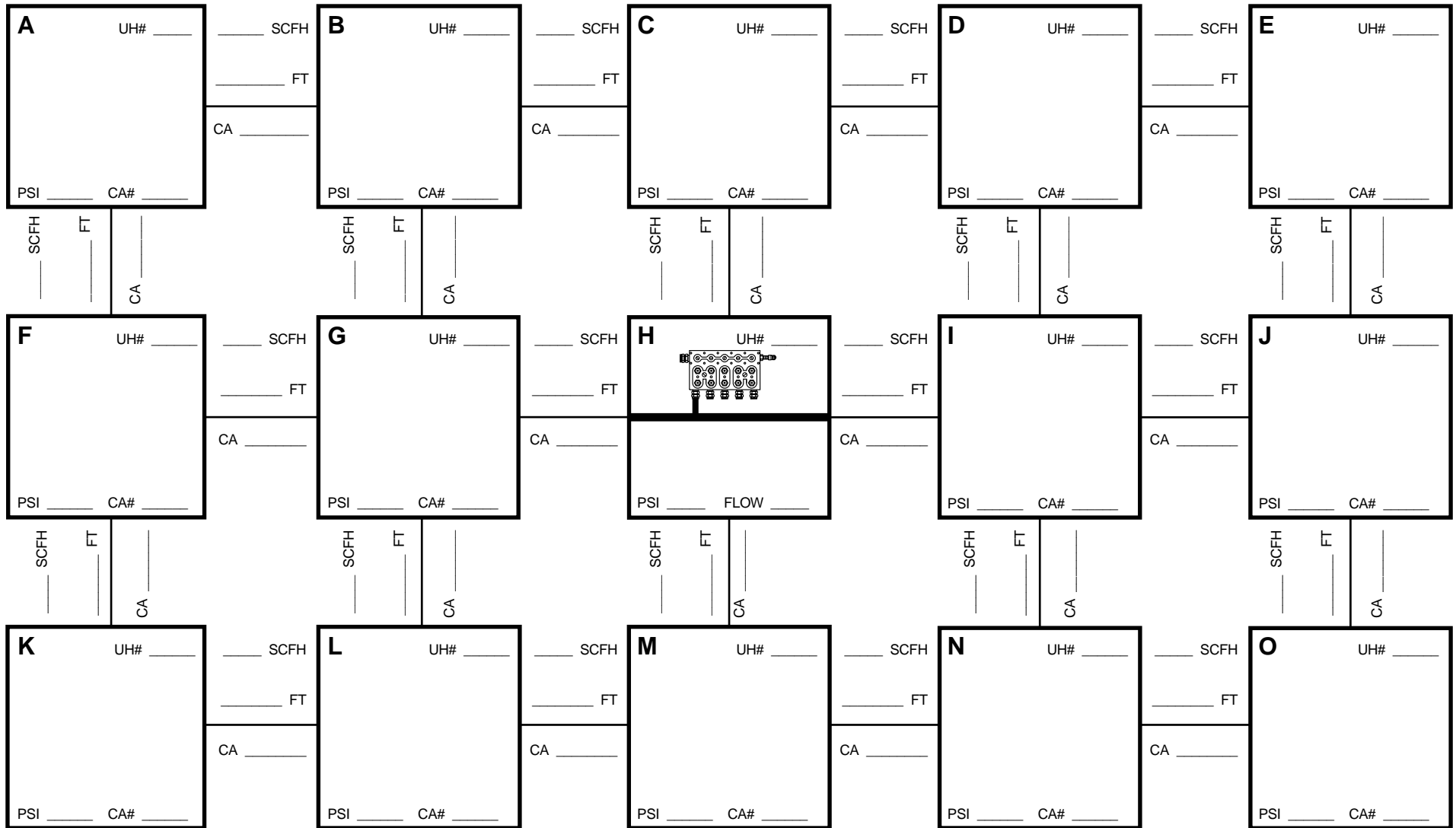


Worksheet B

Chasing Air Flow at a Manifold



Worksheet B

Chasing Air Flow at a Manifold

Procedure:

- Step 1** Take flow (SCFH) and pressure readings (PSI) for cable at manifold utility hole. **Check for cable leaks.** Manifold utility hole on worksheet is designated as Utility Hole H.
- Step 2** If there are two pressure testing valves on the high flowing cable in the manifold utility hole, use the Flow Direction Indicator to determine the direction of the leak. In this situation it is necessary to first turn off flow to the cable at the manifold before connecting the Flow Direction Indicator. **Remember to turn flow back on after taking reading.**
- Step 3** Visit utility hole on either side of manifold utility hole (go toward leak if flow direction is known.) Check for leaks. Calculate air flow between this utility hole and Utility Hole H. If calculated flow is more than 50% of measured air flow at manifold, continue in the same direction. If it is less than 50% and you have determined flow direction (as in Step 2), there is a leak on the cable in the section between this utility hole and the manifold utility hole. If no flow direction reading was taken on the cable at the manifold utility hole and the calculated flow is less than 50%, visit the utility hole on other side of the hole.
- Step 4** Using the calculated flow rate and cable pressure reading, calculate a Zero Leak Projection (ZLP) to determine the area of search. Record the ZLP footage calculation on the worksheet.
- Step 5** Continue chasing flow in the direction of the leak within the ZLP boundary. Calculate and record the flow between each utility hole. A new ZLP should be calculated each time the cable changes pneumatic resistance. Chase calculated flow until the leak is found.
- Step 6** Enter all calculations, footages and cable size on diagram. All Air Flow Calculations and Zero Leak Projections should also be entered on worksheet.

Equipment and Procedures Required:

- | | |
|---|---|
| <input type="checkbox"/> C Pressure Gauge | <input type="checkbox"/> Flow Gauge |
| <input type="checkbox"/> Portable Flow Rater (0-20 SCFH) | <input type="checkbox"/> Flow Direction Indicator |
| <input type="checkbox"/> Ultrasonic Leak Locator or Soap Bucket | <input type="checkbox"/> Calculator |
| <input type="checkbox"/> Pneumatic Resistance Charts | <input type="checkbox"/> Zero Leak Projection |
| <input type="checkbox"/> Air Flow Calculation | |

Review Checklist

Task Number: _____

- Found
 Not Found

Date: _____

Hours Worked: _____

Office: _____

Pipe Route: _____

Name: _____

Cause of Problem:

- Leaking Closure
 Missing Plug
 Leaking Plug
 Leaking Valve
 Section Leak
 Leaking Hardware
 Other _____

