

## Fluid Analysis “Sample Point” Guide

This document is provided to aid the selection of “Sample Point” when submitting a gas, oil, water or hydrocarbon liquid sample analysis. Use of the appropriate “Sample Point” is critical to the proper use and interpretation of this valuable information.

Table 1 shows the nine Sample Points that are available for fluid analysis PAS submissions and their associated codes. The selection was intentionally limited, to shorten the look-up table, and group samples by approximately equivalent conditions at the location of sample points.

Note: Samples that represent a mixture of fluids obtained from multiple wells are considered invalid for the intended use of this database and should not be submitted.

*Table 1: Sample Points available for fluid analysis PAS submissions*

Sample Point	Code
First Stage Separator	20
Second Stage Separator	25
Wellhead	30
Meter Run	35
Pressure Tank	40
Downhole Samples	45
DST	50
Tubing	60
Other (Miscellaneous)	70

Table 2 gives recommendations on selecting a sample point for PAS submissions if the real-world sample point isn’t listed in Table 1. These are recommendations only and if the operator believes a different sample point is more appropriate for the situation, that sample point should be used instead.

Additionally, please note that marking the sample point as “Other” for valid samples is highly discouraged for gas, oil, and hydrocarbon liquids as it highly reduces confidence in the results and may exclude the given fluid analysis sample from being used for safety purposes, production evaluation and reserve calculations.

\*When a PAS sample point of *First/second stage separator* (marked with \*) is recommended in Table 2, first stage separator should be selected if the source/separator pressure is >2,000kPa. If the source/separator pressure is <2,000kPa, select second stage separator.

*Table 2: Sample Point Assumption by Type*

Possible Real World Sample Points	Corresponding PAS Sample Point
1600 Kpag	First/second stage separator*
AC-10	Downhole Samples
Annulus	Wellhead
BHS	tubing
Blooy line	Meter run
Bottom hole sampler 1548	Downhole Samples
Bubble Hose	Wellhead
Bubble Valve	Wellhead
Calculated Recombined Wellstream	Wellhead
canister	Pressure tank
Casing	Wellhead
Casing Valve	Wellhead
CDS Sampler	Downhole sample
Choke Manifold	Meter Run
Condensate Dumpline	First/second stage separator*
Condensate Leg	First/second stage separator*
Data Head Manifold	Meter Run
DEHY SALES	Meter run
Downstream Gas Meter	Meter Run
Downstream of inlet separator	First stage separator
drilling mud	Downhole sample
Dry flow Meter	Meter Run
DST Chamber #305	DST
Duke Sales	Meter Run
Dump leg	First/second stage separator*
Dump off leg separator	First/second stage separator*
Dump Valve	First/second stage separator*
Dumpline	First/second stage separator*
Final Shut In	Wellhead
Flare Line	Meter Run
Flow	Meter Run
Flow line	Meter run
flow prover	Meter run

<b>Flowline Choke</b>	Meter Run
<b>Fluid</b>	Meter Run
<b>Frac Manifold</b>	Meter Run
<b>Fuel gas</b>	Meter Run
<b>Gas Leg</b>	First/second stage separator*
<b>Gas line d/s of control valve</b>	Meter Run
<b>Gas line downstream of orifice plate</b>	Meter Run
<b>GPM Test Unit</b>	First/second stage separator*
<b>Header</b>	Wellhead
<b>High Pressure Separator - Sight Glass</b>	First stage separator
<b>High stage</b>	First stage separator
<b>HP Accumulator</b>	Pressure tank
<b>HP Liquid Separator</b>	First stage separator
<b>Inlet</b>	Meter run
<b>INLET GAS</b>	Meter Run
<b>Inlet Separator</b>	First stage separator
<b>Line Outlet</b>	Meter Run
<b>Liquid line</b>	Meter Run
<b>Low Level Oil Port off Vessel</b>	First/second stage separator*
<b>Main flow</b>	Meter run
<b>Manifold</b>	Meter run
<b>north cache</b>	Pressure tank
<b>Oil box sight glass</b>	First/second stage separator*
<b>Oil dump</b>	First/second stage separator*
<b>Oil tank storage</b>	Pressure Tank
<b>Open casing</b>	Wellhead
<b>Orifice meter</b>	Meter run
<b>Pig</b>	Meter run
<b>Pipeline</b>	Meter run
<b>Preflow</b>	Meter Run
<b>Pressure Vessel Sight glass</b>	Pressure Tank
<b>Produced water tank</b>	Pressure Tank
<b>Production tank</b>	Pressure Tank
<b>P-Tank Condensate Dumpline</b>	First/second stage separator*
<b>P-tank manifold</b>	Pressure tank
<b>P-tank Separator</b>	First/second Stage Separator

<b>P-tank sight glass</b>	Pressure tank
<b>pumpjack</b>	Wellhead
<b>Raw gas</b>	First/second stage separator*
<b>Recombined Reservoir Fluid</b>	Wellhead
<b>RFS AC - 1061</b>	Downhole Samples
<b>RFS BC - 1149</b>	Downhole Samples
<b>RFT Chamber # RFS BC-1263</b>	Downhole Samples
<b>RFT Tool</b>	Downhole Samples
<b>Rig Riser</b>	Downhole sample
<b>RP_1005_SQ</b>	First/second stage separator*
<b>Sales line</b>	Meter run
<b>Sales meter</b>	Meter run
<b>Sales To WGS</b>	Meter Run
<b>Sell meter</b>	Meter Run
<b>Separator</b>	First/second stage separator*
<b>Separator Gas</b>	First/second stage separator*
<b>Separator inlet</b>	First/second stage separator*
<b>Separator Meter run</b>	First/second stage separator*
<b>Separator oil dump</b>	First/second stage separator*
<b>Sight glass</b>	First/second stage separator*
<b>Solution GAS</b>	First/second stage separator*
<b>Stock condensate</b>	Pressure tank
<b>Stock oil</b>	Pressure tank
<b>Stock tank</b>	Pressure tank
<b>Stock water</b>	Pressure tank
<b>Suction</b>	Meter run
<b>Surface</b>	Wellhead
<b>SURFACE Gas Final Flow</b>	First/second stage separator*
<b>Surface Manifold</b>	Meter Run
<b>Surface Preflow</b>	Wellhead
<b>Swab #1</b>	Downhole sample
<b>TAQA UNIT</b>	First/second stage separator*
<b>Test line</b>	Meter run
<b>Test manifold</b>	Meter run
<b>Test separator</b>	First/second stage separator*
<b>Test Separator Meter Run</b>	Meter run
<b>Test vessel</b>	First/second stage separator*
<b>Test vessel ATMOS condensate</b>	First/second stage separator*



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<b>Test Vessel Meter run</b>	First/second stage separator*
<b>Tester</b>	Meter Run
<b>TOWER</b>	1st/2nd separator
<b>Tubing</b>	Tubing
<b>Upstream</b>	Meter run
<b>V.O</b>	Meter Run
<b>Water Leg</b>	First/second stage separator*
<b>Wellhead Casing</b>	Wellhead
<b>Wellhead Casing valve</b>	Wellhead