

Get Started with Zedi Analytics

Key Benefits

- Quickly address problems as they emerge or identify underperforming areas of production.
- Reduce time gathering information with a tool that presents the most meaningful and useful production data for Operators, Production Accountants, Engineers, and Measurement personnel.
- Improve business decisions by having accurate information immediately through interactive views built for your specific role.

Previous View

The screenshot shows the Zedi Analytics interface with the following data:

Well ID	Device Type	Gas Flow Rate	Emulsion Rate	Static Pressure	Differential Pressure	Flowing Temperature
02-32	Zed-PAC (Online)	65.43 E3M3/Day	0 m3/Day	535.97 kPa	16.48 kPa	14.72 °C
02-32	Zed-PAC (Online)	0 E3M3/Day	508.25 kPa	-15 kPa	20.21 °C	

Sensors			
Accumulated Hours On	2105.26 hrs	Accumulated Volume	297.81 E3M3
Hours on Flow (Month)	312.75 hrs	Orifice Diameter	12.7 mm
Y-day Hours on Flow	12.3 hrs	Y-day Hours on Flow (Month)	447.85 hrs
Volume	.04 E3M3	Y-day Volume	.33 E3M3

Enhanced View

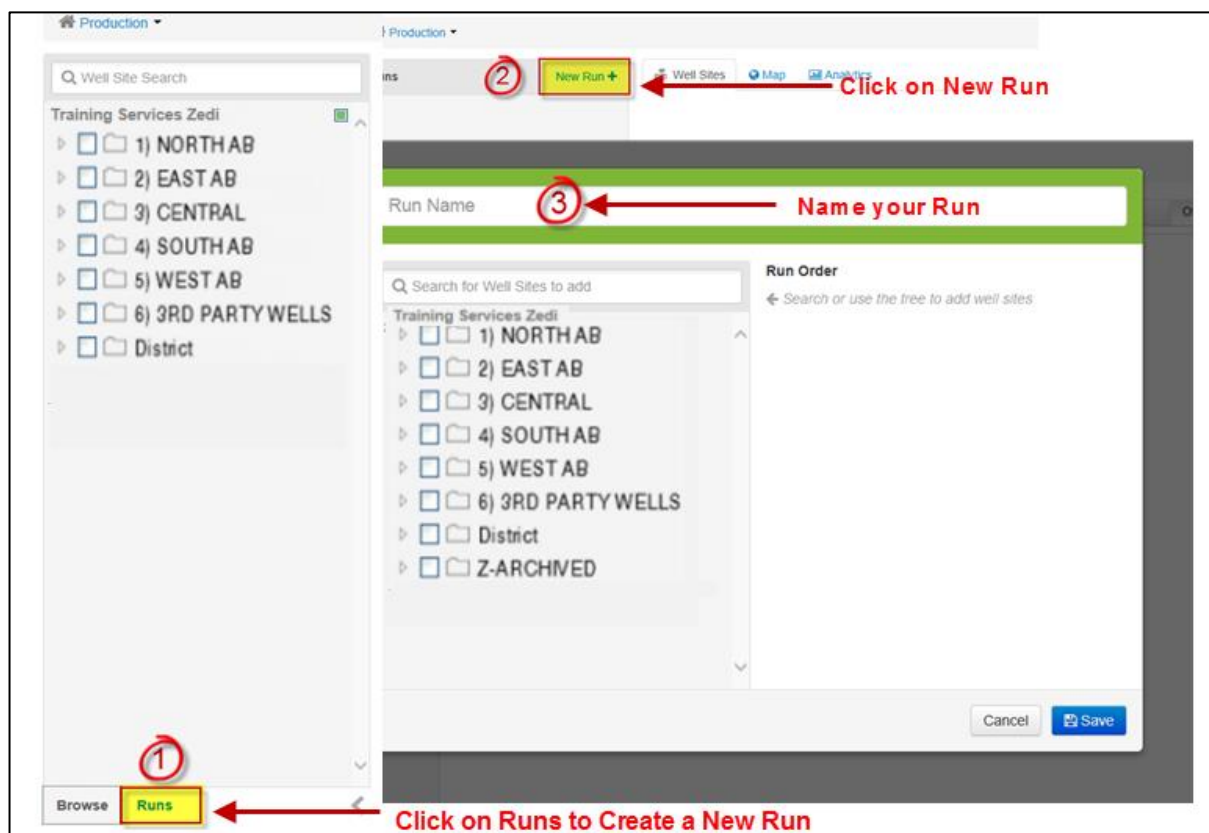
The screenshot shows the Zedi Analytics interface with the following data:

Well ID	Device Type	Gas Flow Rate	Static Pressure	Differential Pressure	Flowing Temperature
01-20	Zedi SCADA (Online)	0 E3M3/Day	179.73 kPa	0 kPa	22.13 °C
01-20	Zedi SCADA (Online)	6.54 E3M3/Day	4603.3 kPa	7.77 kPa	22.1 °C

Understanding Runs/Routes

In addition to the new navigation of Zedi Access a run order with browse functionality has been added below the hierarchy well tree. Runs will allow the individual user to create a customized hierarchy of wells they wish to see/view based on their work flows.

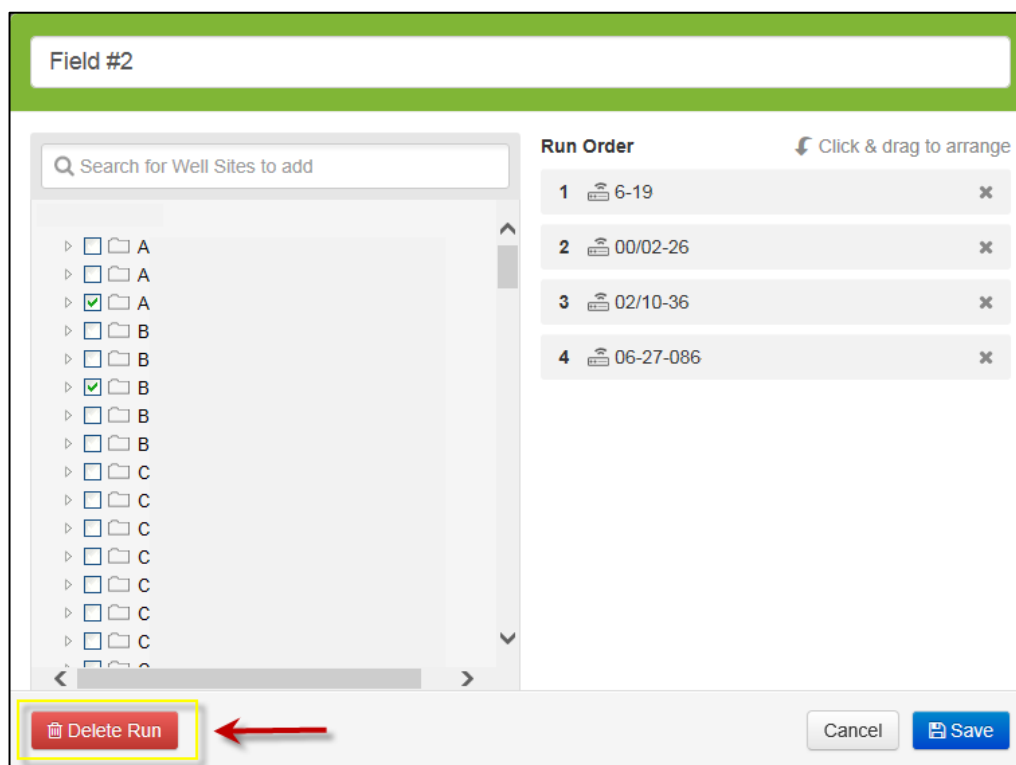
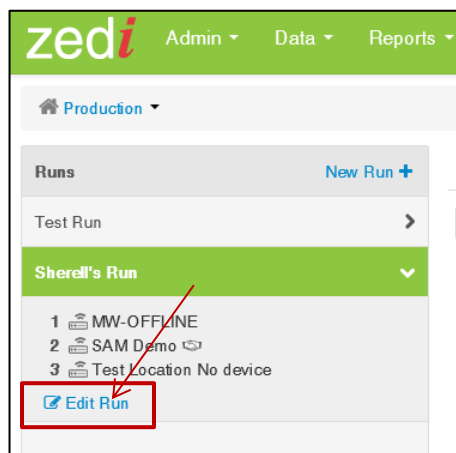
The runs **DO NOT** in any way impact the main hierarchy well tree, keeping it in tact for the use of the company's needs. The user can also add as many runs as desirable and name them accordingly to their preference.



The browse feature allows you to switch back from the runs view to the hierarchy Well Tree view. Runs are also integrated with our Analytics, so when you are in your specific run (selected well sites) the dashboard you select will be based just on these well sites.

Deleting Runs/Routes

To Delete a Run/Route simply click on the Edit run/route. Click Delete run.



Understanding your Operator Dashboard

For operators we have built 24 hour production or QTR (Quantity Transaction Record) summary graphs and alarm events based on locations selected to quickly address and reduce downtime. Within QTR graphs, you have access to cumulative volume trends and flow measurement allowing you to quickly address problems as they emerge or identify underperforming areas of production.

QTR Summary

Name	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13
Gas Volume (E3M3)	3.03	3.00	3.17	2.94	3.19
Condensate Volume (m3)	0.00	0.00	0.00	0.00	0.00
Oil Volume (m3)					
Emulsion Volume (m3)					
Water Volume (m3)	0.09	0.00	0.00	0.15	0.06
Static Pressure (kPa)	609.55	657.03	617.91	547.77	550.17
Differential Pressure (kPa)	1.39	1.22	1.20	1.62	1.42
Flowing Temperature (°C)	9.88	12.50	10.50	9.65	10.32
Hours on Flow	12.06	12.03	12.76	11.20	12.39
Casing Pressure (kPa)					
Tubing Pressure (kPa)	731.57	794.87	733.07	709.38	665.91
Gas Volume (E3M3)	3.68	3.41	3.54	3.40	3.31
Condensate Volume (m3)	0.12	0.09	0.11	0.11	0.10
Oil Volume (m3)					
Emulsion Volume (m3)					
Water Volume (m3)	0.36	0.27	0.36	0.36	0.34
Static Pressure (kPa)	685.97	714.51	654.38	652.70	656.00
Differential Pressure (kPa)	2.70	2.47	2.59	2.78	2.81
Flowing Temperature (°C)	7.66	9.90	7.74	6.89	7.40
Hours on Flow	7.08	6.89	7.24	6.68	6.50
Casing Pressure (kPa)	965.32	987.67	974.28	956.23	957.93
Tubing Pressure (kPa)	884.49	902.50	861.23	856.57	862.66

Also purpose built for operators is a dashboard based on current alarm and alarm history. This dashboard contains an alarm summary table and history of alarms where you can view past trends to help identify and mitigate potential future problems. This dashboard gives you a quick color coded visual of each group of alarms.

Current Alarms – A breakdown of all alarms from High, Low, Low Low & Other.

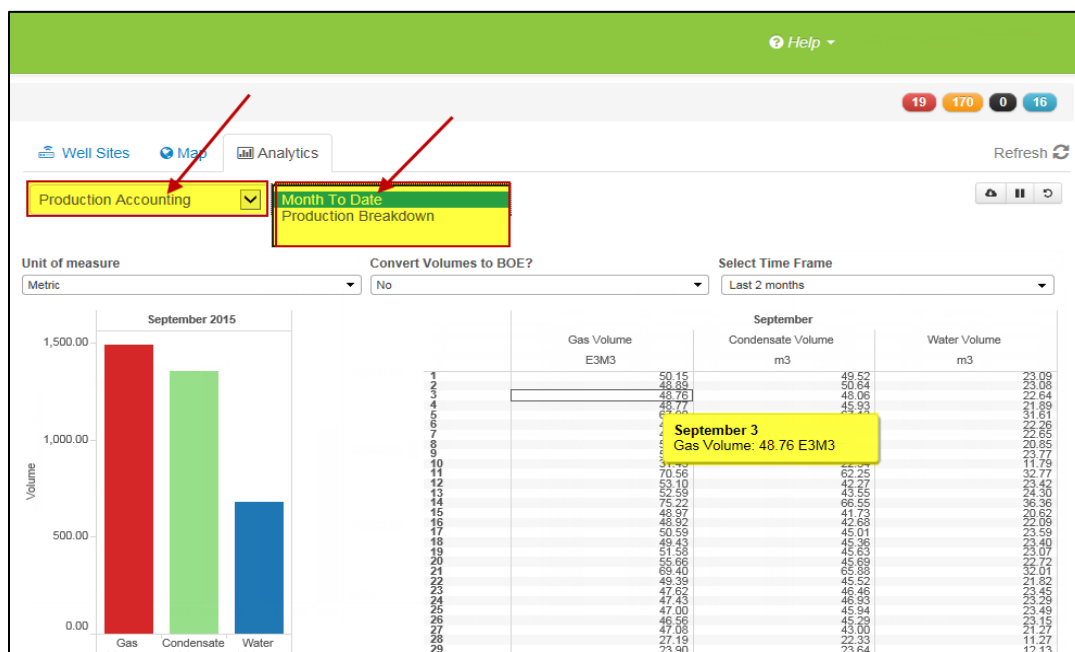
Name	Alarm Type	Sensor	Units	Value	Set Point
1-10 HZ	Low	Gas Flow Rate	E3M3/Day	0.00	0.00
4-08-	Low Low	Gas Flow Rate	E3M3/Day	4.68	0.00
4-11	Low	Gas Flow Rate	E3M3/Day	0.00	0.00
8-34	High	ESD	-	1.00	1.00
		Site Alarm	-	1.00	1.00
00/03-30	Low	Flowing Temperature	°C	1.97	2.00
00/04-15	Low	Gas Flow Rate	E3M3/Day	0.00	0.00
00/05-14	Low	Gas Flow Rate	E3M3/Day	0.73	1.42
00/07-25	High	Casing Vent Pressure	kPa	4,980.17	500.00
00/07-36	High	Static Pressure	psi	21.22	18.85
00/08-10	High	Voltage	V	9.00	8.50
00/08-11	Low	Gas Flow Rate	E3M3/Day	9.00	9.00
00/08-21	Low	Gas Flow Rate	E3M3/Day	0.00	0.00
00/08-32	Low	Flowing Temperature	°C	1.96	2.00
00/12-35	Low	Gas Flow Rate	E3M3/Day	0.00	4.00
00/14-17	Low	Gas Flow Rate	E3M3/Day	8.98	10.00

Name	Sensor	Alarm Type	2014			2015								
			Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
11-11-38	Differential Pressure	Low	2											
	Gas Flow Rate	Low	10	3	4	10	2	7	3	1	2	1	1	
	Static Pressure	High	14	4	3	7	3	6	1	1	1	1	1	
11-03-39	Gas Flow Rate	Low	22	1	2	2	1	3	1	1	3	2	3	3
	Static Pressure	High	6	1	1	2	1	2	1	1	1	2	4	9
		Low				3		2				1		

Understanding your Production Accounting Dashboard

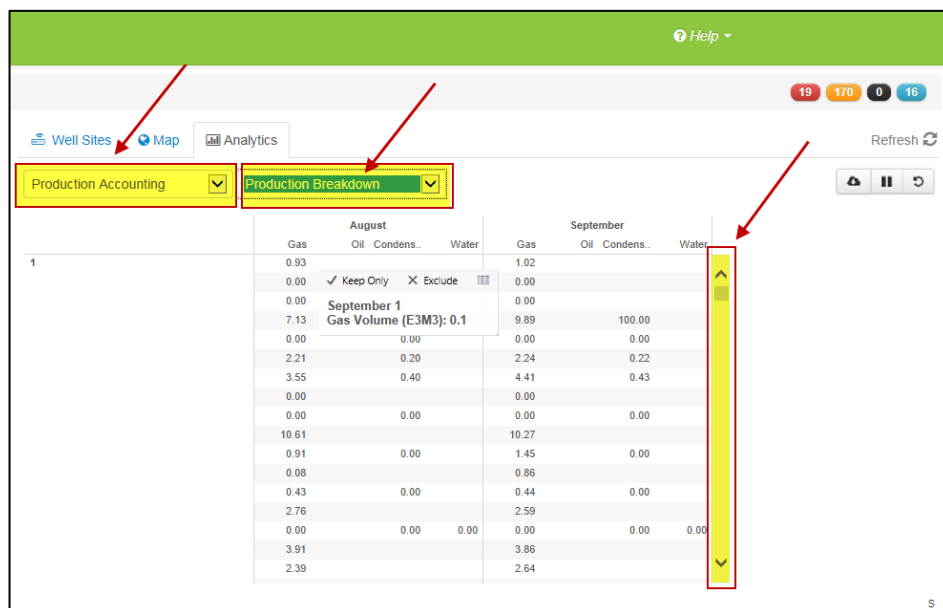
For Production Accounts we have two dashboards that provide monthly views of production data. The first dashboard generates a month to date production dashboard for you to easily identify anomalies in production data numbers from previous months.

Month to Date – Running totals in tabular format for whatever wells selected from the Well Tree Hierarchy.



Our second production accountant dashboard, the production breakdown dashboard, provides pre built easy-to-understand graphs and charts to access your production data faster and to help you trend and solve problems quicker.

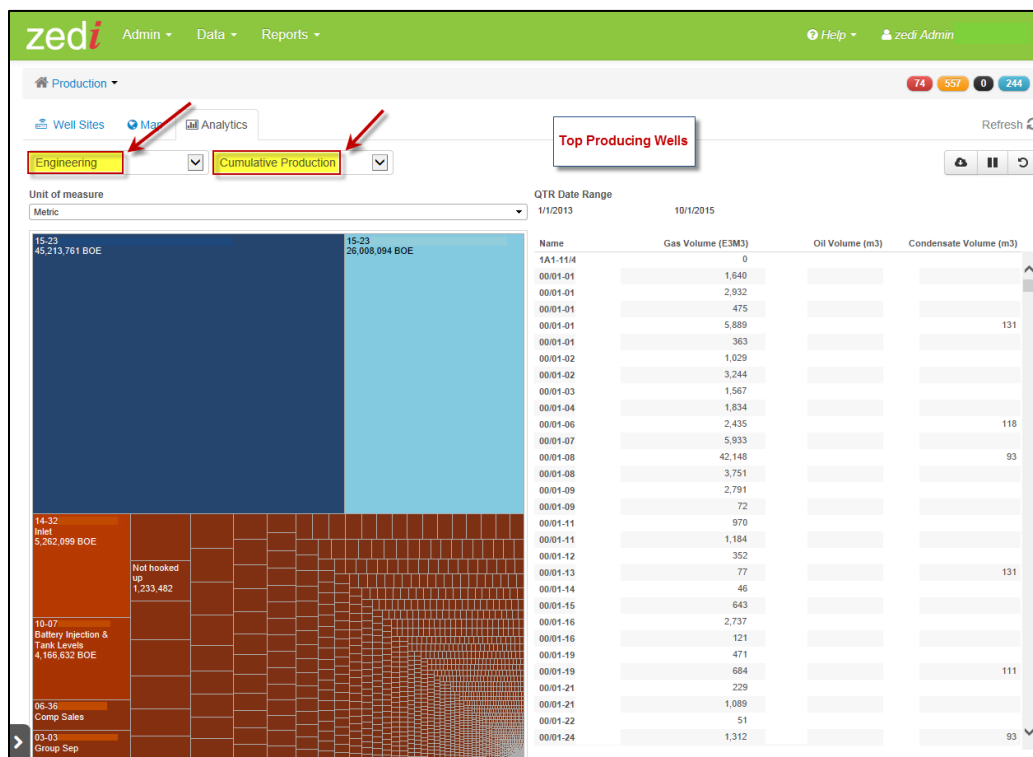
Production Breakdown – Breakdown of how each well is producing by month.



Understanding your Engineering Dashboard

For engineers a cumulative production and volume trend provide a running total of production and allows you to see how a single well or group of wells are performing. Historical well performance trends allow for forecasting future performance and easily identifying top producing wells.

Cumulative Production – Top 10 wells and performance based on BOE



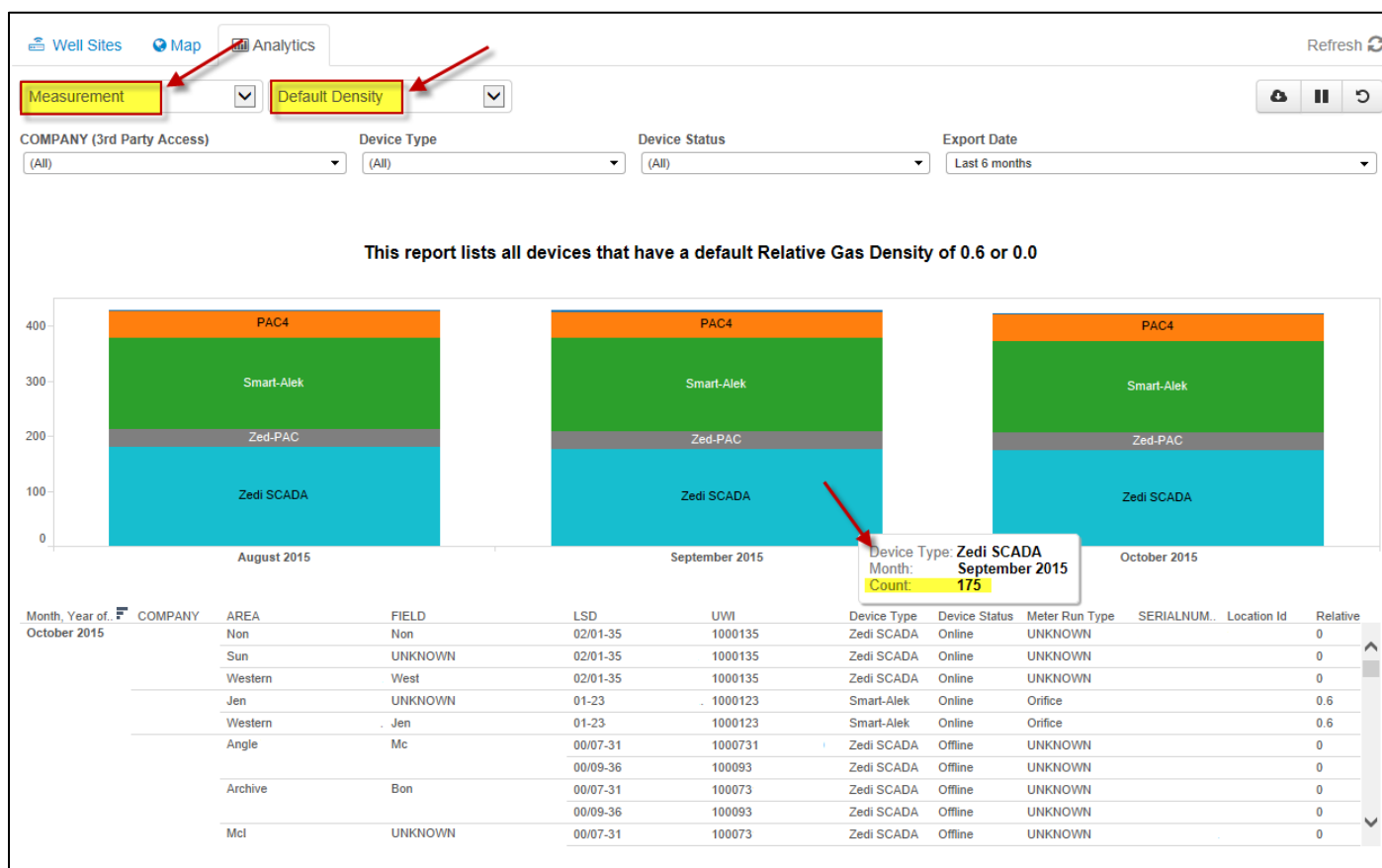
Volume Trend – Life of the well and volume for the last 2 years to current.



Understanding your Measurement Dashboard

The Measurement dashboards are health and safety checks to manage parameters of the well more efficiently and to remain compliant with local and federal regulations and policies. There are 5 dashboards that all provide a picture of each meter’s atmospheric pressure, Primary Element, Base Temp and Pressure, Line Size and Default Density.

Default Density – Ensure your pressure is accurate with built in gas density reports.



Atmospheric Pressure (Patm) Out of Range – Review your atmospheric pressure reports for devices in the Well Tree.

