

# Leucipa™ automated field production

Chemical management and surveillance

Date

# Leucipa chemicals optimizer

## How does Leucipa optimize chemical programs?

A vendor agnostic chemical service that drives real-time increased equipment reliability and lower cost of treatment, for both downhole and surface equipment

### Increased production:

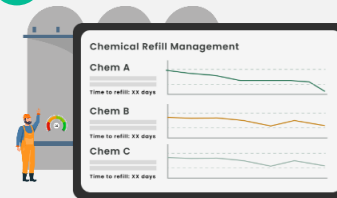
- Change fluid properties to drive maximum production rate
- Reduced downtime though increased equipment life

### Decreased cost on artificial lift:

- Optimal chemical cost
- Maximize equipment run life
- Reduced number of rig work interventions
- Decreased daily engineering and operator support required

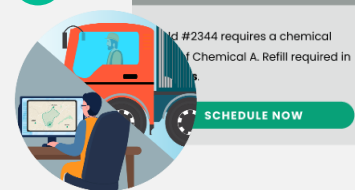
## Key Features

1



**Transparent real-time chemical treating rates** through data visualization of real time chemical treatment usage at unique treatment points downhole and at surface, incl. visual data observations

2



**Field data capture and delivery management** to ensure treatment chemicals are always on site through real time tank level monitoring and optimized replenishment

3



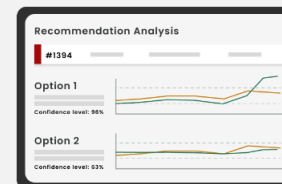
**Automated reporting** that informs managers and operators of fluid analysis results, chemical treating changes and up to date cost tracking

4



**Embedding OFS experience within the digital tool** to automate insights for the customer

5



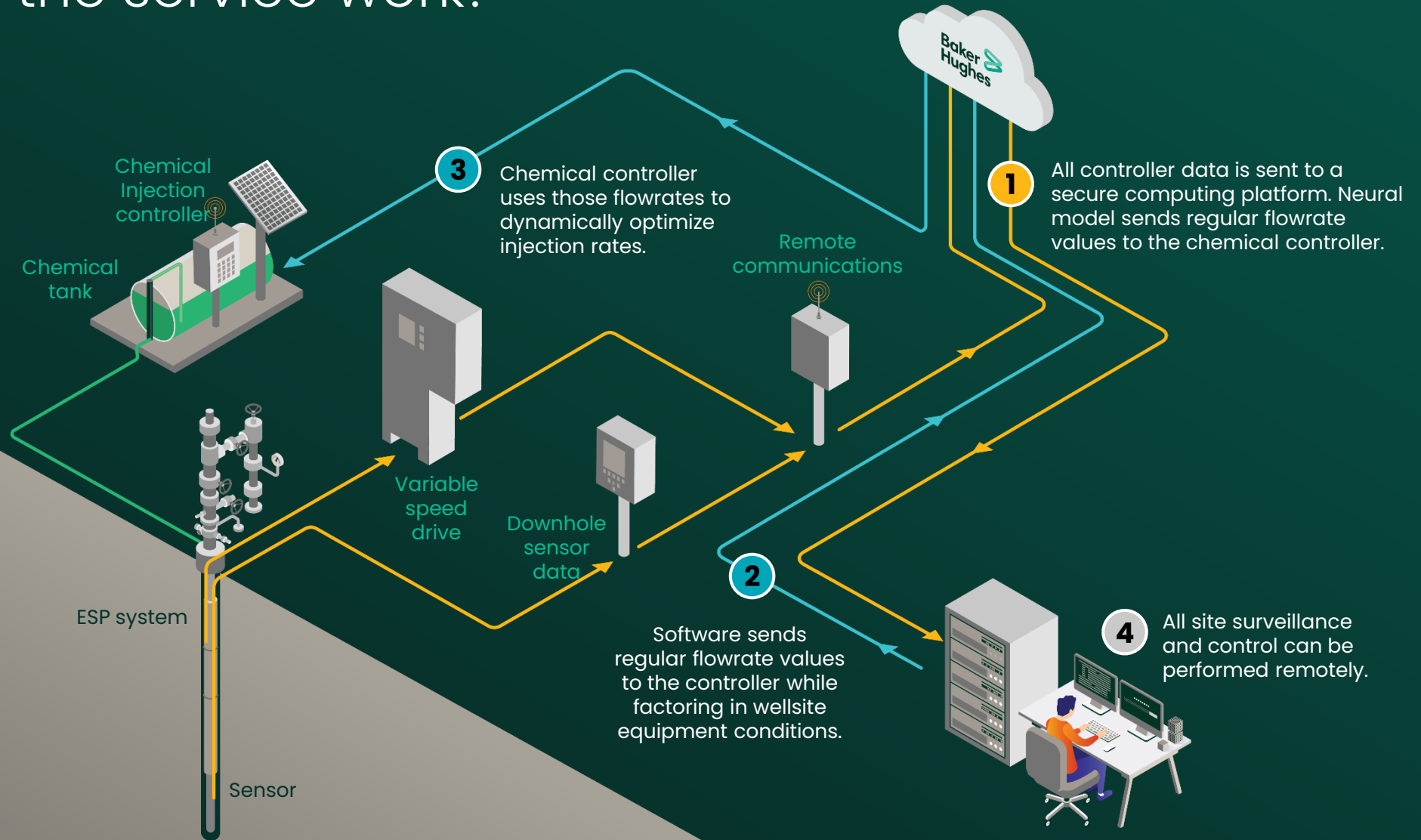
**Automated chemical treating recommendations** based on latest fluid analysis to optimize production rate and assure equipment is protected

6



**Vendor neutral service where customers own the data**, and can connect their own data sources, workflows, and optimizers. Delivered as a SaaS or self-hosted on-prem.

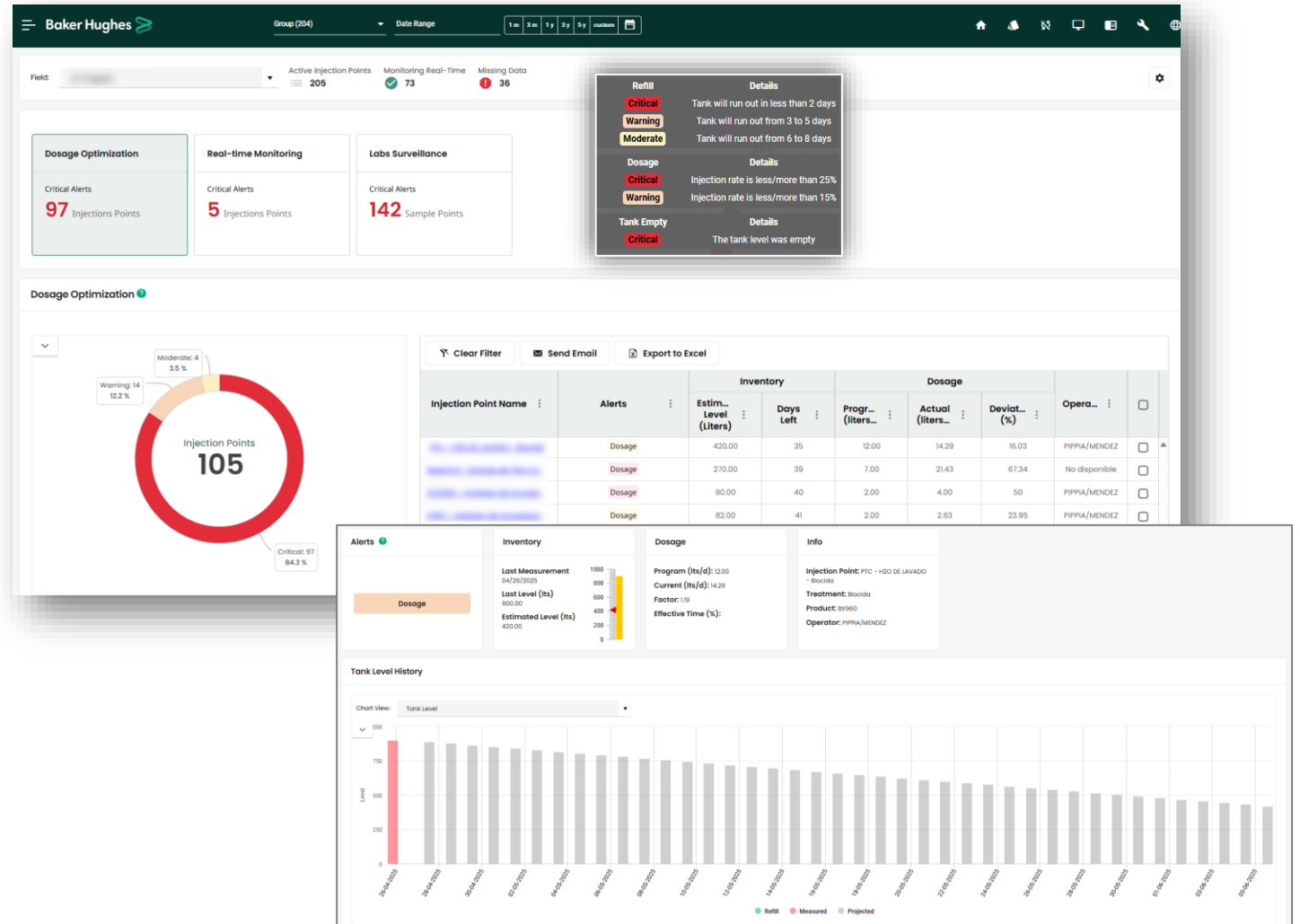
# How does the service work?



# Chemical management | Dashboard

## Leucipa Pilot outcomes:

- **KPI Monitoring:** Established key performance indicators to track tank refill needs, dosage adjustments, and critical level alerts
- **Tank level forecasting:** Implemented forecasting tools to analyze consumption trends and assess system performance
- **Real-time data integration:** Successfully integrated live data from a third-party provider to enhance monitoring and responsiveness



# Chemical treatment and dosage

Treatment Plan & Dosage

Source:

Treatment Plan

Dosage

+ Add New

Refresh

Export

Injection Point	Act...	Update Date	Formation	Application Type	Treatment Status	Status	Adjusted Dosage (ppm)	Applied Dosage (ppm)	Recomm... Theoretic... Dosage (ppm)	Adjusted Theoretic... Dosage (ppm)
		22/05/2025	NOC	Continua	SI	ACT		45.4		
		22/05/2025	NOC	Continua	SI	ACT		50.0		
		22/05/2025	Convencional	Continua	NO	ACT		10.7		
		22/05/2025	NOC	Continua	SI				5,000.0	
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						
		22/05/2025	NOC	Continua						

Treatment Plan (Edit)

General

Dosage

Injection

Detail

Date

22/05/2025

Injection Point

Formation

NOC

Application Type

Continua

Treatment Status

SI

Status

ACT

Save

Cancel

Dosage (Edit)

General

Levels

Pump

Dosage

Detail

Previous Level (Its)

700.00

Initial Level (Its)

680.00

Fill Level (Its)

0.00

Final Level (Its)

680.00

Capacity (Its)

1,000.00

Estimated Dosage (Its/d)

5.00

Instant Dosage (Its)

5.00

Dosage per Level Diff. (Its/d)

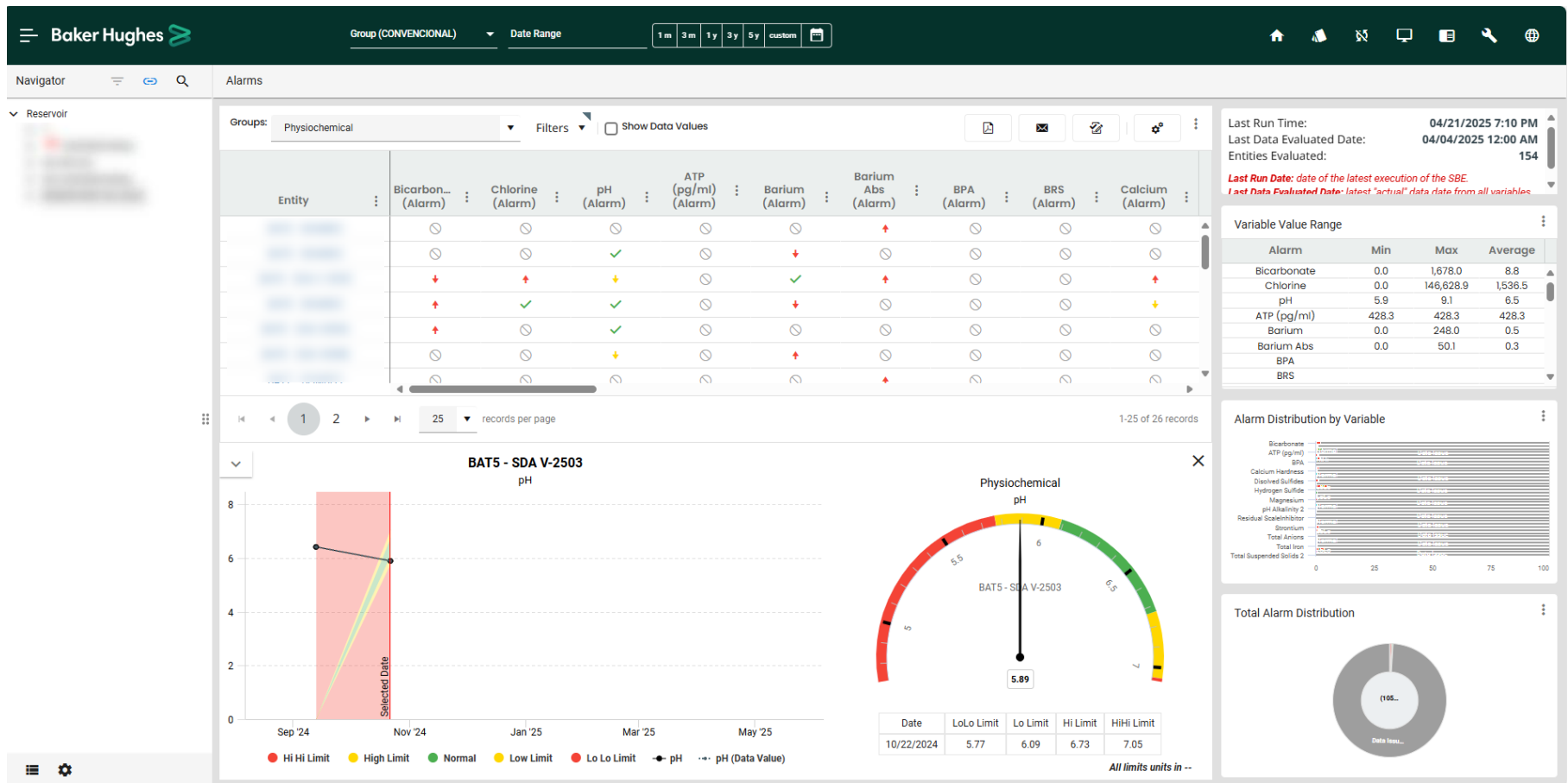
6.67

Save

Cancel

- Provides intuitive interfaces to configure and manage chemical treatment plans and dosage levels at specific injection points
- Minimizes input errors while streamlining data validation and processing, resulting in improved data quality and operational efficiency

# Surveillance by Exception (SBE)



- Supports the identification of events, trends, outliers, and other exceptions in physicochemical lab analyses that indicate abnormal or unexpected conditions
- Provides an “at-a-glance” dashboard that displays the frequency and types of alerts by sample point group, along with historical trend data
- Enables users to configure business rules that define alert conditions at any available filter level

**Baker Hughes** 