

KYANITE PRO

Web Console User Manual

Edition 1.0 · October 2026

app.kyanitepro.com



Web Console User Manual

The Kyanite Engineering Console at app.kyanitepro.com — calculators, wells, crew sheets, reports and Ultra on a big screen.

Edition 1.0 · October 2026

Covers the web console as of 15 October 2026

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kyanitepro.com · app.kyanitepro.com

Engineering aid. The web console is a calculation and reference aid. Every result must be independently verified by qualified personnel before it supports an operational decision. Well control decisions follow your company's well control program and the person in charge on location.

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Part I — Getting started

1 About the web console

The **Kyanite Engineering Console** is the desktop version of Kyanite Pro. It runs in any modern browser — Chrome, Edge, Safari or Firefox — on a laptop, a desktop in the doghouse or the company man's office, or a tablet. Nothing needs to be installed.

It is built for a big screen and a keyboard: a calculator's inputs, its live result and its equation sit side by side; reports preview at full page size before you print them; crew sheets show every column at once.

What it does

- **All 133 calculators**, running the same equations as the iPhone app, checked line by line against the app's own test cases so the same inputs give the same answer.
- **Wells** with status, hole sections and casing, which fill calculators for you.
- **Saved calculations** with the exact inputs, equation and results.
- **Crew work** — gain / loss sheets, location volumes and tanks, chemical inventory, notes, kill sheets, cement jobs, crew wells, the roster and the activity feed — live with every phone on the crew.
- **Reports and PDFs** for tanks, inventory, gain / loss, kill sheets, cement jobs, notes, wells and saved calculations, with CSV exports.
- **Kyanite Ultra** — DrillIQ, MudIQ and the Live Rig dashboard — for Ultra subscribers.

Where it is

ADDRESS	NOTES
app.kyanitepro.com	The main address.
kyanite-console.rork.app	The same console on its original address; either works.
kyanitepro.com	The Kyanite Pro website, with a link into the console.

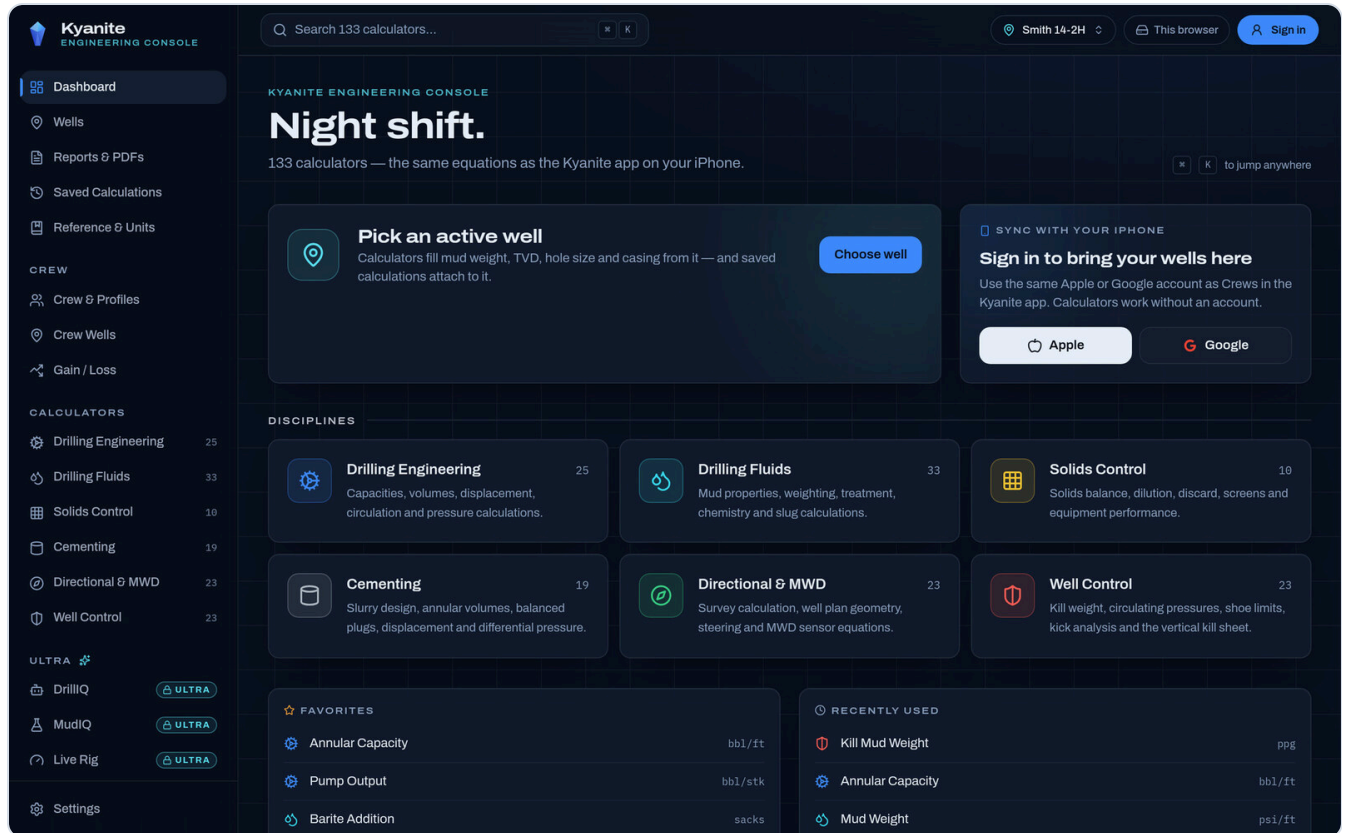
Engineering aid only. Every result must be verified against your company's procedures, the well program and equipment data before it is used operationally. The console shows each calculator's equation, assumptions and verification status so you can check it.

Conventions in this manual

- **Bold** words are labels exactly as they appear on screen.
- **Sidebar** → **Wells** means: click **Wells** in the left sidebar.
- A blank or — value means *not entered*. Kyanite never treats an empty box as zero.

2 Opening the console and signing in

Open **app.kyanitepro.com**. The **Dashboard** loads straight away — you do not need an account to use the calculators, reference tables or the well editor.



The Dashboard, signed out with a sample well

Do I need to sign in?

WITHOUT SIGNING IN	AFTER SIGNING IN
All 133 calculators	Everything on the left, plus...
Reference & Units	Wells and saved calculations sync with your iPhone
Wells and saved calculations, kept in this browser only	Crew features: gain / loss, volumes, inventory, notes, sheets, roster
Settings	Reports & PDFs
	Your Kyanite Ultra plan and question balance (DrillIQ, MudIQ, Live Rig)

Signing in

1. Click **Sign in** (top right) or one of the **Apple / Google** buttons on any **Sign in to bring your wells here** card.

2. Choose the **same Apple or Google account you use in the iPhone app** under **Settings → Group Access**. That is what links your phone and the web.
3. You come back to the console signed in. The sync pill in the top bar changes from **This browser** to **Up to date** once your records have arrived.

Anything you made before signing in is kept. Wells and saved calculations you created in this browser while signed out are adopted into your account the first time you sign in, and sent to your iPhone.

Use the same sign-in method on both devices. "Sign in with Apple" and "Sign in with Google" are separate Kyanite accounts, even if the email is the same. If your iPhone records do not appear, check which one you used on the phone.

Signing out

Open the account menu (your name, top right) and choose **Sign out**. Your records stay in your account and on your phone; the browser simply stops showing them.

3 Finding your way around

The console has three fixed parts: the **sidebar** on the left, the **top bar**, and the **workspace** in the middle.

The sidebar

GROUP	ITEMS
(top)	Dashboard, Wells, Reports & PDFs, Saved Calculations, Reference & Units
Crew	Crew & Profiles, Crew Wells, Gain / Loss
Calculators	Drilling Engineering (25), Drilling Fluids (33), Solids Control (10), Cementing (19), Directional & MWD (23), Well Control (23)
Ultra	DrillIQ, MudIQ, Live Rig — marked with an ULTRA badge
(bottom)	Settings

On a tablet or narrow window the sidebar folds away; open it with the menu button at the top left.

The top bar

- **Search 133 calculators...** — opens the command palette (see chapter 24). Shortcut **⌘K** on a Mac, **Ctrl+K** on Windows.
- **Well switcher** — shows the active well (or **No active well**). Click it to choose another well or **Clear active well**.
- **Sync pill** — where your records are: **This browser** (signed out), **Up to date**, **Syncing**, offline, or a problem that is being retried. Hover it for details.
- **Sign in** / your account menu.

The Dashboard

- A greeting that follows the clock — *Good morning, Good afternoon, Good evening* or *Night shift*.
- **Active well card** — name, operator, **Current MD**, **Current TVD**, **Mud Weight** and **Active System**, with a link to the well. With no well it offers **Set up your first well** or **Pick an active well**.
- **Disciplines** — the six calculator modules with their counts.
- **Favorites** — calculators you have starred. **Recently used** — the last ones you opened.
- **AI engineers on call** — DrillIQ, MudIQ and Live Rig, with your remaining questions (**IQ Qs**).

Calculator modules

Click a discipline (on the Dashboard or in the sidebar) to see its calculators grouped by topic — for example *Capacity*, *Volume* and *Displacement* under Drilling Engineering. Each card shows the result unit and the verification status. **Filter** at the top right narrows the list as you type.

Kyanite

ENGINEERING CONSOLE

Dashboard

Wells

Reports & PDFs

Saved Calculations

Reference & Units

CREW

Crew & Profiles

Crew Wells

Gain / Loss

CALCULATORS

Drilling Engineering25

Drilling Fluids33

Solids Control10

Cementing19

Directional & MWD23

Well Control23

ULTRA

DrillIQULTRA

MudIQULTRA

Live RigULTRA

Settings

Q

Search 133 calculators...

X

K

Smith 14-2H

This browser

Sign In

25 CALCULATORS

⚙️

Drilling Engineering

Capacities, volumes, displacement, circulation and pressure calculations.

Q

Filter drilling...

CAPACITY

3

★ Annular Capacity

bb1/ft

Capacity per foot of the annular space between the hole (or casing ID) and the pipe OD.

VERIFIED

>

Pipe Capacity

bb1/ft

Internal capacity per foot of drill pipe, tubing or casing.

VERIFIED

>

Hole Capacity

bb1/ft

Open hole capacity per foot for a given bit or hole diameter.

VERIFIED

>

VOLUME

4

Annular Volume

bb1

Total annular volume over a measured length of hole.

VERIFIED

>

Pipe Volume

bb1

Internal volume of a length of pipe, tubing or casing.

VERIFIED

>

Hole Volume

bb1

Total open hole volume over a measured interval.

VERIFIED

>

Total Well Volume

bb1

String volume plus annular volume — the full circulating path in the well.

VERIFIED

>

DISPLACEMENT

3

Drill Pipe Displacement

bb1

Steel displacement of drill pipe — the mud displaced when running pipe in the hole.

VERIFIED

>

Drill Collar Displacement

bb1

Steel displacement of drill collars or heavy weight drill pipe.

VERIFIED

>

Total String Displacement

bb1

Combined steel displacement of the drill pipe and BHA sections.

VERIFIED

>

A calculator module

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4 Sync with your iPhone

When you are signed in with the same account on both, these records are the same on the phone and the web:

RECORD	DIRECTION	HOW FAST
Wells (status, details, hole sections, casing)	Both ways	Web: within seconds. iPhone: on save and about every 15 seconds while open.
Saved calculations	Both ways	As above.
Crew records — gain / loss, tanks and gauges, tank groups, inventory, notes, kill sheets, cement jobs, crew wells, profiles	Everyone on the crew	Live, usually within a second or two.
Ultra plan and question balance	From your account	Checked when you sign in and when you open an Ultra page.

Working offline

Every edit lands in the browser first, so a dropped connection never loses work. The sync pill shows **Edits are saved here and sync when you're back online**; when the connection returns, the console sends what changed.

When two people edit the same thing

The newest edit wins, record by record. A device that was offline for a day cannot overwrite a newer change made elsewhere — the cloud refuses the older edit and sends the newer one back.

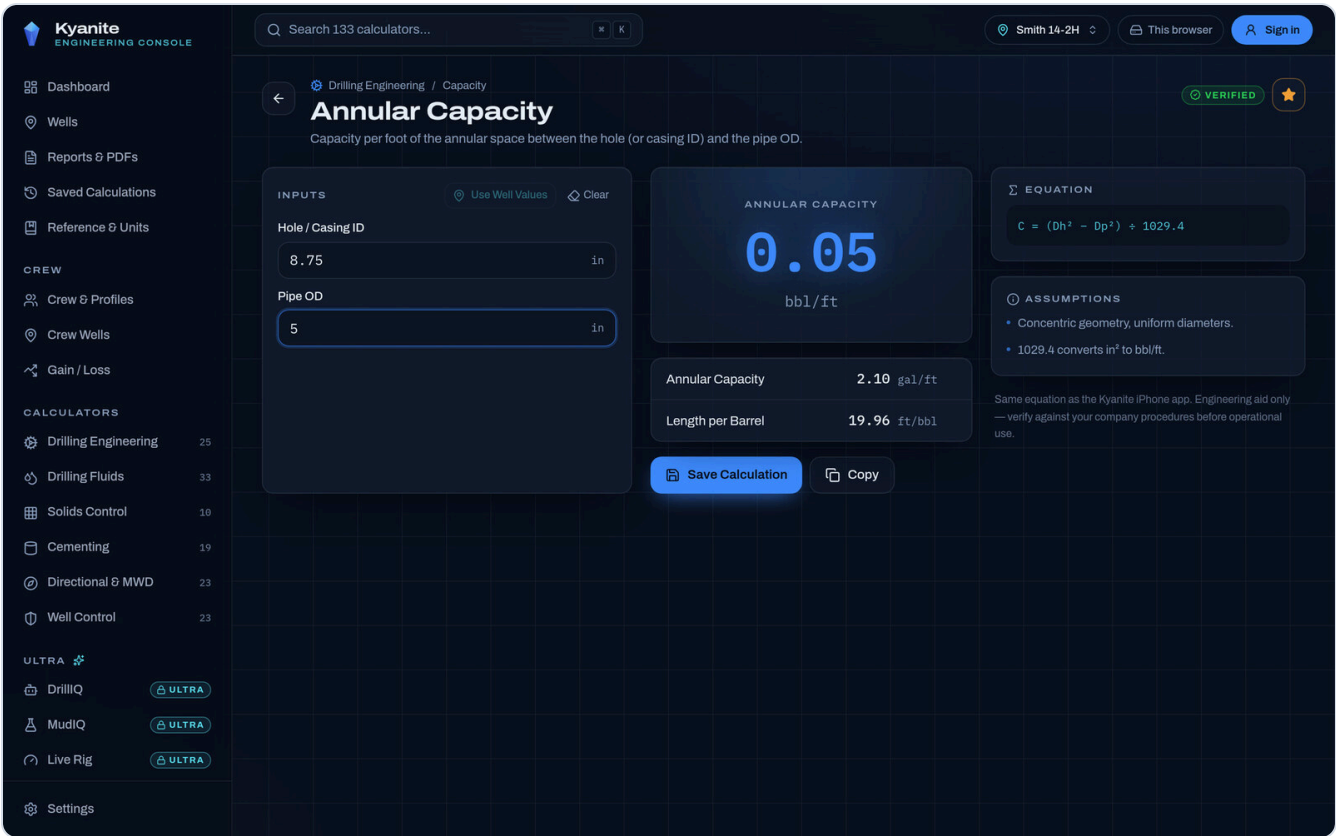
What does not sync

- **Settings** in the console (units, decimal places, favorites, recents, active well) belong to this browser.
- **DrillIQ / MudIQ conversations** on the web are kept in this browser. Your question balance is shared.
- iPhone-only records that have no web page yet — tours, mud reports, trip sheets, surveys, tallies, drill strings, bit runs, rig profiles — stay on the phone. Share them from the phone as PDFs.

Part II – Engineering tools

5 Using a calculator

Open a calculator from a module, the Dashboard, or the command palette.



A calculator: inputs, live result, equation and assumptions

The layout

AREA	WHAT IT SHOWS
Header	Module and topic, the calculator name and a one-line description. The verification chip (VERIFIED , NEEDS VERIFICATION or EQUIPMENT SPECIFIC) and the favorite star sit on the right.

AREA	WHAT IT SHOWS
Inputs	One box per input with its unit. Use Well Values fills what the active well knows; Clear empties the form.
Result	The primary result, large, with its unit. Further results are listed underneath. It updates as you type.
Equation	The exact equation used.
Assumptions	What the equation assumes and any rounding rule.
Save Calculation / Copy	Save the result to your history, or copy the inputs and results as text.

Step by step

1. Type each input. Use the **Tab** key to move between boxes.
2. Read the result as soon as every required input is filled. Until then the result reads — with *Enter the inputs — results update as you type*.
3. Check the **Equation** and **Assumptions** panels — especially the rounding rule.
4. Click **Save Calculation** if you want to keep it. Add a well name and notes, then save. It is stored with the exact inputs, equation and results, and syncs to your iPhone when signed in.

Verification statuses. **VERIFIED** — the equation matches a published reference. **NEEDS VERIFICATION** — the interface is complete but the equation still needs review against your company's verified reference. **EQUIPMENT SPECIFIC** — depends on manufacturer data; check it against your equipment's documentation.

Metric equivalents

With **Settings** → **Unit system** → **Metric (SI)** selected, you still enter oilfield units, and each result shows its metric equivalent underneath (for example $\approx \text{m}^3/\text{m}$ under bbl/ft).

6 The active well and well values

The **active well** is the well you are working on. Pick it with the well switcher in the top bar or **Make active** on a well. It appears on the Dashboard and fills calculators.

The screenshot shows the Kyanite Engineering Console interface. The sidebar on the left contains navigation links: Dashboard, Wells, Reports & PDFs, Saved Calculations, Reference & Units, CREW, Crew & Profiles, Crew Wells, Gain / Loss, CALCULATORS, and ULTRA. The main content area is titled 'Kill Mud Weight' and includes a search bar at the top. The calculator has three input fields: SIDPP (450 psi), Original Mud Weight (10.4 ppg), and TVD at Bit (9842 ft). The calculated Kill Mud Weight is 11.30 ppg. The calculator also displays the equation $KMW = (SIDPP + (0.052 \times TVD)) + OMW$ and assumptions. A message at the bottom indicates 'Filled 2 inputs from Smith 14-2H'.

Kill Mud Weight filled from the active well

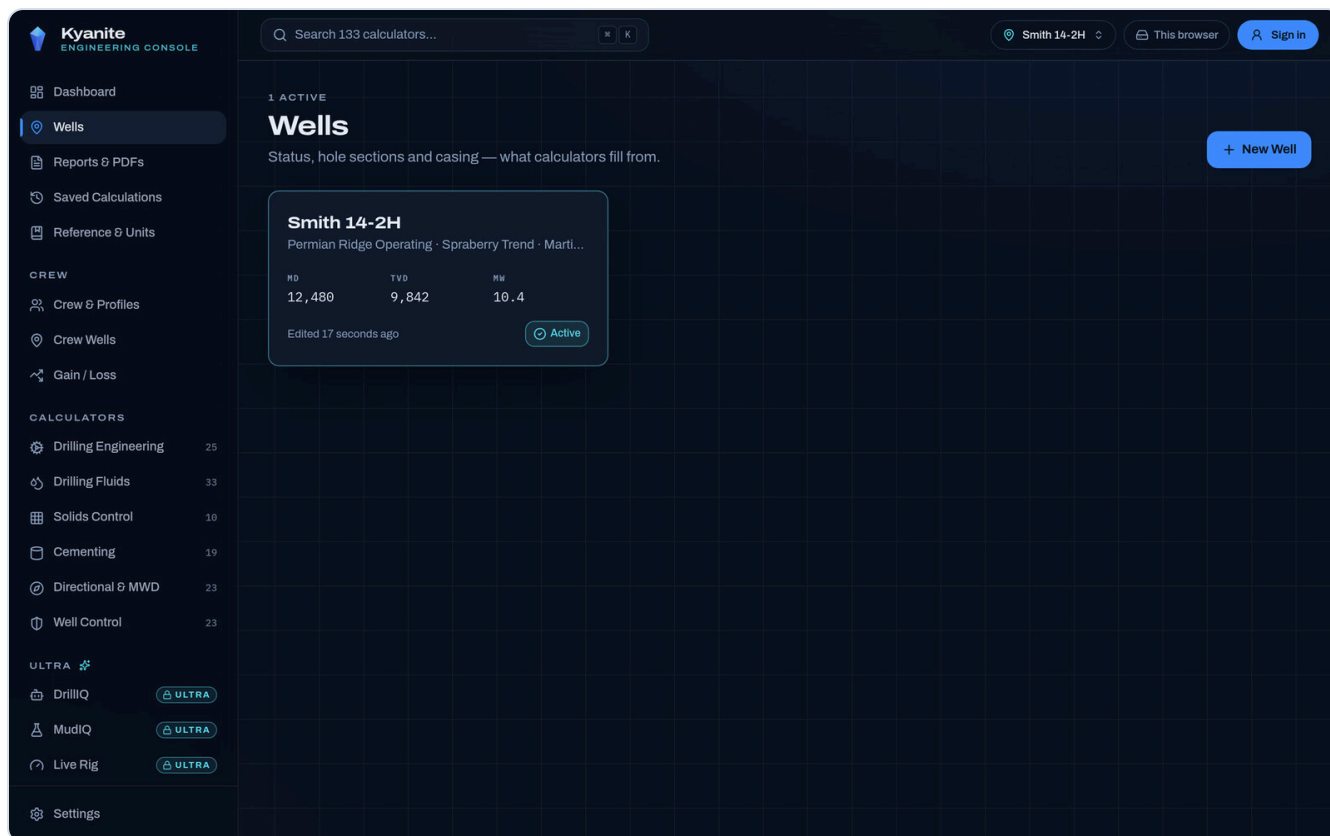
Use Well Values

On any calculator, **Use Well Values** fills every input the active well can answer — mud weight, TVD, MD, hole size, casing ID and shoe depths. Each filled box is labelled underneath with where it came from, for example *Smith 14-2H · Current status*. A message confirms how many inputs were filled.

- Filled values stay editable. Type over any of them.
- A blank well field is never used. If the well has none of the values the calculator needs, you are told *The active well has none of these values yet*.
- With no active well, the button asks you to *Choose an active well in the top bar*.

7 Wells, hole sections and casing

Sidebar → **Wells** lists your wells, active first, with archived wells below.

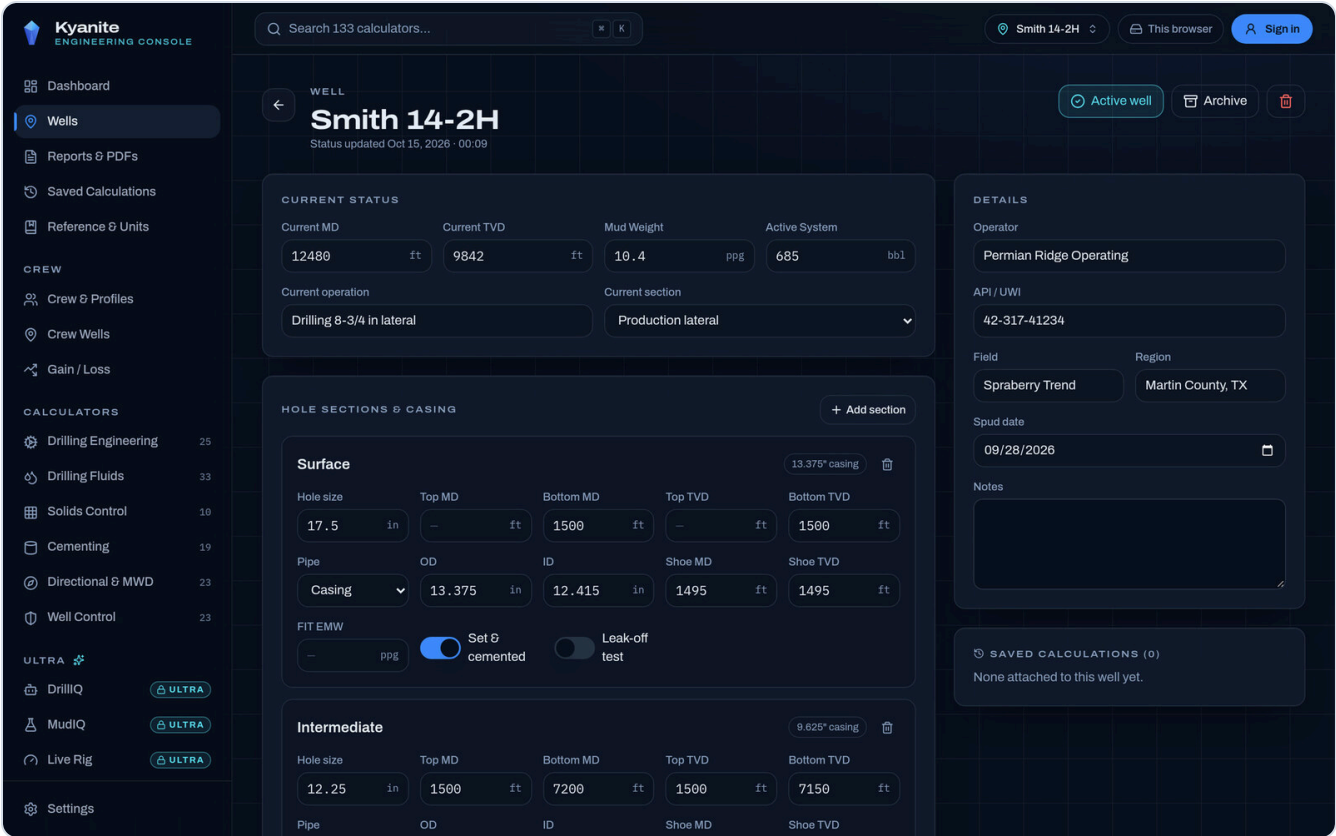


Wells

Creating a well

Click **New well**, enter the **Well name** (e.g. *Smith 14-2H*) and optionally the operator, and create it. You can add status, sections and casing next.

The well page



A well: current status, hole sections and casing, details

CARD	FIELDS
Current status	Current MD, Current TVD, Mud Weight, Active System, Current operation and Current section. The header shows when the status was last updated.
Hole sections & casing	One card per section, top to bottom. Add section adds the next one.
Details	Operator, API / UWI, Field, Region, Spud date, Notes.
Saved calculations	Calculations saved against this well.

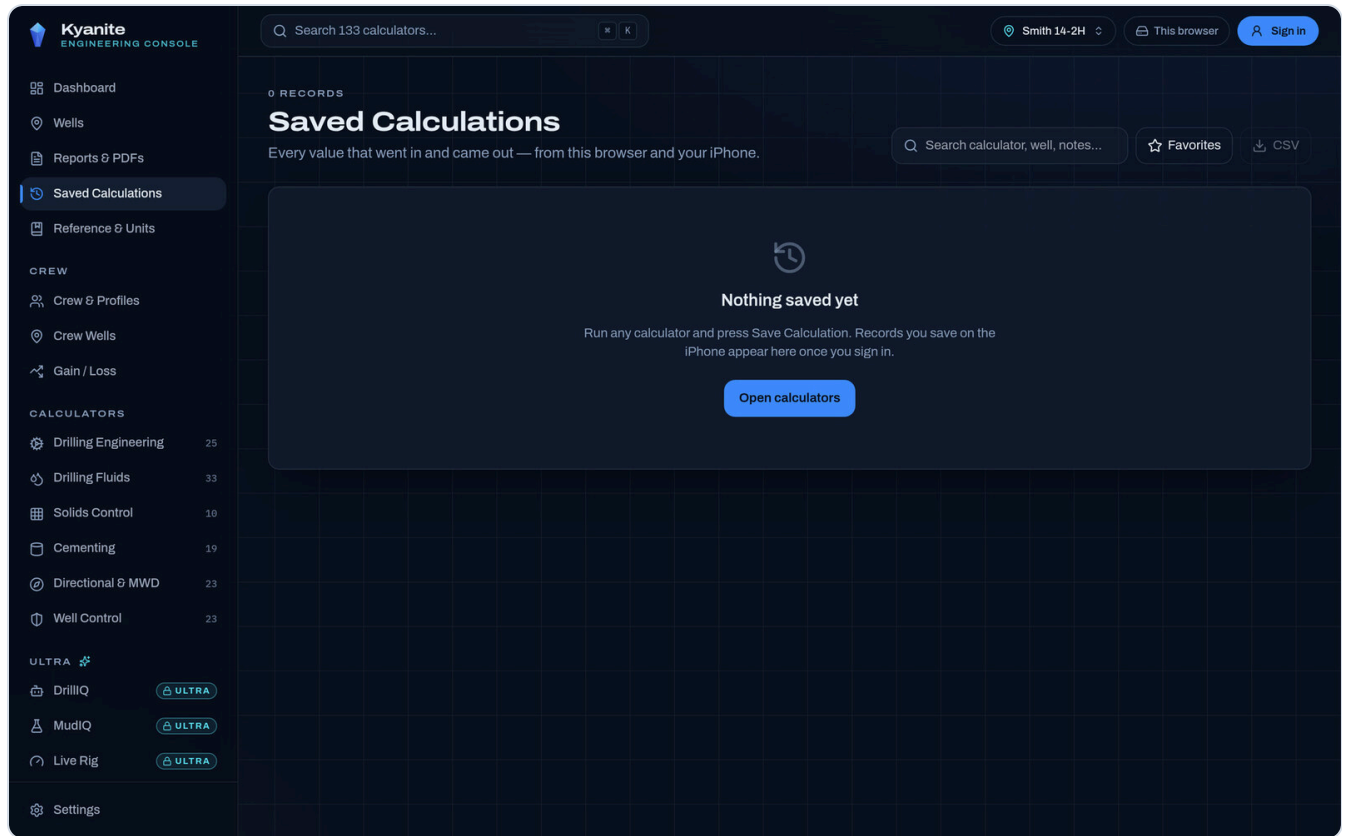
Each **hole section** has **Hole size**, **Top MD**, **Bottom MD**, **Top TVD**, **Bottom TVD**, and its pipe: **None**, **Casing** or **Liner**. Casing and liners have **OD**, **ID**, **Shoe MD** and **Shoe TVD**; liners also have **Liner top MD**. Switch on **Set & cemented** once the pipe is run — only set pipe counts as the shoe for calculators. **FIT EMW** with **Leak-off test** records the shoe test.

At the top of the page: **Active well / Make active**, **Archive** and **Delete**.

Delete removes the well everywhere. It is removed from this browser and your iPhone. Saved calculations keep their well name. Use **Archive** if the rig has simply moved on.

8 Saved calculations

Sidebar → **Saved Calculations** — every value that went in and came out, from this browser and your iPhone.



Saved Calculations

- **Search calculator, well, notes...** filters the list. **Favorites** shows starred records only. **CSV** downloads the list.
- Click a record to see the **Inputs used**, the **Result**, **Notes**, and the **Equation at save time**. If the calculator's equation has changed since, you are told so.
- **Reopen** reloads the calculator with the saved inputs.
- Star or delete a record from its detail panel. Deletes reach your iPhone too.

For a printable list, use **Reports & PDFs → Saved calculations** (chapter 19).

9 Reference and units

Sidebar → Reference & Units.

REFERENCE

Units & Constants

Two-way oilfield ↔ metric conversions and the constants every Kyanite equation uses.

LENGTH

0 ft ↔ 0 m 0 in ↔ 0 mm

VOLUME

0 bbl ↔ 0 m³ 0 bbl ↔ 0 gal
0 gal ↔ 0 L 0 bbl ↔ 0 ft³

CAPACITY

0 bbl/ft ↔ 0 m³/m

PRESSURE

0 psi ↔ 0 bar 0 psi ↔ 0 kPa

GRADIENT

0 psi/ft ↔ 0 kPa/m 0 ppg ↔ 0 psi/ft

ENGINEERING CONSTANTS

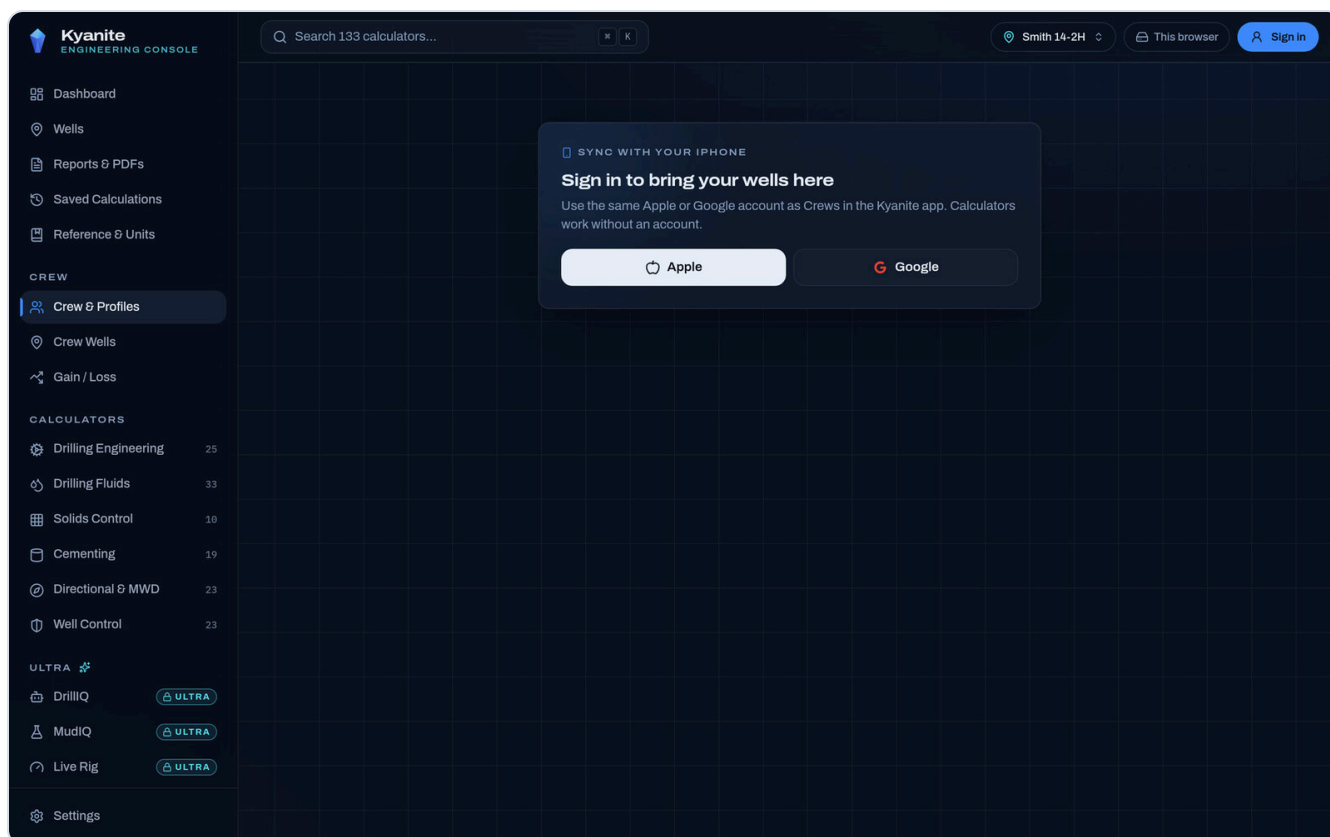
Capacity divisor	1029.4 in³ → bbl/ft
Pressure gradient factor	0.052 psi/ft per ppg
Gallons per barrel	42 gal/bbl
Cubic feet per barrel	5.6146 ft³/bbl
Gallons per cubic foot	7.4805 gal/ft³
Fresh water (field)	8.33 ppg
Water density (SG basis)	8.3454 ppg
Barite	35 ppg (SG 4.2)
Hematite	42 ppg
Steel (buoyancy)	65.5 ppg
API cement sack	94 lb
Hydraulic HP divisor	1714 psi·gpm/HP
Bit ΔP constant	12031 Cd @ 0.95
Curvature radius factor	5729.578 ft·°/100ft

Units & Constants

- **Two-way conversions** for length, volume, capacity, pressure, gradient, density, flow, concentration and temperature. Type on either side; the other side updates.
- **Engineering constants** — every constant Kyanite's equations use, such as the capacity divisor **1029.4**, pressure gradient factor **0.052**, **42** gal/bbl, **5.6146** ft³/bbl, fresh water **8.33** ppg, barite and hematite specific gravities, steel buoyancy **65.5** ppg, API cement sack **94** lb, hydraulic HP divisor **1714** and the bit pressure-drop constant.

Part III – Crew work

Crew pages need you to be signed in and a member of a crew. They are the same records the crew sees in the iPhone app under **Settings → Group Access**, live in both directions.



Crew pages ask you to sign in first

10 Crews, roles and invites

Sidebar → Crew & Profiles.

Creating or joining

- **Create a crew** — name it after the rig or location. You become its admin.
- **Join a crew** — enter the **8-character code** your crew admin sent you.
- You can be on several crews. **Your crews** lets you switch; each keeps its own tanks, inventory, notes and sheets, and nothing crosses between them.

The crew page

Across the top are the crew tabs: **Crew**, **My Profile**, **Wells**, **Gain / Loss**, **Location Volumes**, **Inventory**, **Notes**, **Kill Sheets**, **Cement Jobs** and **Activity**.

The **Crew** tab shows counts (**Crew members**, **Wells**, **Tanks**, **Gain/loss sheets**), the **Roster** with each person's position and company, and **Pending invites**.

Roles

ROLE	CAN DO
Admin	Edits everything, manages the crew — invites, roles, removing people.
Member	Gauges tanks, edits tanks and tank groups, and logs gain / loss. Reads everything else — inventory, notes, kill sheets, cement jobs and crew wells.

Admins change a role from a person's row: **Make admin**, **Make member** or **Remove from crew**. Anything a removed person already logged stays, with their name on it.

Inviting someone

1. On the **Crew** tab click **Invite to crew** and enter their **Email**.
2. Copy the code (or the ready-made invite message) and send it to them.
3. They sign in with **that email** on iPhone or web and enter the code under **Join a crew**.

Codes work for that email only and expire after **14 days**. Revoke an unused one from **Pending invites**.

Anyone joining needs their own Kyanite Pro subscription on iPhone to use crews in the app.

11 Your crew profile

Crew → My Profile. One profile follows you to every crew you are on, on iPhone and web.

FIELD	EXAMPLE
Name on the roster	How the crew sees you.
Position	Pick a common one — Company Man, Toolpusher, Driller, Derrickhand, Floorhand, Motorman, Mud Engineer, Directional Driller, Drilling Engineer, Completions Engineer, Cementer, Solids Control — or type your own.
Company	Service company or operator.
Hitch	e.g. 14/14.
Years in the field	
Phone	Lets the crew call you from the roster.
Certifications	e.g. IADC WellSharp Supervisor, H2S, SafeLand.
About	Basins worked, specialties, anything the crew should know.

Your name and position are printed as **Prepared by** on every report you make.

Who sees it. Only people on a crew with you — never public and never used for ads. Deleting your account deletes it.

Sidebar → **Crew Wells** (or the **Wells** tab). The wells this crew is on — the status everyone works from.

- **Active** and **Archived** lists. Admins add and edit wells with **Well name**, **Operator**, **Rig**, **API / UWI**, **Field**, **County / region**, **Spud date** and **Notes**.
- **Current status** — **MD**, **TVD**, **Mud weight**, **Active system** and **Current operation** — is what the whole crew reads.
- A well shared from someone's iPhone arrives as a **copy**. Their own well stays on their phone for calculators; editing the crew well changes it for the crew only.

13 Gain / loss data sheets

Sidebar → Gain / Loss. Hourly pit volume against the hole the well has taken — graphed, totalled by tour, printable. Anyone on the crew can log readings, and they show up on every phone in seconds.

Starting a sheet

Click **New sheet** for today's 24 hours. Enter **Hole size (in)** — the capacity is **Calculated from hole size** as $D^2 \div 1029.4$ — or type a **Measured value** for **Capacity (bbl/ft)**. Add **Mud weight (ppg)** and the well, then **Add baseline**: the depth and pit volume you were handed at tour change.

Each hour

Add the hour's reading. The row opens with the previous depth and pit volume; type what changed:

COLUMN	MEANING
Depth / Footage ft	Bit depth and footage drilled that hour.
Pit vol bbl	Pit volume totaliser reading.
Additions bbl	Mud built or transferred in.
Losses bbl	Known losses out of the active system — dumped, transferred out, solids-control discard, flow checks.
Hole took	Footage × capacity — the volume the new hole should take.
Actual bbl / Hourly net	What the pits really did, and the gain (+) or loss (–) once hole, additions and losses are accounted for.
Cumulative bbl	Running net since the baseline.
Hour Notes	e.g. <i>dust up, centrifuge off.</i>

The page saves as you go (**Saved to crew**).

Reading the sheet

- Summary: **Cumulative net**, **Hours worked**, **Known losses** and the **Largest hour**.
- **Gain / Loss Chart — bbl by hour**: above zero is a gain, below a loss. The line is the running total since the baseline; bars are each hour on its own.
- **Hourly ledger** with the tour break, and nights / days / 24-hour totals.

Printing and exporting

- **Print / PDF** prints the **Gain / Loss Data Sheet** — header, chart and **Hourly Ledger (bbl unless noted)** — on its own. Choose *Save as PDF* in the print dialog for a file.
- **CSV** downloads the ledger.
- For the full branded report use **Reports & PDFs → Gain / loss**.

Admins can delete a sheet for the whole crew.

14 Location volumes and tanks

Crew → **Location Volumes**. Every tank on location, gauged by day — the same ledger as the iPhone app.

How the numbers work

- Each reading is an **absolute gauge** for that day, not a change.
- A tank's volume on any day is its **latest reading on or before that day**. With no reading yet, the **opening volume** is used. Carried-forward values are marked, so you can see which tanks were not gauged today.
- **Change** is today's volume against the previous day's.

The page

- **Day picker** — move between days; today by default.
- **Summary** — total volume, active mud with its weighted average mud weight, change since yesterday, and how many tanks were gauged.
- **Category sections** — OBM, WBM, Fresh Water, Cement, Brine, Bulk, Trash and Other — each with its subtotal. Each tank shows a **fill bar** against its capacity and turns amber if it reads over capacity.

Gauging

Type each tank's volume (and mud weight where it applies) in its row. A sticky **Save** bar appears with the number of changes; saving posts all of them to the crew at once and logs one activity entry.

Editing tanks

Click a tank's pencil to open the **tank editor**:

FIELD	NOTES
Name	Rename freely — history stays with the tank.
Category	One of the eight categories. Mud categories track mud weight.
Capacity	Rated capacity in bbl, for fill bars and over-capacity warnings.
Opening volume / Opening mud weight	What the tank held before its first gauge.
Notes	Anything the next hand should know.
Groups	Tick the systems this tank belongs to.

Members and admins can edit tanks. **Remove tank** is admin-only, asks for confirmation, and takes the tank out of every group; its gauge history is kept.

Tank groups

Groups lets you build systems — *Active*, *Reserve*, *Premix* — out of any tanks. Create, rename, tick members or delete a group. Groups get their own subtotals on screen and in reports.

Report

Report opens the tank report for the day on screen, or a **History** report for a date range (chapter 19).

Crew → Inventory. On hand, low stock and daily usage — the same ledger as the iPhone.

- Summary: **Products**, **Low stock**, **Used**, **Received**, **Value on hand** and **Cost used** (cost only where the admin has entered prices).
- Product table by **Category** with **On hand** and **Used** for the day. **Search products** filters it.
- **Log usage** (admins) records sacks used or received for the selected **Day** (*Logged for the crew*). Members see the same figures read-only.
- **History** shows a product's movements.

Products are set up by the crew admin from the iPhone's Inventory and shared with the crew.

Crew → Notes. Handovers, safety items and follow-ups for whoever is on next.

Admins click **New crew note**, choose a **Category** — General, Mud Check, Handover, Safety, Equipment, Supplies or Follow-up — add a **Title** and the **Note**, then **Share with crew**. Notes from the iPhone appear here too.

Crew → Kill Sheets and **Crew → Cement Jobs** show the sheets your crew admin shares from the iPhone.

Kill sheets show the key figures worked from the sheet's own data: **Kill MW**, **ICP**, **FCP**, **MAASP**, and the **Surf → bit** and **Bit → surf** strokes. They use the same equations as the iPhone:

- $\text{Kill MW} = \text{MW} + \text{SIDPP} \div (0.052 \times \text{TVD})$
- $\text{ICP} = \text{SCR pressure} + \text{SIDPP}$
- $\text{FCP} = \text{SCR pressure} \times \text{Kill MW} \div \text{MW}$
- MAASP from the shoe test EMW at shoe TVD

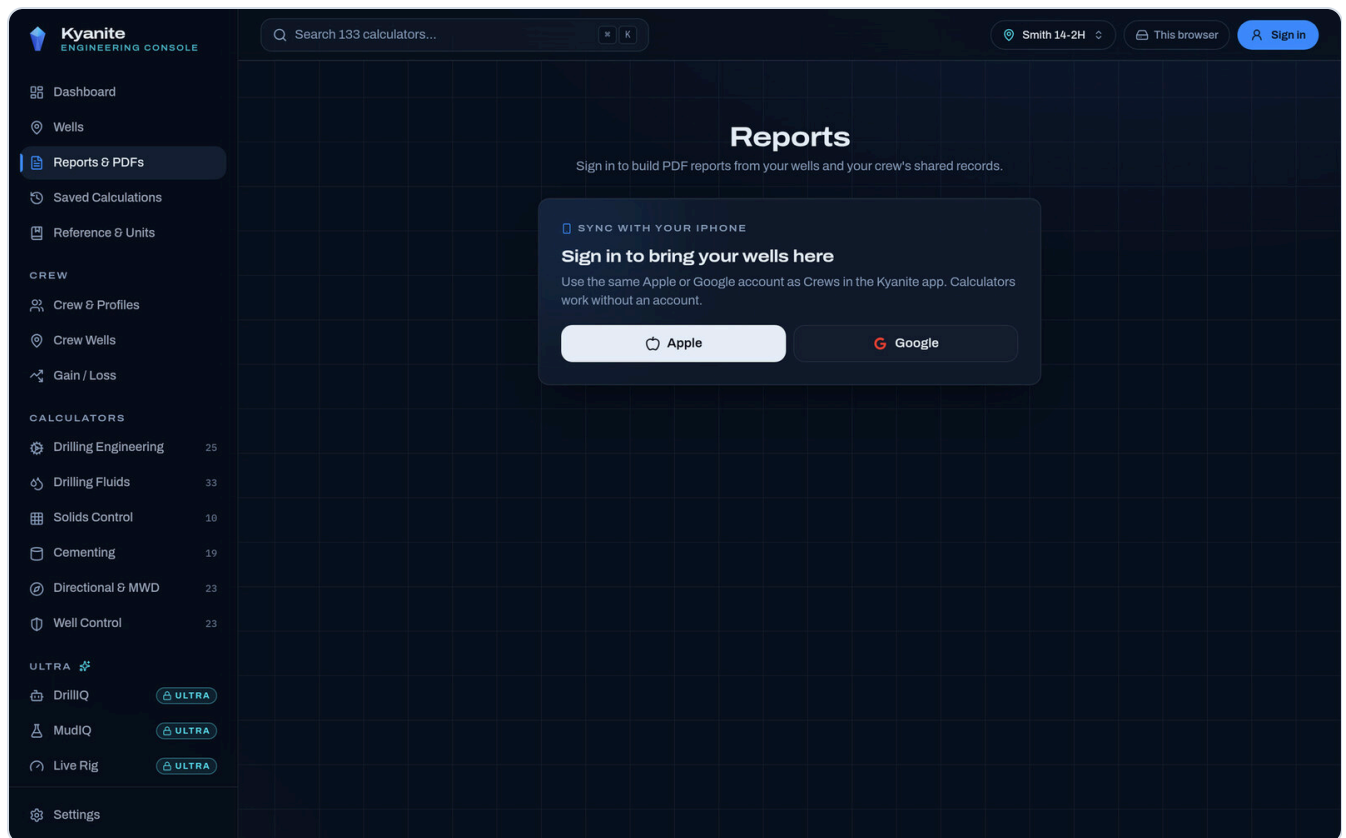
Cement jobs show the job design and its results, worked with the iPhone's cement calculator: annular and inside volumes (excess on open hole only), sacks and mix water for lead and tail, the pump schedule, and end-of-displacement hydrostatics. Each page has a button for its PDF.

Crew → Activity. Every change your crew makes — from any phone or browser — lands here: who, which area (for example *Location Volumes*), what, and when. Use it at tour change to see what happened while you were off.

Part IV – Reports and Ultra

19 Reports and PDFs

Sidebar → Reports & PDFs. Every report in one place, previewed at full page size before you download it. Reports need you to be signed in.



Reports & PDFs, signed out

Choosing a report

GROUP	REPORT	WHAT IT CONTAINS
Location & stock	Tank volume report	Every tank on one gauge day — gauges, fill, change, groups

GROUP	REPORT	WHAT IT CONTAINS
Drilling & well control	Tank volume history	Daily totals, trends and the full gauge log for a period
	Chemical inventory	Stock, usage, low items and every movement
	Gain / loss	Hourly ledger, tour totals and the net chart
	Kill sheet	KMW, ICP / FCP, MAASP, strokes and the pressure schedule
Wells & calculations	Cement job sheet	Slurries, sacks, mix water and the pump schedule
	Well summary	Header, depths, hole sections and saved calculations
	Saved calculations	Your calculation history with inputs and formulas
Crew	Crew notes	Handover, safety and mud-check notes for a period

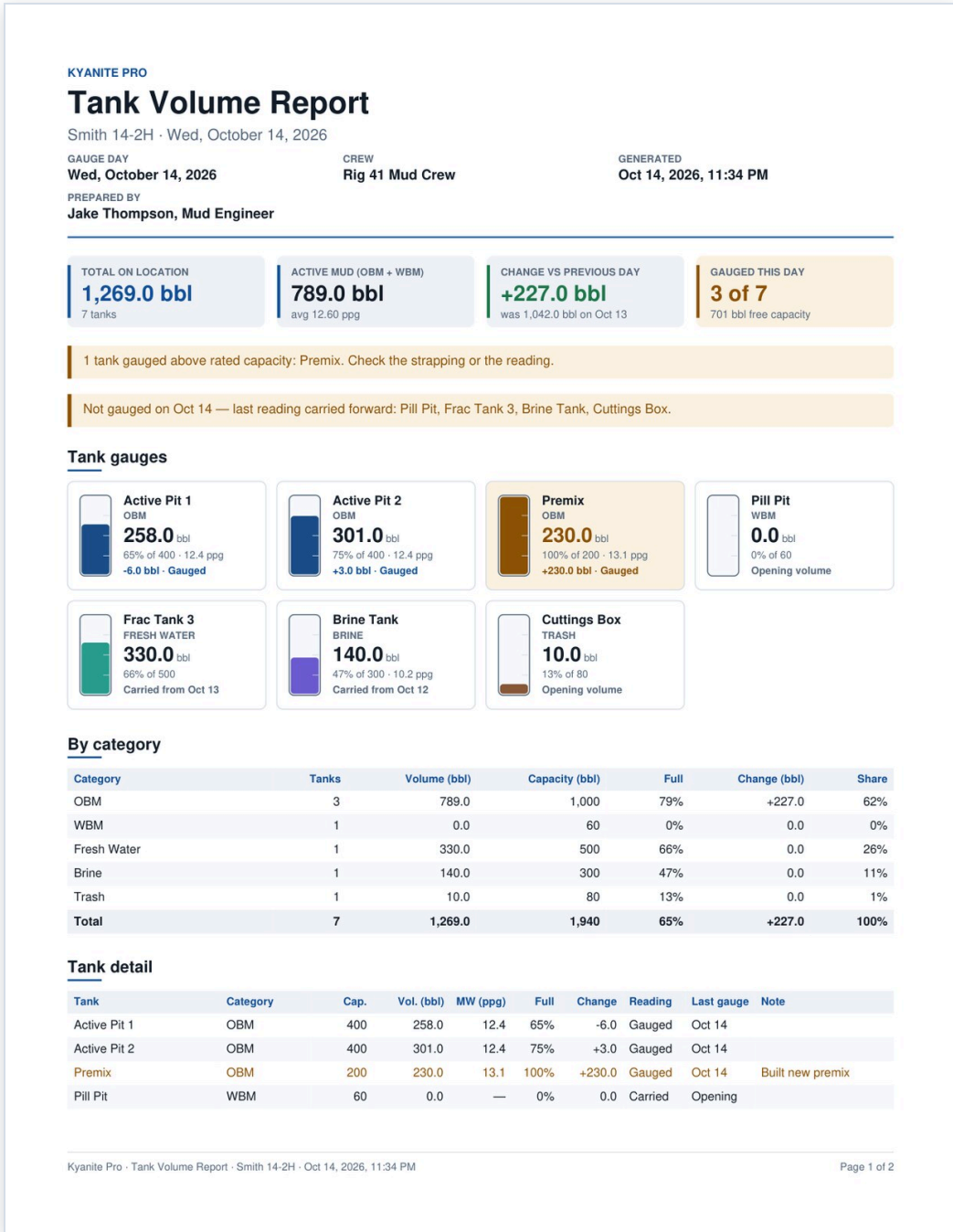
1. Pick the report on the left.
2. Set its options — the day, a date range, or which sheet, job or well.
3. Read the preview. It is exactly what the PDF will contain.
4. Click **Download PDF**, **Open & print**, or **CSV**.

What every report has

- The **KYANITE PRO** header, report title, crew and location, and **Prepared by** with your name and position from your crew profile.
- Summary figures, tables and charts drawn as sharp vector graphics.
- Warnings in amber — over capacity, a tank not gauged that day, a blocking issue on a cement job.
- Blank values printed as —, never as 0.
- A signature line, the engineering disclaimer, and **Page x of y** on every page.

US Letter, portrait. Prints cleanly in black and white.

Tank volume reports



Tank	Category	Cap.	Vol. (bbl)	MW (ppg)	Full	Change	Reading	Last gauge	Note
Frac Tank 3	Fresh Water	500	330.0	—	66%	0.0	Carried	Oct 13	
Brine Tank	Brine	300	140.0	10.2	47%	0.0	Carried	Oct 12	
Cuttings Box	Trash	80	10.0	—	13%	0.0	Carried	Opening	
Total		1,940	1,269.0	12.6	65%	+227.0	3/7		

Tank groups

Group	Tanks	Members	Volume (bbl)
Active system	2	Active Pit 1, Active Pit 2	559.0

Seven-day volume by category



Notes

- "Carried" means no reading was taken this day; the last gauge reading is carried forward (or the opening volume if the tank has never been gauged).
- Change compares this day's volume with the previous day's carried volume.
- Amber rows and gauges are above the tank's rated capacity.
- Blank capacity or mud weight shows as —, never as zero. Active-mud weight is volume-weighted across OBM and WBM tanks.

Generated with Kyanite Pro. Values are shown exactly as entered or calculated; units and assumptions are stated with each section. Verify against your company's procedures before acting on any result.

Tank volume report, page 2 — category and tank tables, 7-day chart

The **history report** has a trend chart of total and active mud, volume by category day by day, a table of daily totals, each tank's start / end / minimum / maximum, and the full gauge log with every reading's change from the previous one. Over-capacity readings are highlighted.

Tank Volume History

Smith 14-2H - Wed, October 7, 2026 – Wed, October 14, 2026

PERIOD

Oct 7 – Oct 14

DAYS

8

CREW

Rig 41 Mud Crew

GENERATED

Oct 14, 2026, 11:34 PM

PREPARED BY

Jake Thompson, Mud Engineer

ON LOCATION AT END

1,269.0 bbl

Oct 14

NET CHANGE

+109.0 bbl

from 1,160.0 on Oct 7

PEAK / LOW

1,269 / 1,042

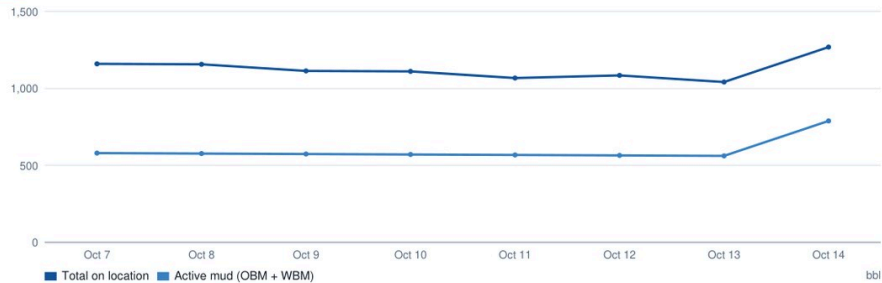
Oct 14 - Oct 13

GAUGE READINGS

22

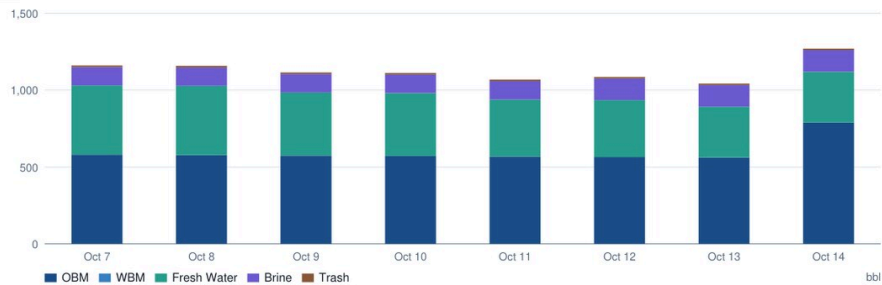
8 days - 7 tanks

Total and active mud on location



Each day uses the latest gauge on or before it, so days without a reading carry the previous volume forward.

Volume by category



Daily totals

Day	Total	Mud	Change	Gauged	OBM	WBM	Fresh Water	Brine	Trash
Wed, October 7, 2026	1,160.0	580.0	—	3/7	580	0	450	120	10
Thu, October 8, 2026	1,157.0	577.0	-3.0	2/7	577	0	450	120	10

Tank volume history report

You can also open the tank reports directly from **Location Volumes → Report**, and the kill sheet and cement job PDFs from their own pages.

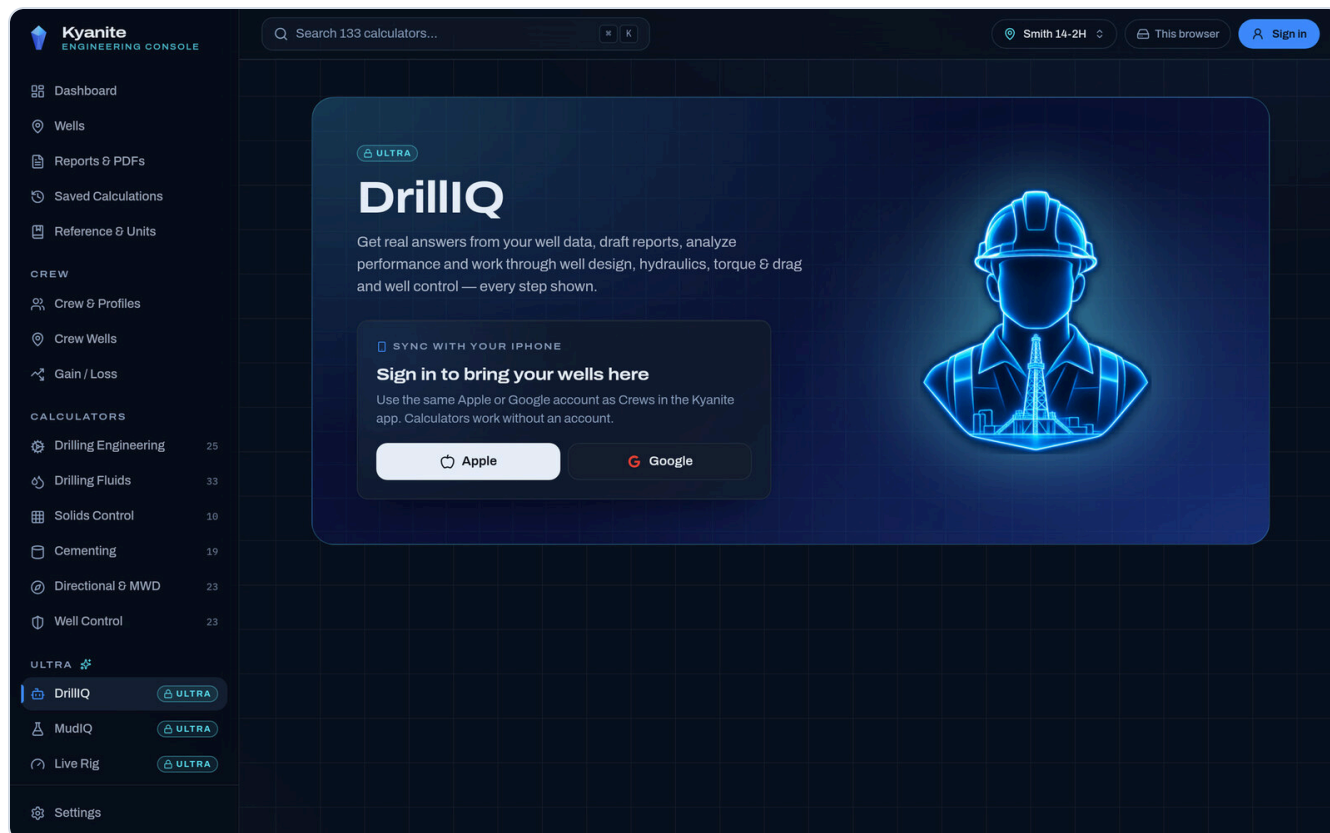
CSV

CSV downloads the same tables for Excel or Google Sheets.

20 Kyanite Ultra on the web

Kyanite Ultra adds **DrillIQ**, **MudIQ** and the **Live Rig** dashboard (plus the iPhone's well workspace and priority support).

- **Subscribe in the iPhone app.** The web has no checkout. Subscribe or buy question packs on the iPhone, then sign in on the web with the same account.
- **Ultra unlocks automatically** on the web once you sign in. If you have just subscribed, reload the page.
- Locked Ultra pages stay visible with an **ULTRA** badge and explain what they do.



DrillIQ, signed out

Questions

Ultra includes **100 questions a month**, shared between DrillIQ and MudIQ and between your iPhone and the web. One question = one answer. The monthly allowance refills on the 1st. **Question packs** (bought on iPhone: 50, 100 or 300 questions) never expire and are used after the monthly allowance runs out. Your remaining balance shows as **Questions** on the assistant pages and **IQ Qs** on the Dashboard.

21 DrillIQ and MudIQ

Sidebar → DrillIQ — an AI drilling engineer: well design, API RP 13D hydraulics, torque and drag, kill sheets and MASP, stuck pipe and losses, daily report drafting and performance analysis.

Sidebar → MudIQ — an AI drilling fluids engineer for WBM, OBM and SBM: mud weight and solids analysis, rheology, contamination treatments, downhole problems and daily mud summaries.

Asking

1. Type your question, or start from a suggested prompt.
2. Leave **Use well data** on to include the active well's details so answers fit your well. Turn it off for general questions.
3. Press **Send**. The answer streams in, with tables and every formula shown. **Stop** ends it early.

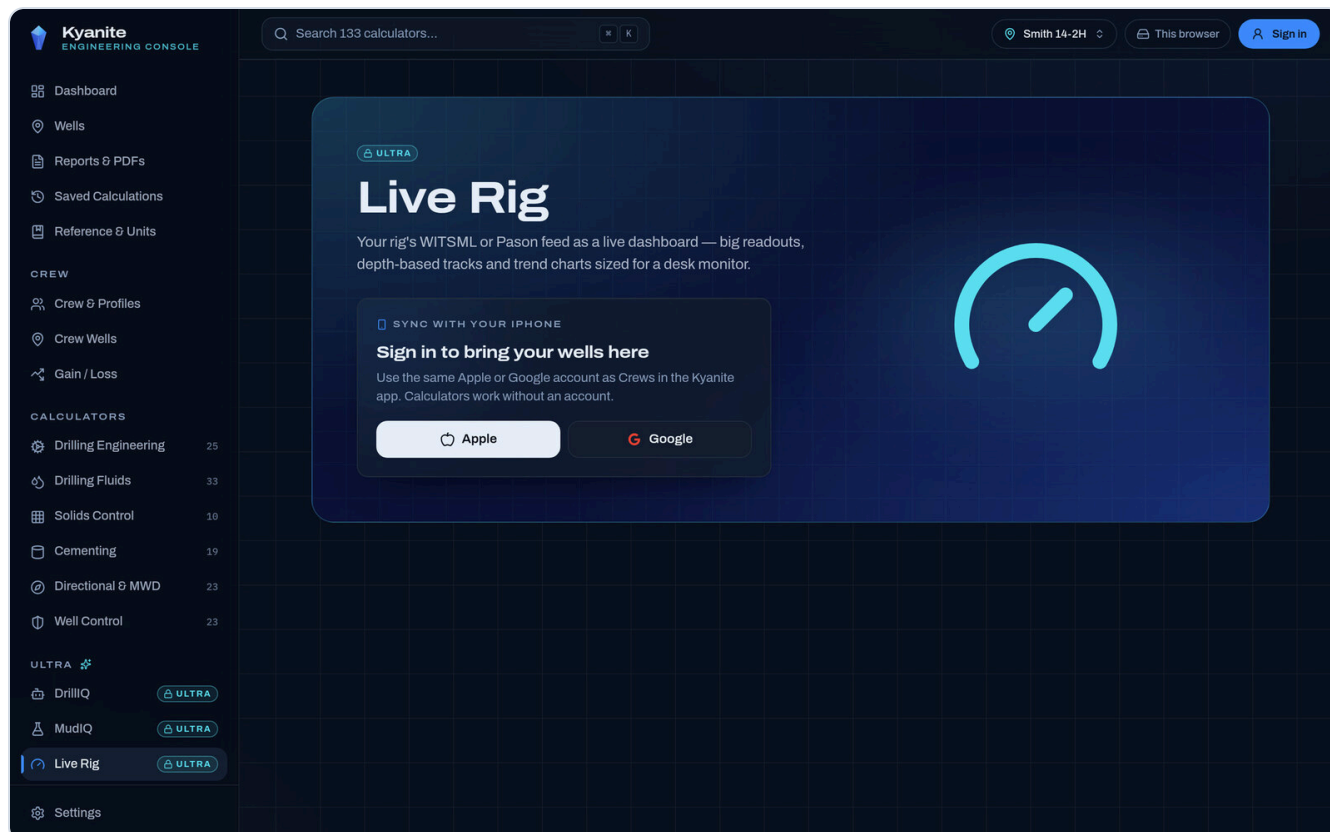
New conversation starts fresh. Earlier conversations are listed on the left; **Delete conversation** removes one. Web conversations are kept in this browser.

If you run out: *You're out of questions — Your Ultra questions refill on the 1st. Question packs from the iPhone app work here too.*

Answers can be wrong. Verify every calculation against the well program and operator procedures before acting. Your question and, with **Use well data** on, the active well's details are sent to an AI model provider solely to generate the answer.

22 Live Rig

Sidebar → Live Rig (Ultra) — your rig's drilling data as a dashboard sized for a desk monitor: big readouts, depth-based tracks and trend charts.



Live Rig, signed out

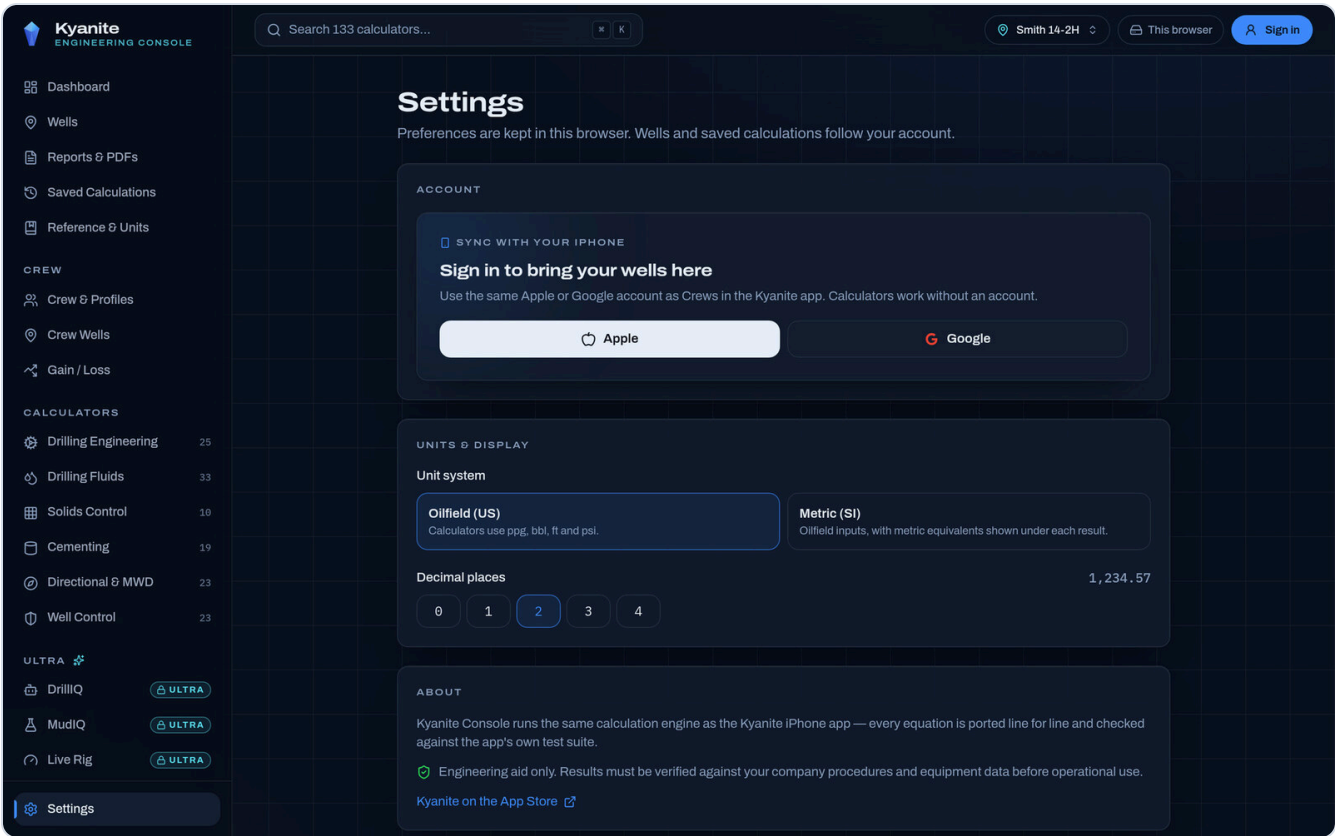
- **Readouts** — hookload, WOB, ROP, rotary RPM, torque, standpipe pressure, pump output and SPM, bit and hole depth, block height, pit gain / loss and more, each with a small trend.
- **Charts** — drilling and hydraulics traces over time.
- **Rig state** — *Drilling, In slips — connection, Picking up, Pumps on — back to bottom.*

The web dashboard currently runs on the simulated feed — a drilling simulation that runs in your browser so you can learn the dashboard. It is always labelled as simulated. Connecting a real Pason DataLink or WITSML feed is done in the iPhone app for now.

Part V — Reference

23 Settings

Sidebar → **Settings**. Preferences are kept in this browser; wells and saved calculations follow your account.



Settings

SECTION	OPTIONS
Account	Sign in / out, the account you are signed in with, and your plan (<i>Free tier on the web — subscribe in the iPhone app or Ultra</i>).

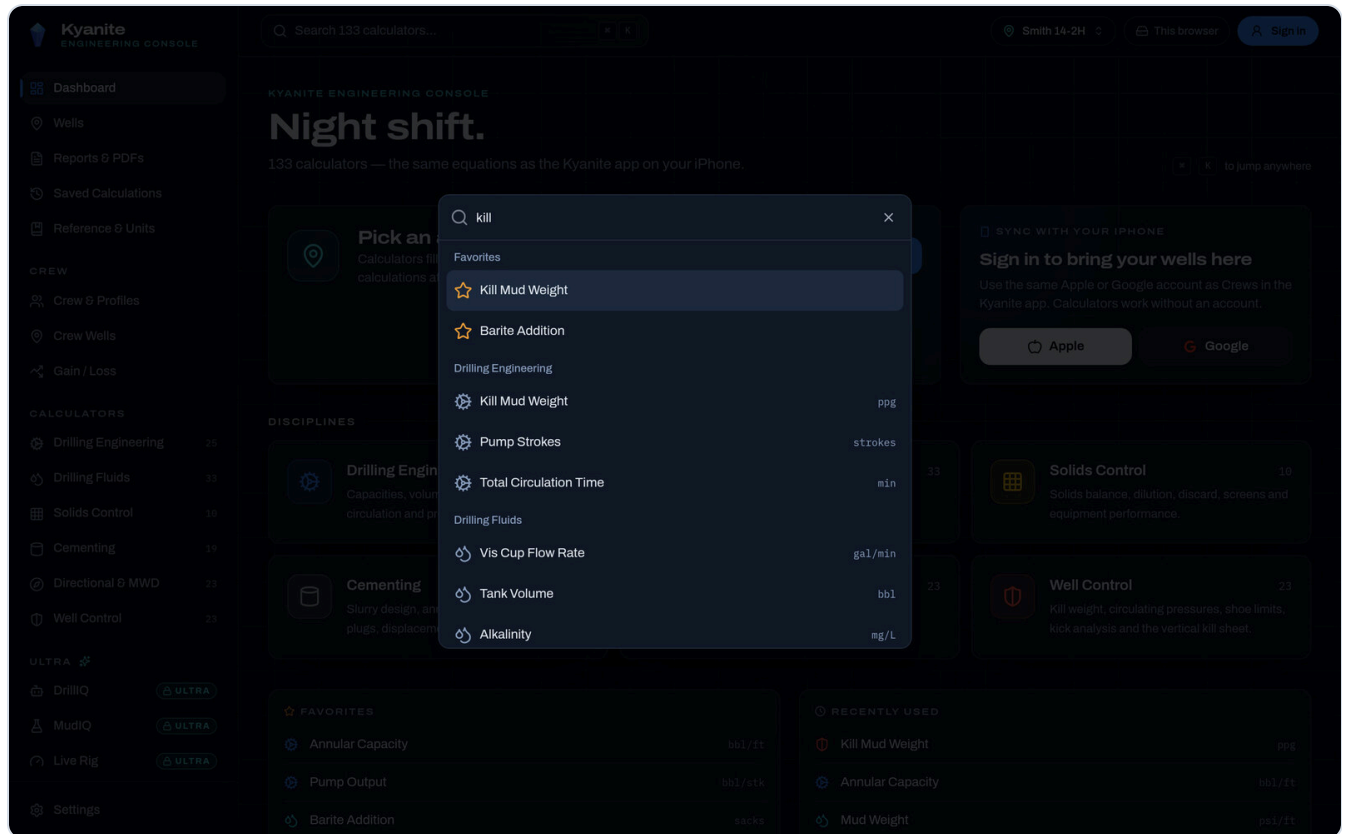
SECTION	OPTIONS
Units & display	Unit system — Oilfield (US) (ppg, bbl, ft and psi) or Metric (SI) (oilfield inputs, with metric equivalents shown under each result). Decimal places 0–4, with a live sample.
About	The console runs the same calculation engine as the iPhone app; the engineering-aid notice; a link to Kyanite on the App Store.

Deleting your account

Delete your account from the iPhone app (**Settings** → **Group Access** → **Delete Account**). It erases your profile, crew memberships, synced wells and saved calculations, and question balance from our servers. If you are the only admin of a crew, that crew and everything it shares is deleted for everyone on it — the app warns you first.

24 Keyboard shortcuts

KEYS	ACTION
⌘K / Ctrl+K	Open the command palette — jump to any calculator, well or page.
↑ ↓ then Enter	Choose a result in the palette.
Esc	Close the palette or a dialog.
Tab / Shift+Tab	Next / previous input.



The command palette

The palette lists **Favorites** first, then calculators grouped by discipline, then wells and pages. Type any part of a name or keyword — *kill*, *barite*, *ECD*.

25 Troubleshooting and FAQ

My iPhone wells don't appear on the web. Check you used the same sign-in on both (Apple vs Google). On the iPhone, open **Settings → Kyanite on the Web** and make sure it says it is synced. Give it 15 seconds with the app open.

The sync pill says there's a problem. It retries by itself. If it persists, reload the page. Your edits are kept in the browser until they are sent.

Use Well Values filled nothing. Pick an active well in the top bar, and check the well has the values (blank is never used). Shoe depths only come from casing switched to **Set & cemented**.

A crew page asks me to sign in, or shows no crew. Crew pages need an account and a crew. Create one, or join with the code your admin sent.

I can't edit kill sheets or inventory products on the web. Those are kept by the crew admin. Members can gauge tanks, edit tanks and tank groups, and log gain / loss; everything else is read-only for them.

Ultra pages are still locked. Sign in with the account that has Ultra, then reload. Ultra is bought in the iPhone app.

The PDF downloaded but won't open. Try **Open & print** instead, or another browser. If it still fails, email support with the report name.

Is my data shared with anyone? No analytics, no advertising, no tracking. Your wells and calculations are visible only to you; crew records only to your crew. See the Privacy Policy at kyanitepro.com.

Support. admin@kyaniteinc.com

TERM	MEANING
Active well	The well that fills calculators and appears on the Dashboard.
Active system	Mud volume in circulation (pits plus hole), bbl.
Baseline	The first line of a gain / loss sheet — depth and pit volume at tour change.
Carried forward	A tank not gauged today; its last reading is used.
Crew well	A well shared with the crew; a copy of anyone's personal well.
ECD	Equivalent circulating density.
EMW	Equivalent mud weight.
FCP / ICP	Final / initial circulating pressure on a kill.
FIT / LOT	Formation integrity test / leak-off test at the shoe.
KMW	Kill mud weight.
MAASP	Maximum allowable annular surface pressure.
PVT	Pit volume totaliser.
SCR	Slow circulating rate pressure.
SIDPP	Shut-in drill pipe pressure.
WITSML	The industry standard for streaming rig data.