

GOTEK SCADA & OPTIMIZATION

GOTEK's IDAC system allows complete control of your well through remote acquisition and visibility via the GOTEK Dashboard. Dashboard is a serverless platform, allowing for quick downloads from the cloud. The IDAC well controller is an auto-optimizer and data monitoring system for well production, facilities, and compression allowing users the following:

- Critical Well Filtering
- Custom Text Alerts
- High Speed Granular Data
- Advanced Analytics
- Advanced Self-Optimizing Plunger and GAPL Lift
- Remote Valve Control
- Modbus Compatible

Our auto-optimization software leverages the same on-bottom monitoring software employed by the Cigar Gauges. We seamlessly integrate plunger velocity, on-bottom signals, tubing, casing, and line pressure interpolations as crucial factors in the optimization process. This represents a genuine AI SCADA platform that continuously adapts to the unique characteristics of your wells.



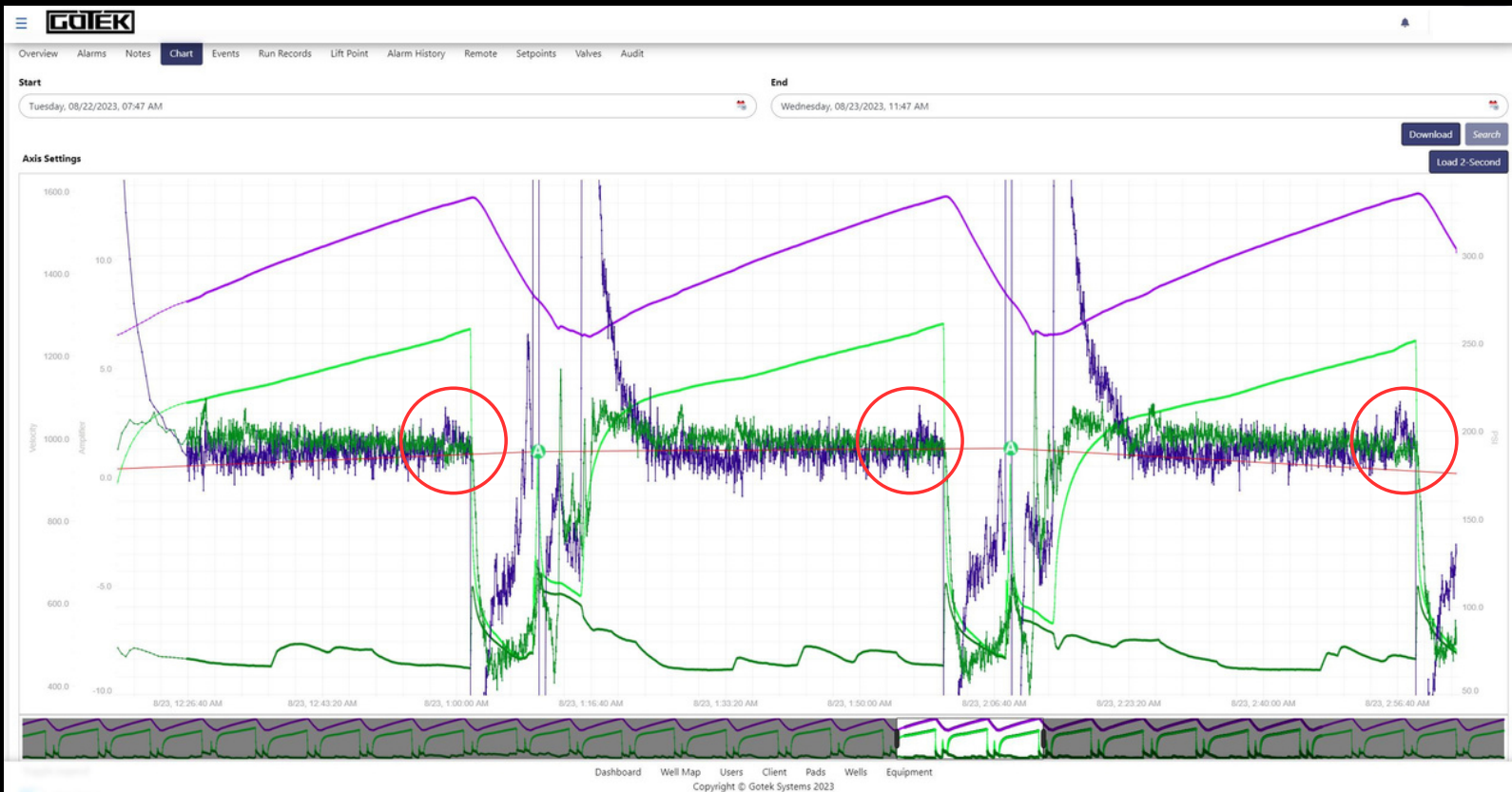
435-994-9800



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The Dashboard: Advanced AI Optimizing Plunger Lift Software



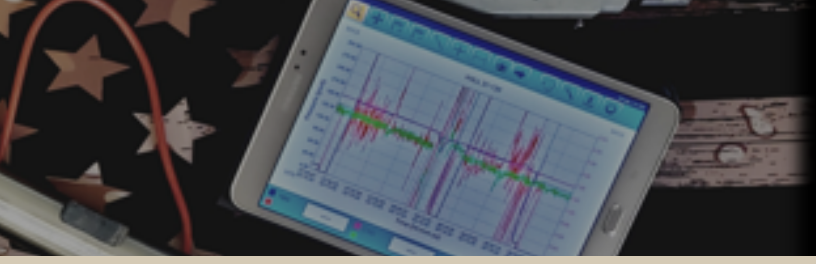
- High velocity anticipation software is effective in detecting arrivals that could cause significant damage to plunger lift components, alerts and shut ins can be set up
- Shut in and after-flow intervals can be set to auto-optimize wells efficiently
- In GAPL/PAGL operations, injection can be utilized at the point of plunger stall, which significantly reduces overall injection while effectively lowering PBHP
- See bottom consistently to verify the program is running correctly and efficiently
- Load 2-second data as you need it, no extra visibility upgrades or fees



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The Dashboard: High Speed Granular Data



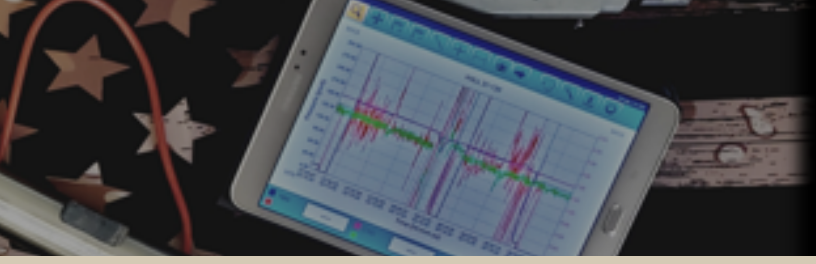
- 30 second live data is available with easily accessible 2 second scalability
- Serverless data management allows for fast access to data
- Data Lake storage allows for easy access to all well historical data
- Complete history of all run records



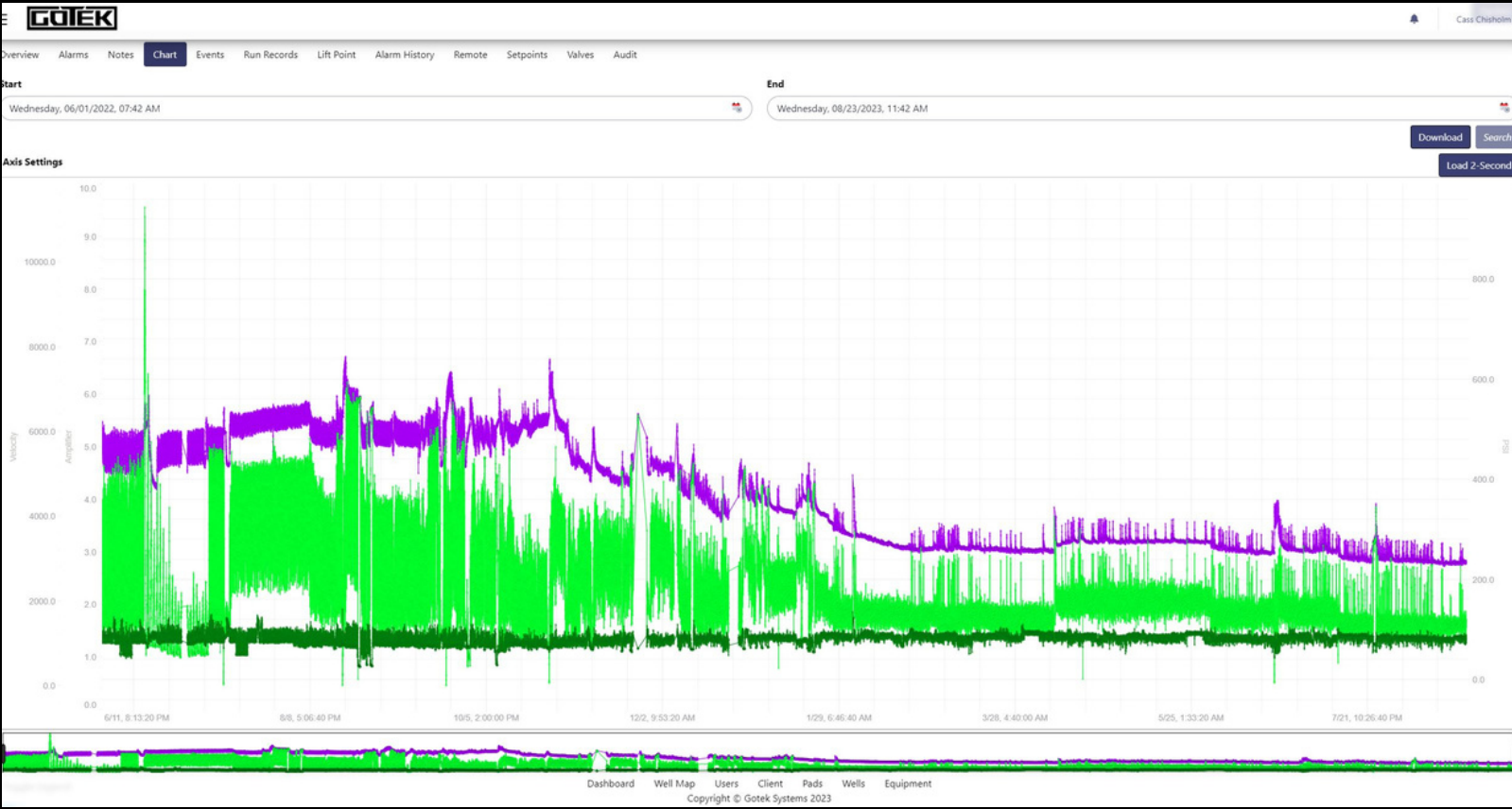
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The Dashboard: Effective Casing Pressure Draw Down



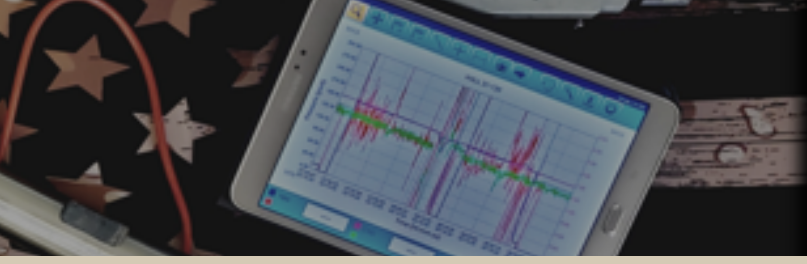
- Our optimization program targets the max production at the lowest flowing bottom hole pressure
- Intermitting gas injection is available when running GAPL. This ensures you do not over inject into your formation
- The program detects when a plunger stall and injects the necessary rate in order for the plunger to make it to surface



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Critical Well Filtering

CRITICAL WELLS

Well Name	Status	Well Type / Plunger LRT / Fall	Last Update
Well Name	CRITICAL	Well Type / Plunger LRT / Fall	6/26/2023, 8:50:18 AM
Well Name	CRITICAL	Well Type / Plunger LRT / Fall	6/26/2023, 12:35:37 PM
Well Name	Plunger Stalled	Well Type / Plunger LRT / Fall	8/17/2023, 1:48:22 PM
Well Name	Plunger Stalled	Well Type / Plunger LRT / Fall	8/17/2023, 1:48:13 PM
Well Name	Plunger Stalled	Well Type / Plunger LRT / After Flow	8/17/2023, 1:48:34 PM
Well Name	Plunger Stalled	Well Type / Plunger LRT / Fall	8/17/2023, 1:48:15 PM

DIRECTLY MONITORED PADS

Well Name	Client Name	IP Address	Well Equipment
Well Name	Client Name	IP Address	Well Equipment 1/1
Well Name	Client Name	IP Address	Well Equipment 1/1
Well Name	Client Name	IP Address	Well Equipment 1/1
Well Name	Client Name	IP Address	Well Equipment 2/1
Well Name	Client Name	IP Address	Well Equipment 2/1
Well Name	Client Name	IP Address	Well Equipment 1/6
Well Name	Client Name	IP Address	Well Equipment 2/6
Well Name	Client Name	IP Address	Well Equipment 1/1

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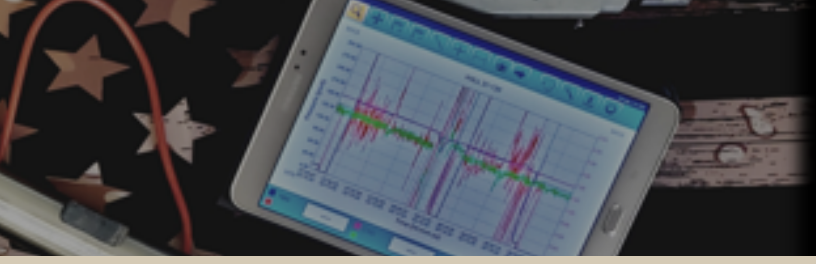
- Users set Critical Well/Equipment Parameters
- Wells are tiered and automatically filtered to top of home page when well conditions require attention or intervention
- Alerts are sent via text and/or email when conditions are met
- Shut in wells or wells that require immediate intervention (criteria set by user) appear in red
- Wells that are running but require intervention appear in yellow
- Wells with no detected issues appear in green
- Helpful in identifying conditions that often get missed
- Helps operators organize their day appropriately



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Well Overview

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Basic Settings Dynamic Channels Pad Info

BASIC INFORMATION

Name *
 Client *
 Service Name *
 aoi01

Update

Overview Alarms Notes Chart Events Run Records Lift Point Alarm History Remote Setpoints Valves Audit

Name		Owned By	

MEASUREMENTS Last Updated: 8/23/2023, 11:29:12 AM

TP	CP	LP	HP	Flow Rate	Avg Fall Vel
190.655	651.805	192.664	0.996	0.000	N/A

ESTIMATED LEVELS / PRESSURE Last Updated: 8/23/2023, 11:14:47 AM

Est Tubing Fluid Level	Est Casing Fluid Level	Est EOT CP
N/A	N/A	N/A

WELL META INFORMATION

Plunger Type	Casing Properties	Tubing Properties	SN Depth	Stage Tool Depth	EOT Depth
Shift Rod	N/A	2 3/8	6420	N/A	N/A

PLUNGER HEALTH Plunger Installed On: 6/19/2023

Avg Arrivals/Day	Avg Missed Arrivals/Day	Trips	Miles	Days
128.4	0.0	2471	6009.02	65

Arrivals TD / YD	Missed Arrivals TD / YD	Plunger Trips	Plunger Miles	Plunger Days
63.0 / 132.0	0.0 / 0.0	2471	6009.02	65

Mode / Cycle	Started
Plunger Lift / Lift	8/23/2023, 11:25:47 AM

Dashboard Well Map Users Client Pads Wells Equipment
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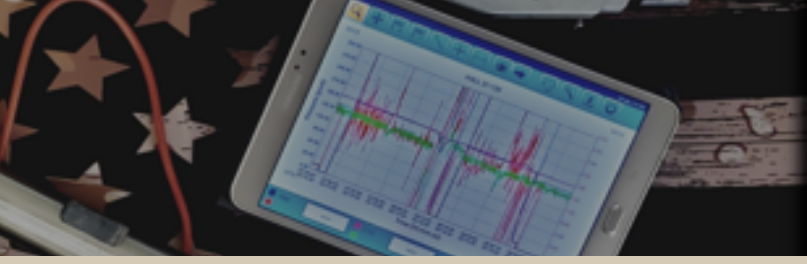
- The overview page gives details about the well and an interactive well location map
- Current well pressure readings: tubing, casing, line
- Estimated fluid levels
- Tubing specifications, plunger type, and SN depth
- Plunger health such as arrivals/day, missed arrivals/day, total trips, plunger miles and days in the well
- Current status of plunger in production cycle: fall, build, lift, afterflow



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Run Records

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Basic Settings Dynamic Channels Pad Info

BASIC INFORMATION

Name *

Client * Service Name * aoi1 Update

Overview Alarms Notes Chart Events **Run Records** Lift Point Alarm History Remote Setpoints Valves Audit

Start: Monday, 08/21/2023, 06:48 AM End: Wednesday, 08/23/2023, 10:48 AM Download Search

Time	Start CP	Start TP	Arrival	Rise Velocity	Fall Velocity	Rise Time	AfterFlow CP	AfterFlow TP	AfterFlow Time	ShutIn Time
8/21/2023, 6:41:33 AM	656.703	176.587	Arrived	636.905	0.000	00:10:04	656.760	174.574	00:00:15	00:00:16
8/21/2023, 6:52:15 AM	656.731	176.361	Arrived	604.521	0.000	00:10:37	656.590	173.553	00:00:15	00:00:16
8/21/2023, 7:03:30 AM	656.476	176.531	Arrived	633.137	0.000	00:10:08	656.392	173.184	00:00:15	00:00:16
8/21/2023, 7:14:15 AM	656.222	176.814	Arrived	639.442	0.000	00:10:02	656.392	173.269	00:00:15	00:00:16
8/21/2023, 7:24:55 AM	656.420	176.984	Arrived	630.648	0.000	00:10:10	656.250	175.112	00:00:15	00:00:16
8/21/2023, 7:35:43 AM	656.080	175.169	Arrived	623.302	0.000	00:10:17	656.193	175.481	00:00:15	00:00:16
8/21/2023, 7:46:38 AM	656.052	179.055	Arrived	625.732	0.000	00:10:15	656.193	173.042	00:00:15	00:00:16
8/21/2023, 7:57:31 AM	655.995	177.098	Arrived	598.881	0.000	00:10:43	656.108	174.290	00:00:15	00:00:16
8/21/2023, 8:08:51 AM	655.882	176.417	Arrived	640.720	0.000	00:10:01	655.740	172.163	00:00:15	00:00:16
8/21/2023, 8:19:30 AM	655.797	177.807	Arrived	642.000	0.000	00:10:00	655.825	171.283	00:00:15	00:00:16
8/21/2023, 8:30:07 AM	655.599	178.800	Arrived	617.309	0.000	00:10:23	655.684	172.078	00:00:15	00:00:16
8/21/2023, 8:41:08 AM	655.684	174.488	Arrived	622.093	0.000	00:10:19	655.542	173.666	00:00:15	00:00:16
8/21/2023, 8:52:05 AM	655.429	173.609	Arrived	628.181	0.000	00:10:13	655.542	168.759	00:00:15	00:00:16
8/21/2023, 9:02:55 AM	655.570	172.531	Arrived	516.078	0.000	00:12:26	655.542	170.972	00:00:15	00:00:16
8/21/2023, 9:15:59 AM	655.514	175.311	Arrived	617.308	0.000	00:10:24	655.542	168.901	00:00:15	00:00:16
8/21/2023, 9:27:00 AM	655.429	171.085	Arrived	633.135	0.000	00:10:08	655.316	172.305	00:00:15	00:00:16
8/21/2023, 9:37:45 AM	655.514	176.389	Arrived	636.906	0.000	00:10:04	655.146	183.706	00:00:15	00:00:16
8/21/2023, 9:48:27 AM	655.202	184.728	Arrived	640.720	0.000	00:10:01	655.287	192.981	00:00:15	00:00:16
8/21/2023, 9:59:06 AM	655.287	194.144	Arrived	614.943	0.000	00:10:26	655.485	194.031	00:00:15	00:00:16

Dashboard Well Map Users Client Pads Wells Equipment
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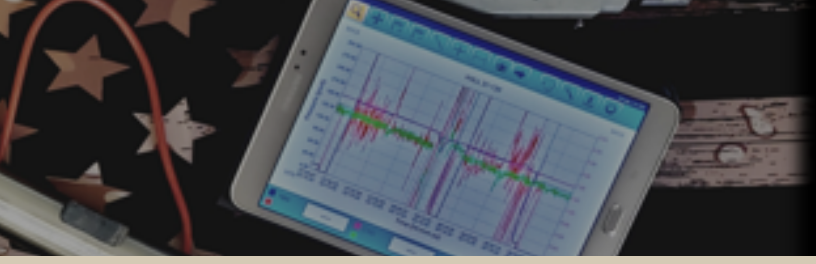
- Data historian is capable of keeping the entire run records list from the date of install with no bogging down of system
- Pressures logged are casing and tubing at start of plunger cycle as well as at start of afterflow
- Rise and fall velocities are logged when EOT is put into system



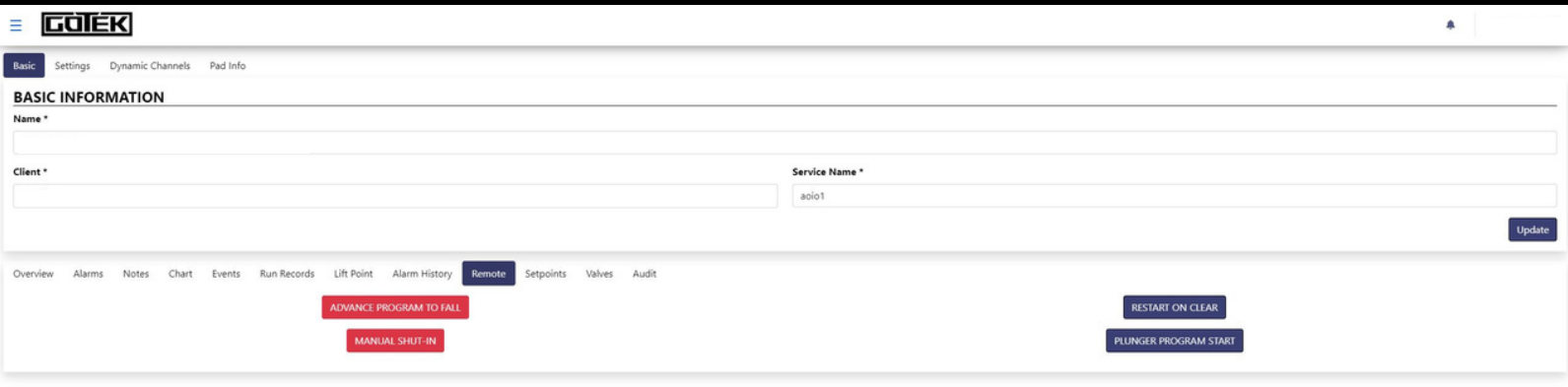
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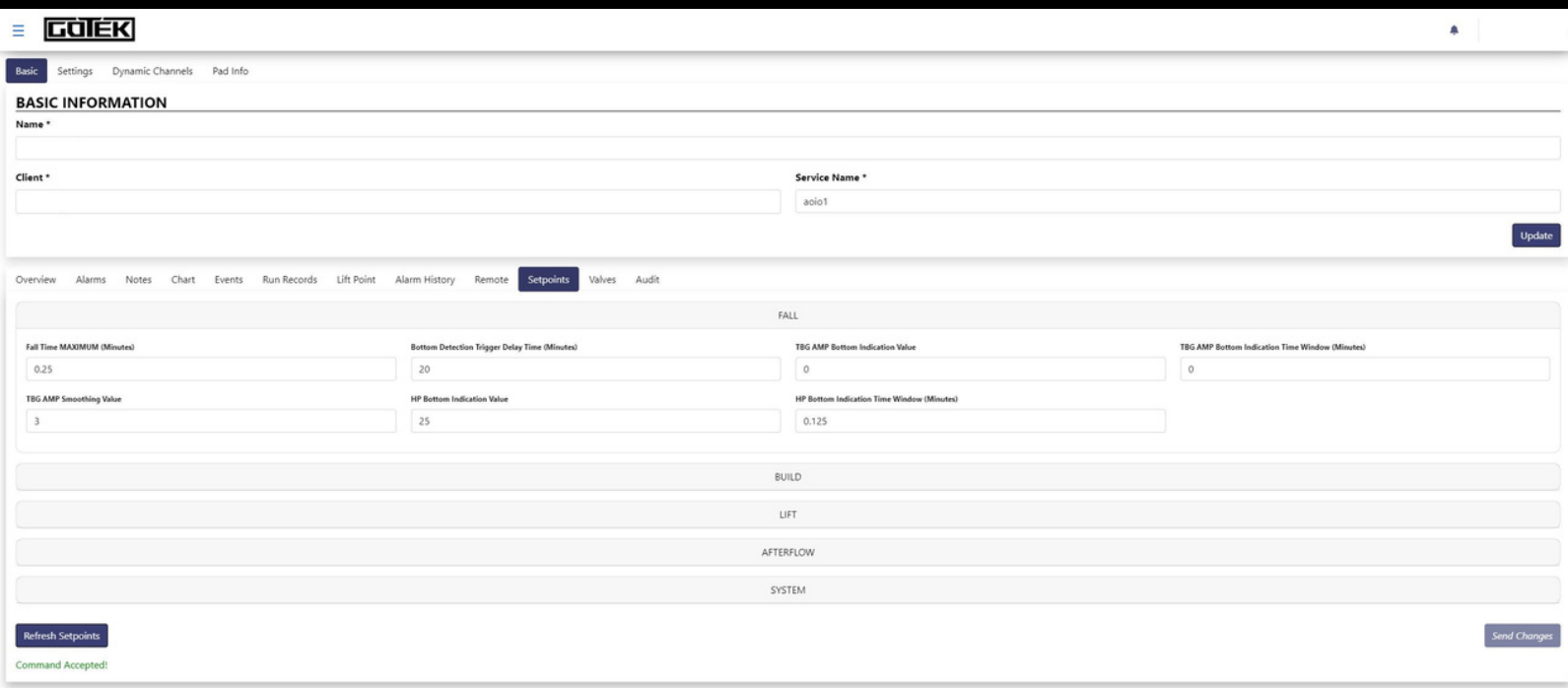
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Remote Control/Set Points



- Remote control allows manual shut-in and activation from anywhere



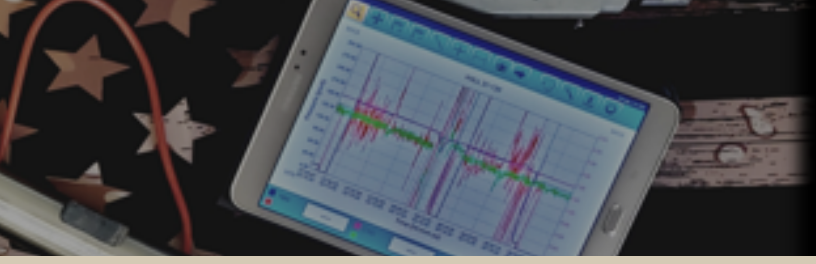
- The setpoints page allows you to dictate a starting point for the AI algorithm
- Full control of all plunger cycles: Fall, Build, Rise, Afterflow
- Input safety parameters for auto-shut ins based off line pressures or high velocity arrivals



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IDAC GAPL Conversion Case Study

WELL #1:

PRE-INSTALL

- 480 mcf gross / 350 mcf injection / 130 mcf net gas production
- Oil production 30 bbls per day

POST-INSTALL

- 280 mcf gross / 60 mcf injection / 220 mcf net production
- Oil production 33 bbls per day

Estimated GAINS

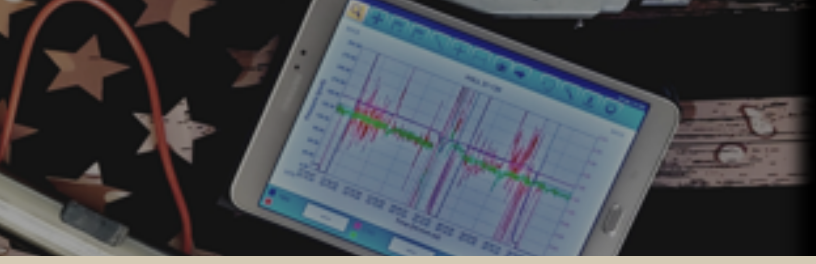
- Oil – 3 BBL per day (\$70/bbl) /\$6,300
- Gas – 90 mcf per day (\$5/mcf) / \$13,500
- Buy Back – 290 mcf reduction (\$1.00) / \$8,700
- \$28,500/month



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IDAC GAPL Conversion Case Study Continued

WELL #2:

PRE-INSTALL

- 400 mcf gross / 350 mcf injection / 50 mcf net gas production
- Oil production 18 bbls per day

POST-INSTALL

- 220 mcf gross / 40 mcf injection / 180 mcf net production
- Oil production 26 bbls per day

Estimated GAINS

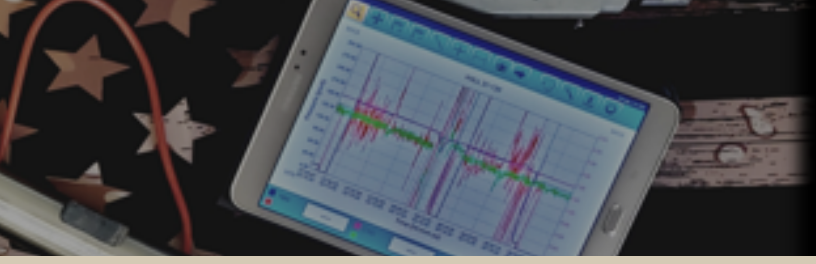
- Oil – 8 BBL per day (\$70/bbl) / \$16,800
- Gas – 180 mcf per day (\$5.00/mcf) / \$27,000
- Buy Back – 310 mcf reduction (\$1) / \$9,300
- \$53,100/month



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IDAC GAPL Conversion Case Study Continued

WELL #3:

PRE-INSTALL

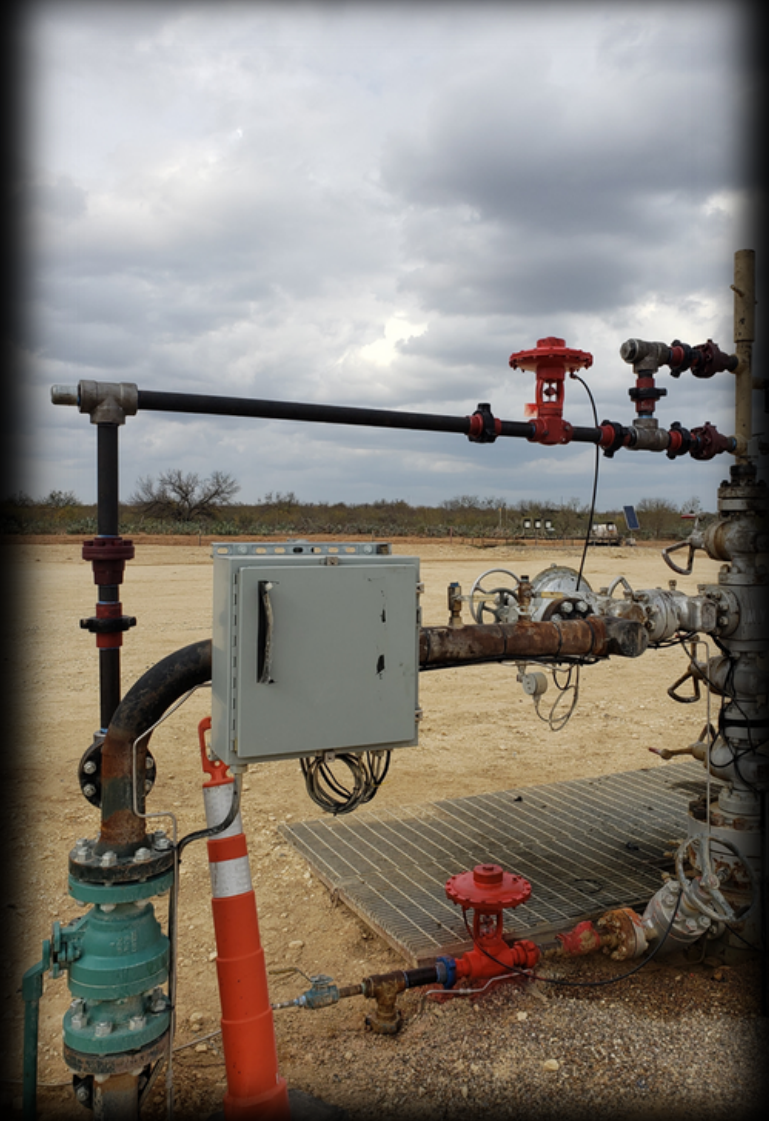
- 550 mcf gross / 350 mcf injection / 200 mcf net gas production
- Oil production 22 bbls per day

POST-INSTALL

- 310 mcf gross / 40 mcf injection / 270 mcf net production
- Oil production 39 bbls per day

Estimated GAINS

- Oil – 17 BBL per day (\$70/bbl) / \$35,700
- Gas – 270 mcf per day (\$5.00/mcf) / \$40,500
- Buy Back – 310 mcf reduction (\$1) / \$9,300
- \$85,500/month



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