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.
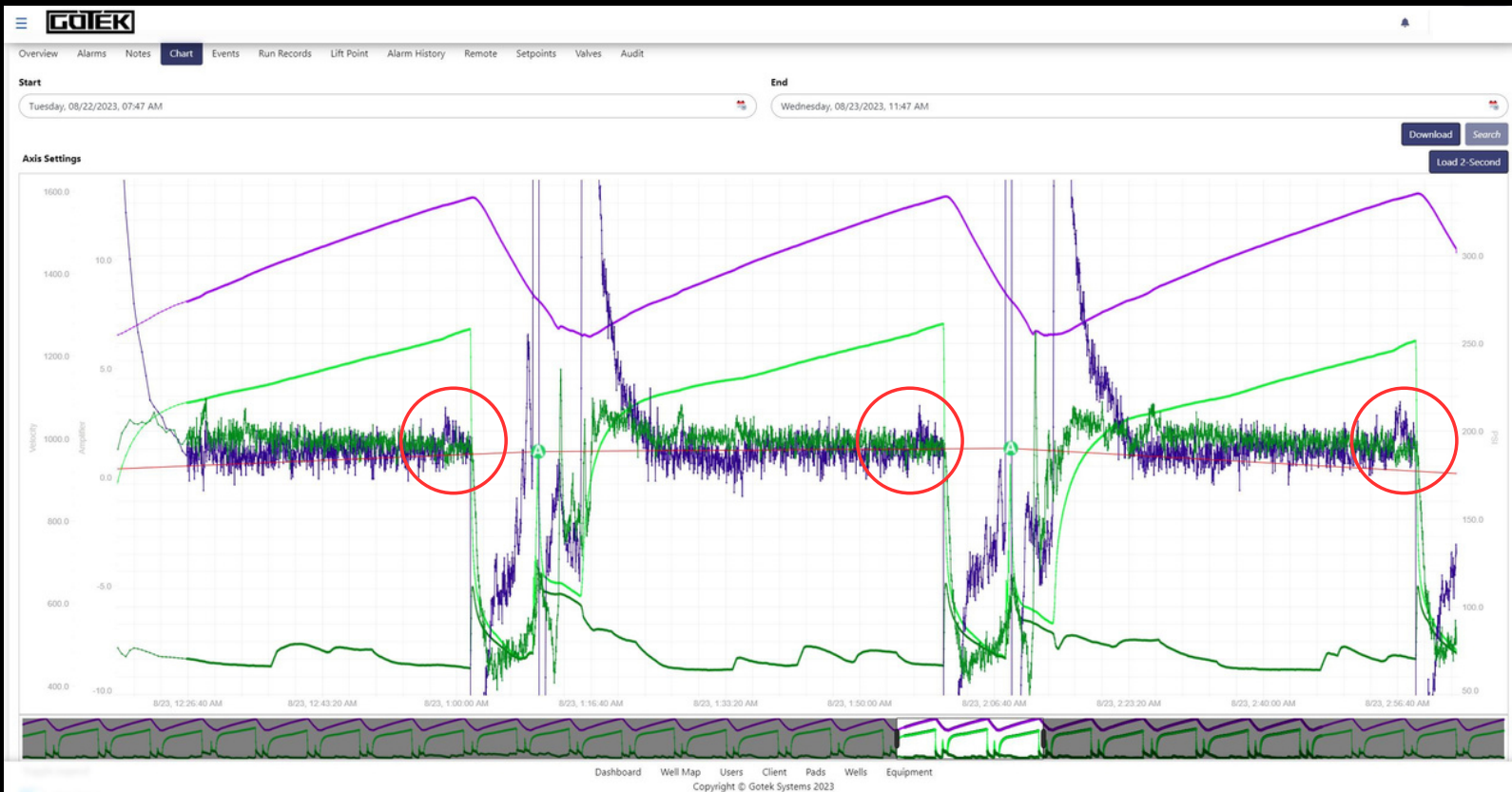

📞 435-994-9800   ✉ www.goteksystems.com

The Dashboard:
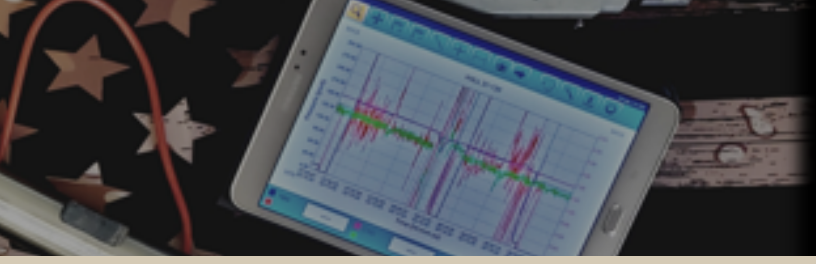## Advanced AI Optimizing Plunger Lift Software

GOTEK

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

Start
Tuesday, 08/22/2023, 07:47 AM

End
Wednesday, 08/23/2023, 11:47 AM

Download Search

Axis Settings

Load 2-Second

Dashboard Well Map Users Client Pads Wells Equipment
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- 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
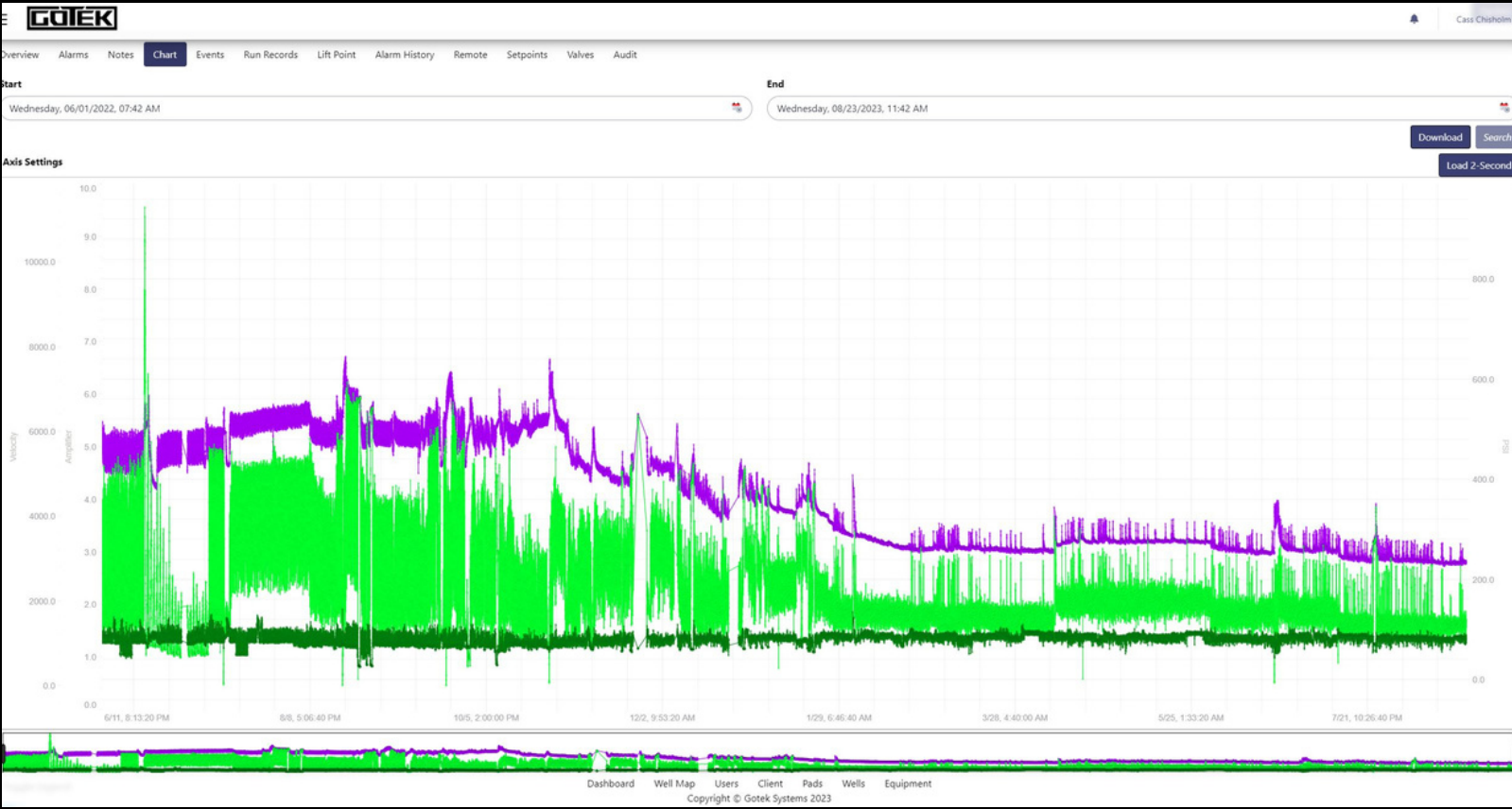- Complete history of all run records

The Dashboard:
Effective Casing Pressure Draw Down

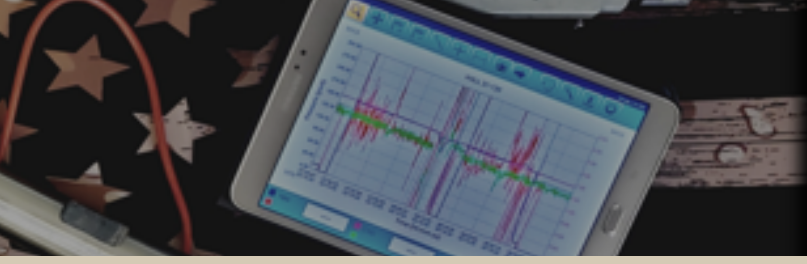- Our optimization program targets the max production at the lowest flowing bottom hole pressure
- Intermitting gas injection is available when running GAPL. This ensures you do not over inject into your formation
- The program detects when a plunger stall and injects the necessary rate in order for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

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Critical Well Filtering

- 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

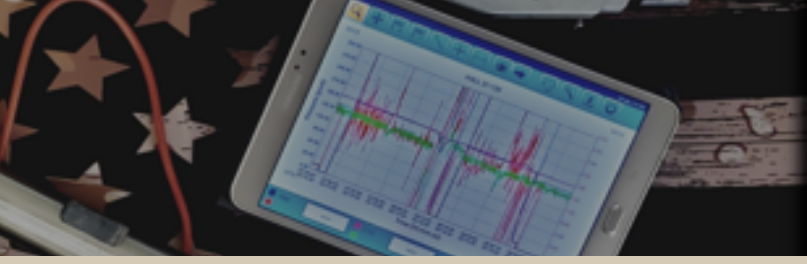435-994-9800   www.goteksystems.com

Well Overview

- 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
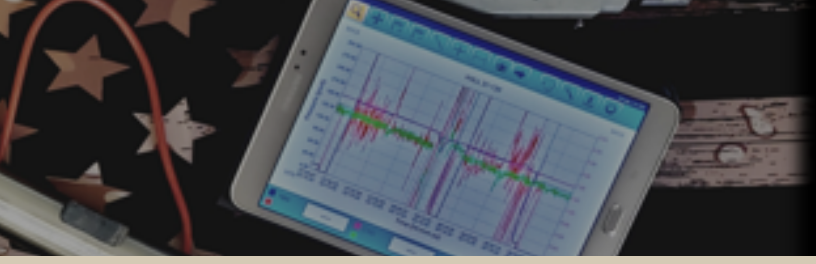
Run Records

- 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
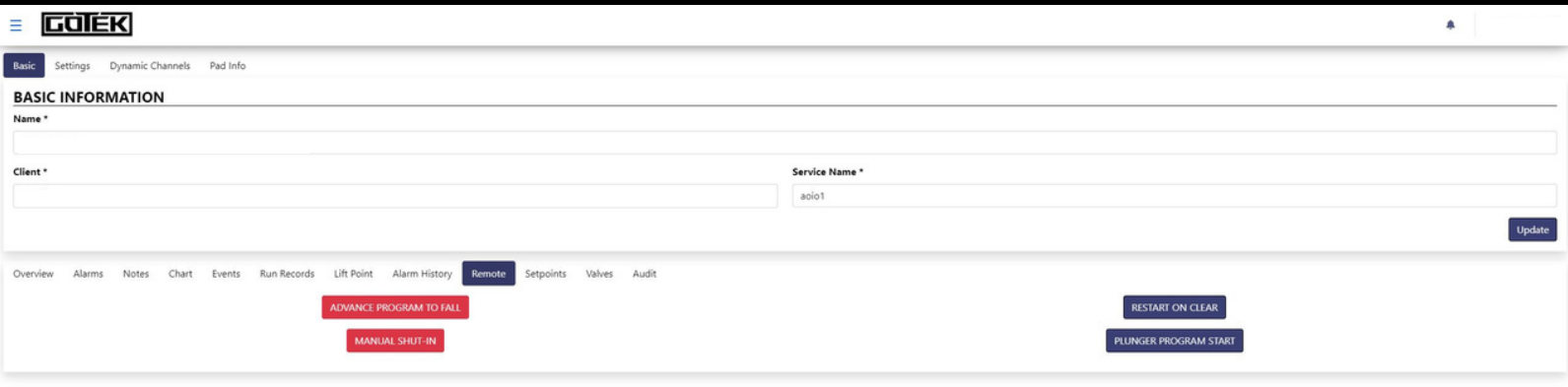- Rise and fall velocities are logged when EOT is put into system

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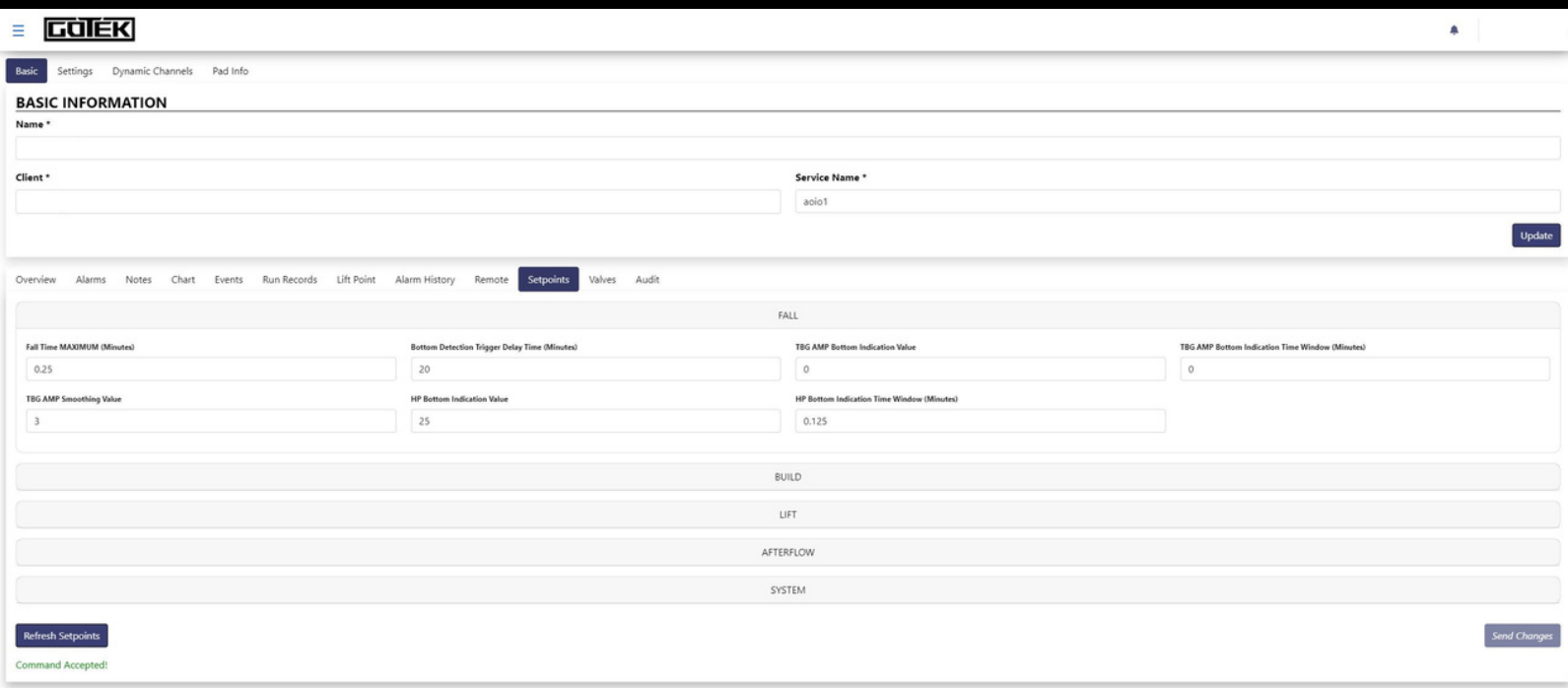
Remote Control/Set Points

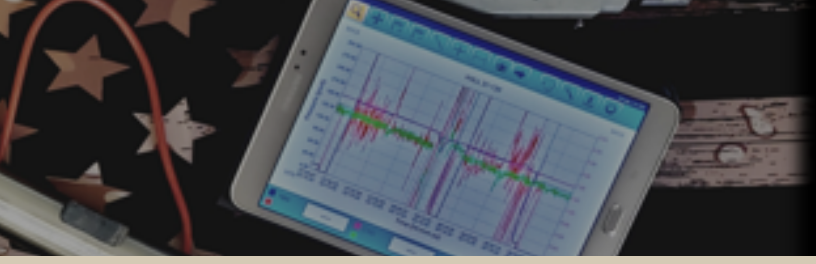- Remote control allows manual shut-in and activation from anywhere

- 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
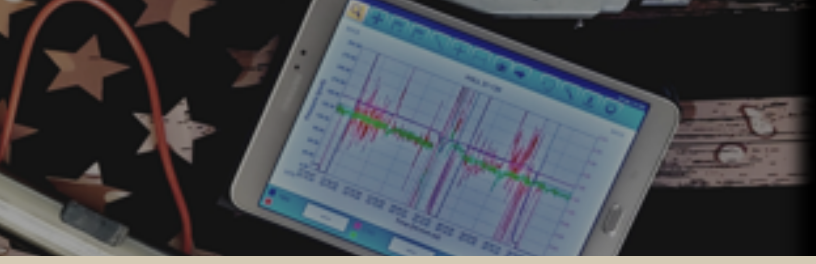- Oil production 33 bbls per day

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

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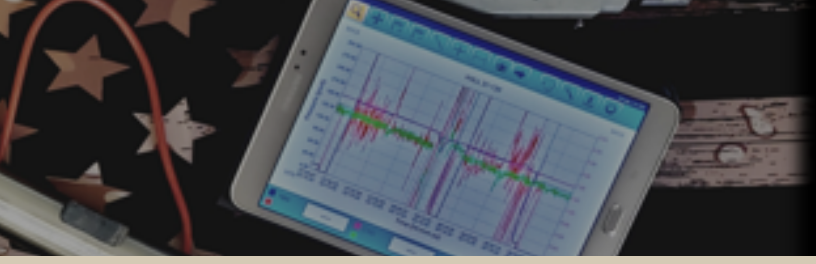
Estimated GAINS
- Oil – 8 BBL per day ($70/bbl) / $16,800
- Gas – 180 mcf per day ($5.00/mcf) / $27,000
- Buy Back – 310 mcf reduction ($1) / $9,300
- $53,100/month

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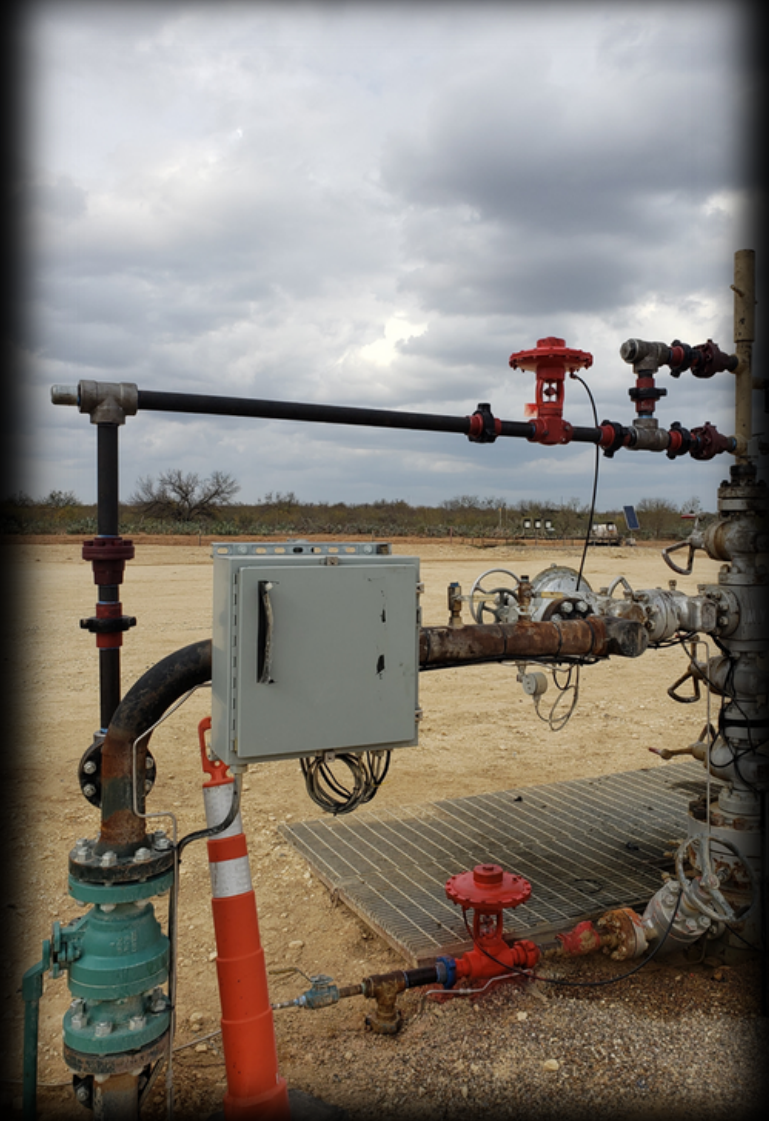# IDAC GAPL Conversion Case Study Continued

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