

# AutoWellz

Integrated Software For Digitalizing Oil and Gas Process Workflows

## Process Mapping



AutoWellz is an oil and gas industry software application patented for facilitating **workflow of procedure making and reporting** with **advance analytics** of engineering parameters & utilized resources during the operations.

The application, for any operator/contractor aims in

Delivering Complete Digital Platform for Data Analytics and Optimization

Establishing **data driven workflow** to count each value recorded and utilized

**Increasing efficiency** by capturing lessons learned, downtime analysis and planned vs actual comparison

Developing State of Art analysis to prepare **program and reports instantly**

Transforming the entire working to an **intelligent digital set-up**

# Current Challenges/Gaps in Oil & Gas Industry

Not a complete optimization of Man-power efficiency

- Time consumption in preparing end of job reports
- No unitized platform for program making, report submission and analysis
- Gaps in incorporating lessons learned database

Challenges in Analysis of planned v/s actual execution

- No Time and cost analysis – up to level of resource usage
- Downtime analysis
- Performance tracking of sub-contractors
- Analysis of multiple wells and projects on a single dashboard
- Graphical and chart visualizations of both planned and actual resources / parameters

## Potential Value Creation

An indirect loss which never went accounted for ....a potential value loss

Considering man-power efficiency and data analytics in same platform, AutoWellz ensures to provide a value creation of **~2.0 MM USD/annum** to any global organization

Let Autowellz save these man-hours for your organization and let your team concentrate on Operations Efficiency and Production Enhancement



# Features

## Business Process Management System for Drilling, Production, Reservoir and Facility Management

### Integrated and Automated Workflow

Prepare program, report operational update and generate analysis instantly in same portal.

#### Program Generation

- ⬡ **Steps of program** written, generated and submitted in same application
- ⬡ Inclusion of attachments and tables during program writing
- ⬡ **Approvals** as per workflow
- ⬡ Incorporates time and cost estimates including list of parameters and inventories estimated in each step
- ⬡ Inclusion of data driven inputs minimizes manual errors

#### Reporting

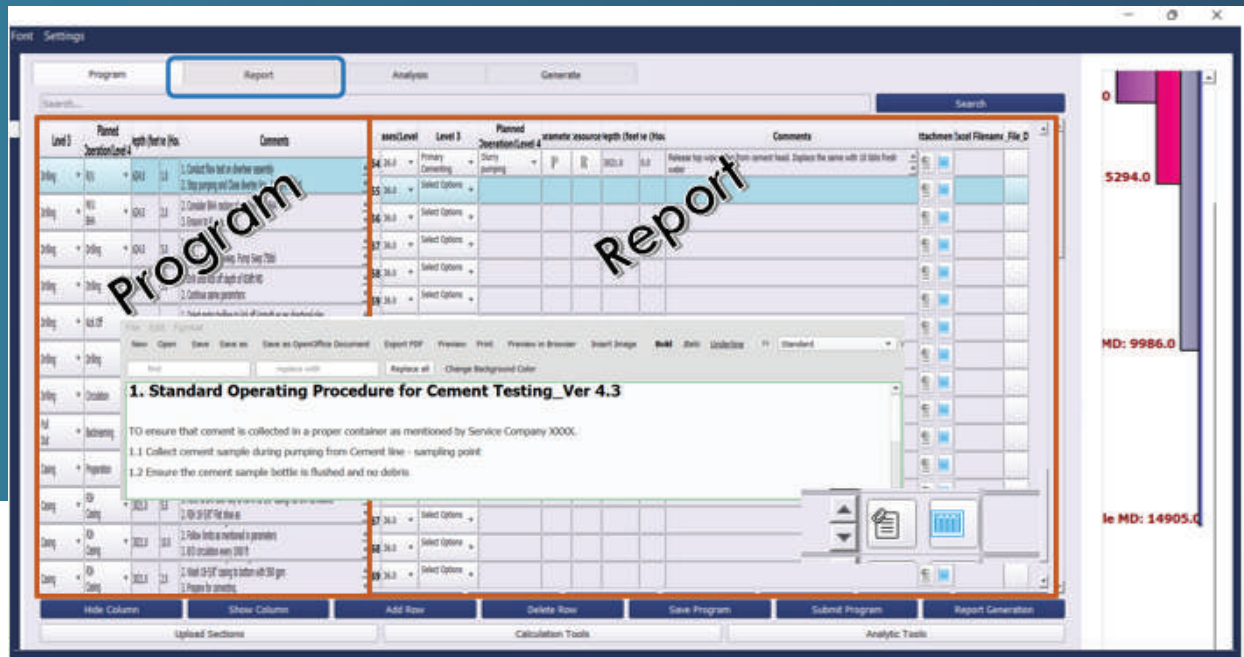
- ⬡ Side By Side program reference enables to create error free reports
- ⬡ **Daily or time based or phase based report** generation with estimated – actual time, cost and inventory analysis
- ⬡ Ability to include parameters and resources in digital format helps to track and analyse efficiently
- ⬡ Automated Tracking of non productive time & efficient time management with Lessons Learned

#### Analysis

- ⬡ One click analysis to generate interactive dashboards
- ⬡ Advance Algorithm to generate **End of Well reports in few clicks without manual intervention**
- ⬡ Ability to generate multiple wells and multiple fields data analytics within few minutes
- ⬡ **NPT, lessons learned, POB**, all automated in a single portal
- ⬡ **Track Project Timeline & Costing**

# Side by Side Program and Report interface

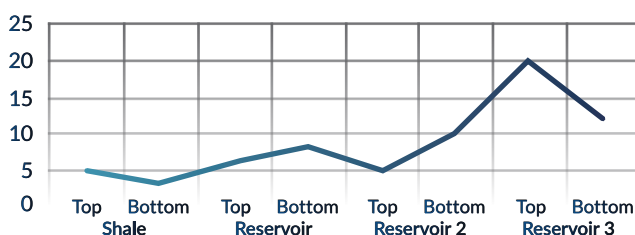
- How to ensure not to miss any procedure during execution and avoid manual errors.
- User will get liberty of active program while reporting, so that execution steps are not missed.



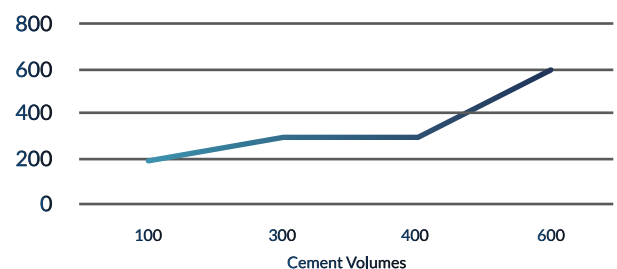
## Instant analysis and compilation of parameters and resources

Entire Parameters and Resources used in a event can be compiled and analyzed using interactive plots. In just a few clicks, the user can obtain any interactive plots of parameters like pump rates, flow rates, ROP, etc. and resources like volumes consumed, personnel, etc. against depth, time or any other parameter.

Average Torque



Cost



# Program generation and tracking

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- Autowellz provide comprehensive integrated solution to Engineering Team, Field Professionals & Management.
- Engineering team can easily generate the error free Program within few clicks.
- Management easily can access and analyze all the information provided by engineering and field supervisors and also track the status of program generation. Multiple disciplines can use same portal to include steps and attachments.



## Interactive Operations Reports

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User can generate interactive & informative daily reports with very minimum efforts. Customized report generation on basis of phases, mangement, third party, etc.

The report generated has unique features such as :-

- Parameter & Consumed Resources analysis at each depth & time
- Interactive graphs and charts for visualization
- NPT Tracking in form of Red Hours



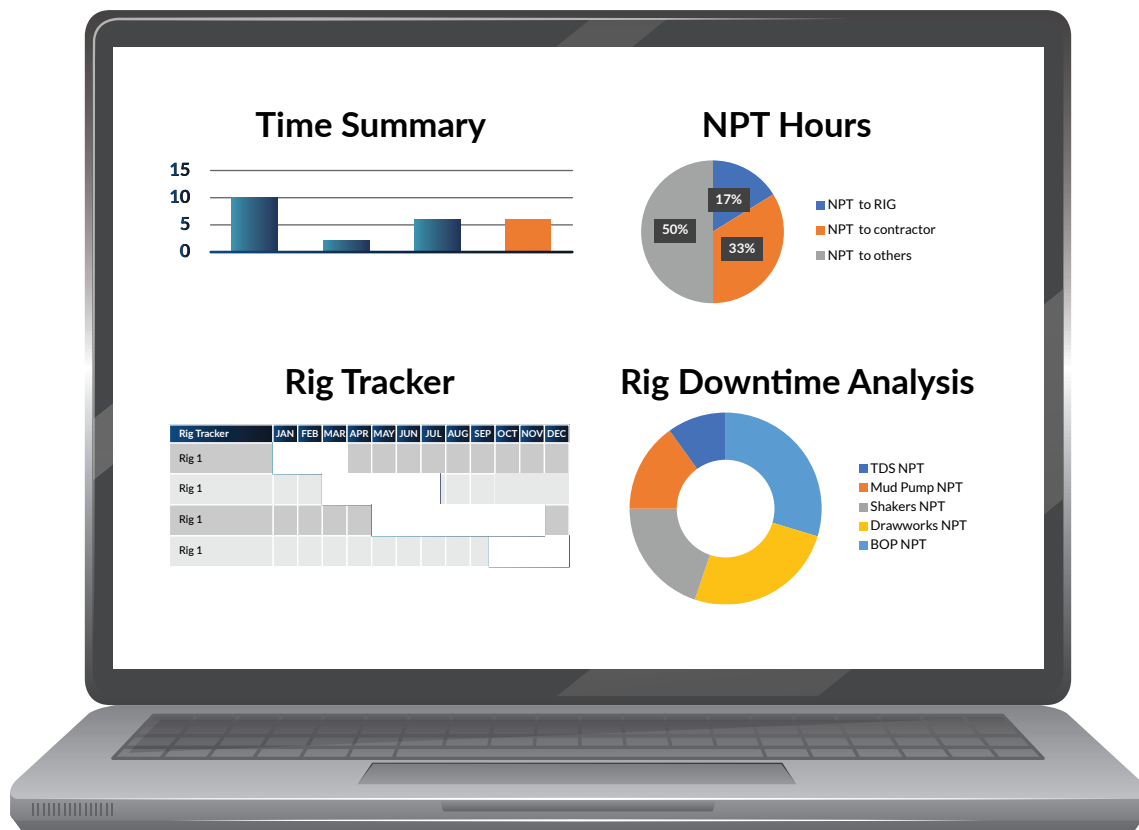
# Readily Availability of Complex Calculations

Calculation Toolbox for engineering calculations like well control, production, etc. This feature will definitely going to reduce the dependency on scattered spreadsheets. Thus user can save time, efforts, resources & increase lot of efficiency.

## Customized Dashboards

To increase operational efficiency and productivity , Autowellz provide additional feature of Customized dashboards.

- **Management:** Tracking process workflow, project based time v/s cost analysis or inventory deficit/excess tracking
- **Engineering Team:** Trends of previous wells, similar parameter behaviour in last wells production data for a particular formation, ROP of a particular bit in last x-wells, etc.
- **Field Supervisor:** NPT issues, Lessons Learned, Time saving descriptions on a particular task





## Inventory & Cost Management

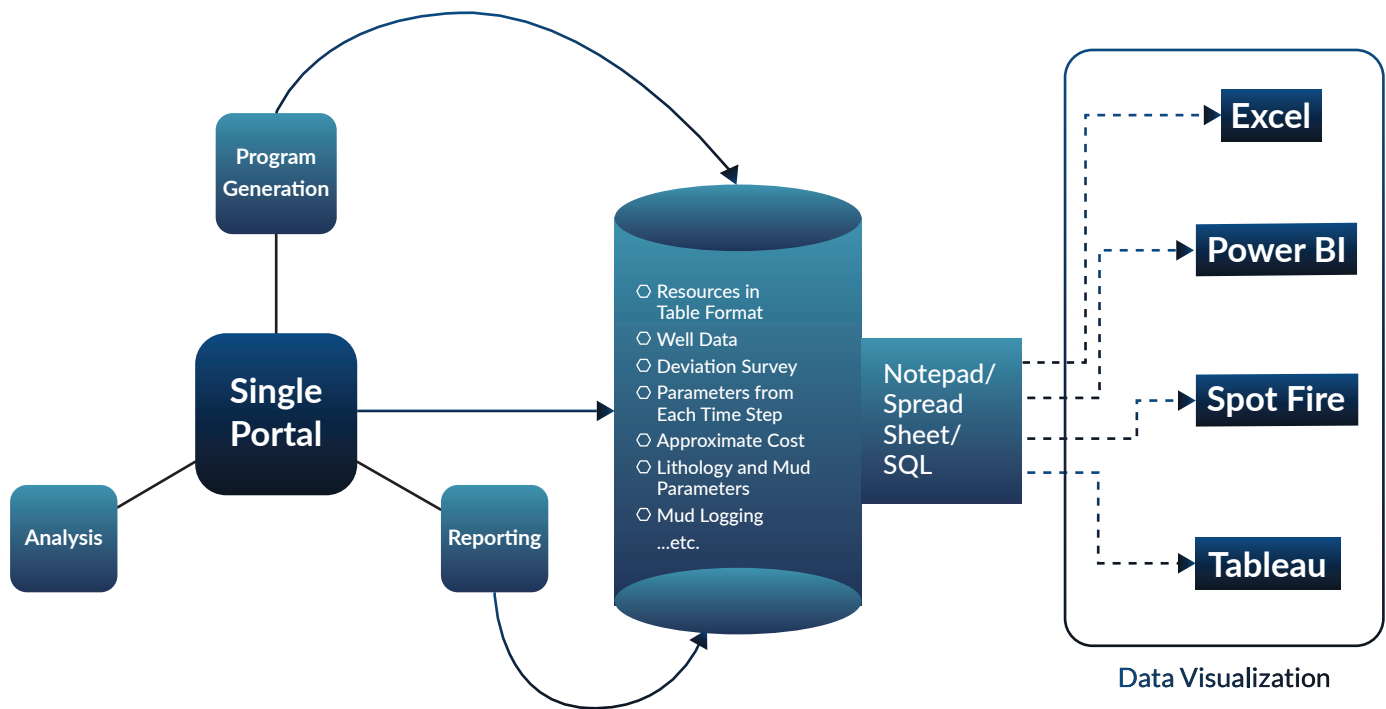
Client can keep the track of consumables and costing for every event .This enables user to optimize and reduce the operational Cost.

**User can easily keep the track of Consumables/Resources:**

- Diesel, mud supplies and other inventory
- Hardware tools and tangibles
- Drilling fluids and cement additives used in well
- Personnel and their costing

## Complete Data Base & Data Analytics Under One Umbrella

Facility of attaching documents, tables, pictures like logs, gauge data, BHA & other files during program making and reporting. This enables the entire well database handy and readily available under one platform. Further, the collated data can be transferred to various data analysis platform for enhanced optimization.



## Advanced NPT Analysis & Lessons Learned

An automated output of non-productive time and lessons learned can be displayed. An advance and user friendly analysis of downtime and lessons learned enables in optimizing future operations and designing of wells, operations, etc.

## Standard Operating Procedures

Application supports a separate feature of modifying and usage of standard operating procedures of an organization

This allows the standardization of all procedures and the creation of an automated system that reduces human error and effort.



# Benefits to End User

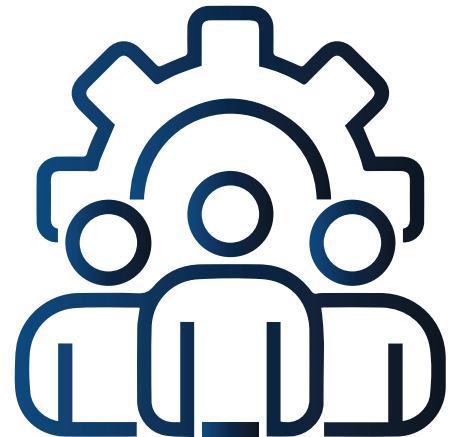


## Management

- Increase efficiency
- Track Project Progress
- Costing Analysis for each well
- Downtime analysis for each operation with root cause analysis
- Planned v/s Actual Analysis
- Planning and tracking surveys
- Increasing manpower efficiency of Team
- Save time to go through the entire Process

## Engineering Team

- No challenge in searching data or attachments
- Integrated Platform for program, report & analysis
- Increase efficiency with reduced man-power
- Automated checks to generate quick & error-free reports
- Data visualization dashboards to analyse data
- Advance NPT Analysis & Lessons Learned to reduce downtime and optimize future operations



## Field Team

- Track planned v/s actual events
- Automated check to generate robust report
- Work offline while in remote location
- Detailed operational related calculation to save time
- Create game plan & specialized instructions in same portal
- Check-list to monitor operations
- Ability to include new lessons learned with ease

# Customize Add-On Features

Don't let your imaginations and wishes for a perfect programming, reporting and analysis stop due to limitations of the application....

Our team of software developers brings any / every logic within the globe at your desktop....

- Interface with Data Analytics software
- Saving and interpreting production data with trends and analysis
- Reservoir interpretation and formation based production and decline curve analysis
- Inventory Management
- Drilling, Production and Intervention Calculations
- Handy Calculations like well control, flow rate determination, choke value, mass balance, etc.
- 7-day or 15-day Forward Plan

.....and more continuing at your desktop...

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