



E&P Data Management

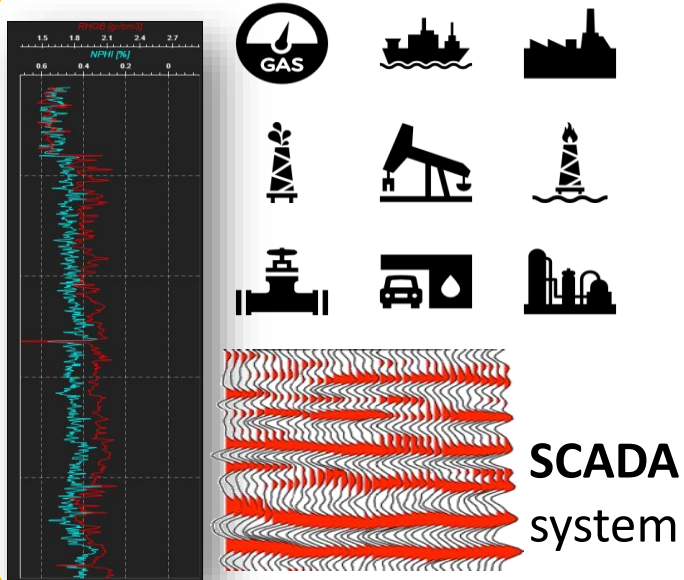
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HOPE SOLUTION

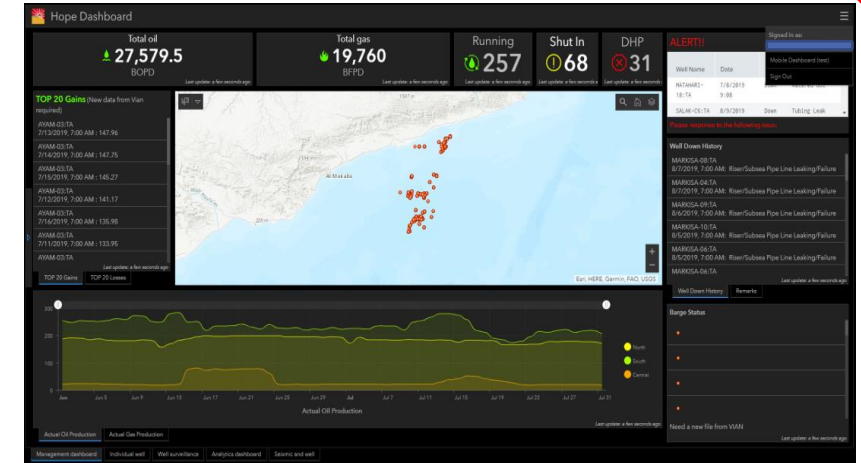
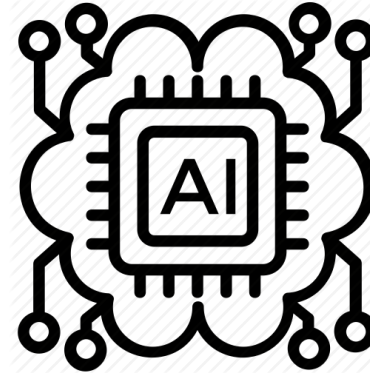
- ▶ Integrates data from various sources
- ▶ Visualize the key information in dashboards for decision makers
- ▶ Live monitoring and alerting for production performance
- ▶ Reporting System

Cycle

BIG DATA



Digital Data Integration (Hope Solution)

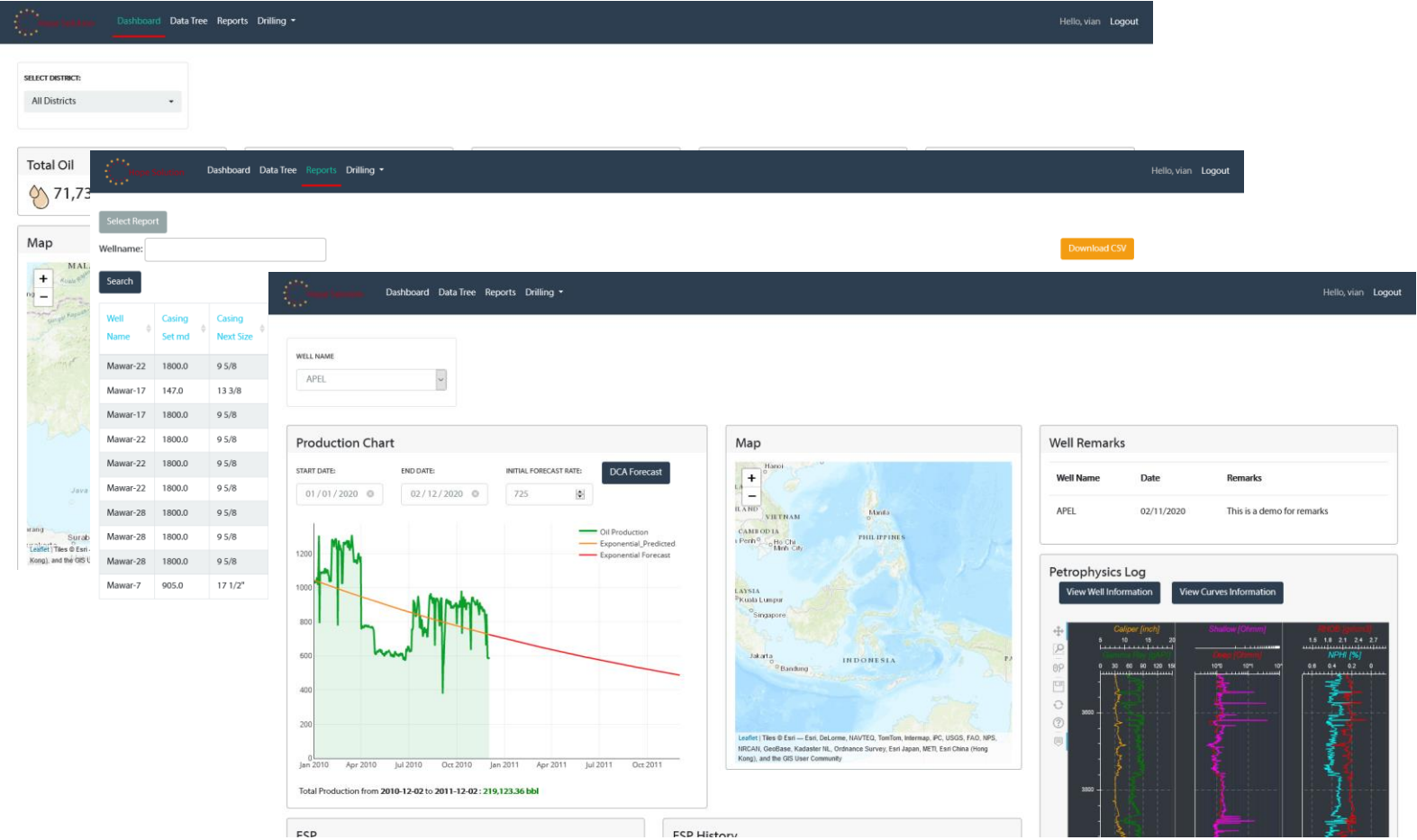


- Data analytics
- Machine learning (i.e. Problem identification, alert system)

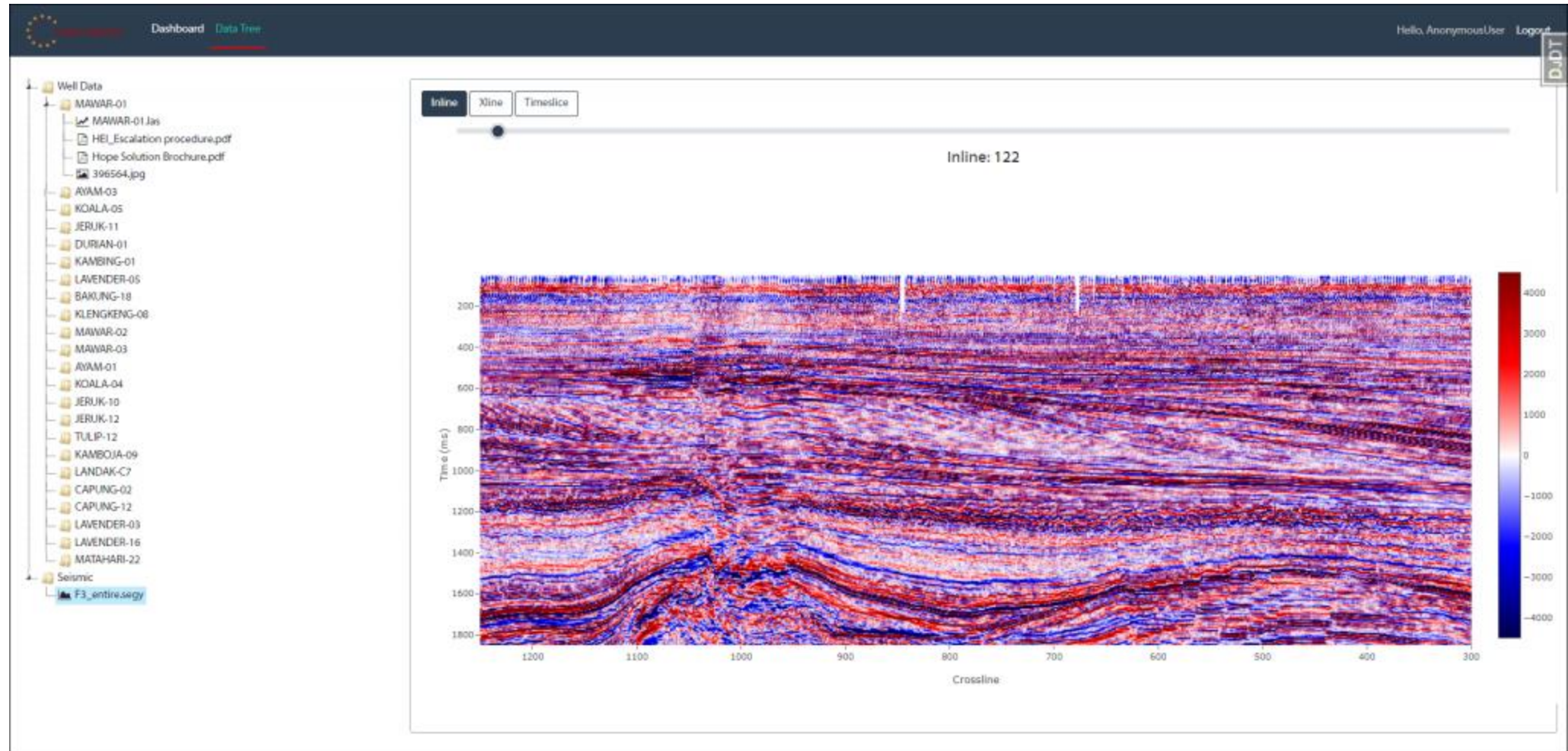
Decision Making Process



Dashboard



Data Viewer



Machine Learning

Production forecasting

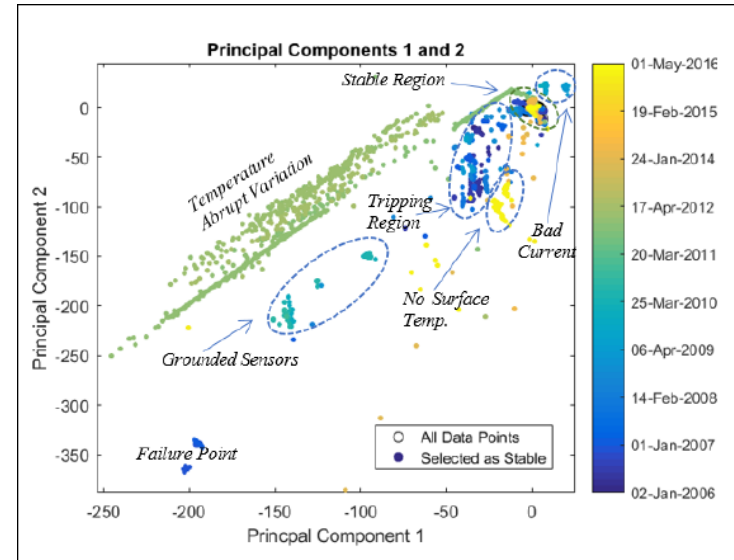
Production Chart



Total Production from 2010-12-02 to 2011-12-02 : 219,123.36 bbl

Production forecasting could be done in various ways using machine learning technique. i.e. DCA, Neural Network, etc.

ESP failure prediction



ESP Data Analytics: Predicting Failures for Improved Production Performance (Abdelaziz., et al., 2017)

Alerting System

Edit Alert

Settings

Alerttest1

DescriptionOptional

Alert type

Scheduled

Real-time

Expires

24

hour(s)

Trigger Conditions

Trigger alert when

Per-Result


Throttle?☐

Trigger Actions

+ Add Actions

When triggered

▼


 Add to Triggered Alerts

Remove

Severity

Medium

>

 Send email

Remove

Cancel

Save

Results

Hope Alert


to praviandy, reza.ramadhan, me

The alert condition for 'Decrease in Oil Production' was triggered.
Link to analyze the problem: http://LAPTOP-SU20997O.8000/en-GB/app/Splunk_ML_Toolkit/production_outlier_test/edit?form.timetok2.earliest=1563235200&form.timetok2.latest=1563840000
Link to Management Dashboard: <https://www.arcgis.com/apps/opsdashboard/index.html#/81d2146975a04495b0ea1c2c772a34a0>


_time	Oil Production	delta
Fri Jul 12 00:00:00 2019	473.35	
Sat Jul 13 00:00:00 2019	492.59	19.24
Sun Jul 14 00:00:00 2019	500.36	7.77
Mon Jul 15 00:00:00 2019	492.15	-8.21
Tue Jul 16 00:00:00 2019	492.04	-0.11
Wed Jul 17 00:00:00 2019	452.21	-39.83
Thu Jul 18 00:00:00 2019	433.41	-18.80
Fri Jul 19 00:00:00 2019	407.73	-25.68
Sat Jul 20 00:00:00 2019	381.37	-26.36
Sun Jul 21 00:00:00 2019	367.04	-14.33

If you believe you've received this email in error, please contact your Data Management Administrator.

2 Attachments



unknown-2019-10-...



unknown-2019-10-...

Reporting System

Hope Solution

DashboardData TreeReportsDrilling

Hello, vianLogout

Select Report

Wellname:

Search

Well Name	Bitnumber	Bitsize	Bitrun	Manufacturer	Model	ladc code	Jets
Mawar-17	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-17	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-17	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-16	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-16	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-17	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-17	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-16	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-16	1	17-1/2	—	—	TCB	137	3x22, 1x12
Mawar-19	1	17-1/2	—	—	TCB	137	3x22, 1x12

Reports

Production Reports

- Production
- Well Status

Drilling Reports

- BHA
- BHA Assembly
- BHA Bitrecord
- Directional Drilling
- Drilling General Data
- HSE
- Header
- Mud Bulk Material
- Mud Hydraulic
- Mud Information
- Operation
- Pumps
- Weather

Select

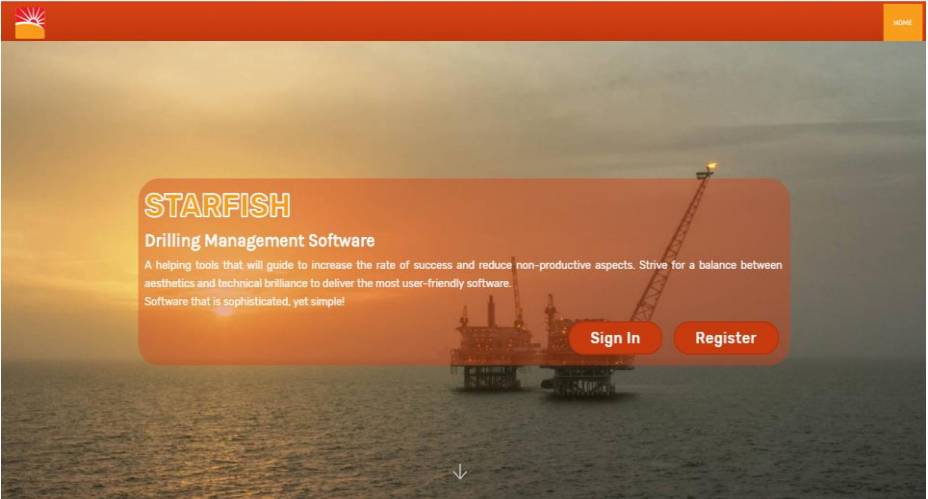
Download CSV

Dullgrade	Datetime
—	12/19/2019 5 p.m.
—	12/19/2019 5 p.m.
—	12/20/2019 5 p.m.
—	08/17/2019 5 p.m.
—	08/18/2019 5 p.m.
—	12/19/2019 5 p.m.
—	12/20/2019 5 p.m.
—	08/17/2019 5 p.m.
—	08/18/2019 5 p.m.
—	12/21/2019 5 p.m.

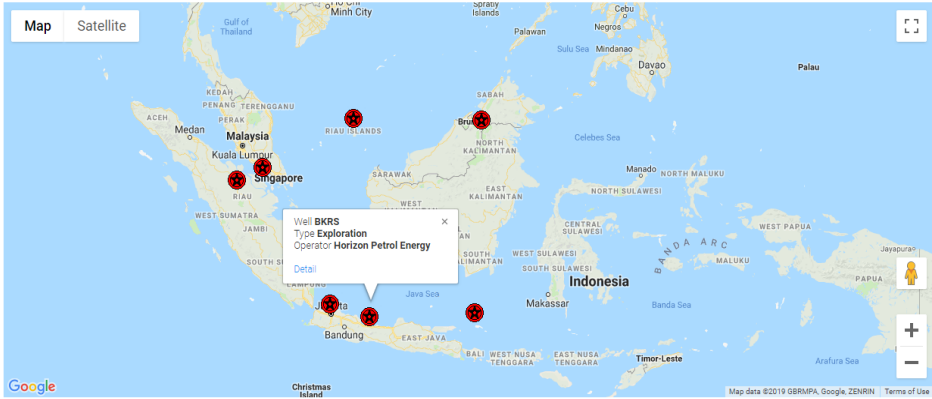
OTHER PORTFOLIO

**Several other portfolio on the projects I involved
with in PT Horizon Perdana International**

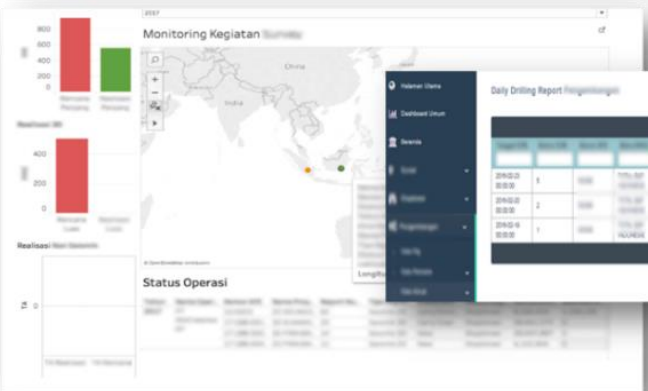
Portfolio



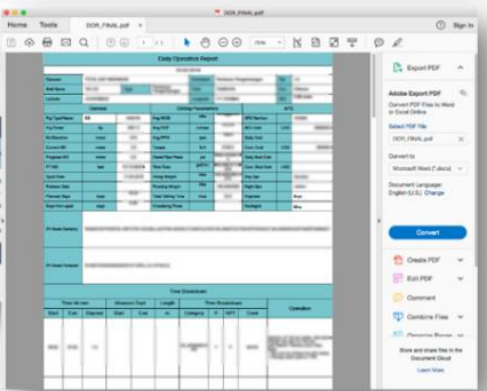
WELL DISTRIBUTION



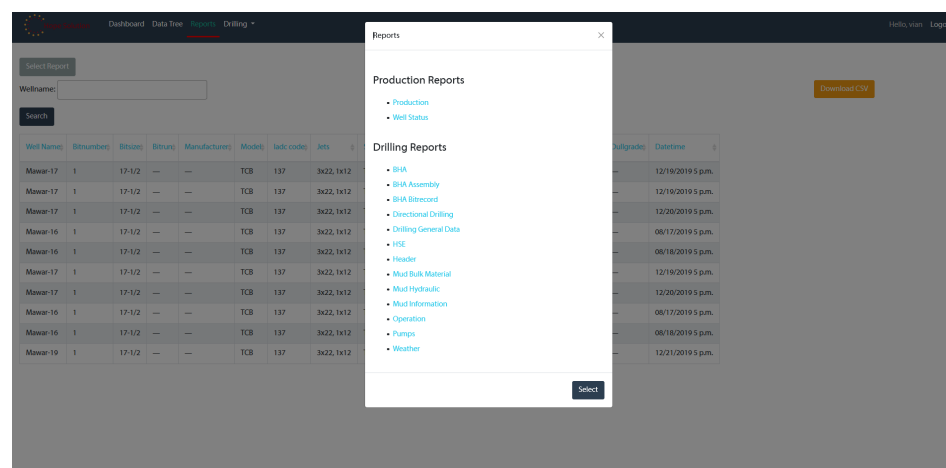
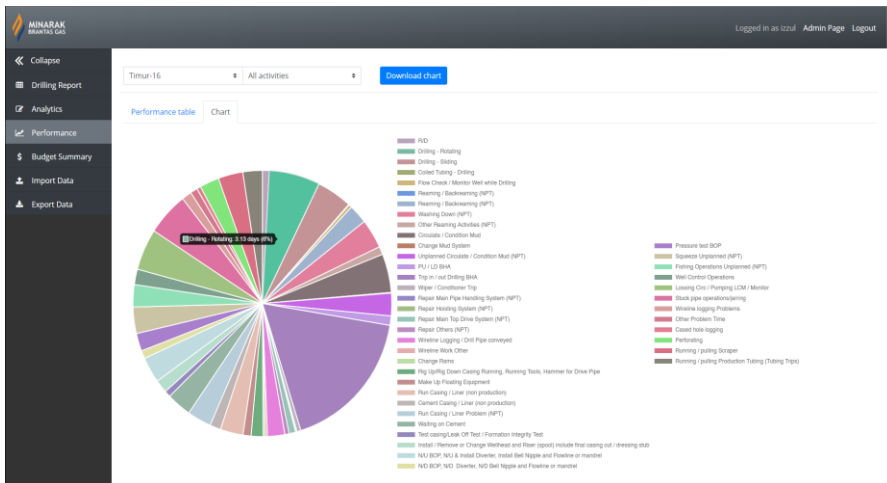
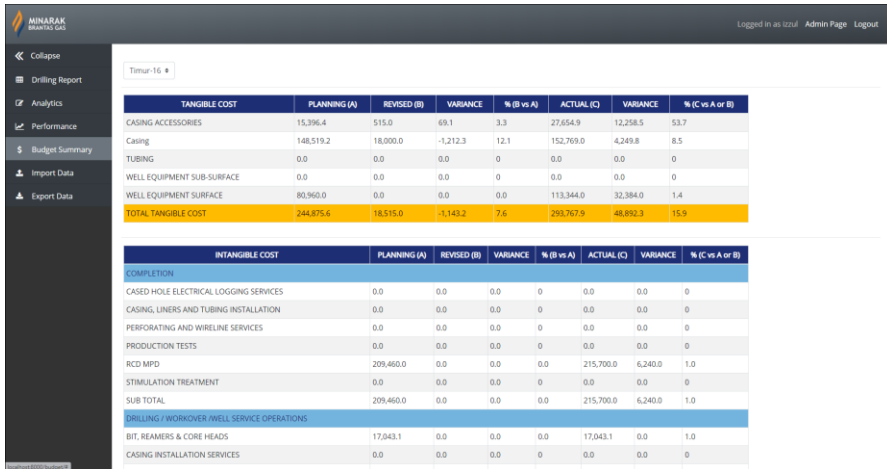
Hello, Ary Handoyo
Welcome back!



This screenshot shows a table of drilling data within the STARFISH software. The table has columns for 'Date', 'Time', 'Location', 'Status', and 'Remarks'. The data is organized into a grid with alternating blue and white rows.



Portfolio



Portfolio

