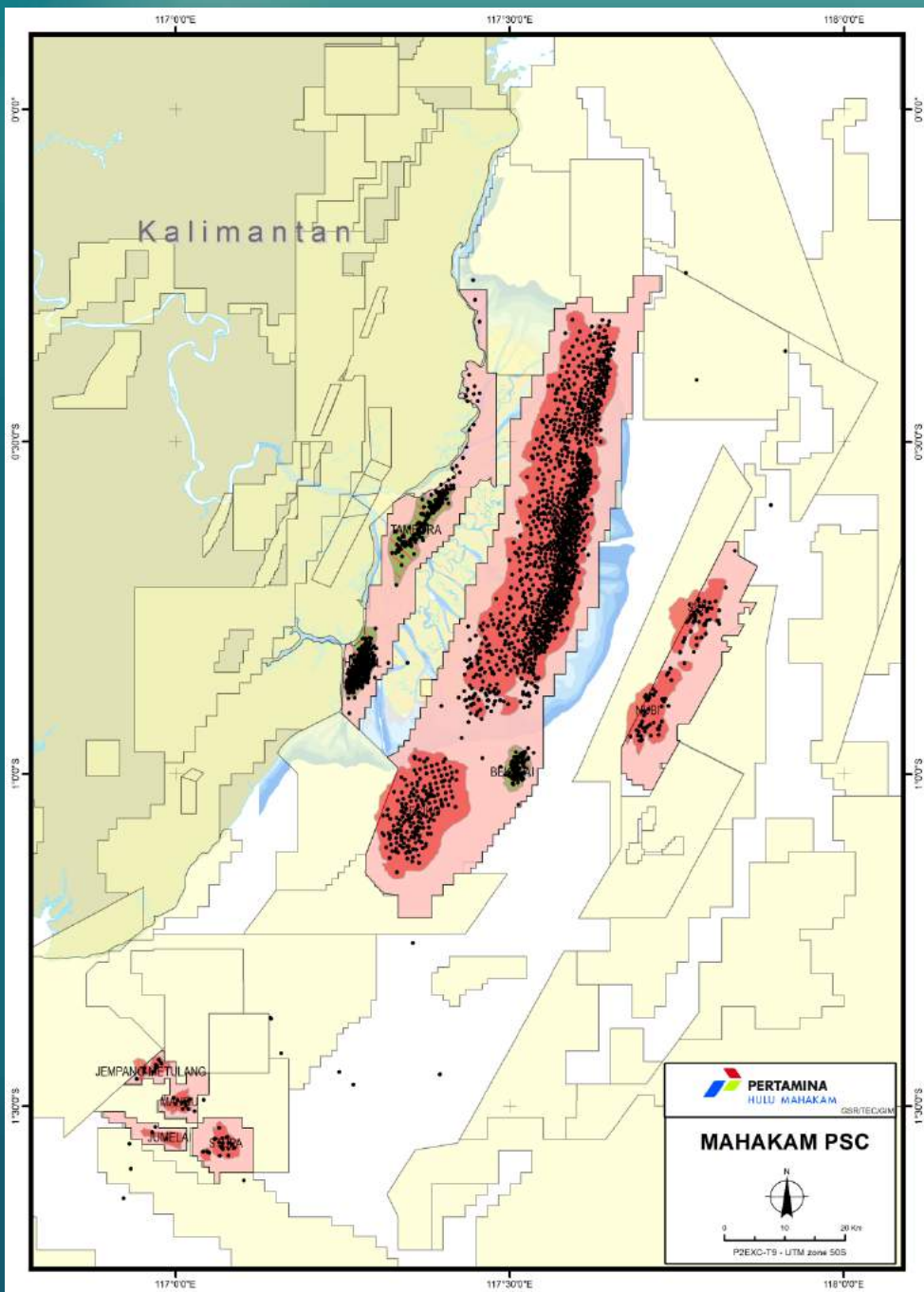


Utilization of web GIS Toolboxes in Geosciences activities

I Made Putra
(GSR/TEC/GIM/GIC)

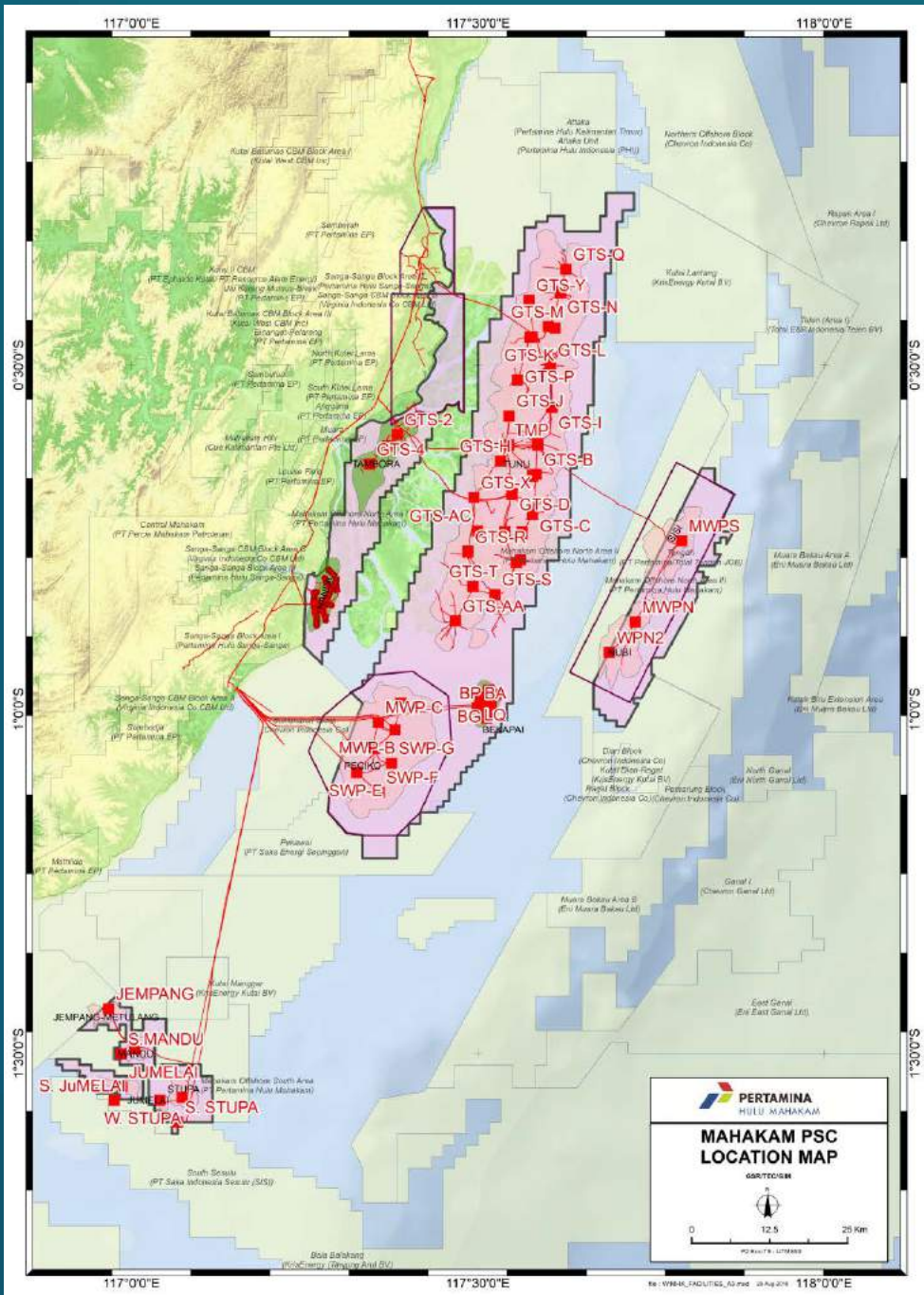


>2,000 wells

>140,000 log items (>2 TB of data)

>50 GB of production data

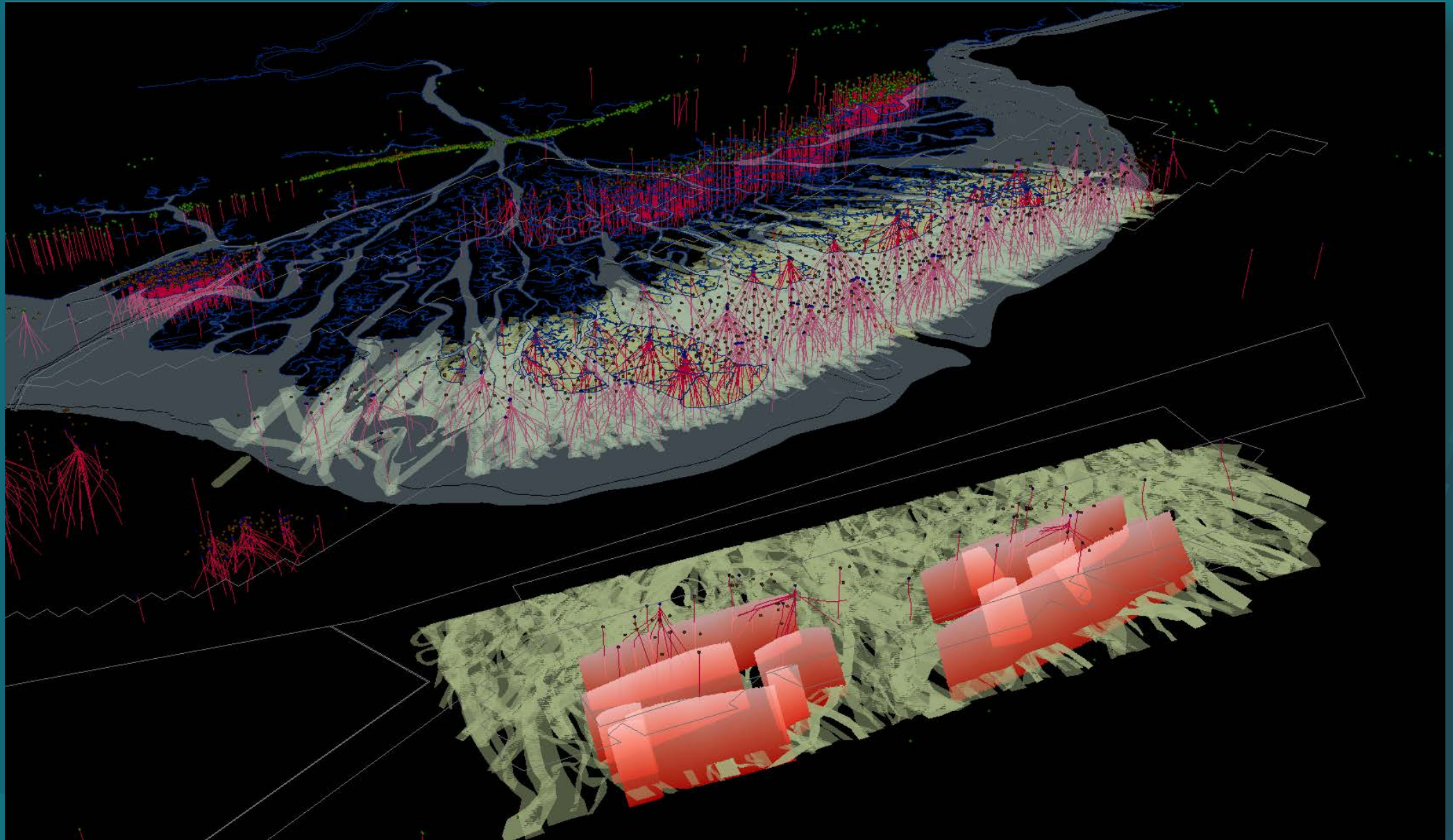
>60,000 reports (>800 GB of data)



Tunu: >1250 Wells
>70 Layers
>500 Channels
>75000 Penetration points

Sisi-Nubi: >100 Wells
>50 Layers
>400 Channels
>3800 Penetration points

Bird-eye perspective

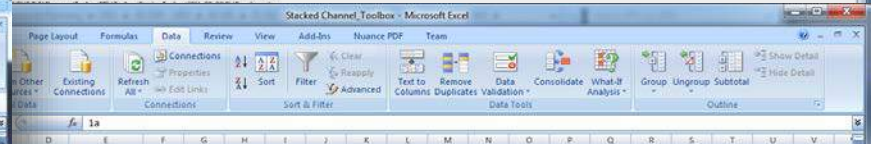
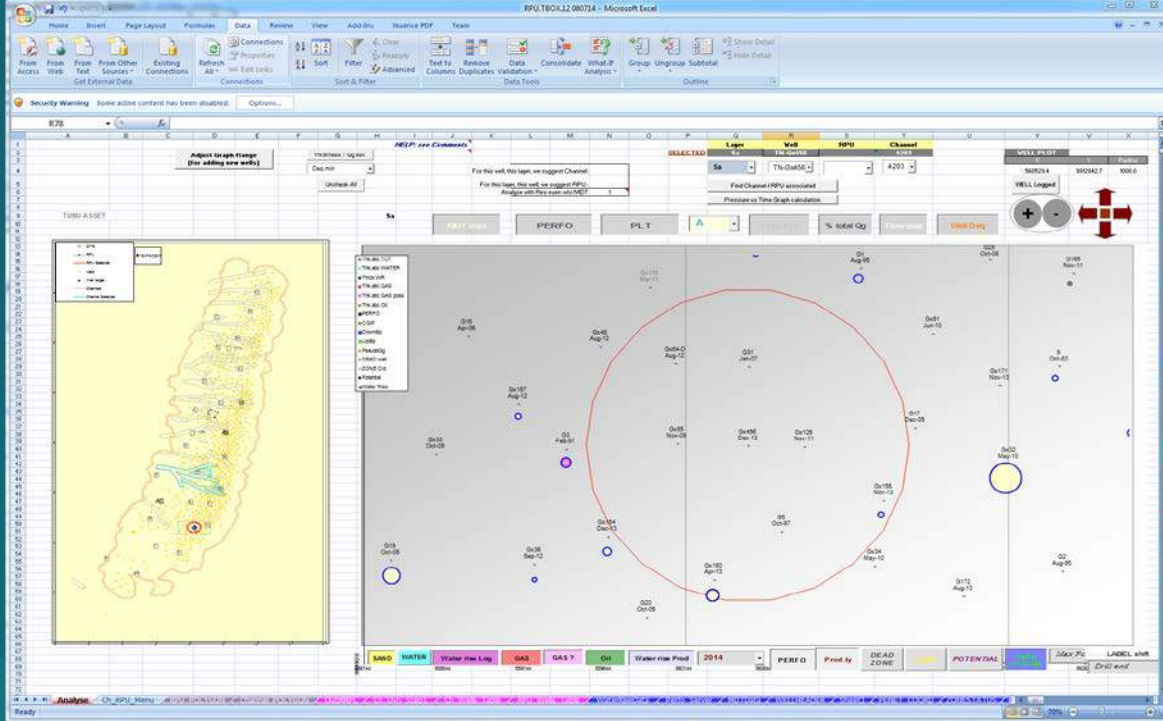


Excel-based solution

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U		
1																							
2																							
3		101	1a			TN-Nx138	TN-Nx57	TN-Nx51	TN-N11	TN-N147	TN-N42	TN-N25	TN-M23	TN-N148	TN-M58	TN-M17	T1TN-M5	TN-M18	TN-M54	TN-M34	TN-Mx		
4		102	1a			TN-Q54	TN-Nx43	TN-N20	TN-Nx39	TN-N22	TN-N9	TN-N7	TN-N41	TN-N17	TN-N7	TN-V14	TN-N22	TN-N2					
5		103	1a			MK-2	TN-Q8	TN-W21	TN-Q5	MK-4-S11	TN-Q7	TN-Q15	TN-Q17	TN-Q18	TN-Q126	TN-Q4	TN-N19	TN-Q20	TN-Q44	TN-Q2			
6		104	1a			TN-R9	TN-G161	TN-R19	TN-G77	TN-G53	TN-Gx111	TN-R20	TN-G6	TN-W12	TN-G15	TN-G8	TN-Gx83	TN-Gx27	TN-19	TN-19	TN-G117	TN-G1	
7		105	1a			TN-W14	TN-AC7	TN-AC6	TN-W2	TN-AC8	TN-E40	TN-E12	TN-E47	TN-E117									
8		106	1a			TN-W21	TN-N5	TN-W5	TN-E14	TN-N	TN-E5-K1	TN-Fx105	TN-Fx478	TN-E4	TN-Fx106	TN-F7	TN-C122	TN-F20	TN-Fx111	TN-Fx19	TN-Fx		
9		107	1a			TN-W15	TN-W13	TN-X16	TN-X11	TN-D22	TN-D7	TN-D1	TN-C129	TN-C136	TN-3	TN-C116	TN-C31	TN-C23	TN-C137	TN-C2			
10		108	1a			TN-H10	TN-W1	TN-W28	TN-H3	TN-O1	TN-H18	TN-D4	TN-D26	TN-D10	TN-Dx54	TN-D5	TN-D3	TN-Dx19	TN-Dx32	TN-Dx20	TN-16	TN-12	
11		109	1a			TN-J2	TN-J30	TN-W20	TN-A57	TN-TMx2	TN-A60	TN-A28-S1T	TN-A28	TN-A55	TN-73	TN-A111	TN-Ax112	TN-18	TN-A36	TN-Ax85	TN-A113	TN-Ax7	
12		110	1a			TN-W6	TN-W6	TN-Q	TN-b40	TN-b6	TN-b20	TN-b36	TN-P63	TN-bx157	TN-b43	TN-30	TN-b	TN-b24	TN-b152	TN-7	TN-b147	TN-b40	
13		111	1a			TN-L159	TN-L73	TN-L21	TN-L30	TN-Lx55	TN-Lx6	TN-LP8	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	TN-Lx6	
14		112	1a			TN-Mx139	TN-M24	TN-M1	TN-GT	TN-Lx161	TN-L28	TN-L72	TN-Lx17	TN-L56	TN-L71	TN-Lx29	TN-Lx46	TN-Lx30	TN-Lx50	TN-Lx33	TN-Lx50	TN-Lx1	
15		113	1a			TN-Q35	TN-Q20	TN-Q1	TN-Q54	TN-Q65	TN-Q65	TN-Qx39	TN-Q1	TN-Q20	TN-Q1	TN-Q20	TN-Q1	TN-Q20	TN-Q1	TN-Q20	TN-Q1	TN-Q20	
16		201	1b			TN-D51	TN-2	TN-B18	TN-Bx123	TN-Bx60	TN-Bx24	TN-B1	TN-B1	TN-ST1	TN-Dx14	TN-V12	TN-V13	TN-D56	TN-B12	TN-B5	TN-Bx132	TN-Bx131	TN-B16
17		202	1b			MK-2	TN-Q31	TN-Q1	TN-Q16	TN-Q17	TN-Q4	TN-V9	TN-Q20	TN-Q44	TN-Q22								
18		203	1b			TN-M17	T1TN-M5	TN-M18	TN-K14	TN-Mx35	TN-M14	TN-M1	TN-M126	TN-Mx63	TN-Mx30	TN-M38	TN-M10-S	TN-Mx132	TN-M44	TN-Mx112	TN-Mx18	TN-Mx5	
19		204	1b			TN-b15	TN-bx129	TN-b40	TN-b6	TN-b36	TN-P63	TN-bx24	TN-J1	TN-J19	TN-J2	TN-W20	TN-TM1						
20		205	1b			TN-W21	TN-W5	TN-E14	TN-E3	TN-E4	TN-C125	TN-Fx23	TN-AC4	TN-Fx143	TN-E24	TN-10	TN-F50	TN-F50	TN-E1	TN-F1	TN-Fx117	TN-F56	
21		206	1b			TN-Lx161	TN-L39	TN-L72	TN-L56	TN-Lx59	TN-Lx30	TN-L12	TN-Lx50	TN-L118	TN-L13	TN-L7	TN-L10	TN-L10	TN-L10	TN-L10	TN-L10	TN-L10	
22		207	1b			TN-W14	TN-R12	TN-AC10	TN-AC12	TN-G161	TN-R19	TN-G37	TN-G77	TN-R51	TN-Gx117	TN-Gx64	TN-R4	TN-AC115	TN-R22	TN-Gx46	TN-Gx44	TN-G3	
23		208	1b			TN-bx43	TN-73	TN-7	TN-41	TN-405	TN-bx45	TN-155	TN-446	TN-146	T1TN-A84	TN-A19	TN-A60	TN-A60	TN-A28-S1T	TN-A28	TN-Ax55	TN-679	
24		209	1b			TN-N2	TN-Q3	TN-Q151	TN-N17	TN-Q54	TN-bx43	TN-N8	TN-bx36	TN-N20	TN-N9	TN-W7	TN-45	TN-441	TN-14	TN-44	TN-457	TN-Nx	
25		210	1b			TN-NB2	TN-Lx23	TN-L5	TN-P43	TN-L159	TN-L73	TN-21	TN-L79	TN-N55	TN-L46	TN-L16	TN-L54	TN-Q20	TN-P9-S1T	TN-P20	TN-Lx6	TN-bx2	



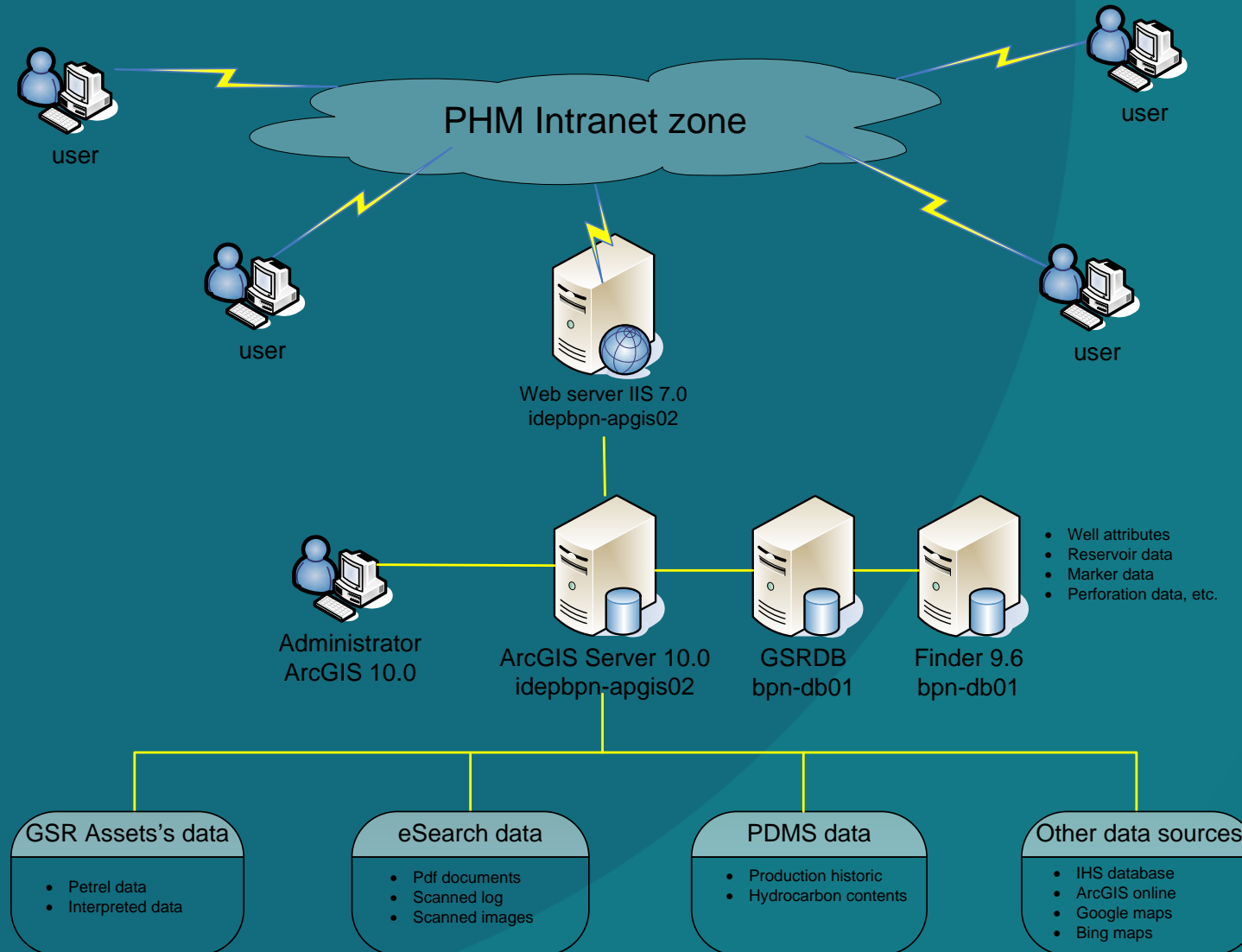
Press "Manage_imports" button to change the .Las file into the .txt file (delimited) and save it into the RPU Folder.



Press "Get Data" button to get stacked Channel data . After this, please Press "Get Range" Button.

Press "Get Range" button to get neat data and sorter the data properly

Web GIS solution



Web GIS Toolboxes in Geosciences & Reservoir Division (GSR)

- GISGSR
- Tunu RPU Toolbox
- Handil GIS Toolbox
- Sisi-Nubi GIS Toolbox
- Pore-pressure Toolbox



GISGSR

<http://idepbprn-epicn02.8090/dp/pages/apptab/ITabManager.html>
Pore Pressure GIS Toolbox
iCon : Integrated Concept

Welcome, J0213199 | Tuesday, September 04, 2018
 About iCON Contacts Confidentiality Personalization Logout
 Warranty and Copyright of PERTAMINA HULU MAHAKAM

Administration Admin_Future At a Glance Daily At a Glance Weekly Daily Prod QC Data Data Availability Data Browser Data By Depth Data Find (eSearch) Data Find Ver 1.0 More

GISGSR Fields Find on Map: TN-13 Go Detect Event Filter Well Tools Selection

Geophysics

- GRAVMAG
 - Anomaly Bouguer
 - Anomaly Magnetic
 - 1st Ord. Anom. Bouguer
 - HPass Anom. Bouguer
- SEISMICS
 - 2D Seismics
 - Master Finder
 - Navigation
 - SegY
 - Paper
 - Master Geoframe
 - Charisma
 - 3D Seismics Available
 - 3D Seismics Not Available

SISI-206
Well Type : BOTTOM
CR Status : GAS PRODUCER

Filter Well

Filter Wells by Parameters:

Field Name: SISI-NUBI Class: DEVELOPMENT

Contractor: -- ALL -- Dev. Phase: -- ALL --

SPUD Date: Enter start date Current Status: -- ALL --

Final Drill Date: Enter start date

Enter end date Enter end date

Search Well

Finder Links Availability

NB-101.12

Production Data Production Chart Well Status History

WELL_HEADER
 CALIBRATION_PLATE
 CHECKSHOT
 COMPLETION_LOG
 COMPOSITE_LOG
 CONVENTIONAL_CORE
 CORRELATION_LOG
 DEVIATION_SURVEY
 EDITED_LOG
 eDOC
 eLOG
 FIELD_MARKER
 GAS_ANALYSIS
 LAYER
 LITHOLOGY_LOG
 MRPL
 MUD_LOG
 OIL_ANALYSIS
 PETROPHYSIC_LOG
 PETROPHYSIC_RESULTS
 PRESSURE_TEST
 REGIONAL_MARKER
 RESERVOIR_PROPERTIES

List of Wells

Export to Excel

Well Name	Type	Well Name	SPUD Date	CR Status	Class
NB-204	TOP	NUBI-204	16-Sep-2008	GAS PRODUCER	DEVELOP
NB-206	TOP	NUBI-206	02-Mar-2009	SHUT-IN GAS PRODUCER	DEVELOP
NB-110.T1	TOP	NUBI-110.T1	12-Jun-2010	P&A	DEVELOP
NB-110.T1.G5	TOP	NUBI-110.T1.G5	04-Apr-2016	GAS PRODUCER	DEVELOP
NB-106	TOP	NUBI-106	22-Oct-2009	GAS PRODUCER	DEVELOP
SS-116	TOP	SISI-116	27-Jun-2013	SHUT-IN GAS PRODUCER	DEVELOP
NB-101.T1	TOP	NUBI-101.T1	17-Jun-2006	P&A	DEVELOP
SS-113	TOP	SISI-113	24-Jun-2010	P&A	DEVELOP
SS-209	TOP	SISI-209	17-Nov-2015	GAS PRODUCER	DEVELOP
NB-101	TOP	NUBI-101	06-May-2006	P&A	DEVELOP
SS-201.T1	TOP	SISI-201.T1	12-Aug-2014	GAS PRODUCER	DEVELOP
SS-109	TOP	SISI-109	02-Jul-2010	P&A	DEVELOP

Page 1 of 7

GISGSR

The screenshot displays the GISGSR web application interface. The main map shows a geographical area with various well fields. A tooltip for well 'TUNU-Y4' is visible, indicating it is a 'BOTTOM' well type and a 'SHUT-IN GAS PRODUCER'. The interface includes a navigation menu on the left, a search bar at the top, and two main panels: 'Filter Well' and 'List of Wells'.

Filter Well Panel:

Filter Wells by Parameters:

- Field Name: TUNU
- Class: DEVELOPMENT
- Dev. Phase: TUNU PHASE 9
- Contractor: -- ALL --
- Current Status: -- ALL --
- SPUD Date: Enter start date, Enter end date
- Final Drill Date: Enter start date, Enter end date

List of Wells Panel:

Export to Excel

Short Name	Type	Well Name	SPUD Date	CR Status	Class
TN-Y13	TOP	TUNU-Y13	20-Jan-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-Y14	TOP	TUNU-Y14	15-Jan-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-TMx10.G1	TOP	TUNU-TMx10.G1	14-Jan-2006	GAS PRODUCER	DEVELOPA
TN-AA11	TOP	TUNU-AA11	21-Jan-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-AA8	TOP	TUNU-AA8	24-Jan-2006	GAS PRODUCER	DEVELOPA
TN-Dx14	TOP	TUNU-Dx14	21-Mar-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-Dx23	TOP	TUNU-Dx23	17-Mar-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-AA19	TOP	TUNU-AA19	16-Apr-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-Y12.T1	TOP	TUNU-Y12.T1	02-Jun-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-AC4	TOP	TUNU-AC4	15-May-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-AC10	TOP	TUNU-AC10	11-May-2006	SHUT-IN GAS PRODUCER	DEVELOPA
TN-AA26	TOP	TUNU-AA26	10-May-2006	SHUT-IN GAS PRODUCER	DEVELOPA

Map Coords: X= 565540.1 m, Y= 9953832.6 m

Scale: 10km, 5mi

Page 1 of 5

GISGSR

http://idepbpn-apgis02/gisgsportal/GISGSRStandalone/ GSRGISWebApp

Fields Find on Map: TN-13 Go Detect Event Filter Well Tools Selection

Well Detect Events

Well Parameters

Date: 31-Aug-2018

Delta QGas >= 3 MMScfd

Delta T >= 3 °C

Delta QGas >= 15 %

Nb of Days to Average: 5 Days

Select Field: TUNU

Show Well List Detect Events Cancel

Well List Detect Event

Export to Excel

Drag a column header and drop it here to group by that column

Well Name	Current QG	Delta WHFP (bar)	Delta QGas (%)	Delta T (°C)	Warning
TN-Fx26-S1	0.49	2.83	15.61	12.50	Delta T 12.5 degree C and Delta Qg 1
TN-F20-S1	0.94	1.00	3.15	0.80	Delta Qg 3.1%, Delta press 1.0 bar
TN-I14-S1	0.20	0.67	100.00	2.00	Delta Qg 100.0%, Delta press .7 bar
TN-M10-ST1-S1	0.18	0.20	25.00	0.00	Delta Qg 25.0%, Delta press .2 bar
TN-L12-S1	5.15	0.00	0.98	5.60	Delta T 5.60 degree C, Delta press .0
TN-M23-S1	0.50	1.79	93.23	0.20	Delta Qg 93.2%, Delta press 1.8 bar
TN-N58-S1	1.63	26.00	11.65	6.08	Delta T 6.1 degree C and Delta Qg 11
TN-Lx41-S1	0.23	0.00	24.67	0.92	Delta Qg 24.7%, Delta press .0 bar
TN-G6-S1	0.00	4.20	0.00	3.00	Delta Qg %, Delta press 4.2 bar
TN-L56-S1	0.10	1.20	50.00	1.33	Delta Qg 50.0%, Delta press 1.2 bar
TN-L9-S1	0.12	0.24	14.43	0.00	Delta Qg 14.4%, Delta press .2 bar
TN-G51-S1	0.46	0.00	0.00	3.00	Delta T 3.00 degree C, Delta press .0

Page 1 of 1

Map Coords: X= 571021.2 m, Y= 9952683.8 m

Scale: 15km / 10mi

GIS Toolbox menu in PHM intranet

http://phmweb/file_geosciences/GSRGIS_files/GSRGIS_29082 phmweb

Welcome to GSRGIS Toolbox Applications

[Tunu RPU Toolbox](#)

[Handil GIS Toolbox](#)



[Sisi-Nubi GIS Toolbox](#)

[Pore Pressure GIS Toolbox \(Beta\)](#)

[Tunu Shallow \(Beta\)](#)

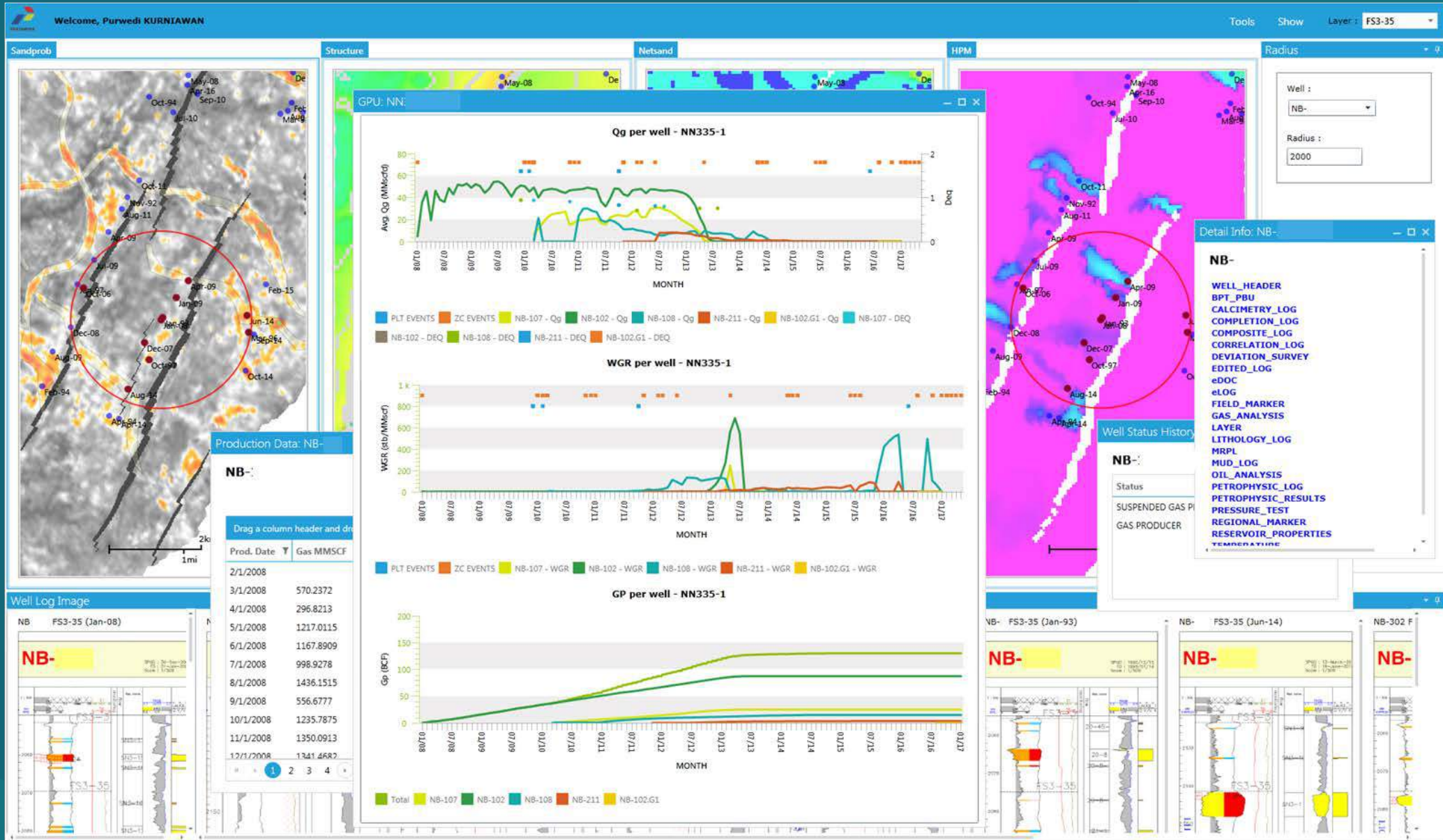
Warning: you need to register before using this applications([Click here to Register](#))

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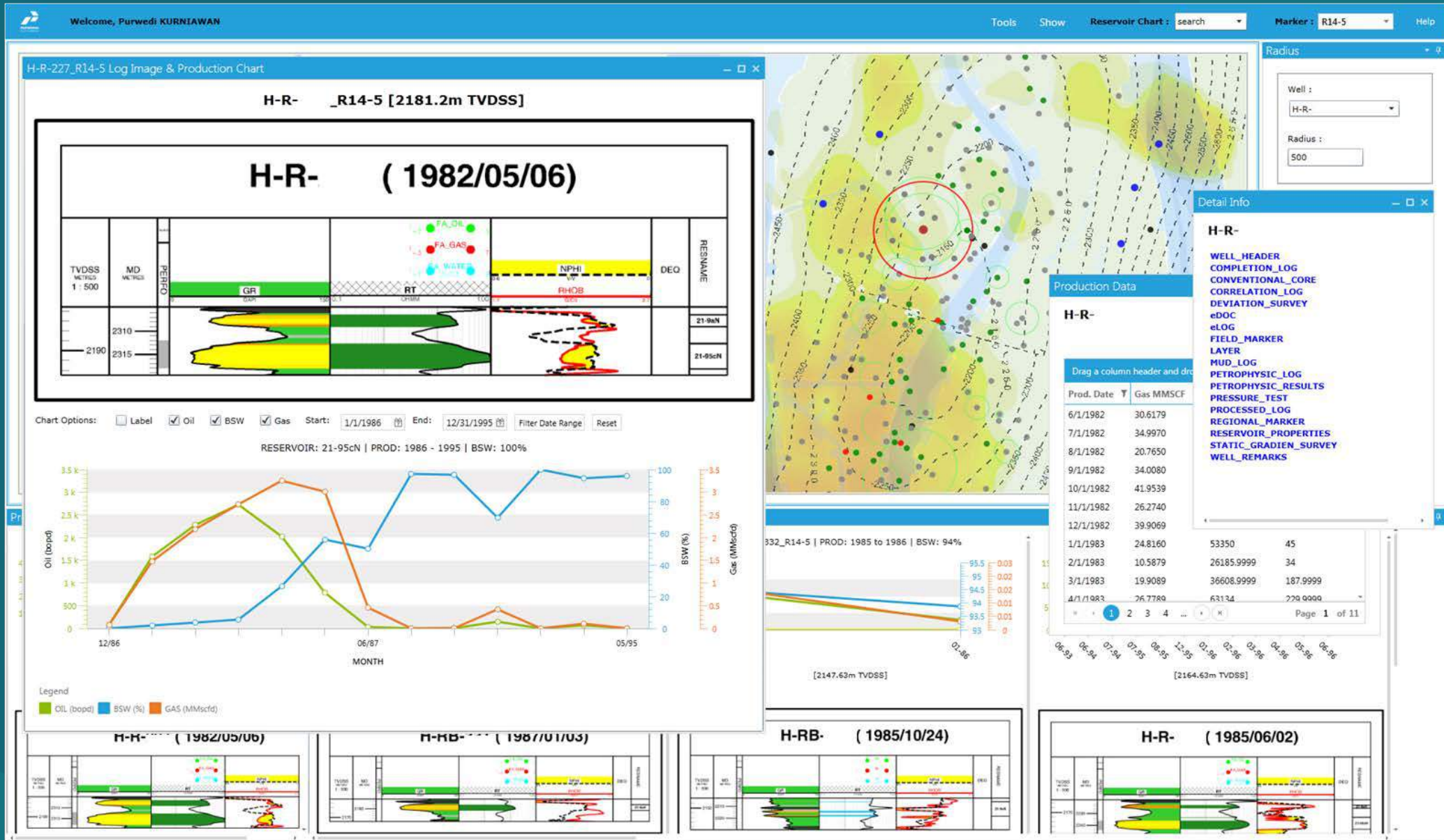
 

100%

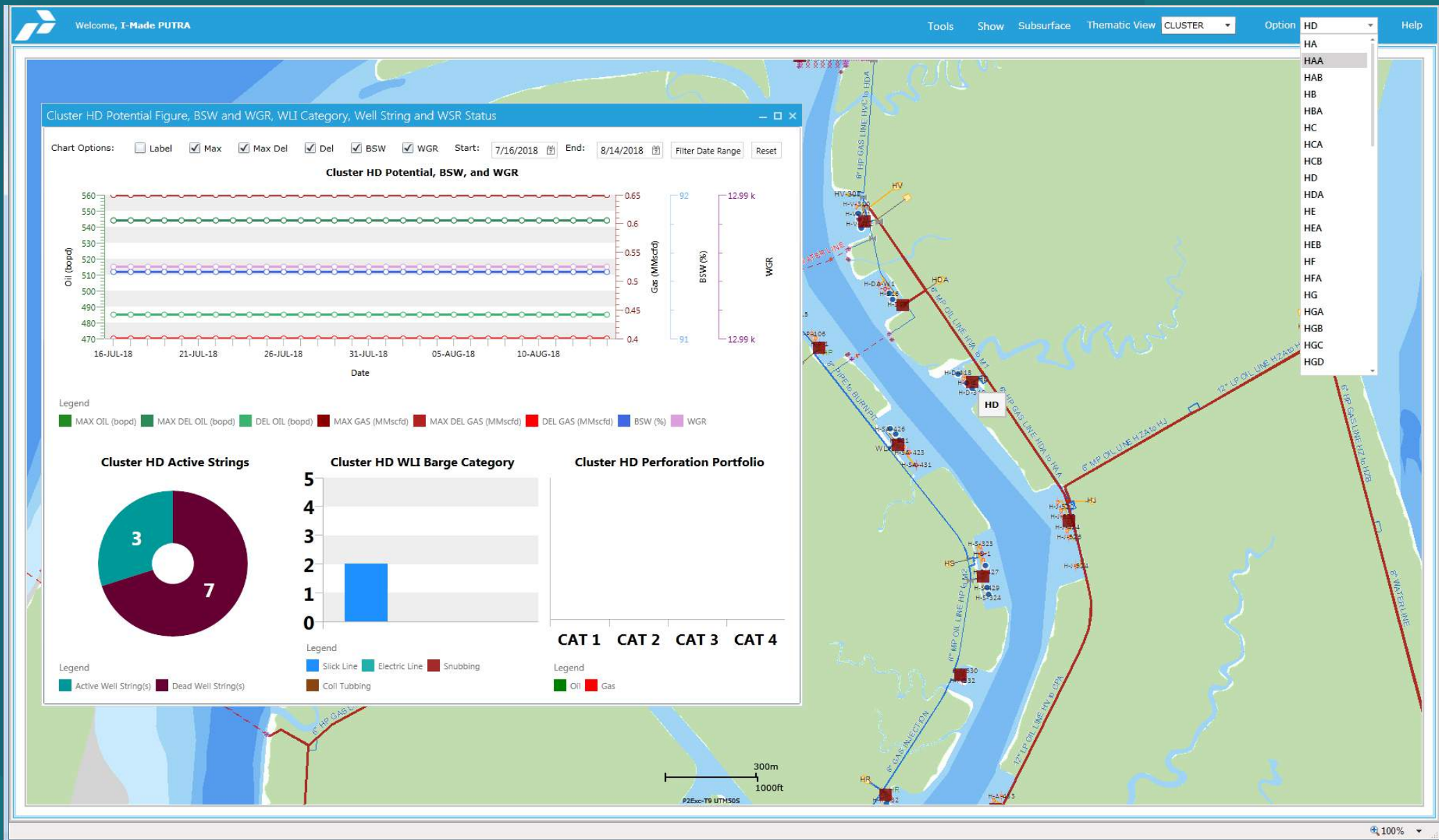
Sisi-Nubi GIS Toolbox



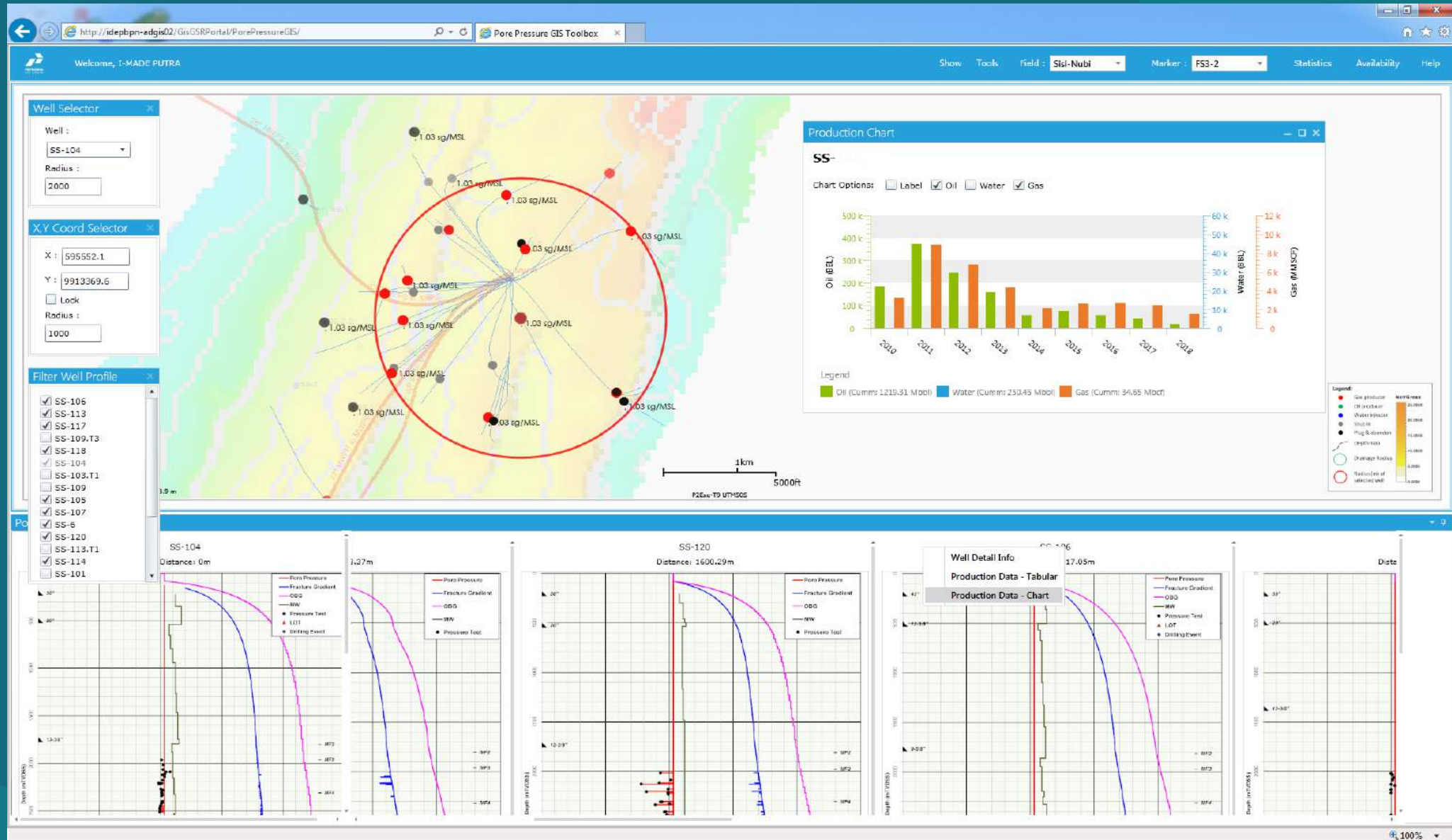
Handil GIS Toolbox



Handil GIS Toolbox



Pore Pressure GIS Toolbox



Geosciences Information Management (GSR/TEC/GIM)

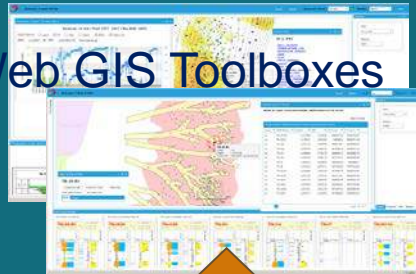
GSR Interpretation applications:

Geolog7
Geoframe

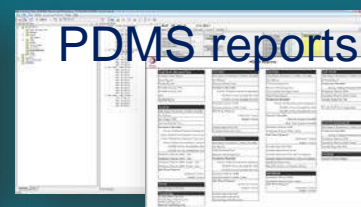
Petrel
Eclipse Etc.



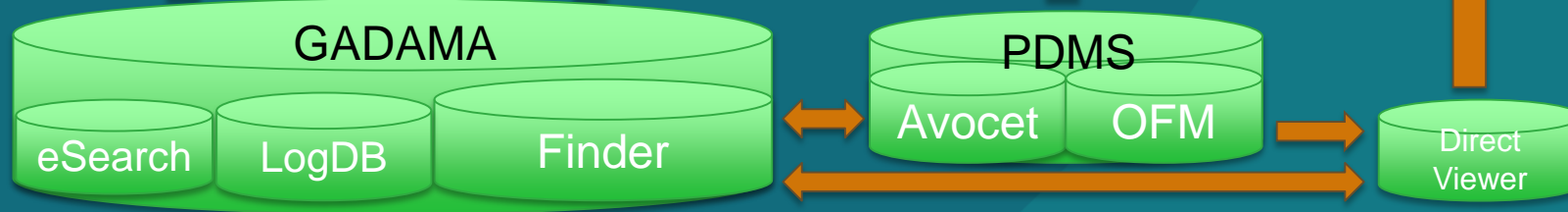
Web GIS Toolboxes



PDMS reports



Direct Viewer



Digital & printed reports



Raw Logs



- ✓ Reservoir data (reservoir properties, ...)
- ✓ G&G data (pressure, logs, markers-layers, ...)
- ✓ Drilling data (deviation surveys, ...)



- ✓ Production data
- ✓ (well & process data sources, ...)

Next step: Geo Portal with ArcGIS 10.4

The screenshot shows a web browser window displaying the Geospatial Information Portal. The browser's address bar shows the URL <https://idepbpm-adgis03.ad.phm-pertamina...>. The page features a navigation menu with links for Home, Gallery, Map, Scene, Groups, My Content, and My Organization. A search bar is present with the text "PUTRA" and a search icon. The main content area includes the Pertamina logo and the text "Geospatial Information Portal". Below this is a section titled "Featured Maps and Apps" which displays four items: "Asset Inspection Mobile Map", "Asset Inspection Web Application", "Facilities Map", and "Facilities Web Application". At the bottom, a text box provides information about the portal's management and the types of content it offers.

Home Gallery Map Scene Groups My Content My Organization

PUTRA

Geospatial Information Portal
PERTAMINA
HULU MAHAKAM

Featured Maps and Apps

Asset Inspection Mobile Map Asset Inspection Web Application Facilities Map Facilities Web Application

Pertamina Hulu Mahakam Geospatial Information Portal managed by PHM GIS Committee. Geospatial Information Portal provide "One Stop Geospatial Information" which is content all of geospatial information such of web applications, web online maps, mobile maps, scene maps, map layer package, layer files, map tile package and ready to print maps (pdf, jpg, png).

100%

Next step: Geo Portal with ArcGIS 10.4

The screenshot displays the ArcGIS Geo Portal gallery interface. The browser address bar shows the URL: <http://idepbpn-adgis03.ad.phm-pertamina.com/geoportal/home/galler>. The page title is "Gallery". The navigation menu includes: Home, Gallery, Map, Scene, Groups, My Content, My Organization. The user profile is "PUTRA".

The gallery content is organized into two tabs: "My Favorites" and "My Organization's Featured Content". The "My Organization's Featured Content" tab is active, showing a grid of GIS toolboxes. The items are:

- GISGSR
- Handil GIS Toolbox
- Pore pressure GIS Toolbox
- SNB GIS Toolbox
- TUNU RPU Toolbox

On the left side, there is a "Show" filter menu with the following options: All, Maps, Layers, Scenes, Apps, Tools, Files. The "Sort By" dropdown is set to "Title". The interface is displayed at 100% zoom.

Thank you!



**Question
Maybe This?**

