

Polaris Guidance Systems, LLC

WITSML - MWD and Directional Solutions Provider

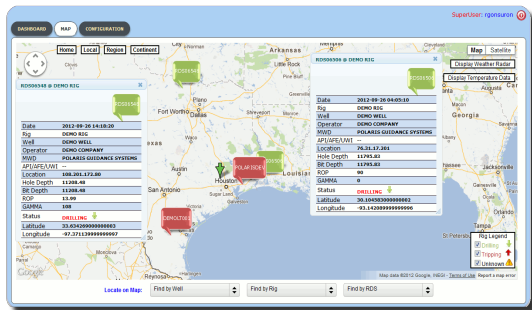
Dashboard Monitoring

The Polaris Dashboard Service is a great complement to the RDS and Laptop systems. The Dashboard is a complete solution for tracking the status and configuration of all RDS and Laptops within your organization.

ID	Name	Date	Status	Rig	Well	Company	Depth	Temp	Pressure	Gamma	Surf	Depth	Temp	Pressure	Gamma	Surf
100	RT0001	2012-08-28 14:18:30	Online	DMO	WELL	DMO COMPANY	1100.00	1100.00	27.74	27.4	Online	4.91	Yes			
101	RT0002	2012-08-28 14:18:30	Online	DMO	WELL	DMO COMPANY	1100.00	1100.00	27.74	27.4	Online	4.91	Yes			

Features include:

- All Polaris systems automatically report to the Dashboard every 15 seconds providing a pseudo real-time display of all data received by the system on-site
- Full listing and status of all systems including click-able links to systems that are available for remote login
- User selectable columns on the list including rig status, contact information, depth and survey data, well information and many others
- Storage of database backups automatically sent to the Dashboard for disaster recovery options
- Permanent storage of "TD" backups at the end of each job
- Remote monitoring of each system individually by opening windows for each and selecting the data to be displayed
- Geographic location mapping of systems including current weather conditions and pop-up status windows
- Survey data reports in PDF, CSV, XLS and XLSX formats
- Complete configuration report for each system allowing remote diagnostic checks



WITS Id	Name	Logging	Units	Decimal	Scale	Offset	WITS Out	LAS Tag	Min Logged Depth	Max Logged Depth
0108	BIT Depth	Yes	ft	2	1	0	Yes	BITDEPTH	722	11051.47
0110	Hole Depth	Yes	ft	2	1	0	Yes	HOLEDEPTH	722	11051.47
0111	TVD	Yes	ft	2	1	0	Yes	TVD	0	0
0113	ROP	Yes	ft	2	1	0	Yes	ROP	722	11051.47
0117	WOB	Yes	lbs	1	1	0	Yes	WOB	0	0
0119	Rotary Torque	Yes	ft-lbs	1	1	0	Yes	TRQ	0	0
0120	Battery Speed	Yes	rpm	0	1	0	Yes	RPM	0	0
0121	Pump Press	Yes	psi	1	1	0	Yes	SPP	0	0
0128	Flow Out	Yes	gal	2	1	0	Yes	FLOWOUT	0	0
0130	Flow In	Yes	gal	2	1	0	Yes	FLOWIN	0	0
0140	GAS Avg	Yes	pct	1	1	0	Yes	GAS	0	0
0171	DIT Pressure	Yes	psi	2	1	0	Yes	DITP	722	11051.47
0709	TVD	Yes	ft	2	1	0	Yes	TVD	0	11051.47
0713	Inclination	Yes	deg	2	1	0	Yes	INC	0	11051.47
0715	Azimuth	Yes	deg	2	1	0	Yes	AZM	0	11051.47
0716	HTF	Yes	deg	2	1	0	Yes	HTF	722	6094.25
0717	CTF	Yes	deg	2	1	0	Yes	CTF	722	11051.47
0722	DIP Angle	Yes	deg	1	1	0	Yes	DIP	0	0
0723	VS	Yes	ft	2	1	0	Yes	VS	0	11051.47
0724	G Total	Yes	ft	2	1	0	Yes	GTOTAL	0	0
0823	Gamma	Yes	api	0	2.17	59.79	Yes	GAMA	668.16	10991.68
0824	Gamma	Yes	api	0	2.17	59.79	Yes	GR	0	0
0836	Temperature	Yes	degf	1	1	0	Yes	TEMP	0	0
0923	Gamma Dip	Yes	api	0	3.53	53.14	Yes	GAMEDIAP	0	0
6410	Confidence	Yes	pct	0	1	0	Yes	CONFIDENCE	0	0
6411	Pulse Amp	Yes	psi	1	1	0	Yes	PULSEAMP	0	0
6425	Standpipe	Yes	psi	1	1	0	Yes	SWP	0	0

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