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## **TIGER VISION WITH LOGGING**

**Tiger Vision:** Tiger Vision is a Tiger General, LLC Patented Proprietary hardware/software data acquisition and monitoring system built on Microsoft Windows 7 platform. It utilizes a standard solid state touch screen computer to record, save, and display on screen incoming Swab Master and engine electronic data. The data is displayed using sweeping analog/digital color coded gauges for the operator to monitor in real time truck engine and rig operating systems.

This system provides the operator with down hole information such as depth (in and out of the well), line speed, gross and net loads, system pressures, charge pressure, tubing and well head pressures. Data output for the gauges can be selected and shown on the display in either English or Metric.

Programmable depth alarm warning horns are used to indicate when tooling is reaching the top of the well with warning light indicators. Set up is easily done with the help of Configuration screens. All data can be down loaded to laptop or mobile devices. Computer comes with key board, powered with a 12V to 110V inverter, with a battery power back up.

Optional Data Logging Streams data to allow any one you choose to view the data in Real Time and print out on spread sheet report, Anywhere in the world. All you need is an internet connection. Production engineers can stay home. What do the other guys offer??..... Not Much.

**Blow away all competition**

### **Here are the Details that Deliver Maximum Efficiency**

The swabbing rig operator might make one run or many runs to “clean up”, “unload” or “dry up” the fluids in the well. a “run” is one cycle in and out of the well.

All wells act or react, differently. In the past the swabbing rig operator guessed, based upon his personal experience, where fluid is. Usually by sounds and seeing a little slack in the cable as to when fluid is “hit.” He might use a hand depth counter, but that is dangerous because another person needs to hold the hand wheel on the moving cable. Tiger Vision eliminates the danger of possible personal injury from an operator getting caught in the moving cable while using hand counter wheel.

Tiger Vision and Tiger Logging helps you get maximum loads every run. It helps take the guessing out to avoid those runs that come up empty. Tiger Vision is a Patented proprietary tool to increase efficiency and safety, By delivering down hole information that will aid the operator, engineers and well owner.

## Page 2. *Tiger Vision with Logging*

Tiger Vision Logging. Each line item action is logged and time stamped.

- 1- logs start in to well time
- 2- Logs depth where fluid is hit. (load indicator, shows unloading)
- 3- logs start time back up well
- 4- logs location depth of where you start back out of well
- 5- shows line speeds
- 6- Special important feature. If load sense gauge shows insufficient loads at start back up, operator can stop. Go down deeper to get maximum fluid loads per run. Logs new start back up point.
- 7- Logs new start up point depth.
- 8- Logs when back up to top or starting point. This will be 1 cycle. then 2<sup>nd</sup> run cycle and etc
- 9- logs times at all points

Beginning when you get to well sight. Start swab master rig

When you start the rig the clock starts to run to log time of operations

At start or top of well, Zero out Depthometer. Start falling into the well

As tools fall into the well, the system displays depth and loads

As tools fall into the well, the weight or load indicator show increases as more cable weight falls into the well.

When the tools “hits” fluid, The weight indicator changes before any other indicators. The logging system notes this point. Now the operator knows exactly how deep he is into the well. The system logs, where fluid is hit, It is noted at each run. This is very important information to the well owner or operator to evaluate down hole or well status information

With this information, the operator decides how much further to go into the well, or how long a column of fluid to “get” or lift up and out of the well. The Depthometer tells the operator where the tools are in the well.

Example. The operator might decide, (based upon experience) to “get” 1000 ft. Of fluid in 2” tubing. With Tiger Vision, the operator can go exactly 1000 ft. into the fluid.

Then start back out or up and out of the well with the column of fluid. Unloading the fluid out the discharge line at top of well. Tiger Vision logging notes the depth where fluid first hit, how far down to stop or up point, load pulled at start point, depth to top of well.

At the up point, the operator will start out or up about 20 ft. Then check the tiger vision weight indicator to see if he has optimum load. If not the operator can decide to go back down further to get max load of fluids per run.

This is very important because all wells are different. Some have gas pressure “help” others do not. Some have a mixture of fluids and gas mixed in the length of the column. With Tiger Vision you know loads and take appropriate action to get or lift maximum loads at each run.

### **Page 3. Tiger Vision with Logging**

Without Tiger Vision the operator can only guess how much load or length of column of fluid. If a well is “gassy” or has “gas help”. The operator will not know if he could have lifted a longer heavier column or not until it unloads at the top and finds less fluid and more gas than expected. Then it is too late. He loses Efficiencies.

Then it is too late to get maximum loads. On future runs the operator will guess again until, Finally all fluid is out of well. Tiger Vision allows the operator to get max loads and therefore “unload” or “dry up” the well.

the well with fewer runs and less operator time, therefore less costs to well owner. The Operator Looks Good !

As tools are lowered into the well, line speed data helps operator maintain safe speed rate into the well. This helps prevent “bird caging” the cable. This is especially critical when running Dycam cables with Swab Master Special “Swab Under Pressure” Machines

If the well “kicks off” while operator is coming out of the well the weight indicator will show weight Unloading. This shows the operator a potential blow out situation sooner than any other method. This allows the operator more time to “shut the well in” before the tools are blown out of the well.

Call *Dick Brenneman* or Mark Overholt for more information about how you can own the Number One Swab rig in the USA. Swab Master Machines. By Tiger General LLC.

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