Information Management Systems 304 Jeff Averett



Improving Processes. Instilling Expertise.





Course Agenda

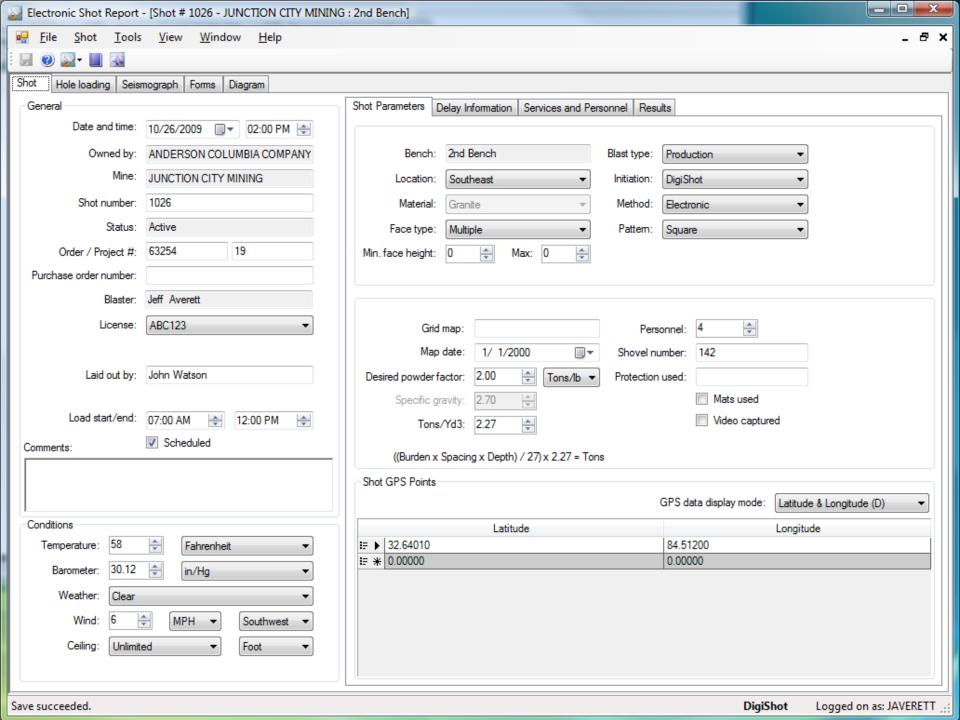
- Overview of Information Technology tools related to blasting
- Getting it all together
 - How to collect & store beneficial information
 - ✓ What value does this information provide?
 - ✓ How do we make the information meaningful?
- Other tools

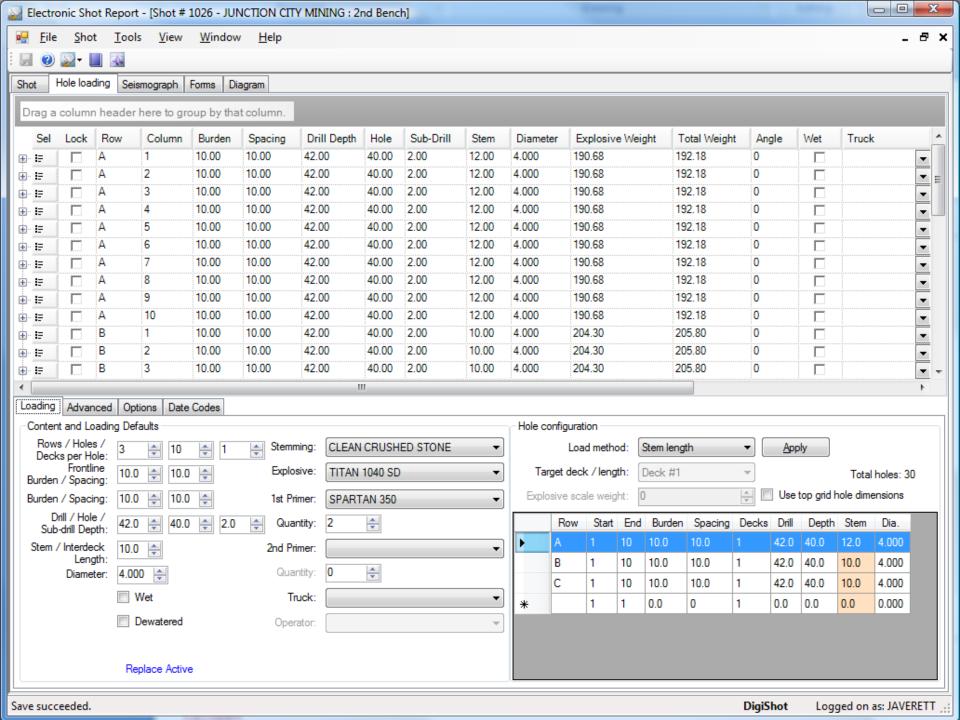


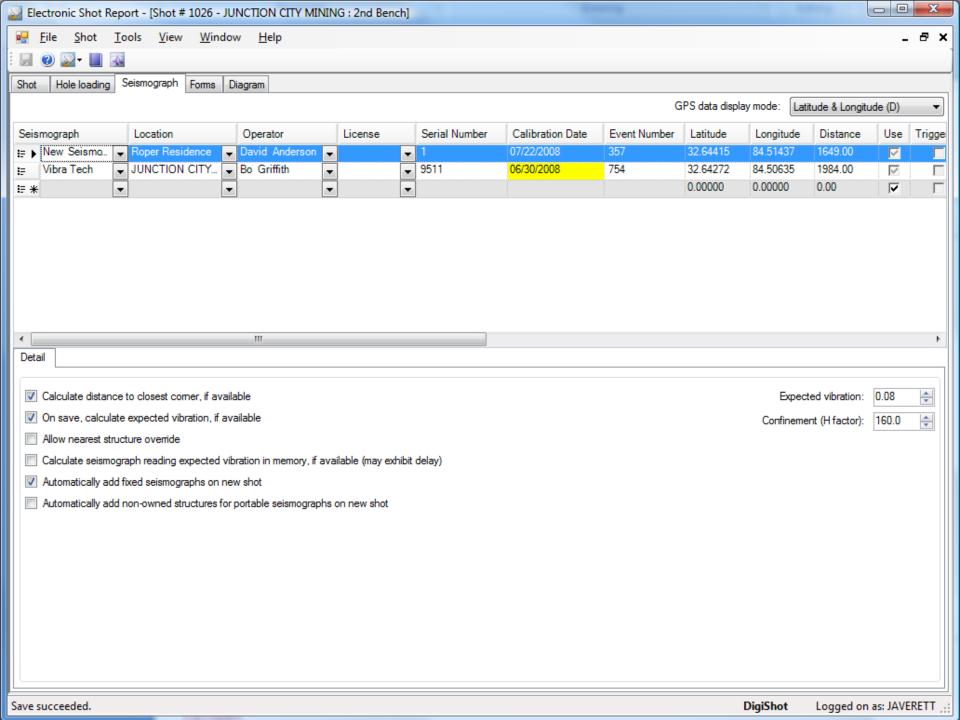
Electronic Shot Reporting

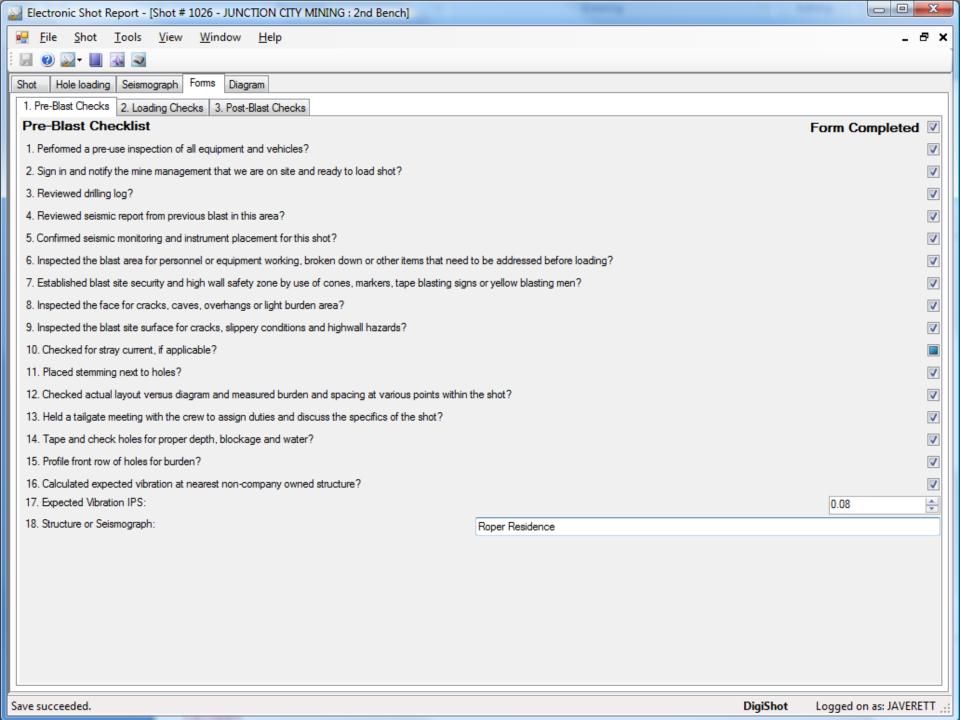
- We have a legal requirement to document blasting activities
 - ✓ This requirement can be leveraged to provide useful information that can help define future blasting parameters
 - Electronic Reporting can also increase the productivity of your blasters
 - Can reduce the amount of time needed to create a report
 - Reduces errors
 - Ensures consistency
- Combining with other electronic data makes optimization easier

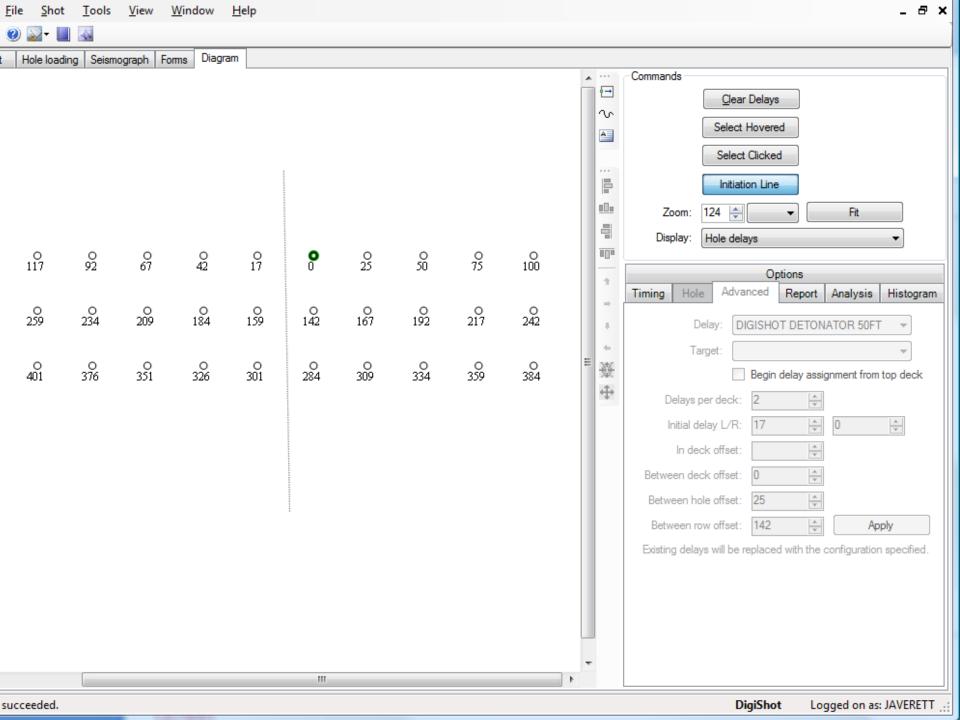


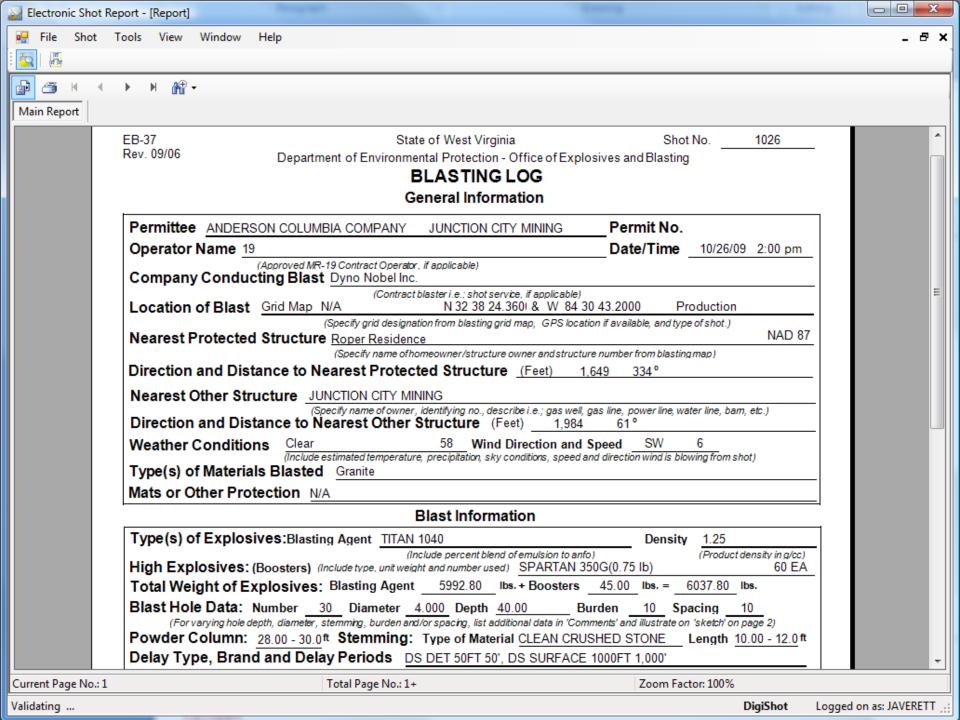


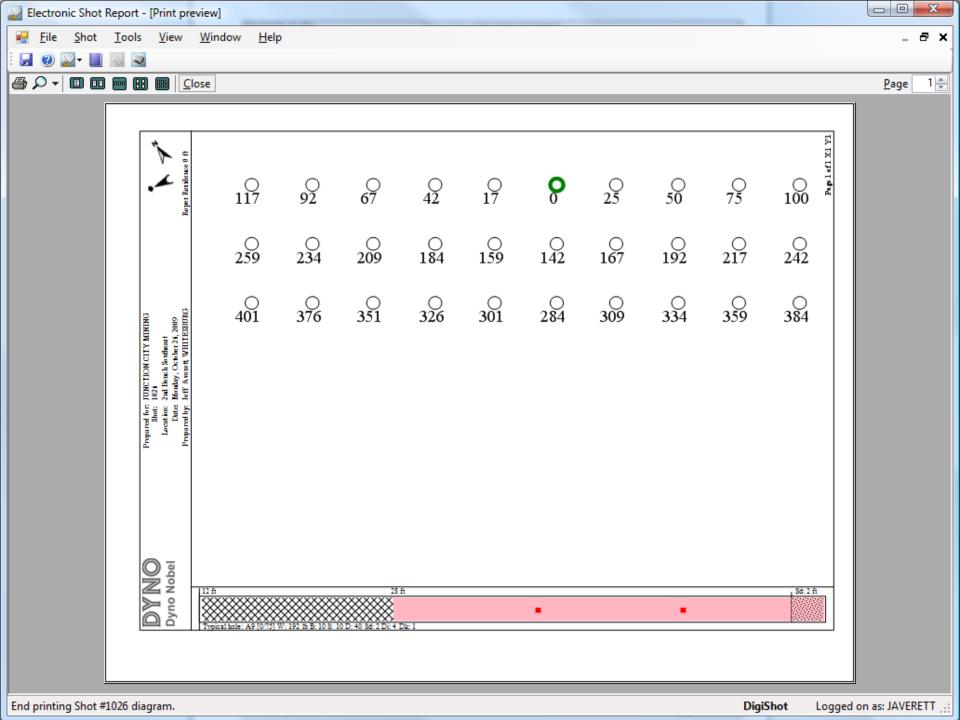












Data Organization

- A well planned relational database is key
 - A good understanding of your available data and reporting requirements is critical
 - ✓ Plan for future growth
 - ✓ Ensure your IT infrastructure is correctly sized and maintained
- Information should be accessible to key users in your organization
- Central data storage provides many benefits...it also provides some of the biggest challenges
 - Make sure you have a plan to get all key information to a central location

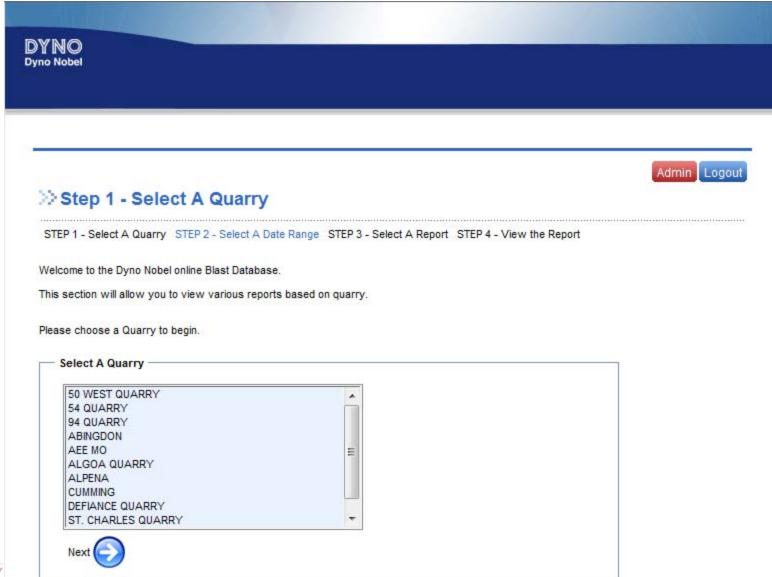


Data Reporting

- Online reporting provides a good way to allow people to run reports on demand no matter where they are
- You should be able to extract data in different formats for further manipulation and portability
- Dedicate the time to review the reports regularly and continually look for ways to improve how information is tracked and presented

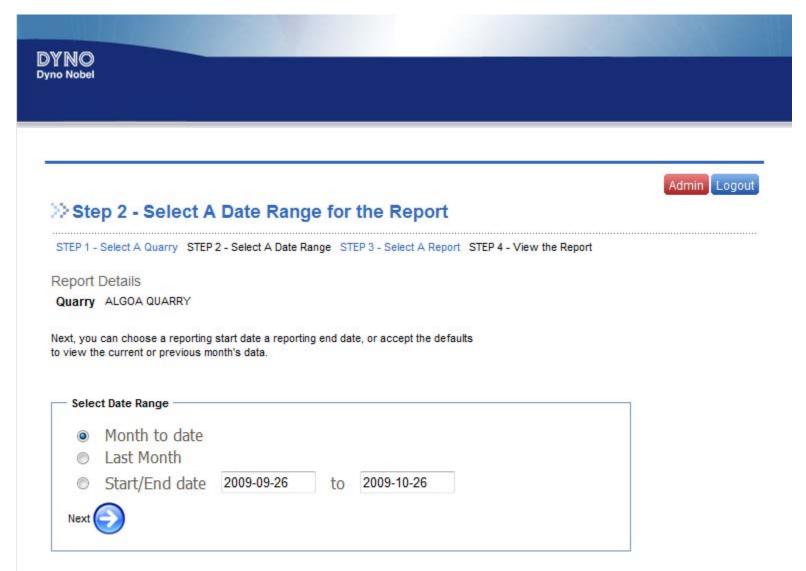


Web Reporting





Web Reporting





Web Reporting





Step 3 - Report Selection

STEP 1 - Select A Quarry STEP 2 - Select A Date Range STEP 3 - Select A Report STEP 4 - View the Report

Report Details

Quarry ALGOA QUARRY

Selected Date Range October 1, 2009 to October 26, 2009

Please select the report you would like to view.

Select A Report



Explosives Ratio and Powder Factor



Powder Factor by Bench by Month



Powder Factor by Bench by Pattern



Tonne and Ton: By Blast

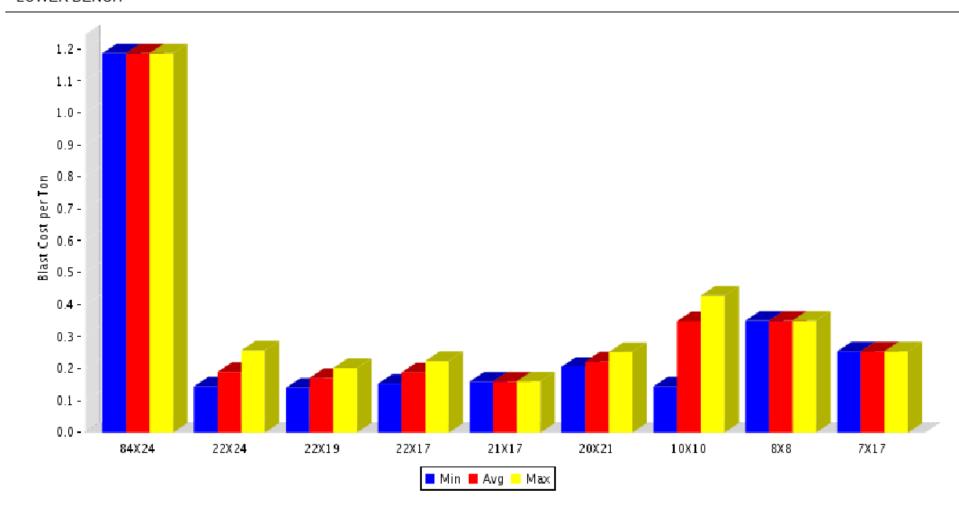


Explosives Ratio: Category by Bench by Month



LOWER BENCH

Blast Cost per Ton





Quarry Report

Shot No.	Date	Bench	Material Type	Blast Type	R. Den.	Holes	Tons Shot	Total Explosives	Powder Factor	People On Site
08L3B-1	03/06/2008	LOWER	Limestone	Development	2.66	26	103326	55783	1.85	1
08U26-B-2	04/02/2008	UPPER BENCH	Limestone	Production	2.66	20	117080	48469	2.42	1
08L3B-2	04/14/2008	LOWER	Limestone	Production	2.66	16	61303	34418	1.78	1
08L3c-2	04/28/2008	LOWER	Limestone	Production	2.66	13	49954	27924	1.79	1
08U26-c-3	05/01/2008	UPPER BENCH	Limestone	Production	2.66	20	105092	43461	2.42	1
08L3A-2	05/08/2008	LOWER	Limestone	Production	2.66	21	81854	44245	1.85	1
08U20A-1	05/20/2008	UPPER BENCH	Limestone	Production	2.66	18	105596	42508	2.48	1
08L3B-2-2	05/23/2008	LOWER	Limestone	Production	2.66	13	49428	27925	1.77	1
08U20A-1-1	05/29/2008	UPPER BENCH	Limestone	Production	2.66	18	92992	37344	2.49	1
08U19-A-1	06/10/2008	UPPER BENCH	Limestone	Production	2.66	29	159711	68481	2.33	1
08L-2D-1	06/17/2008	LOWER	Limestone	Production	2.66	26	101749	56379	1.8	1
0820UC-1	06/29/2008	UPPER BENCH	Limestone	Production	2.66	27	149740	60138	2.49	1
0812a-1	07/03/2008	LOWER	Limestone	Production	2.66	18	63056	34926	1.81	1
08L6-1	07/14/2008	LOWER	Limestone	Production	2.66	18	67877	27584	2.46	1
08L1A-1	07/25/2008	LOWER	Limestone	Production	2.66	14	52759	23743	2.22	1
08LL-1	07/28/2008	LOWER	Limestone	Development	2.66	51	29855	15798	1.89	1



Shot Design Tools

- Allow a way to test different shot scenarios
- Look at potential problems before the shot is loaded
- When using electronic detonators you can tie the shot in on a computer and push the timing to the detonator through the blasting machine
 - ✓ Allows complex shots to be timed easily



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