

DrillTorque

Q3 2020

JSW 10

CELEBRATING YEARS
2010 - 2020

LEADERS THROUGH INNOVATION



02 A DECADE OF JSW

04 Q3 JWB AWARD WINNER

07 MEET YOUR NEW DRILLERS



A MESSAGE FROM OUR CEO

WELCOME TO THE Q3 EDITION OF DRILLTORQUE.

After a challenging first half of 2020, we have taken the last few months in our stride and are shifting our mindset to end the year on a high!

In our last edition of DrillTorque I spoke of the need to be the best at everything we do and to be resourceful as a company – I'm happy to report that the plan is coming together, our business is going well, everyone is pitching in and differences are being made. Our great company is becoming even greater!

Within this newsletter there are many highlights, including an overview of JSW's decade of work accomplishments, new project wins, an update on how the BBURG HD2500RC is performing at Solomon as well as some great professional achievements.

10 YEARS OF JSW

Earlier this year, JSW celebrated its 10 year anniversary! The last decade has brought an abundance of challenges and opportunities that have enabled us to grow into the business we are today. We have been a part of over 220 contracts and drilled over 12,000,000 metres, which is a pretty impressive achievement.

I would like to thank everyone who has been a part of the journey so far and we look forward to what the next 10 years will bring!

PROJECT WINS

We were recently awarded a new contract, which will see our operations expand in the north west of the state, at Mesa H. This project win is a testament to our ongoing determination and drive to deliver exceptional results to our clients.

Site:	Mesa H
Location:	WA
Principal:	Rio Tinto
Client:	Georgiou Group
Duration:	4 months



BBURG EXCEEDING TARGETS AT SOLOMON

Since undergoing site commissioning to Solomon in July, Rig 91 has achieved some outstanding results. Read more about September's achievements on page three.

I'd like to thank everyone for the dedication and support over the last few months. It is a true testament to the team spirit at JSW. Together, we can achieve anything.

Best regards,

WARREN FAIR – CEO

A DECADE OF ACCOMPLISHMENTS

Earlier this year JSW celebrated its 10 year anniversary! As we reflect on the last decade, we would like to thank our employees – you are the ones who come to work day in and day out striving towards our vision: **to forge the future of drilling.**

JSW was founded in 2010 at Warren’s home in Mandurah by Jeff Branson, Steve Payne and Warren Fair – the J, S and W. Established as an exploration and resource definition drilling company, JSW began with a fleet of 10 drills acquired from the Ausdrill merger and opened an office located in Bibra Lake to support the existing small workshop and office facility in Kalgoorlie. Since then, our operations have spanned across the state and even into South Australia and Queensland.

Over the last decade, the market has presented us with many opportunities as well as challenges and we have grown exponentially across all aspects of the business, from our technology and innovation to our service capabilities.



Steve Payne, Warren Fair and Jeff Branson with Rig 55.

THE DECADE IN NUMBERS



SHORTEST CONTRACT:

1 day - civil drilling at WA Limestone Kwinana



LONGEST CONTRACT:

8 years, 11 months, 21 days - Mt Magnet GC - 589,296 metres drilled



TOTAL PROJECTS:

226



AREA OF OPERATIONS:

WA, SA & QLD



TOTAL METRES DRILLED:

more than 12,000,000!



PEOPLE:

over 300 at our peak, currently around 180



IF ALL OF THIS DRILLING WAS ONE CONTINUOUS HOLE, WE COULD HAVE DRILLED FROM ONE SIDE OF THE EARTH, THROUGH THE CENTRE AND OUT THE OTHER SIDE!

MILESTONES

- Evolved from mineral only drilling to water well and drill and blast
- Gained Registered Training Organisation (RTO) status as an Enterprise RTO (one of only two drilling companies to achieve this milestone in Australia)
- Awarded CCI Employer of the Year (WA Training Awards)
- WA Training Award Finalists

INNOVATION ACHIEVEMENTS

- Developed concept for the Reichdrill RD350 high capacity DHH bench crawler drill
- Developed specialist small footprint high capacity Equus drill for forestry applications in the Perth foothills
- Creation of the BBURG HD2500RC with IDAT technology

In an ever-changing and challenging industry, this milestone highlights the strength and agility of our business and the passion and determination of our people who stand behind it. We would like to extend a huge thank you to all who have been a part of the journey so far – it is your contribution and hard work that has made our success possible.

As a token of our thanks, all staff received a commemorative key ring. We look forward to the challenges and opportunities the next decade will bring.



Please enjoy these branded bottle opener key rings as a small token of our appreciation.



THANK YOU FOR YOUR COMMITMENT TO OUR VISION OF JSW!



J. Buckingham drilling on Rig 91 with offsideers W. Hawkins and L. Brunalli.



IDAT technology.

THE GREAT BBURG HD2500RC

Since its commissioning to site in July, the BBURG HD2500RC has delivered exceptional results in terms of safety and productivity, highlighting the advancements of innovative technology and move towards drilling automation.

Known on site as Rig 91, the HD2500RC incorporates automation technology from IDAT, JSW's sister company to deliver an industry first RC drill that is on the pathway to advanced automation.

BBURG HD2500RC SPECS:

Hole diameter:	102mm - 204mm
Drill tube diameter:	102mm or 114mm
Rotation torque:	8000Nm
Drill tube length:	6000mm
Max drill depth:	700m
Engine power:	565kW
Air delivery/minute on-board:	35m ³ / 1150cfm
Maximum air pressure:	500psi
Weight:	55,000kg

EXCEEDING TARGETS AT SOLOMON

Since undergoing site commissioning to Solomon in July, Rig 91 has achieved some outstanding production results, as well as proving to be much quieter than any other rig on site!

THE INCORPORATION OF IDAT

IDAT's solutions bring together the latest advances in automation, IoT and engineering to produce fully customised, intelligent and high performance rigs, designed specifically for the local terrains and operating environments.

In recognition of the importance of IDAT to JSW, Jeff Branson has taken on a new role to manage the technology and innovation arm. Jeff has been instrumental in many of JSW's innovations over the years and continues to play a key role in maintaining our position as leaders through innovation.



Jeff Branson, IDAT Senior Executive.



Jamie Pitman, Q3 winner of the JWB Award.

CONGRATULATIONS TO OUR Q3 JWB AWARD WINNER – JAMIE PITMAN

We would like to congratulate Jamie Pitman, Supervisor at Solomon on being named as the quarter 3 winner of our employee recognition program, the JWB Award.

Jamie has been recognised for his high level of skill and outstanding industry knowledge. Jamie played a key role in the development of the BBURG HD2500RC, testing the drill during the final stages and ensuring it was operating at optimal standards.

Once the drill testing was completed, Jamie was on site providing training and support to those who would be operating the drill.

As a long term employee Jamie is a valuable part of our company and we thank him for his continued hard work.

The JWB award recognises an individual for their ongoing and consistent team work, productivity, leadership and commitment to our values: passion, determination, collaboration and safety. It is these skills and attributes that have built the foundations of our culture and drive the way we work.

Q: How does it feel to be nominated for – and win the JWB Award?

A: It feels really good that people notice and recognise the hard work that I have been putting in.

Q: What do you think makes a good leader?

A: A good leader is someone who is respected by their crew members – that's the main thing, without respect no one will follow what you say or what you do.

Q: What do JSW's values mean to you?

A: Passion: I love the job that I do, I love working with the drill rigs and working on site.

Determination: To get the job done and to a high standard.

Safety: To ensure that every job is completed safely.

Collaboration: To work well with your team, it stems from good communication amongst all team members.

Q: Do you have a piece of advice that you live by?

A: Don't expect anyone to do anything that you wouldn't do yourself.

OFF SEASON MAINTENANCE

During the shutdown period at Alcoa, maintenance crews were carrying out scheduled servicing and upgrades, ensuring the equipment was ready for the next drilling season.

Due to the soft, wet soil conditions at Alcoa in winter, we are forced to stop drilling. After a well-deserved winter break, drilling crews at Alcoa returned to site on 31 August to commence a new season of drilling, focusing on safety and consistent production.



Equus drill, post birthday!



En route to site.

Q3-2020 - JSW DRILLTORQUE

RC SAMPLING QA/QC: AN INSIGHT FROM SOLOMON PROJECT MANAGER, CHRIS TINKLER

“Why are we engaged by the client?”

“We collect bags of dirt.”

...Wrong!

We are hired to provide and sell quality product to the client which is achieved by maintaining high standards of sample hygiene. The quality of a drilling company’s sample return can determine whether contracts are extended and can affect the relationship with our clients for future work.

At the FMG Solomon site, the crew are faced with many challenges when collecting sample due to tough ground conditions, which generally transition from loose detritus, to dry or sticky clays, wet channel iron deposit (CID), hard banded iron formation (BIF) and soft shales. In difficult conditions such as these we need to focus on high quality samples to reduce duplicate failures.

THE GOAL?

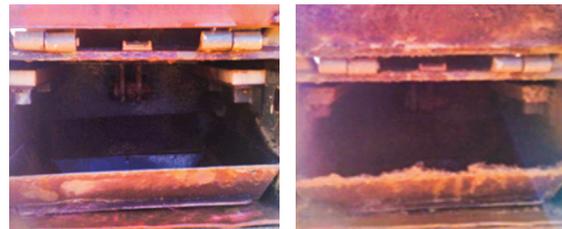
To collect the sample in an unbiased manner, this is done by keeping the sampling system level and cleaning the system thoroughly through ground transition and at the end hole (unless otherwise specified by the client).

WHO IS RESPONSIBLE?

- The driller: for returning adequate sample into the cyclone and spitter
- The offsider: to collect and present the sample for the geologist to log
- The geologist: to accurately log the sample

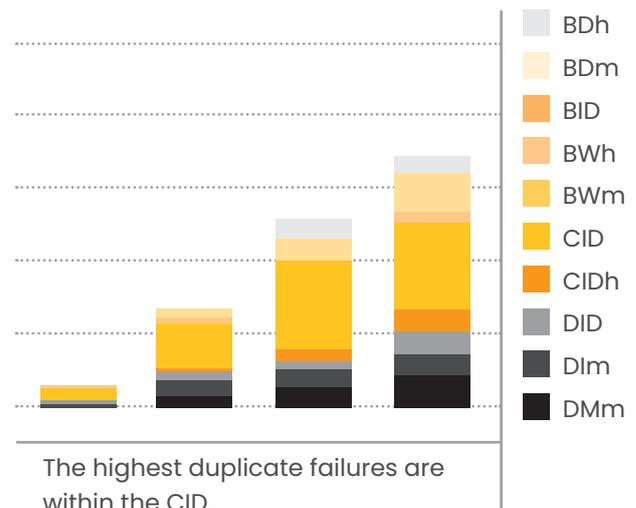
At the Solomon site, geologists have concluded the most duplicate failures occur within the CID channel, where the sample return is notoriously poor due to wet ground conditions. This requires an extra level of focus from the entire crew.

Our drillers must quickly respond to blockages and drill string wear to prevent a loss in data for these models. Offsiders must ensure the sampling system is kept as clean as practicable and present the sample to the client in a professional manner. Our demonstrated commitment to quality has enabled us to build numerous long term relationships with clients.



Cleaned vs. not cleaned between rods.

DUPLICATE FAILURES CAN INCREASE BY 5% – 15% IF NOT CLEANED!



TINK'S TIPS:

- **Take pride in your work**
- **Return adequate sample**
- **Keep equipment in prime condition**
- **Eliminate contamination**
- **Present our product with a high level of professionalism**



A great example of sample presentation, which was recently produced by two offsiders at Solomon.

FIRST AID TRAINING

As one of Australia’s safest drilling and blasting companies, we are committed to continuously adapting and improving our processes and training to ensure the safety of our staff on and off site.

In preparation for the new drilling season, the Alcoa crew completed multiple training and induction programs to develop their safety skills and knowledge.

Facilitated by Down To Earth, the crew participated in a group workplace first aid course at the Bibra Lake Training Centre, to ensure their skills are kept current and to maintain the confidence to deliver first aid in an emergency situation.



Keith and Brendan learning essential CPR skills.

DRILL ASSISTANTS TO DRILLERS

There are no limits to what we can achieve together!

Our people are our most important asset and the key to the successful delivery of our objectives.

Through consistent hard work, mentoring and an ongoing commitment to safety, the following people have been promoted to drillers and are striving to reach new targets at Alcoa.

MEET YOUR NEW DRILLERS:



Name: James Hayhurst

Position: Driller (Level 2)

Start Date: August 2018



Name: Keith Grimlinger

Position: Driller (Level 2)

Start Date: August 2017



Name: Dirk Nilson

Position: Driller (Level 1)

Start Date: November 2018

CONGRATULATIONS ON YOUR ACHIEVEMENT – WE LOOK FORWARD TO FOLLOWING YOUR CAREER PROGRESSION!

5 YEAR MILESTONES

Congratulations to our long serving employees who have reached a great achievement!

NAME	START DATE
Robert Armand	7 July 2015
Rick Iwanow	27 July 2015
Brendan Lye	28 July 2015
Michael Kostarelas	24 August 2015
Trevor Brensell	24 August 2015



JSW *PASSION
COLLABORATION
DETERMINATION
SAFETY*

PERTH BRANCH

+61 8 9494 1352
5 Corokia Way, Bibra Lake, WA 6163

PERTH TRAINING AND TECHNOLOGY CENTRE

+61 8 6370 5108
4 Kalmia Rd, Bibra Lake, WA 6163

info@jswaustralia.com
jswaustralia.com

