



Multi-Rig Management: How Intersect Technology Generates Efficient & Cost-Effective Operations

Speaker: Richard Levings – American Augers

Track VII-A: HDD

Date/Time: Tues., July 13; 10 -10:25 a.m.



Agenda:

1. Pilot Bore Intersect Operations

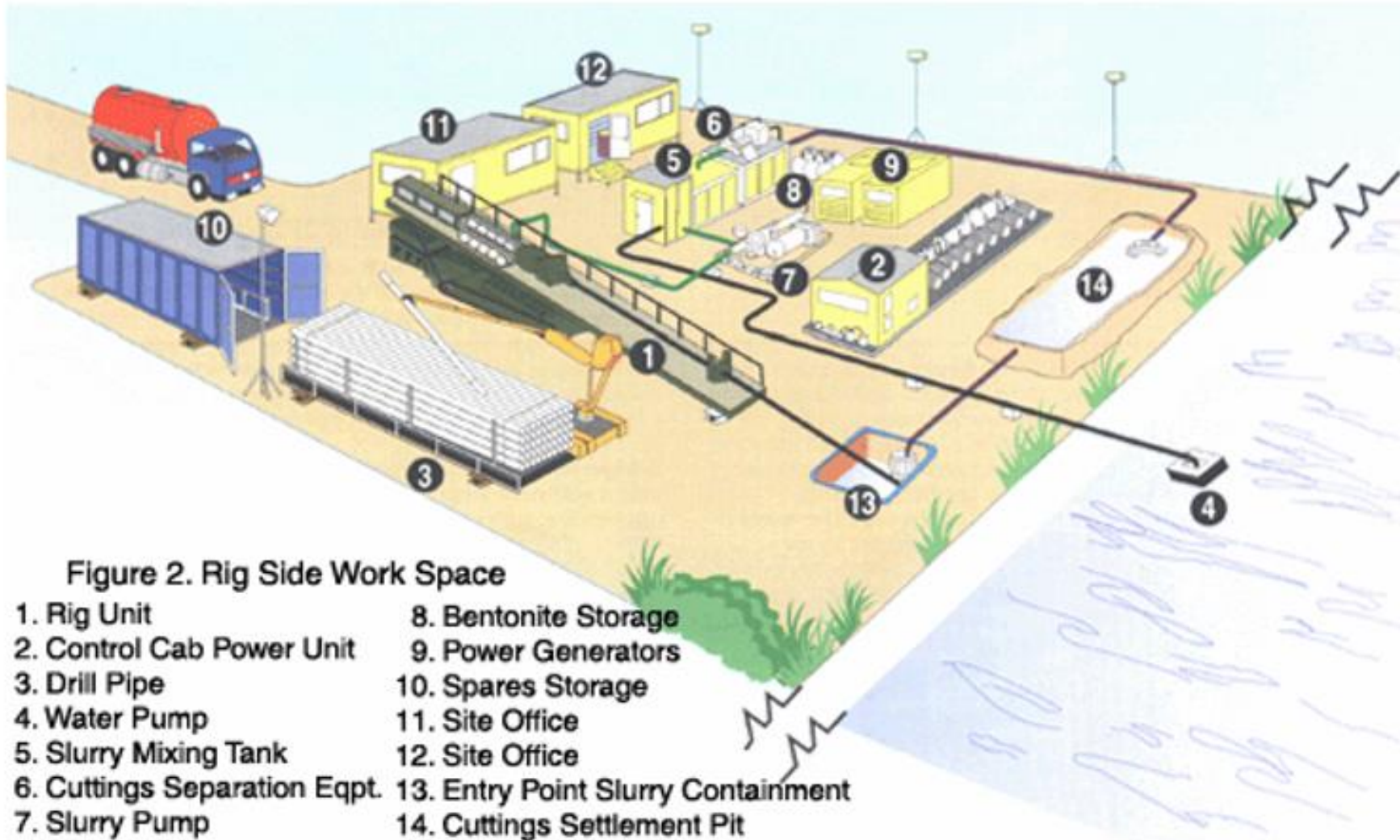
- A. Benefits of using two rigs

2. Catch Rig Technology

- A. Concept of a “Catch Rig”
- B. How a “Catch Rig” provides efficiency

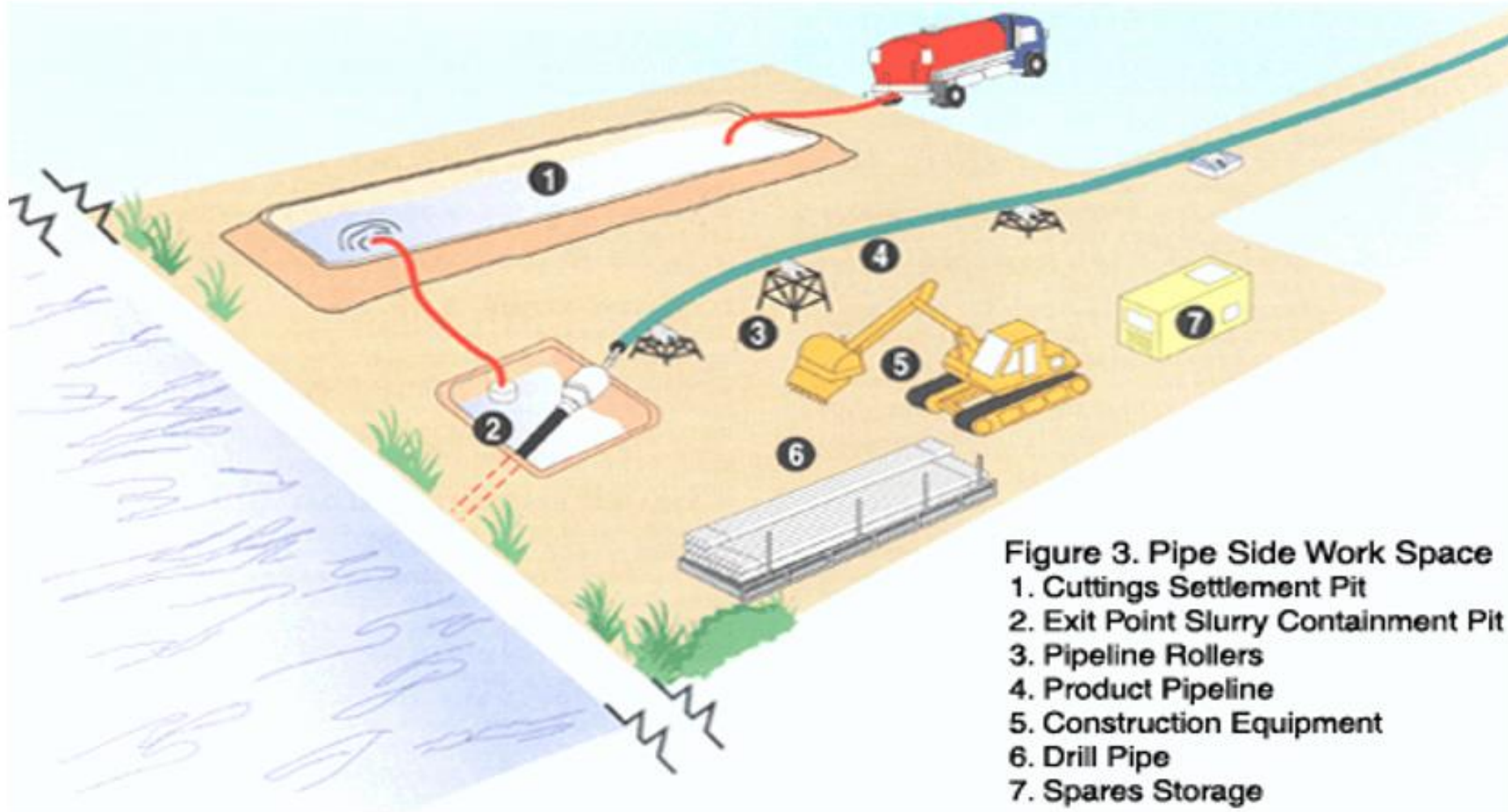


Entry Side



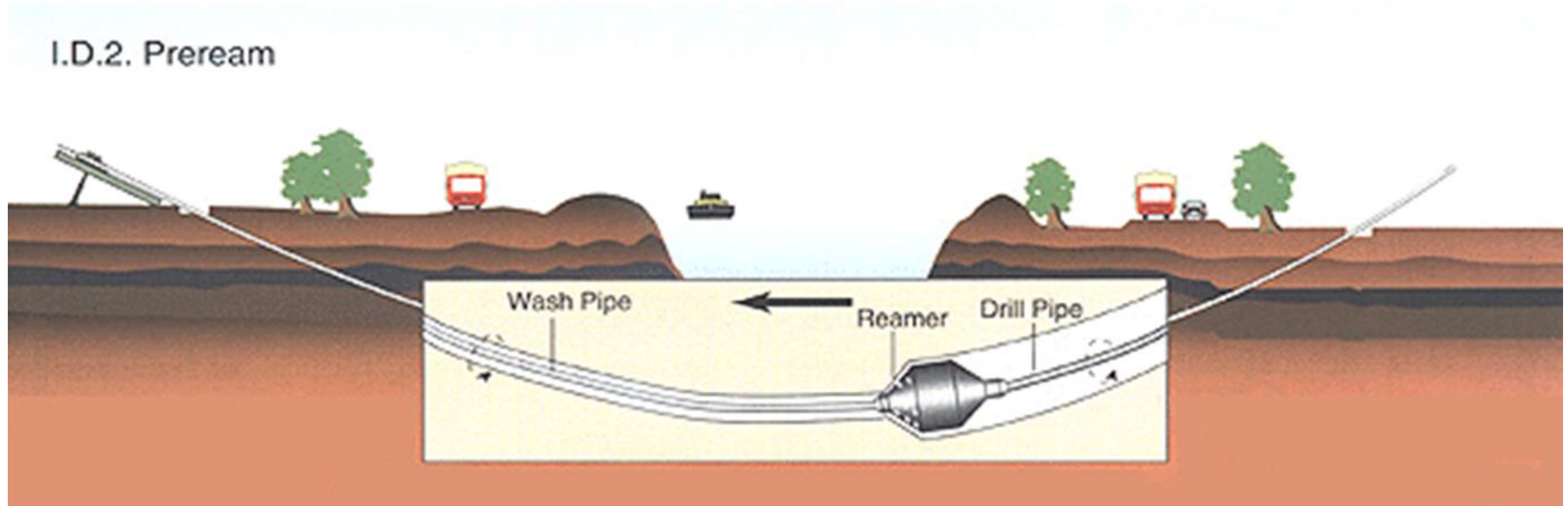


Exit Side





Standard HDD





Benefits of Intersect Technology

1. Extends the length capability of the HDD method
2. Improves effective steering practices
3. Reduces risk associated with Inadvertent Returns (IR)
4. Sets the entry and exit points in the designed positions
5. Utilizes two HDD systems for increase operational efficiency





Utilizing Catch Rigs in a Multi-Rig HDD System

1. Places a rig on the exit side of the project
2. Handles the trail pipe as it comes or goes
3. Handles the exit side drill fluid



Past Exit Side

1. Hand operated chain wrenches
2. Loose swivel and fluid hose
3. Long connection times





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Drive Rig



Catch Rig





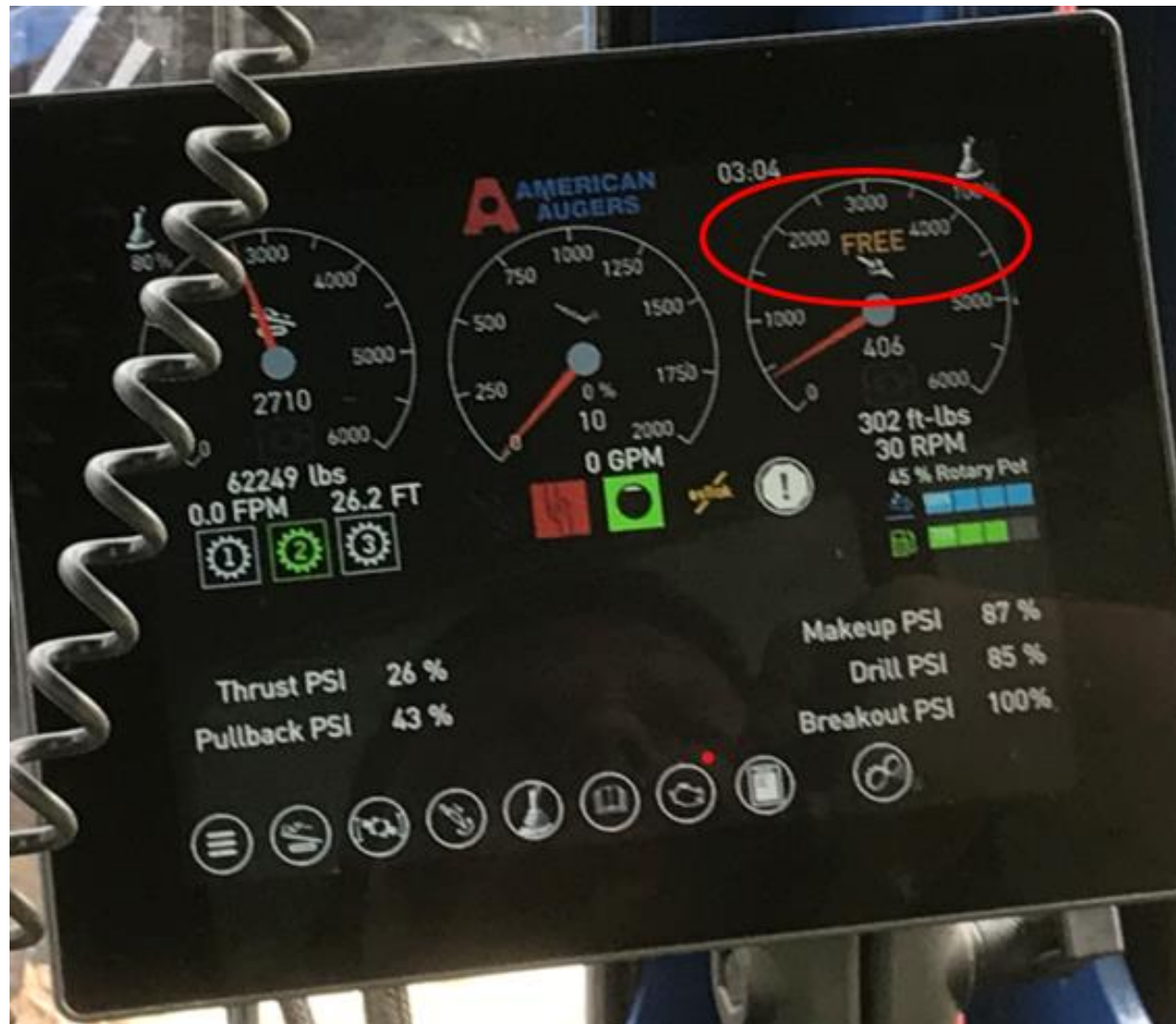
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Easy Selection





Benefits of Catch Rig Technology

1. Mitigates risks on longer bores by increasing the fluid capacity for better hole cleaning properties
2. Reduces downtime costs associated with moving the fluid systems when flow chooses directions
3. Decreases the connection times (costs) significantly
4. Eliminates long rotating tail strings



Summary

1. Multi-rig HDD systems have efficiency and performance advantages
2. Multi-rig HDD systems help mitigate risks on projects
3. Multi-rig HDD systems utilization is growing in popularity



Questions?

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