

## **Alameda-2 Appraisal Update – Webinar Presentation**

**SYDNEY, AUSTRALIA (28 August 2023)**

Attached is a presentation that the company proposes to use for its webinar to be held today at 11:30AM AEST.

Released by authority:

**For and on Behalf of the Board of  
Directors:**

Mr Andrew Purcell  
Executive Chairman

Ends -

**For further information please contact:**

Mr Cate Friedlander  
Company Secretary  
+61 2 83 23 66 00

## **MELBANA ENERGY LIMITED**

ASX Code: MAY

### **Alameda-2 Appraisal Update**

28 August 2023



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**Contingent and Prospective Resources:** Unless otherwise specified, the information that relates to Contingent Resources and Prospective Resources for Melbana is based on, and fairly represents, information and supporting documentation compiled by Mr. Dean Johnstone, who is an employee of the company and has more than 34 years of relevant experience. Mr. Johnstone is a member of the American Association of Petroleum Geologists. Mr. Johnstone consents to the publication of the resource assessments contained herein. The Contingent Resource and Prospective Resource estimates are consistent with the definitions of hydrocarbon resources that appear in the ASX Listing Rules.

**Prospective Resources Cautionary Statement (PRSC):** The estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Future exploration appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

# Index

1. Videos from the field
2. Objectives for Alameda-2 Appraisal Well
3. Alameda-2 Test Sequence
4. Structural interpretation
5. Summary of Alameda-2 appraisal results
6. Forward program
7. Q&A

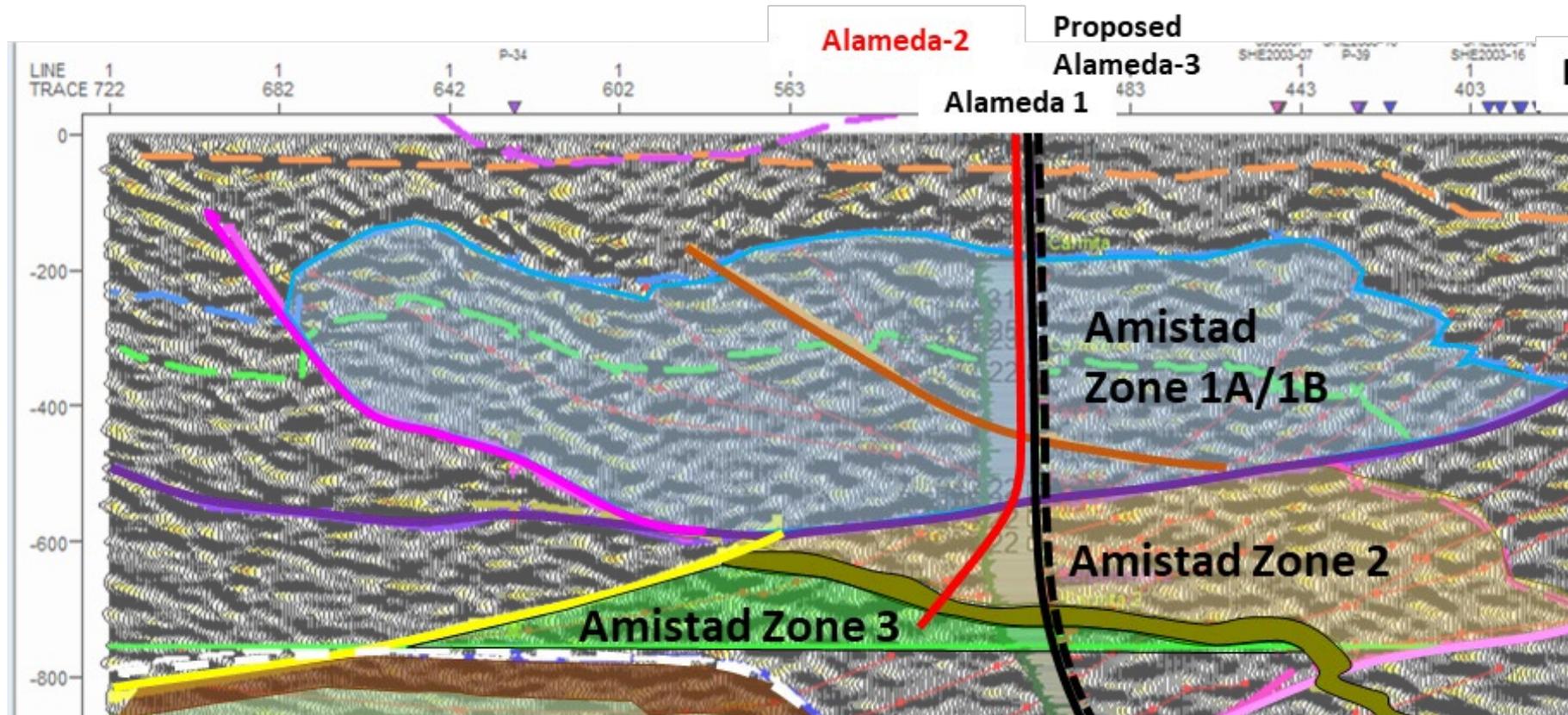
# Videos from the field

Oil in the tanks  
from DST-4  
(Unit-1B)



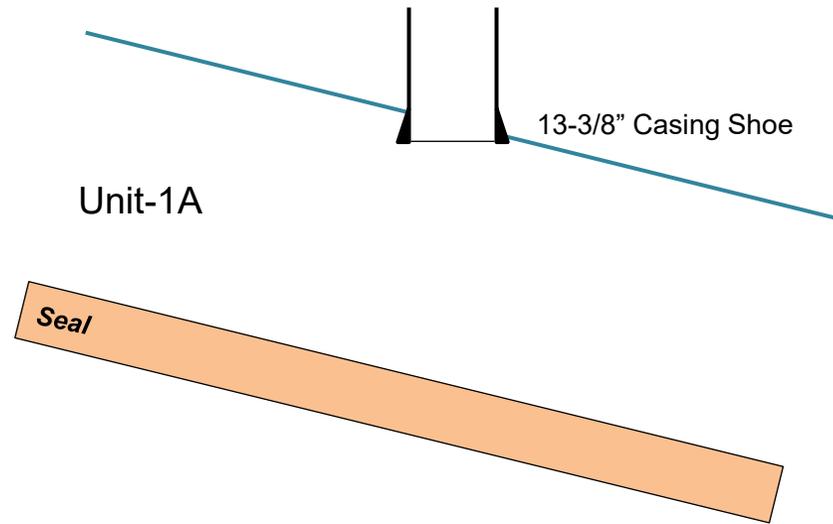
First look at oil  
from Unit-1B

# Objectives for Alameda-2 Appraisal Well



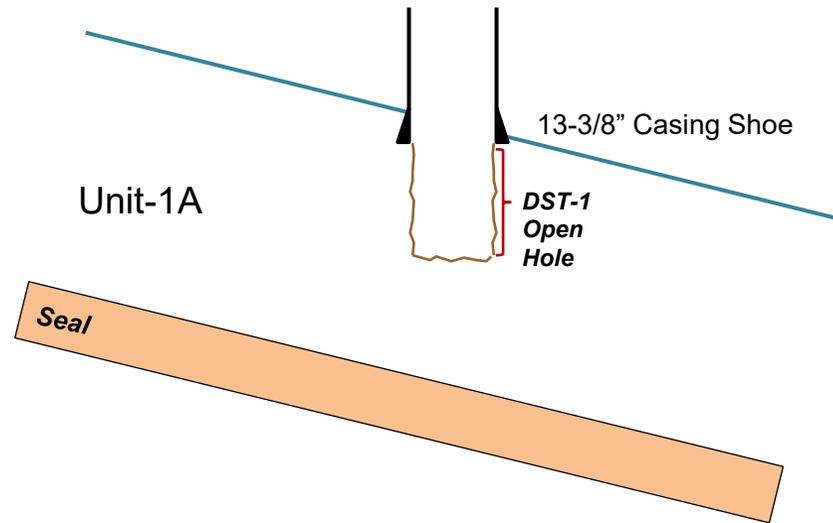
# Alameda-2 Test Sequence

Set 13-3/8"  
Casing in seal  
above Unit-1A



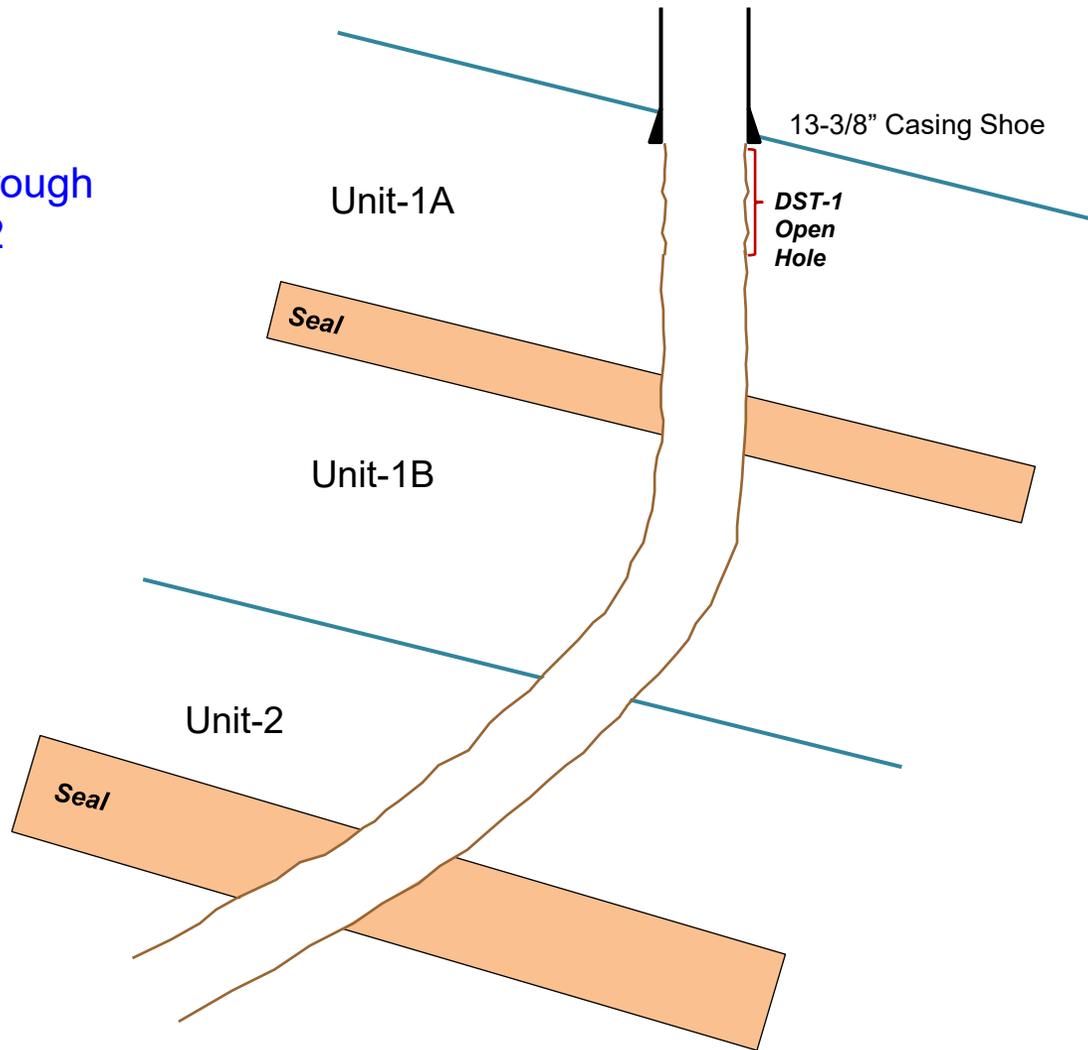
# Alameda-2 Test Sequence

Drill 8-1/2" hole into  
Unit-1A and Flow test  
DST-1 in open hole



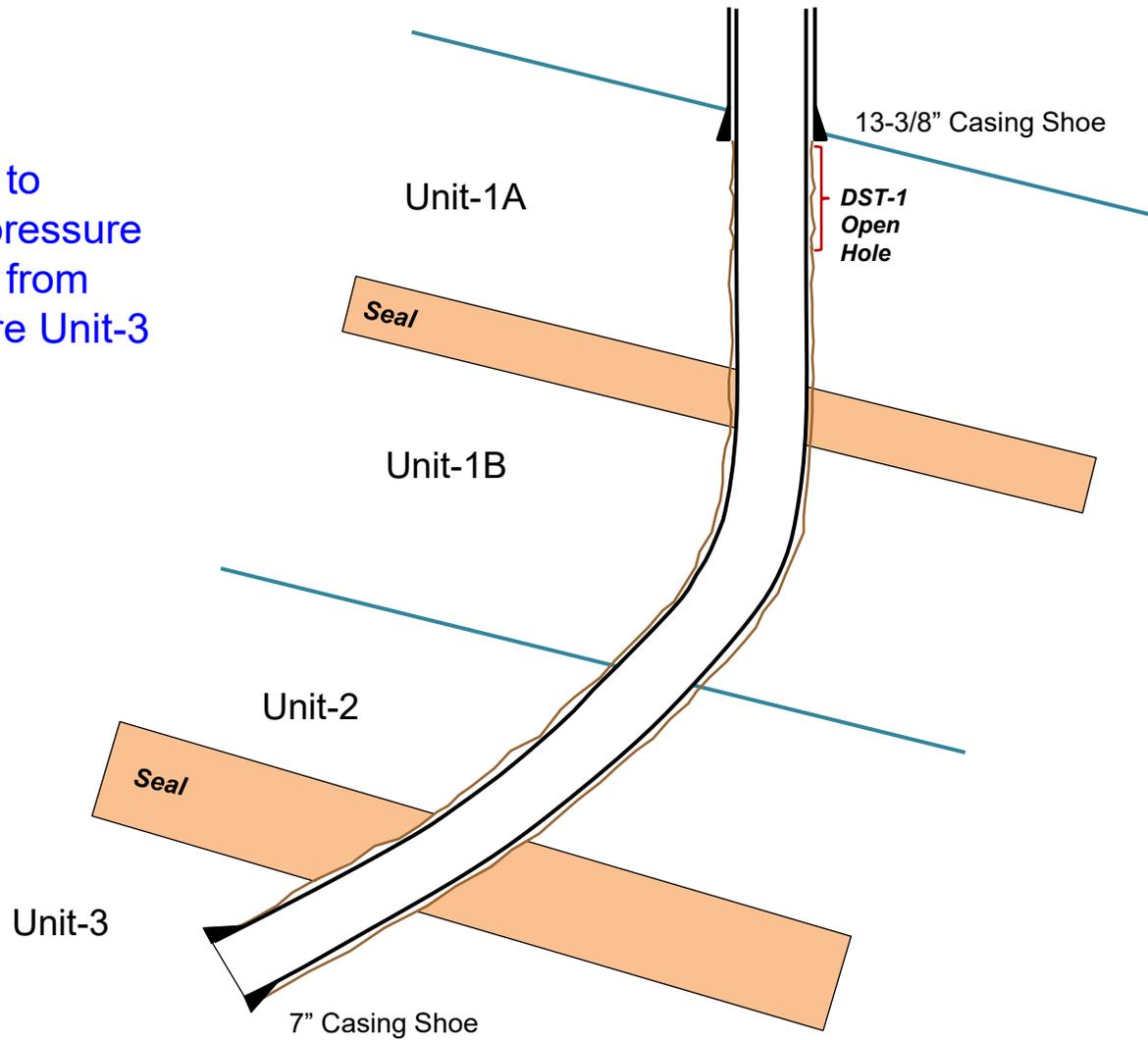
# Alameda-2 Test Sequence

Drill 8-1/2" hole through Units 1A, 1B and 2



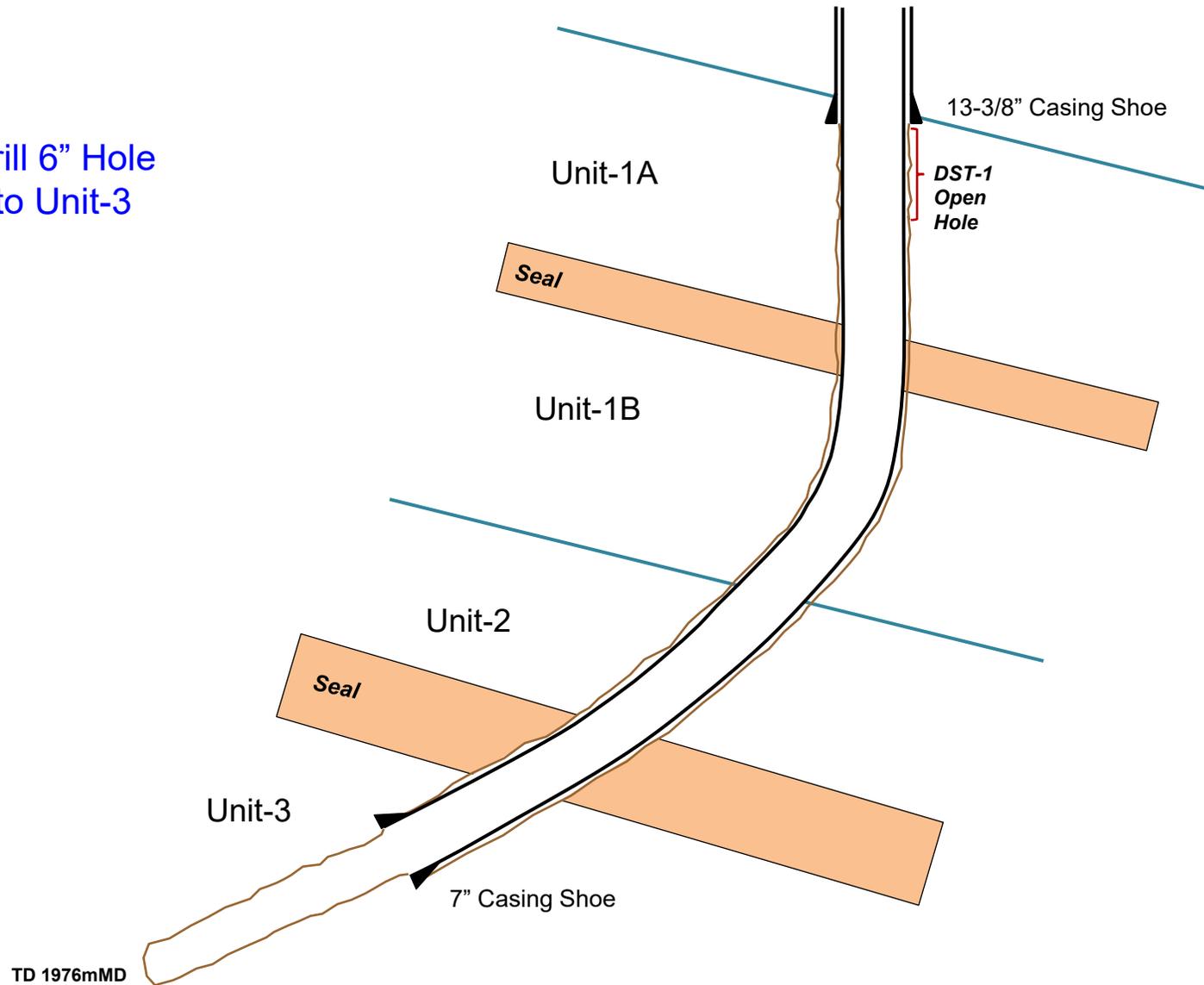
# Alameda-2 Test Sequence

Run 7" casing to isolate lower pressure Units 1A & 1B from higher pressure Unit-3



# Alameda-2 Test Sequence

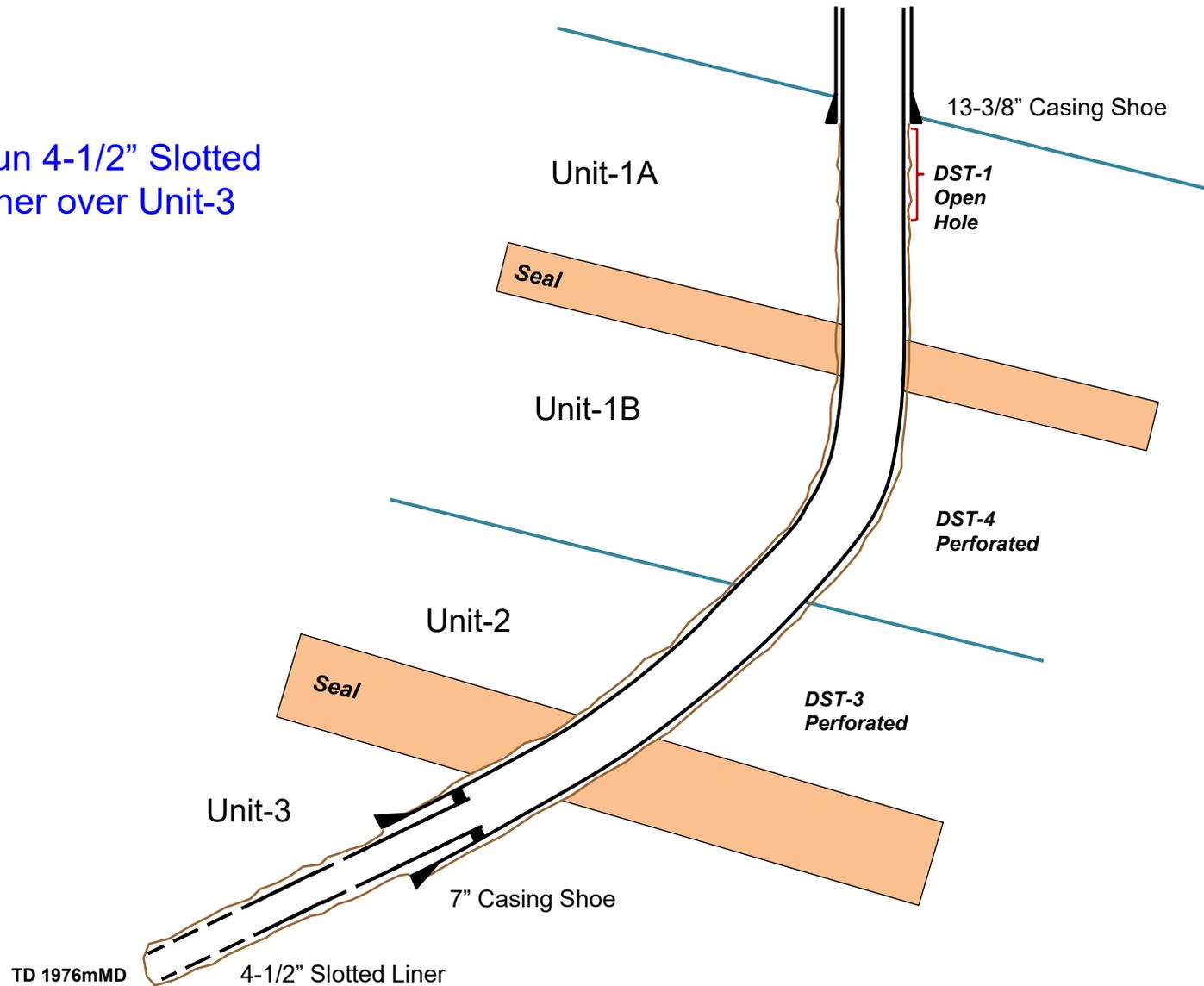
Drill 6" Hole  
into Unit-3



TD 1976mMD

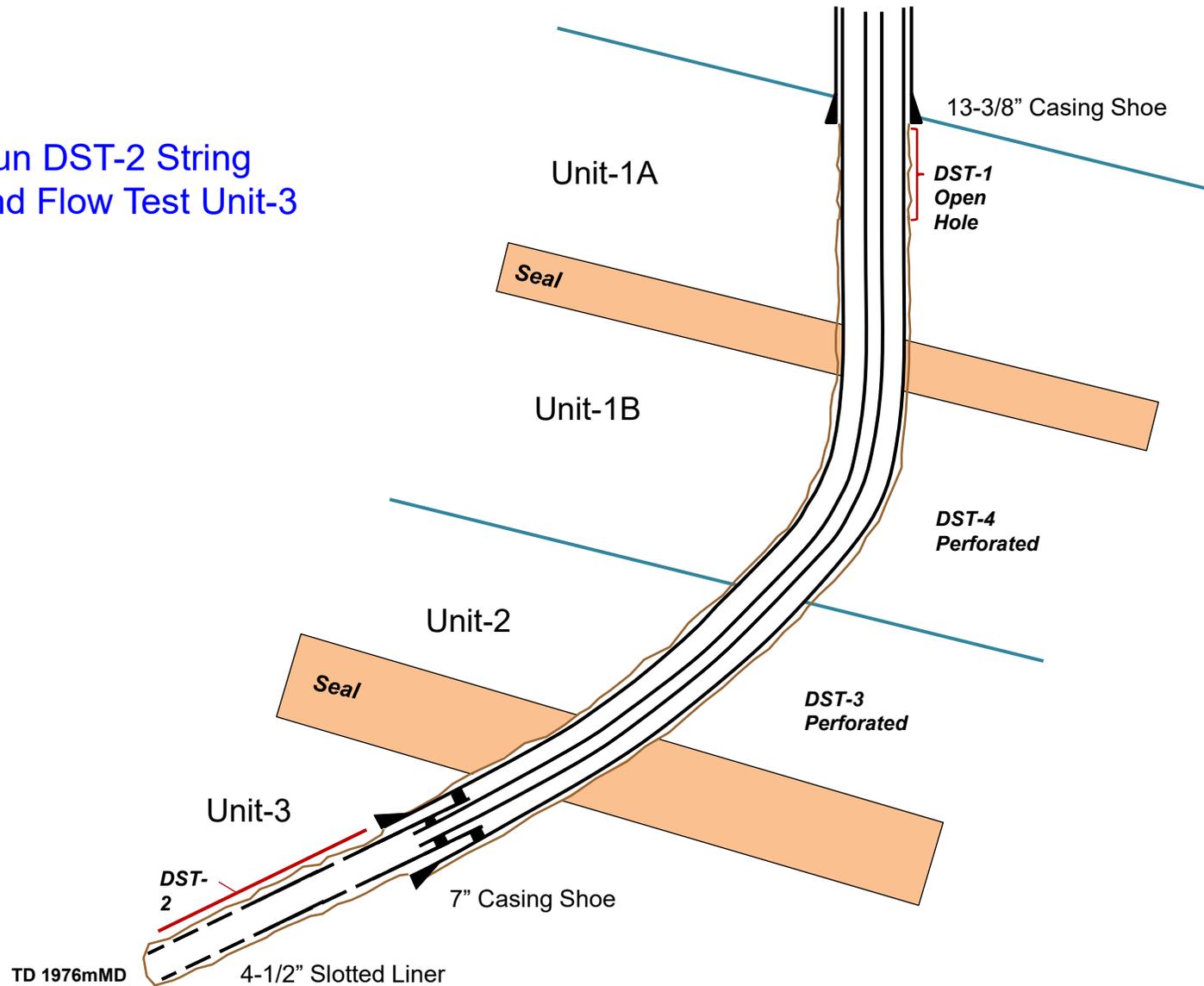
# Alameda-2 Test Sequence

Run 4-1/2" Slotted  
Liner over Unit-3



# Alameda-2 Test Sequence

Run DST-2 String  
and Flow Test Unit-3

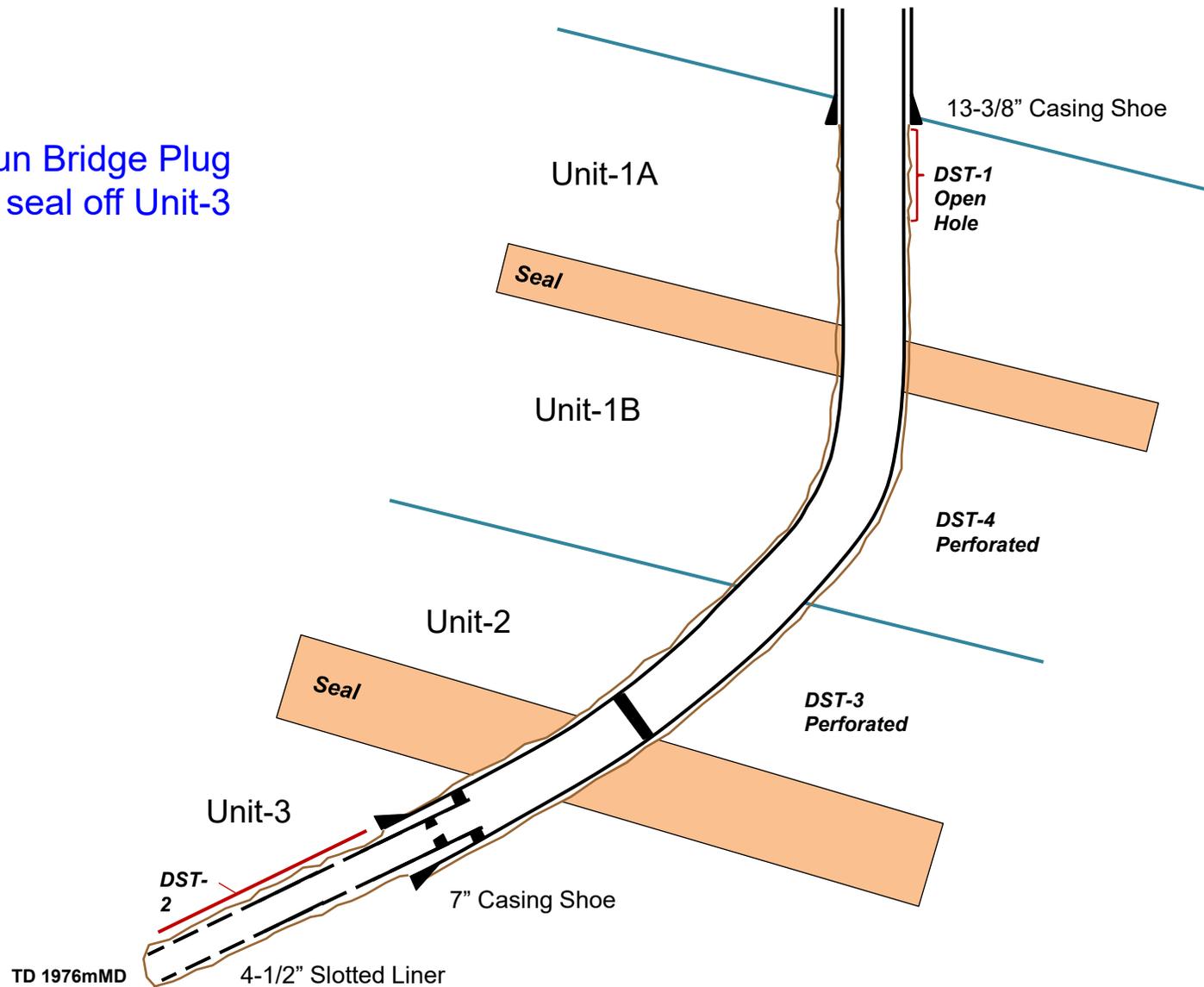


TD 1976mMD

4-1/2" Slotted Liner

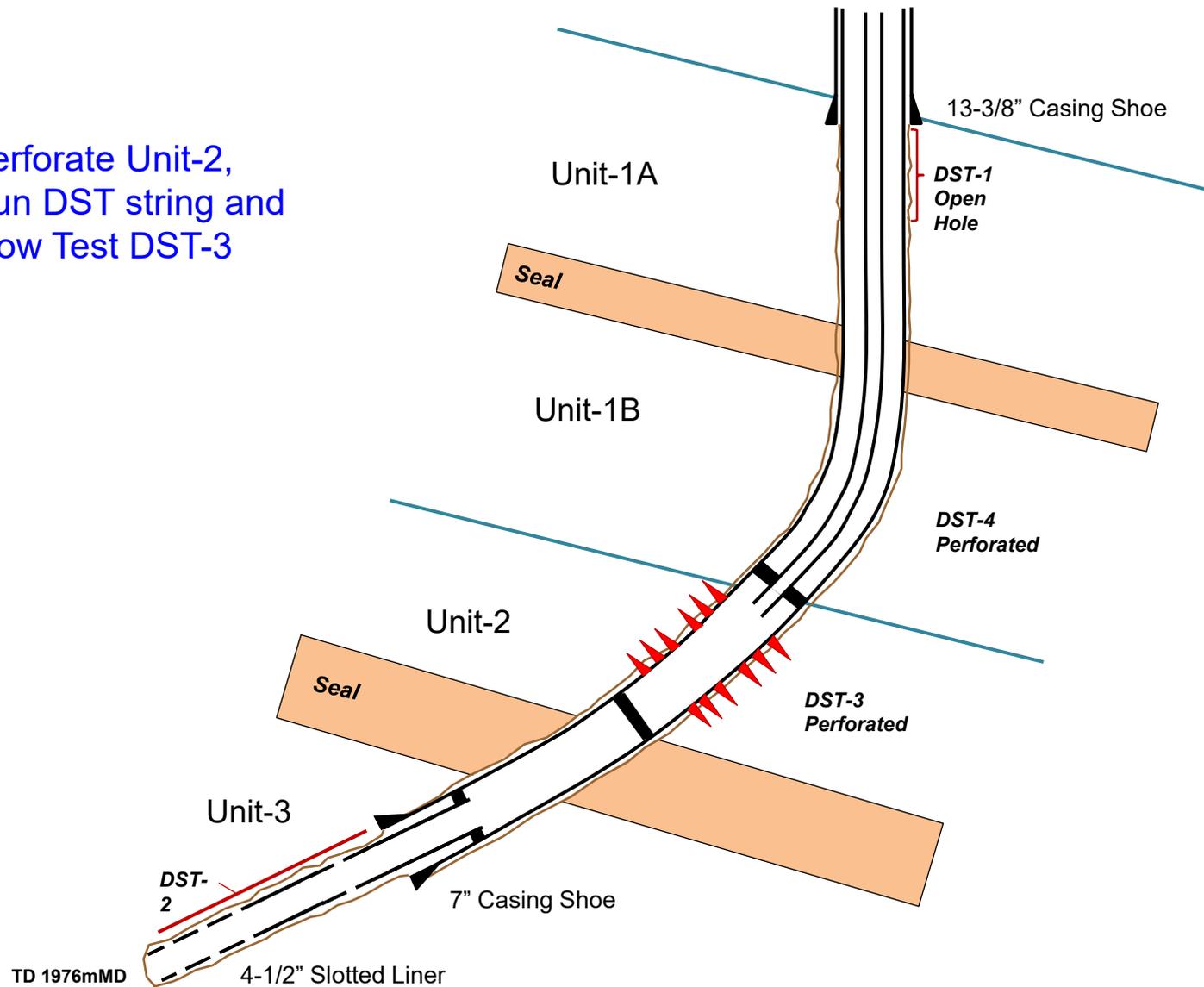
# Alameda-2 Test Sequence

Run Bridge Plug  
to seal off Unit-3



# Alameda-2 Test Sequence

Perforate Unit-2,  
Run DST string and  
Flow Test DST-3

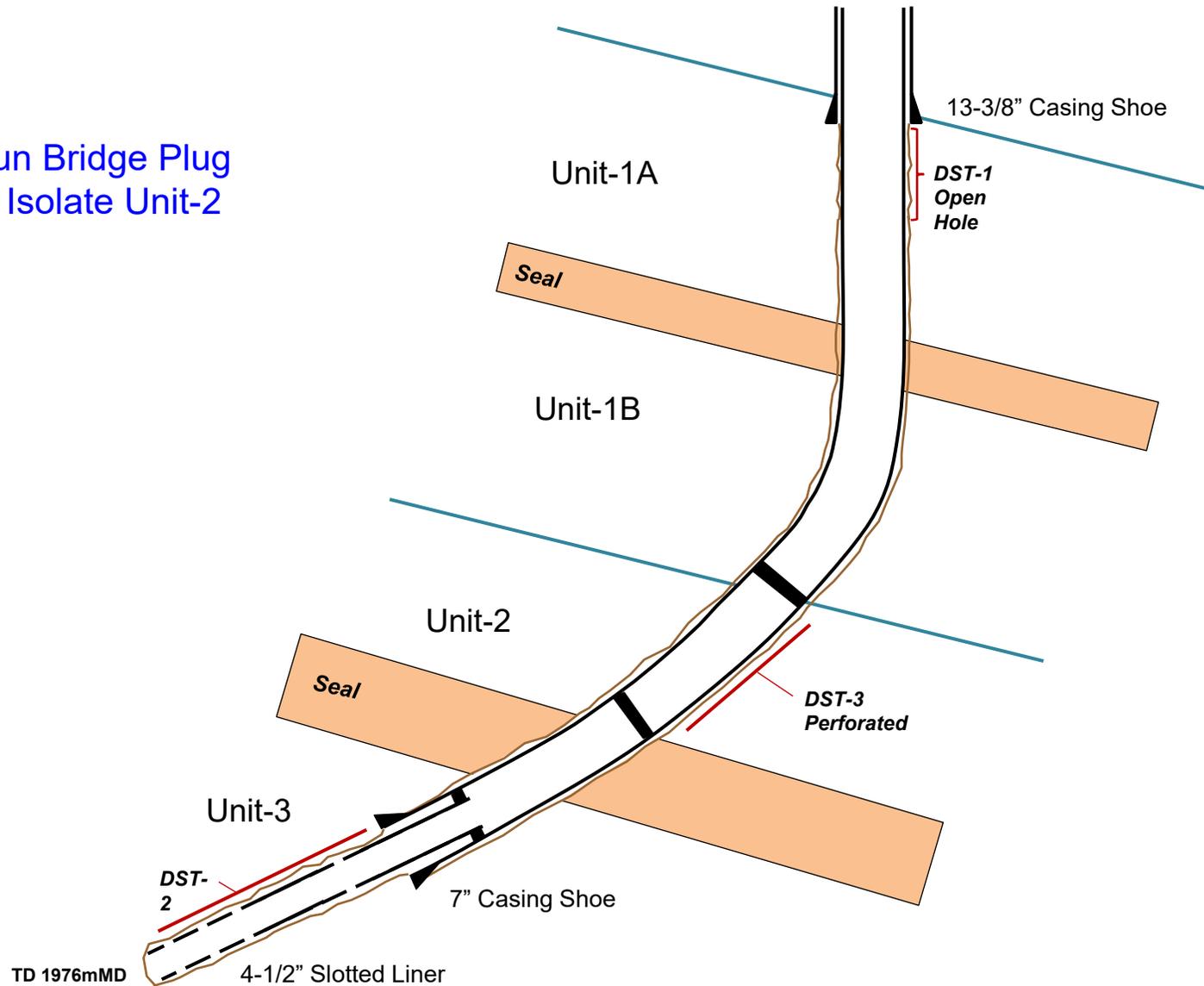


TD 1976mMD

4-1/2" Slotted Liner

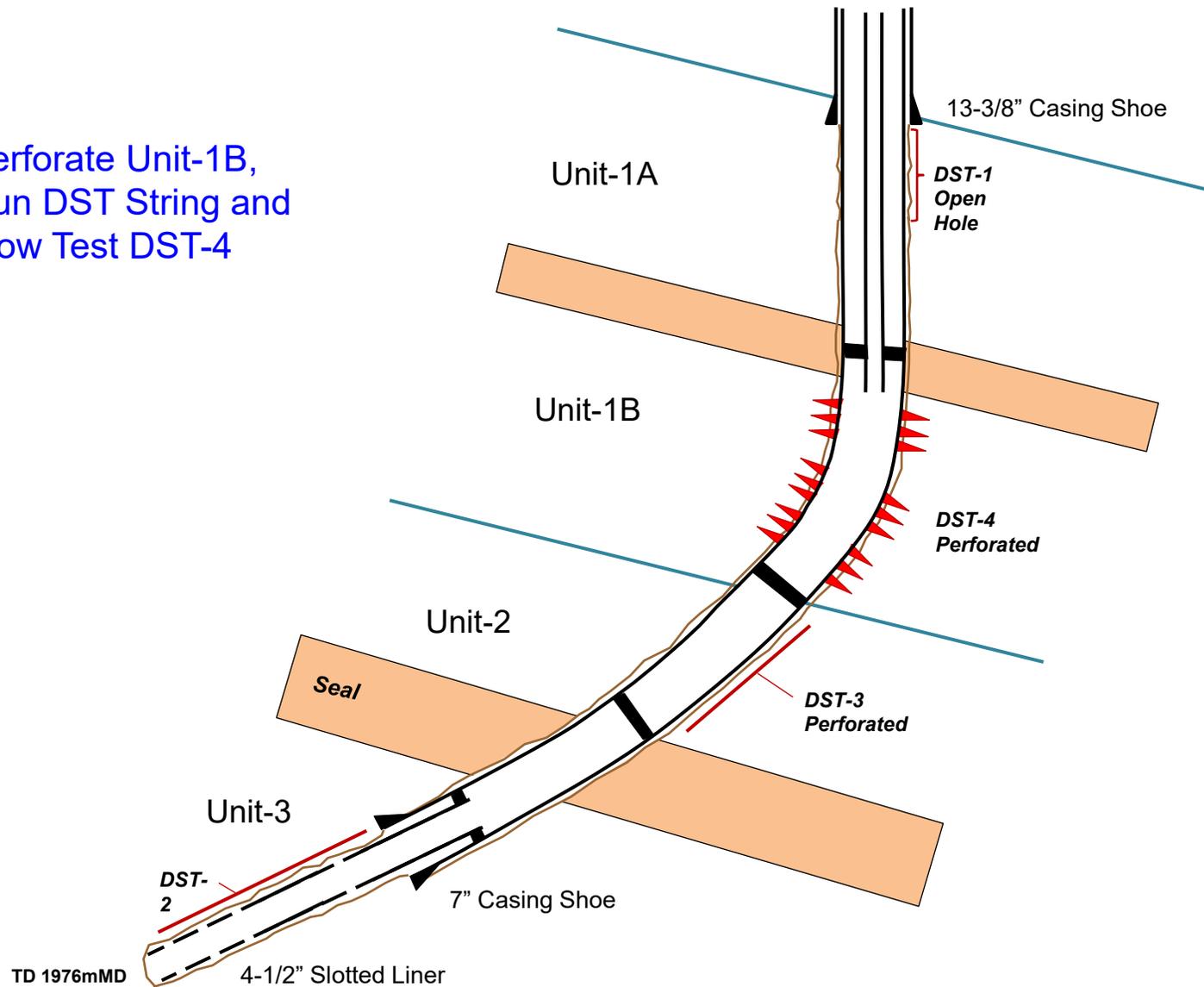
# Alameda-2 Test Sequence

Run Bridge Plug to Isolate Unit-2



# Alameda-2 Test Sequence

Perforate Unit-1B,  
Run DST String and  
Flow Test DST-4

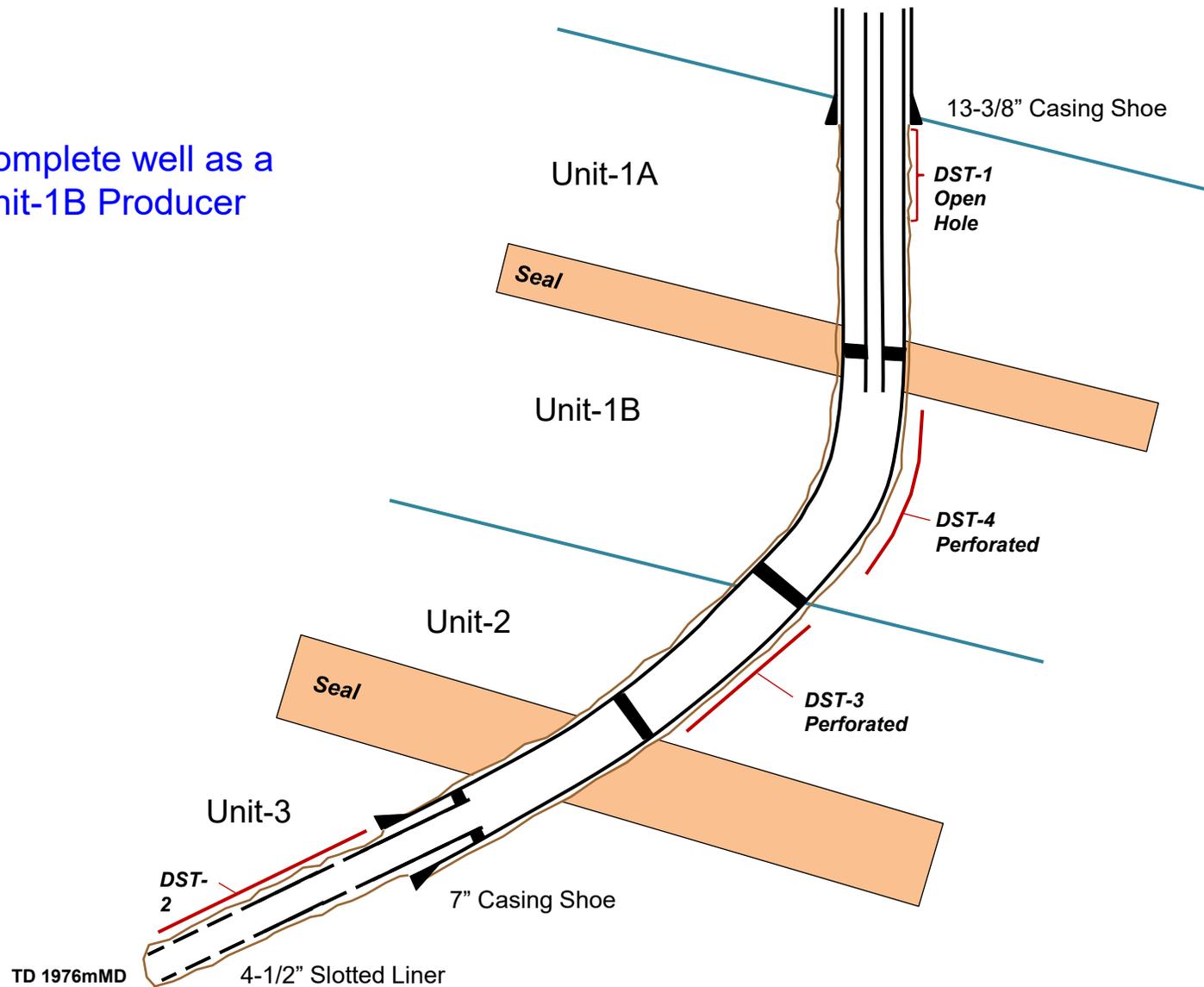


TD 1976mMD

4-1/2" Slotted Liner

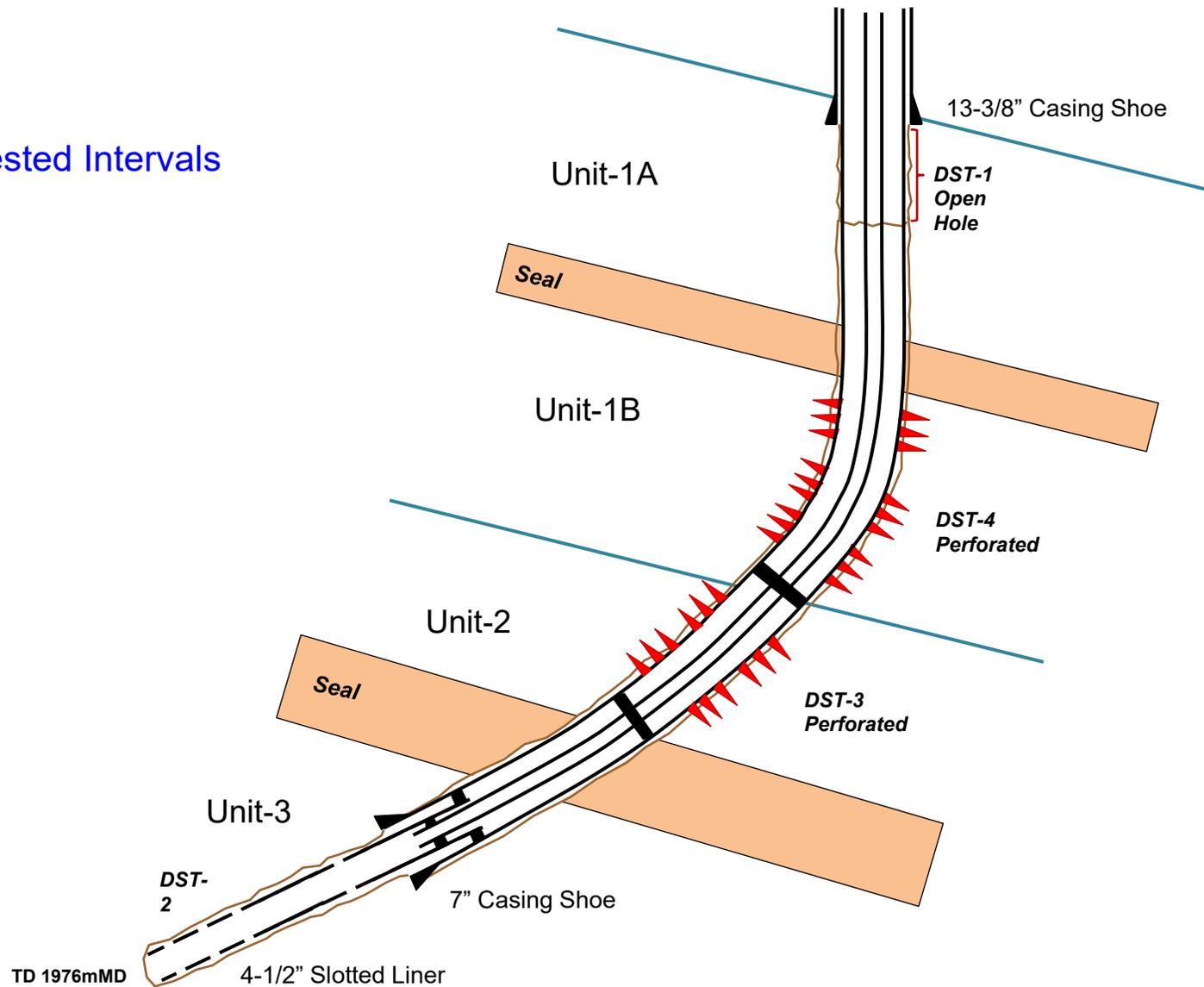
# Alameda-2 Test Sequence

Complete well as a  
Unit-1B Producer



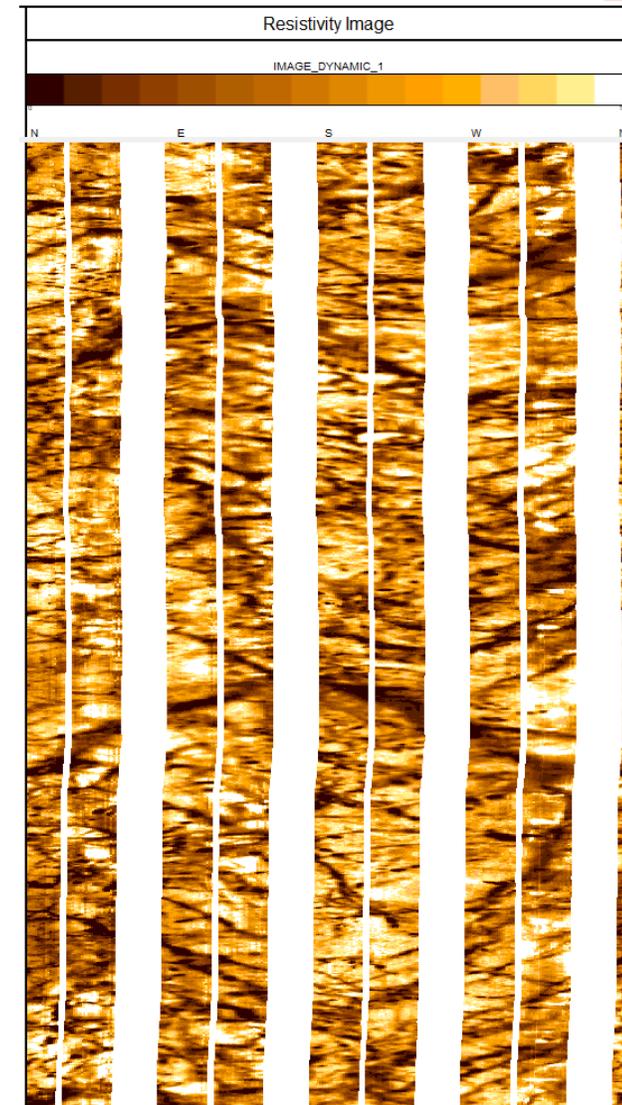
# Alameda-2 Test Sequence

Tested Intervals

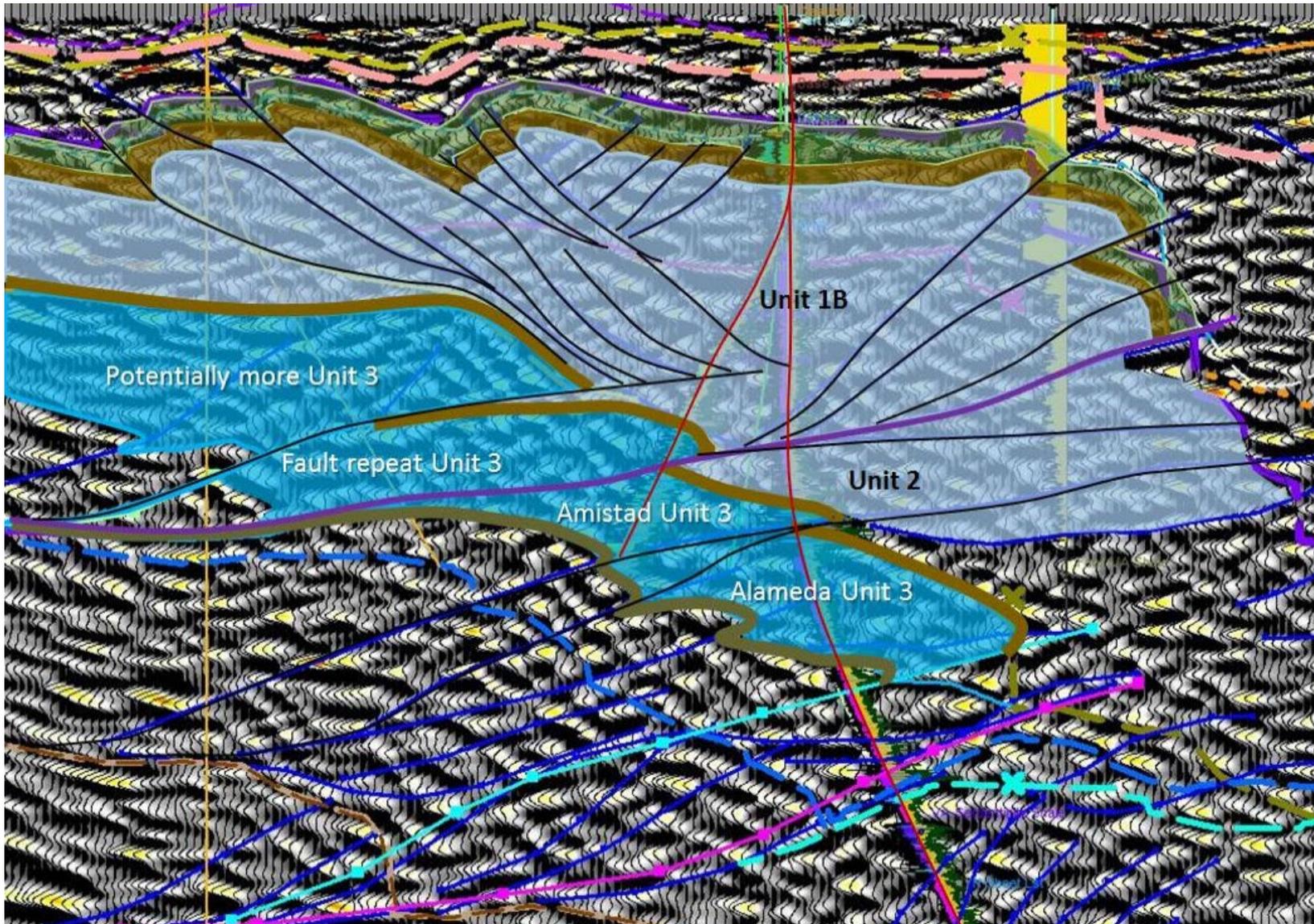


# Alameda-2 Test Sequence

Resistivity borehole image located directly opposite the Unit 1B perforations. High density of natural fractures are the contributing factor to high oil flow rate.



# Structural Interpretation – Correlation between Alameda-1 and Alameda-2



|            |   |
|------------|---|
| Unit 1A    | heavier oil (12° API)                                 |
| Shale seal |   |
| Unit 1B    | lighter oil (19° API)                                 |
| Unit 2     | Footwall repeat of Unit 1B                            |
| Unit 3     | Alameda-2<br>Fault repeated above<br>Alameda-1 Unit 3 |
| Unit 3     | Alameda-1   |

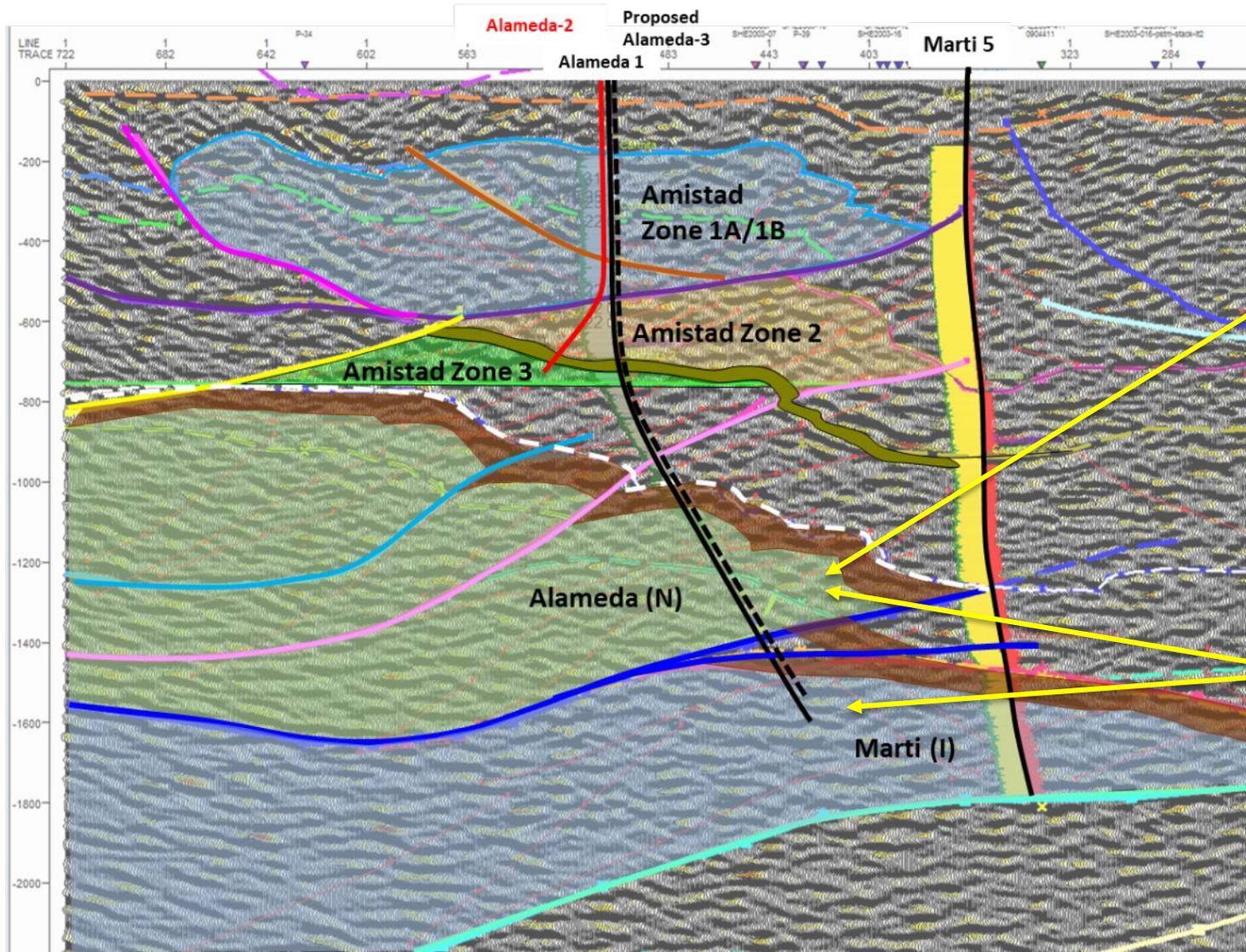
# Summary of Alameda-2 appraisal results to date

- Unit 1A recovered 11.7° API oil with 3,783 cP viscosity at surface from a 63 metre MD interval starting from 445 metres MD. Flow rates at surface not established but 40 barrels of oil flowed unassisted to surface (through a 32/64" choke), exceeding expectations.
- Unit 3 intercepted 200 metres updip and 500 metres to the south of where Alameda-1 intercepted it. Moveable oil of a similar quality to Unit 1A confirmed. Testing indicated potential to flow at about 750 bopd.
- Pre-drill prognosed Unit 2 DST did not demonstrate moveable hydrocarbons to surface at the location tested.
- Unit 1B recovered 18.7° API oil with 30 cP viscosity at surface from a 70 metre TVD perforated section – less than 20% of the total Net Pay for Unit 1B (when incorporating fractures). Stabilised unassisted flow rate to surface of 1,235 bopd measured over 12 hours on a 36/64" choke, peaking at 1,903 bopd.
- Logged Net Pay for the entire Amistad Formation has been increased from 109 metres to 346 metres TVD – further increasing to 615 metres when the highly fractured limestones are incorporated (45% of the gross interval).
- Unit 1B has now been completed for future production, whilst Units 1A and 3 have been suspended for potential future development and production.



*Alameda-2 Completions Ran Successfully*

# Forward Program



## Alameda

- intercepted down dip. Potential for more interval thickness.

## Alameda + Marti

- High formation pressures.
- Quality oil shows.
- Together, potential for higher recoveries unassisted at surface.



Melbana Energy Limited  
ABN 43 066 447 952

Mezzanine Floor, 388 George Street  
Sydney NSW 2000  
AUSTRALIA

Contact

Telephone:

+61 (2) 8323 6600

Email:

[admin@melbana.com](mailto:admin@melbana.com)