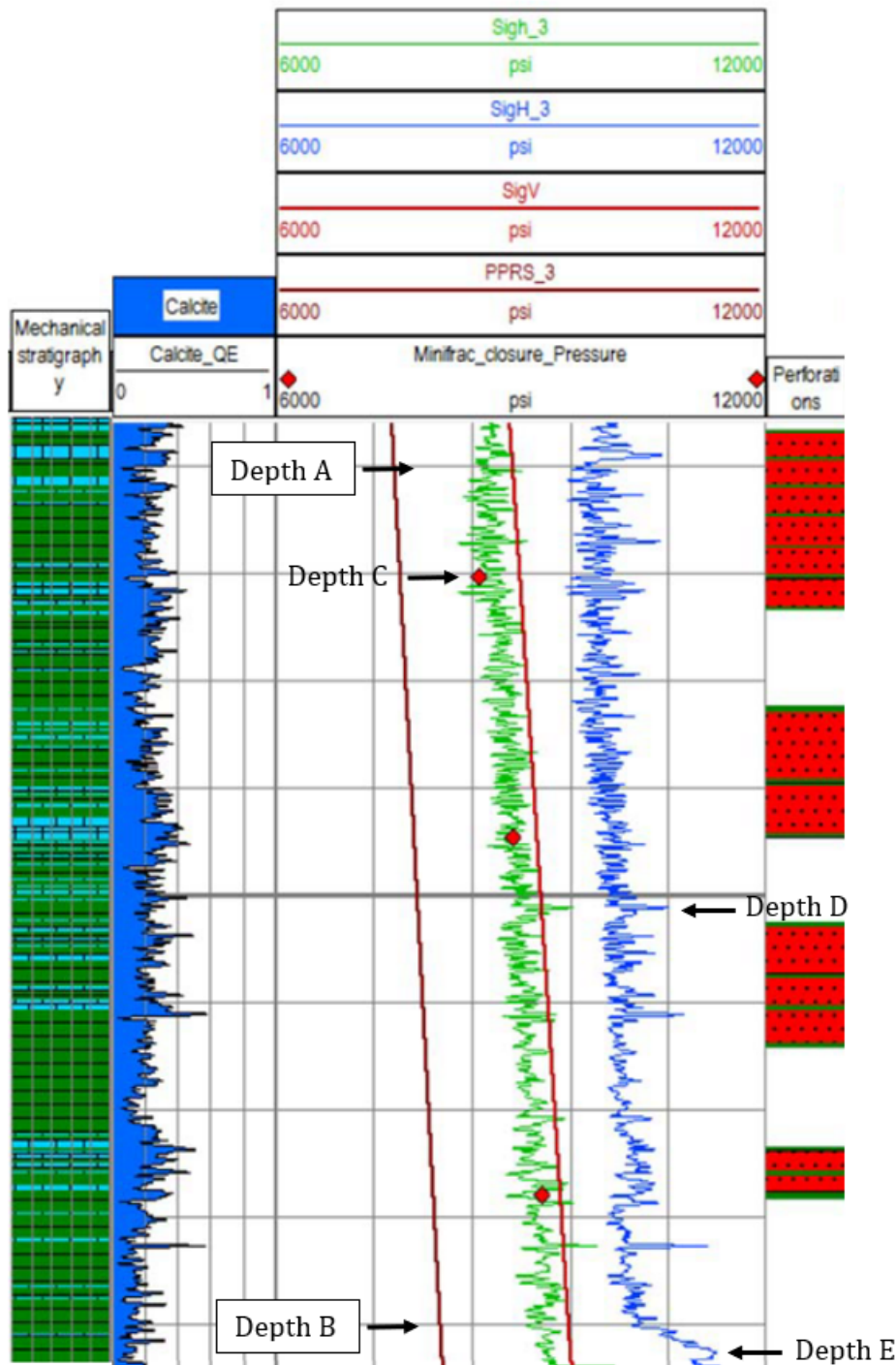


Pravda

—
—

Pravda







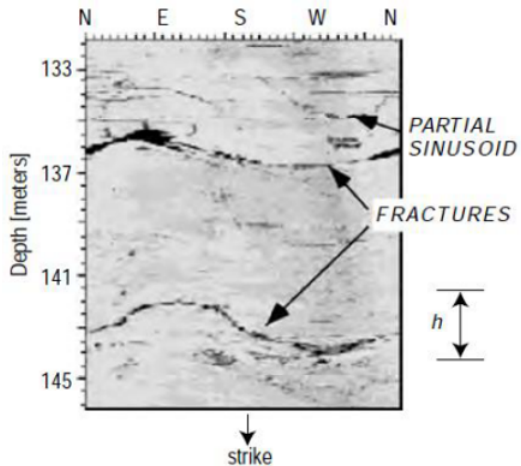




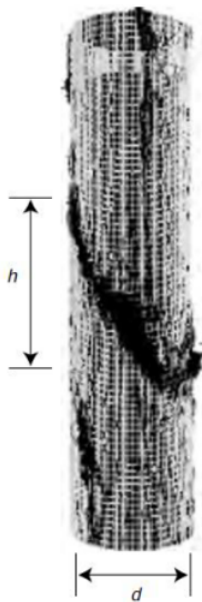




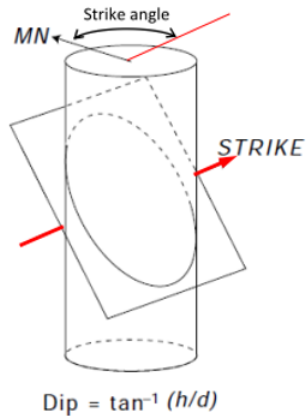
Un-wrapped image (ultrasonic)



3D-representation



Interpretation



(Zoback 2013, RM, Ch 5.3)

SPRING







BO



100

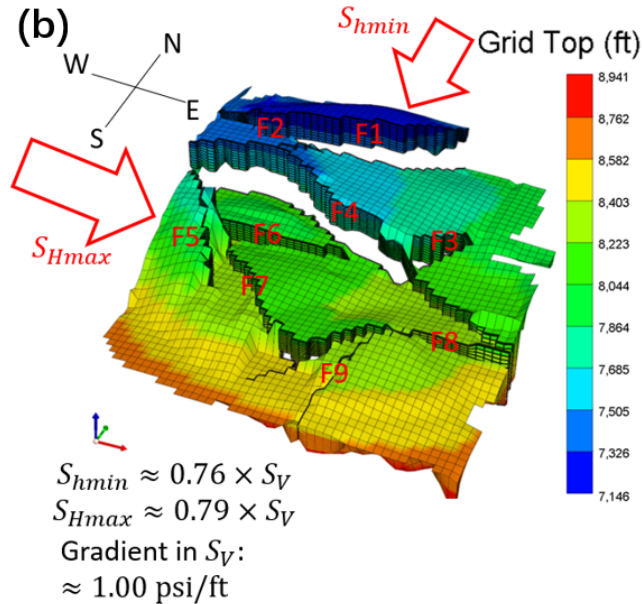
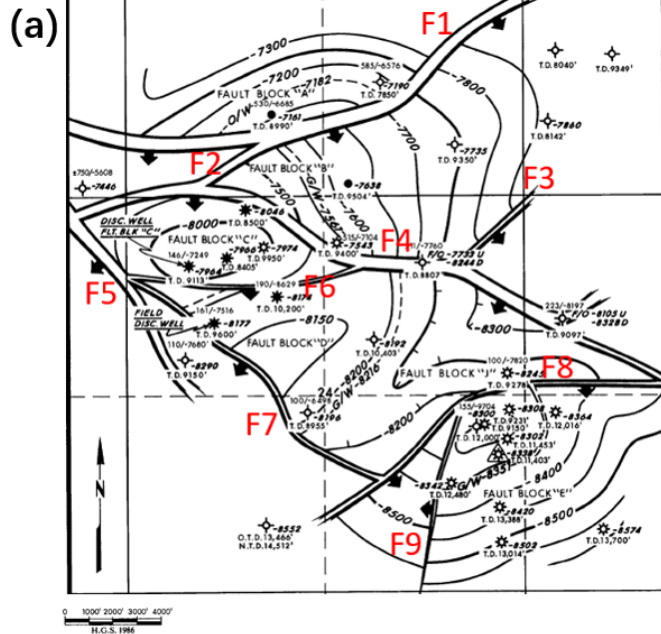




BOB



BOB



SPRING









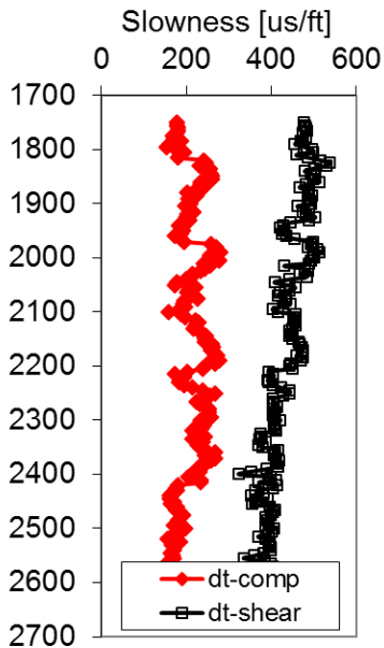
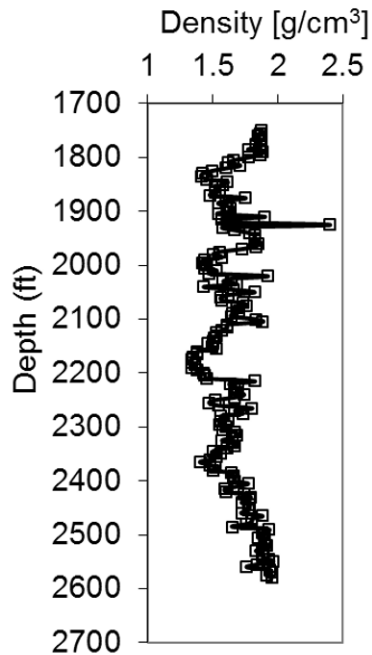


ESL:OB5:ESL:OB5

Exercise 1-2

A pixelated, black and white graphic of the text "EAST OF THE MOUNTAINS". The text is rendered in a stylized, blocky font with a dithered or pixelated appearance. The letters are thick and the spacing is consistent. The overall aesthetic is reminiscent of early digital art or video game titles.







































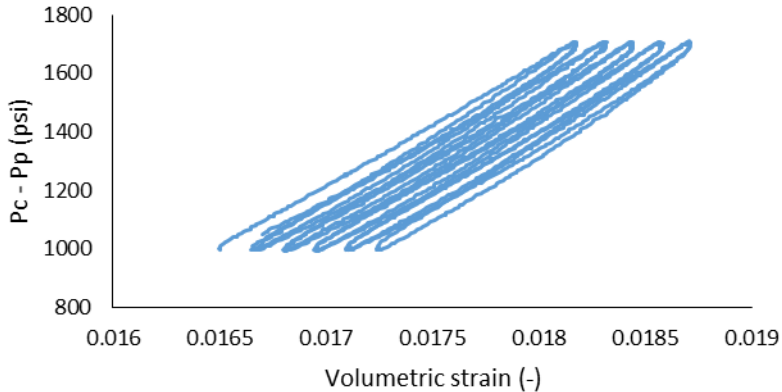












Production : 120 bbl/day
Min. BHP : 240 psi

1000 ft

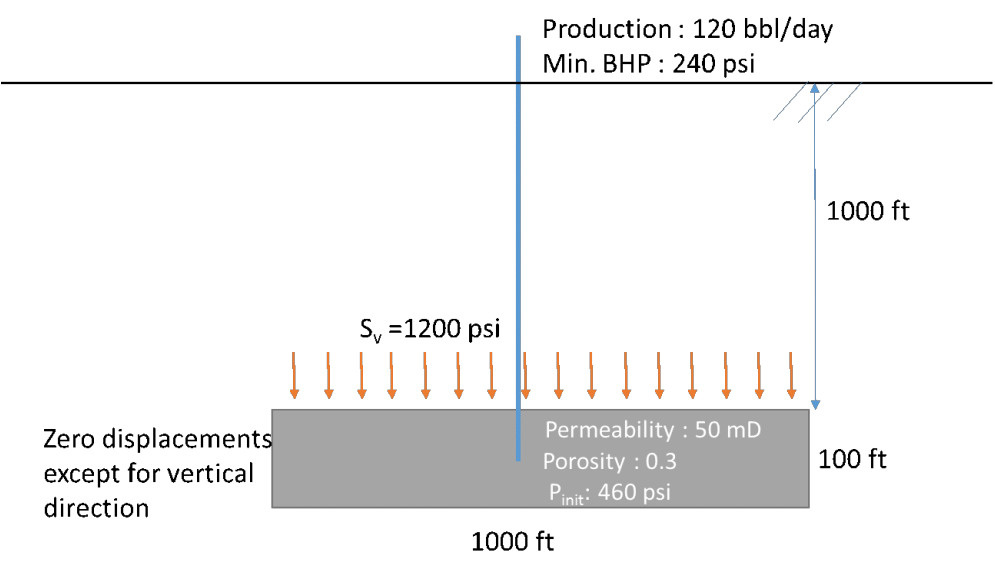
$S_v = 1200$ psi

Zero displacements
except for vertical
direction

Permeability : 50 mD
Porosity : 0.3
 P_{init} : 460 psi

100 ft

1000 ft



$$\alpha \frac{(1-2v)}{(1-v)}$$







THE POWER OF THE

Q1E2E+Q2E











123456789



ESP-00-0100-1000























$$\frac{d\epsilon_p}{d\epsilon} = \frac{\kappa}{v} \frac{dp'}{dp}, \quad \frac{d\epsilon_q}{d\epsilon} = \frac{dq}{2\epsilon}$$

$$\begin{bmatrix} d\varepsilon_p^p \\ d\varepsilon_q^p \end{bmatrix} = \frac{\lambda - \kappa}{vp'(M^2 + \eta^2)} \begin{bmatrix} M^2 - \eta^2 & 2\eta \\ 2\eta & \frac{4\eta^2}{M^2 - \eta^2} \end{bmatrix} \begin{bmatrix} dp' \\ dq \end{bmatrix}$$





de

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ved

