

Isotropic VSP processing of oriented 3 Components

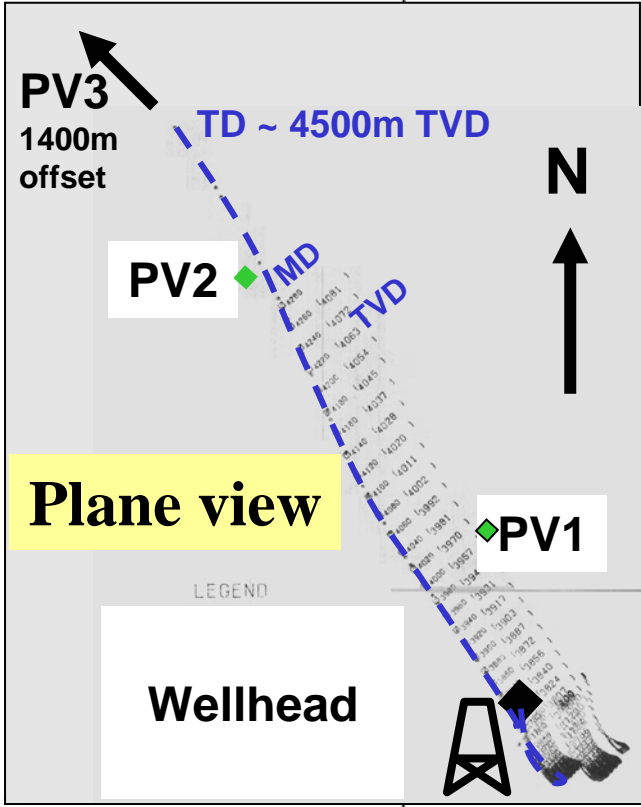
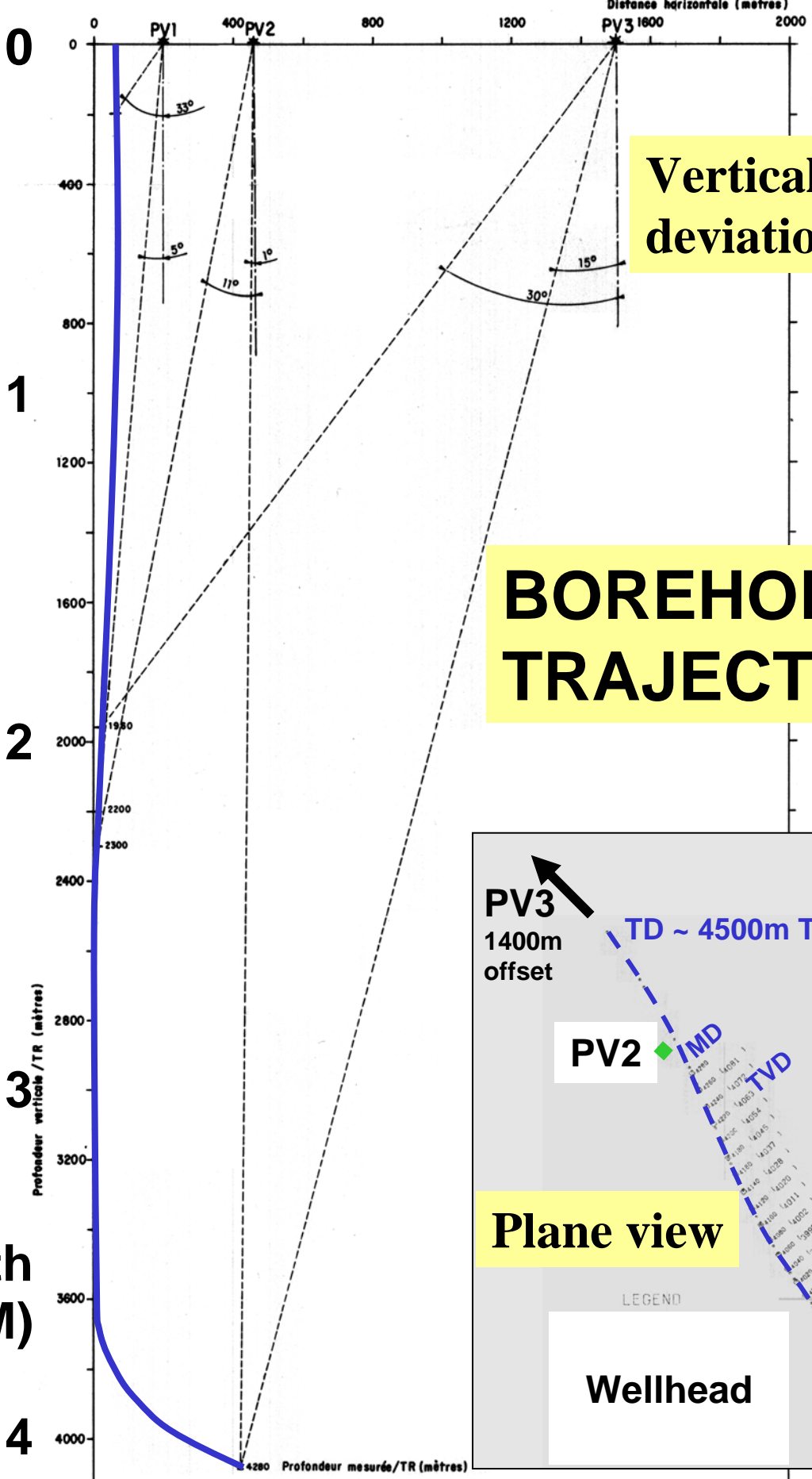
**Early example of 3C orientation and extraction
of P-P reflection polarisation aimed to improved
reliability of structural dip and structural imaging
of the borehole vicinity in a deep well;
onshore Offset - VSP dataset, vibroseis**

by H. Japiot, C. Goloubinoff, C. Naville, CGG, Massy

courtesy of SNEA-P – BOUSSENS, France, 1989

SE

NW

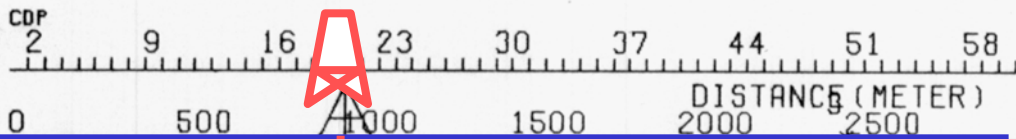


Depth (KM)

4

SE

NW



DEPTH (METER)

DEPTH (METER)

1000

1000

2000

2000

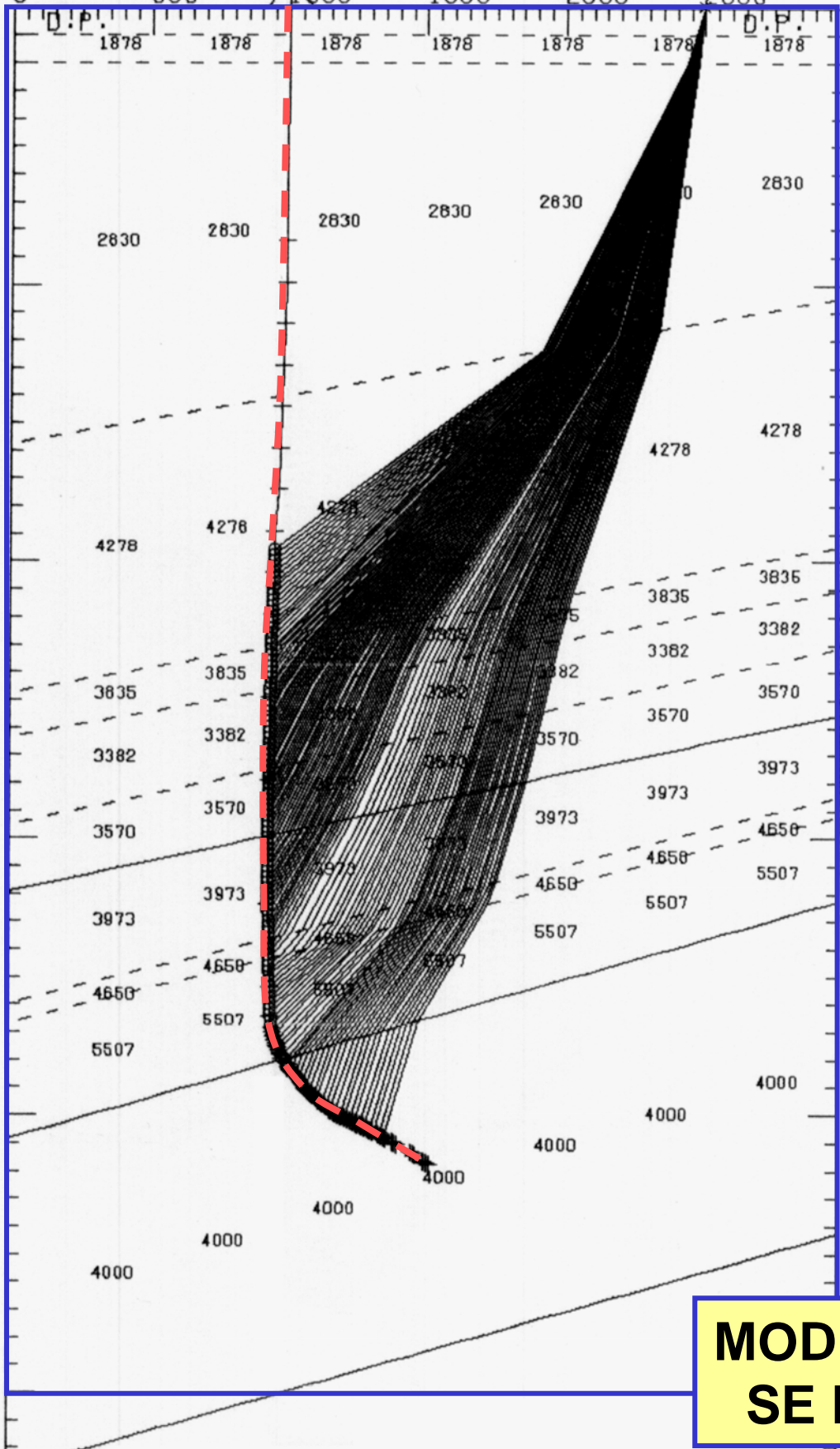
3000

3000

4000

4000

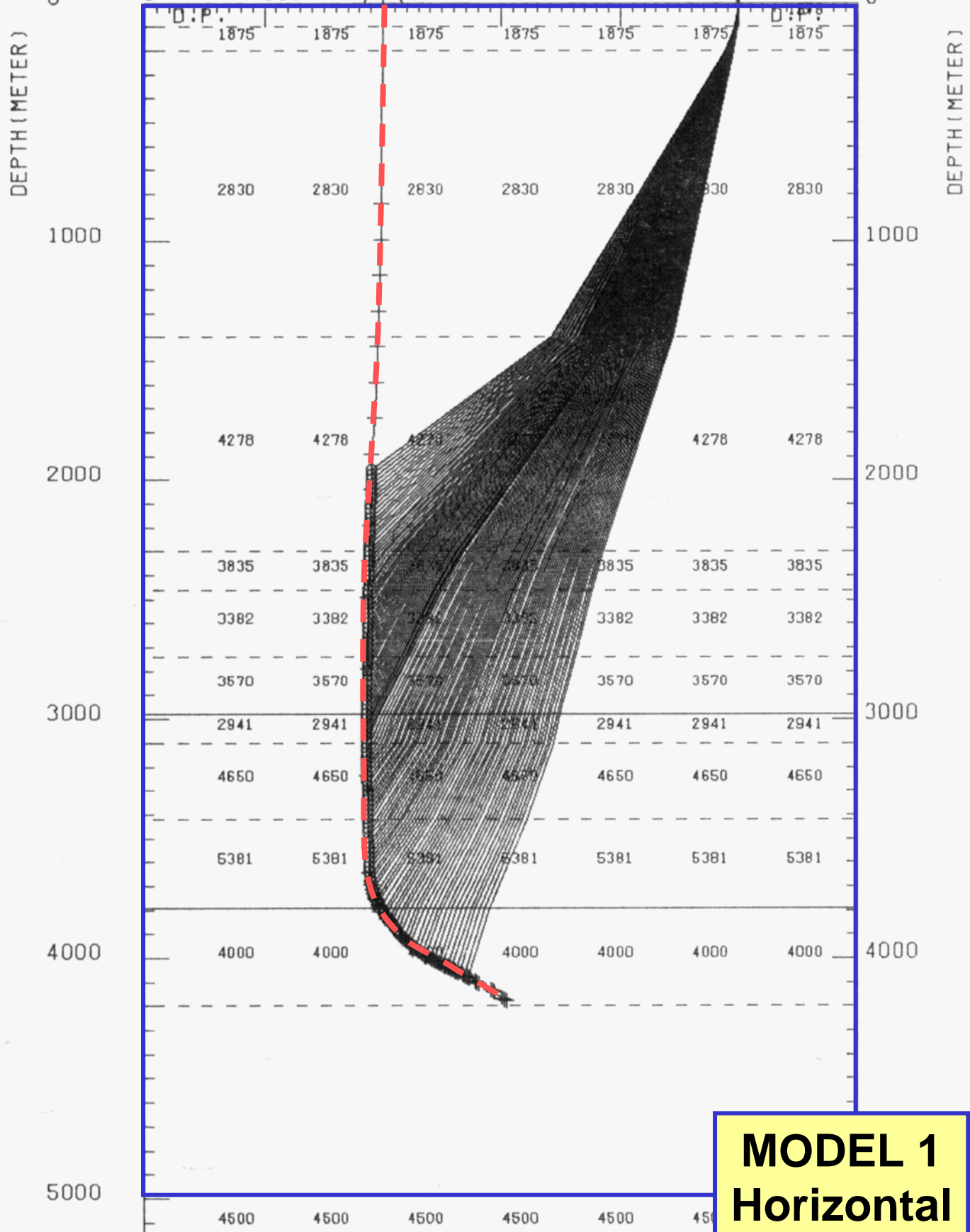
5000



MODEL 2
SE Dip

SE

NW



**MODEL 1
Horizontal**

SE

NW



DEPTH (METER)

DEPTH (METER)

1000

1000

2000

2000

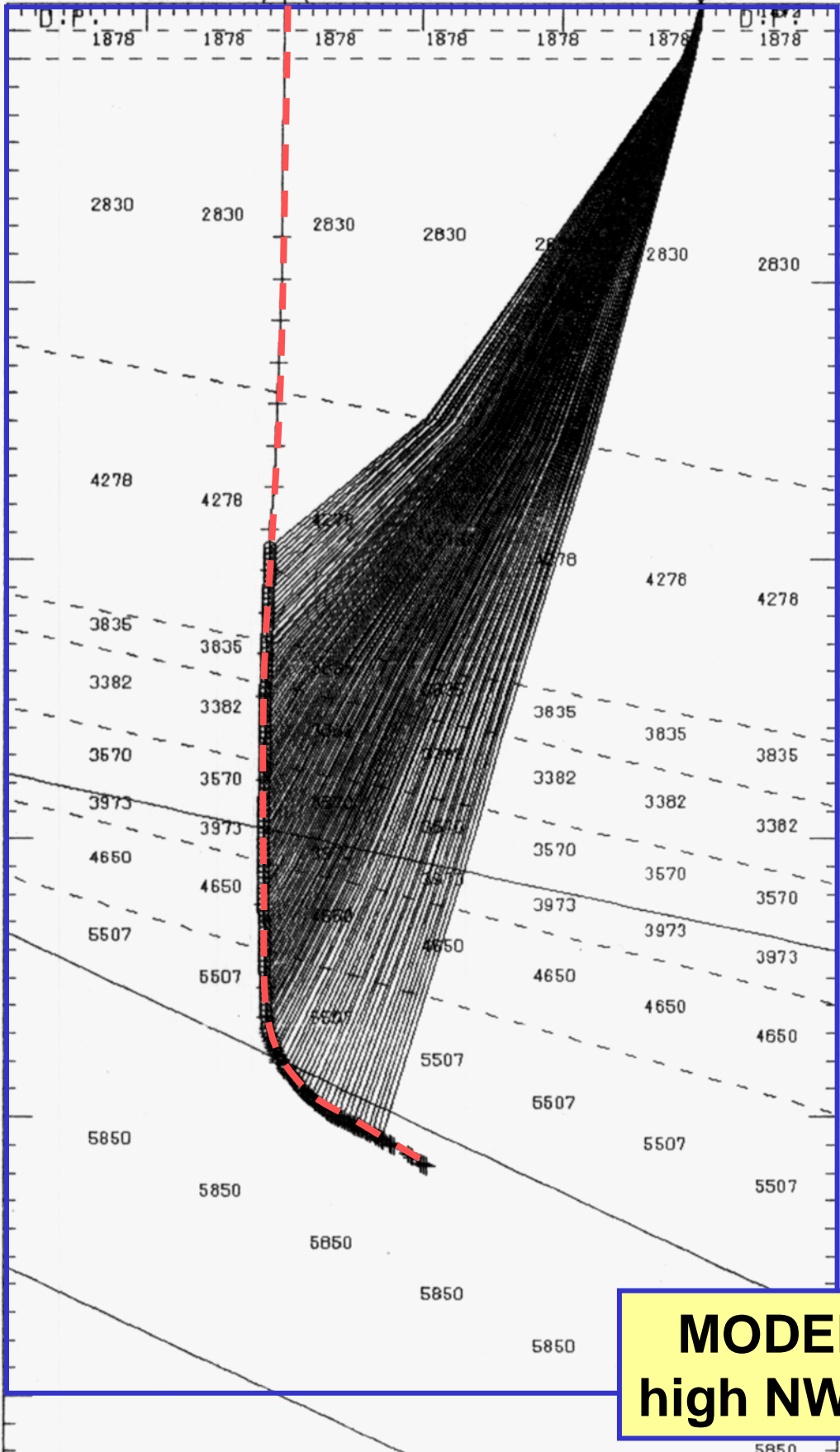
3000

3000

4000

4000

5000



**MODEL 3
high NW Dip**

SE

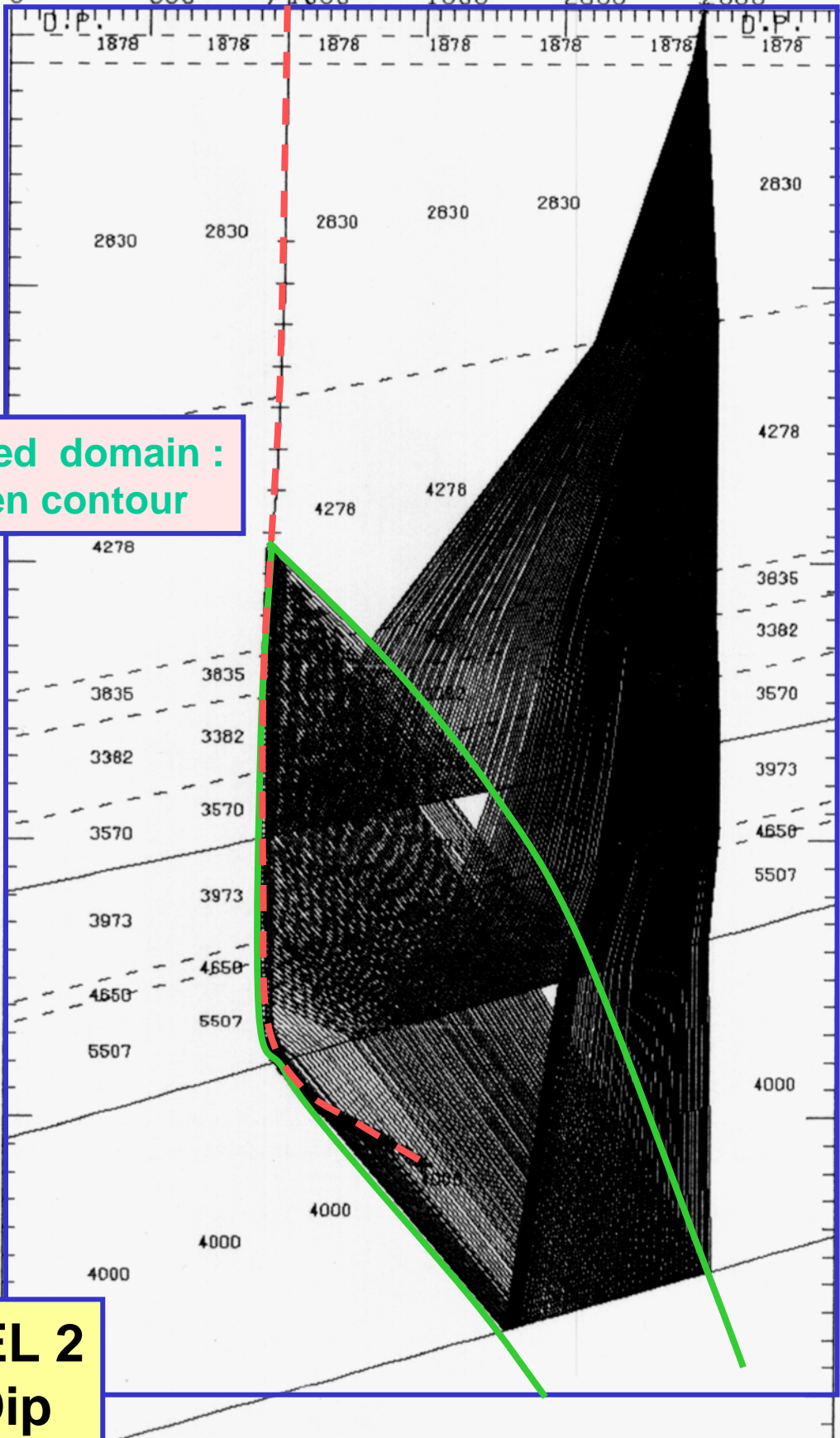
NW

CDP 2 9 16 23 30 37 44 51 58

DISTANCE (METER)

DEPTH (METER)

DEPTH (METER)



**Illuminated domain :
in green contour**

**MODEL 2
SE Dip**

SE

NW



DEPTH (METER)

DEPTH (METER)

1000

1000

2000

2000

3000

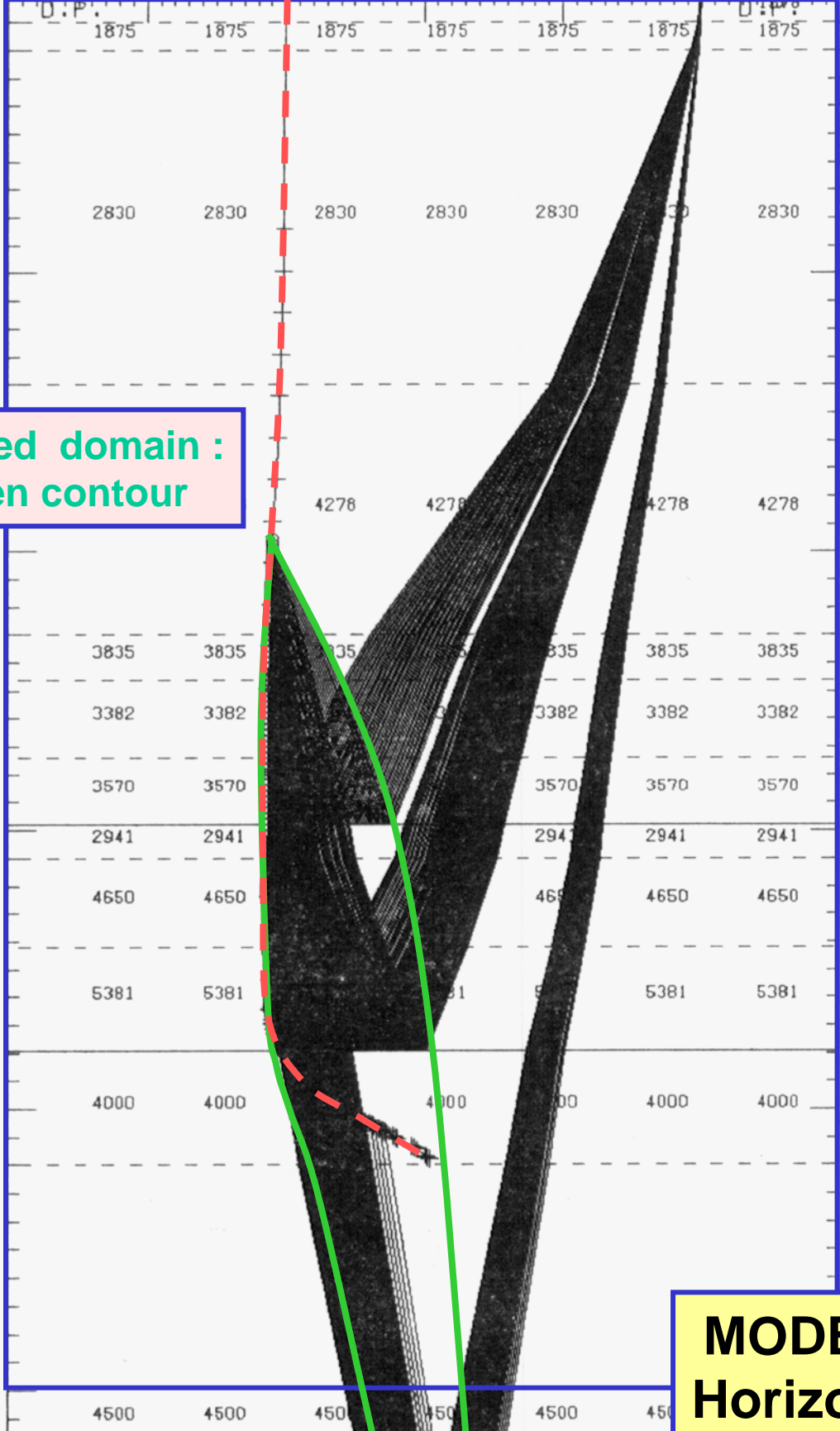
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4000

4000

5000

5000

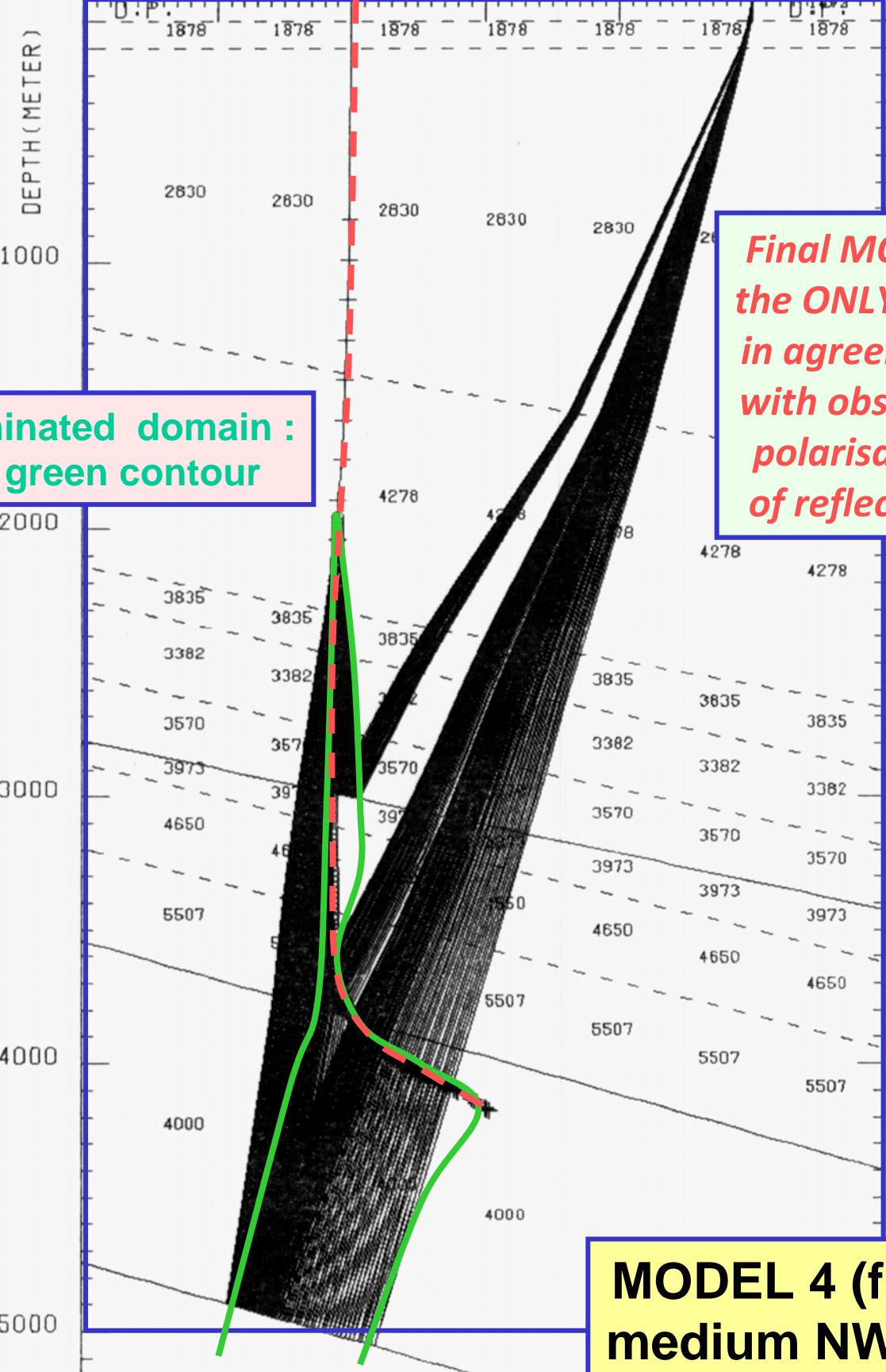
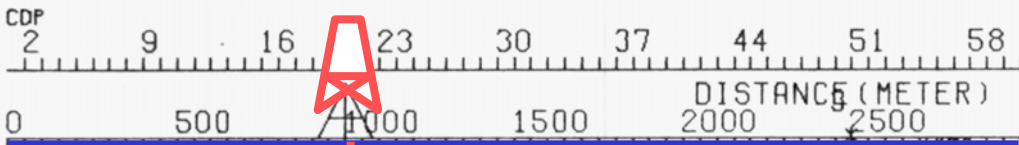


**Illuminated domain :
in green contour**

**MODEL 1
Horizontal**

SE

NW



**Illuminated domain :
in green contour**

*Final MODEL,
the ONLY one
in agreement
with observed
polarisation
of reflections*

**MODEL 4 (final)
medium NW Dip**

SE

NW



DEPTH (METER)

DEPTH (METER)

1000

1000

2000

2000

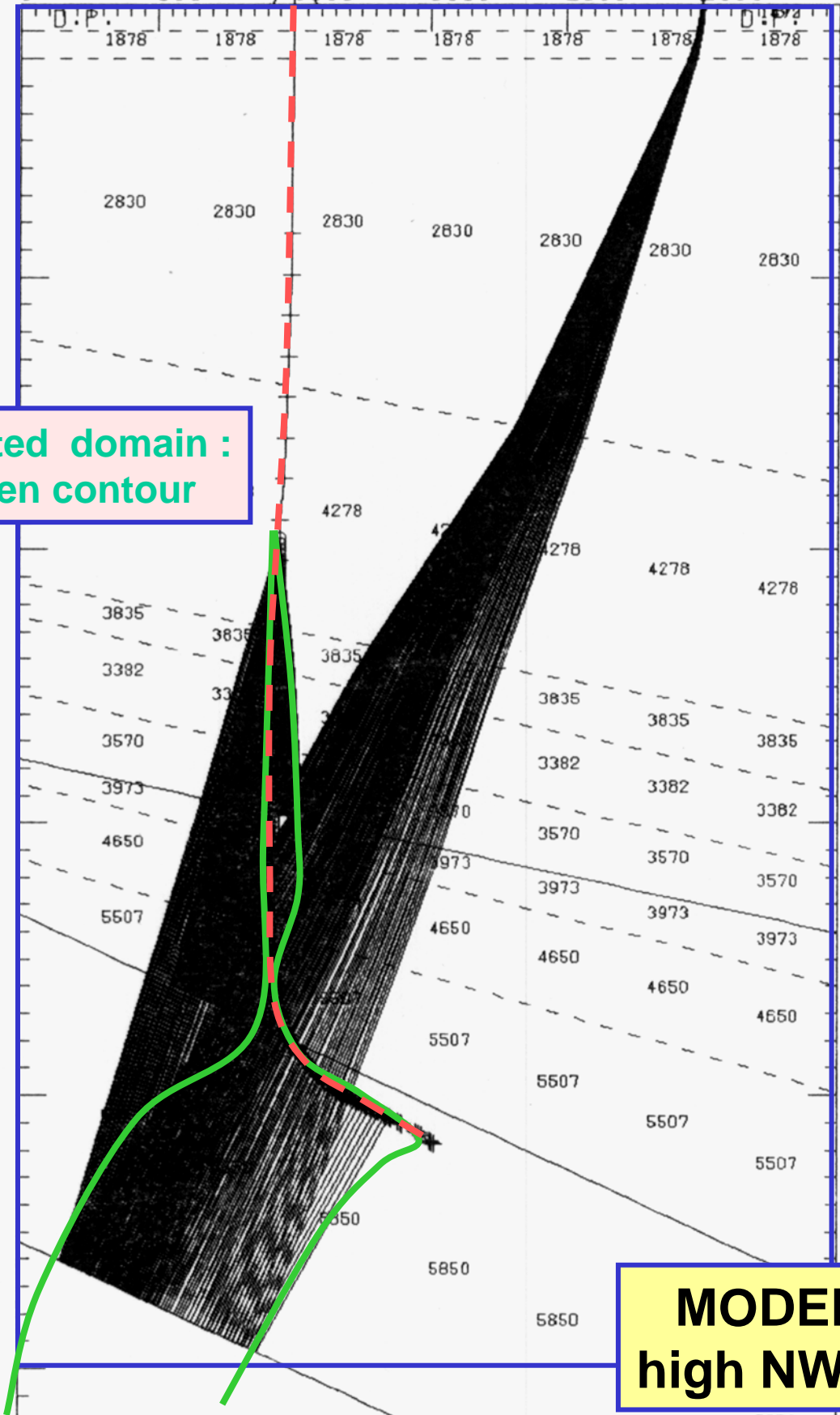
3000

3000

4000

4000

5000



**Illuminated domain :
in green contour**

**MODEL 3
high NW Dip**

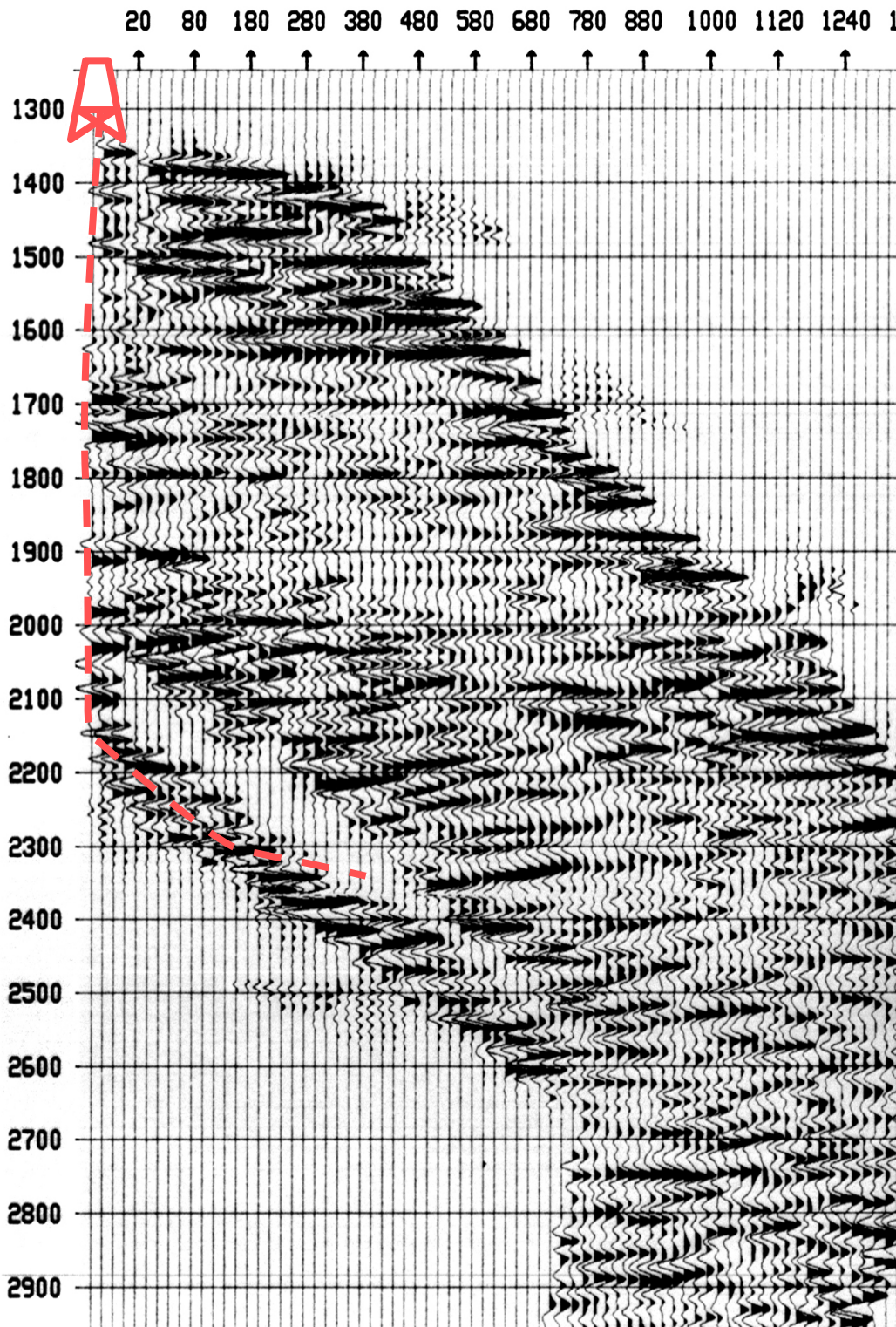
BIN STACK

P B 10-65 HZ

KI > 0 = NOIR

SE

NW



MODEL 2
SE Dip

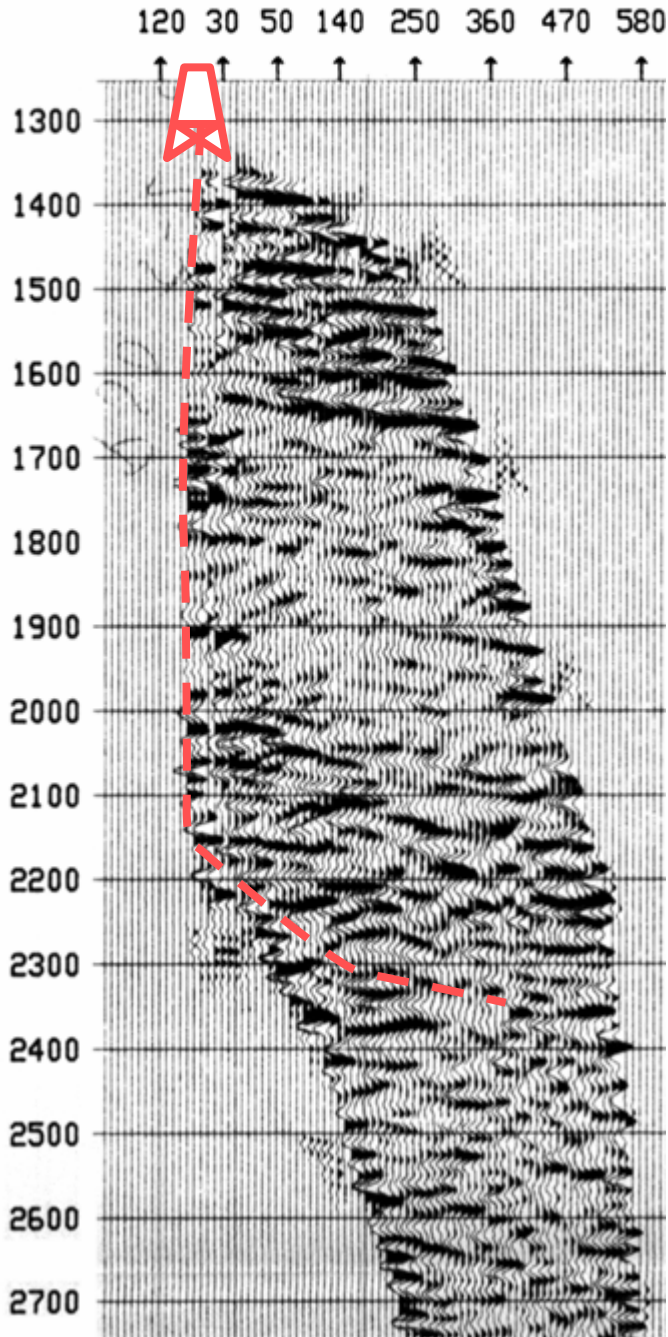
BIN STACK

P B 10-65 HZ

KI > 0 = NOIR

SE

NW



MODEL 1
Horizontal

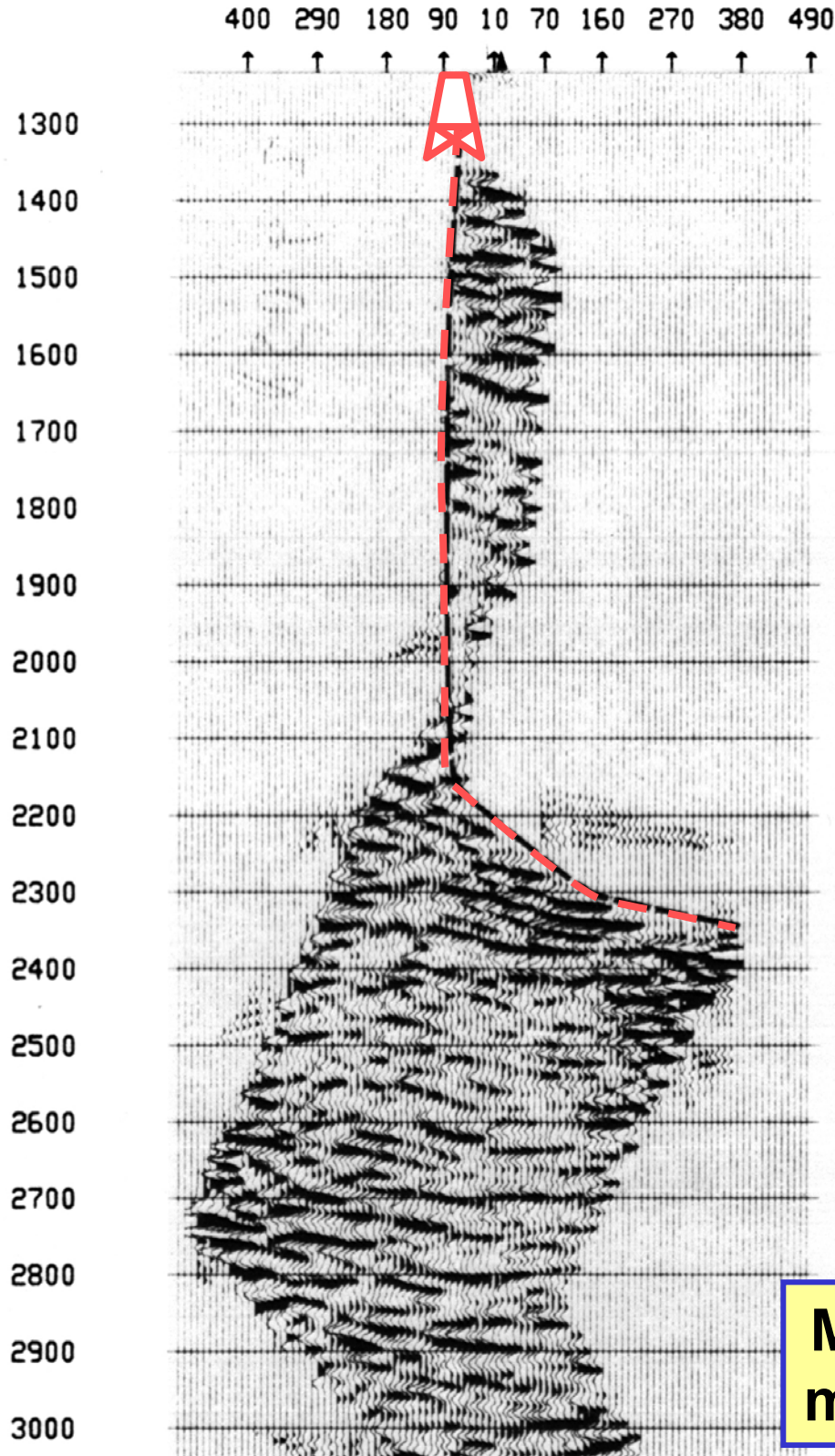
BIN STACK

P B 10-65 HZ

KI > 0 = NOIR

SE

NW



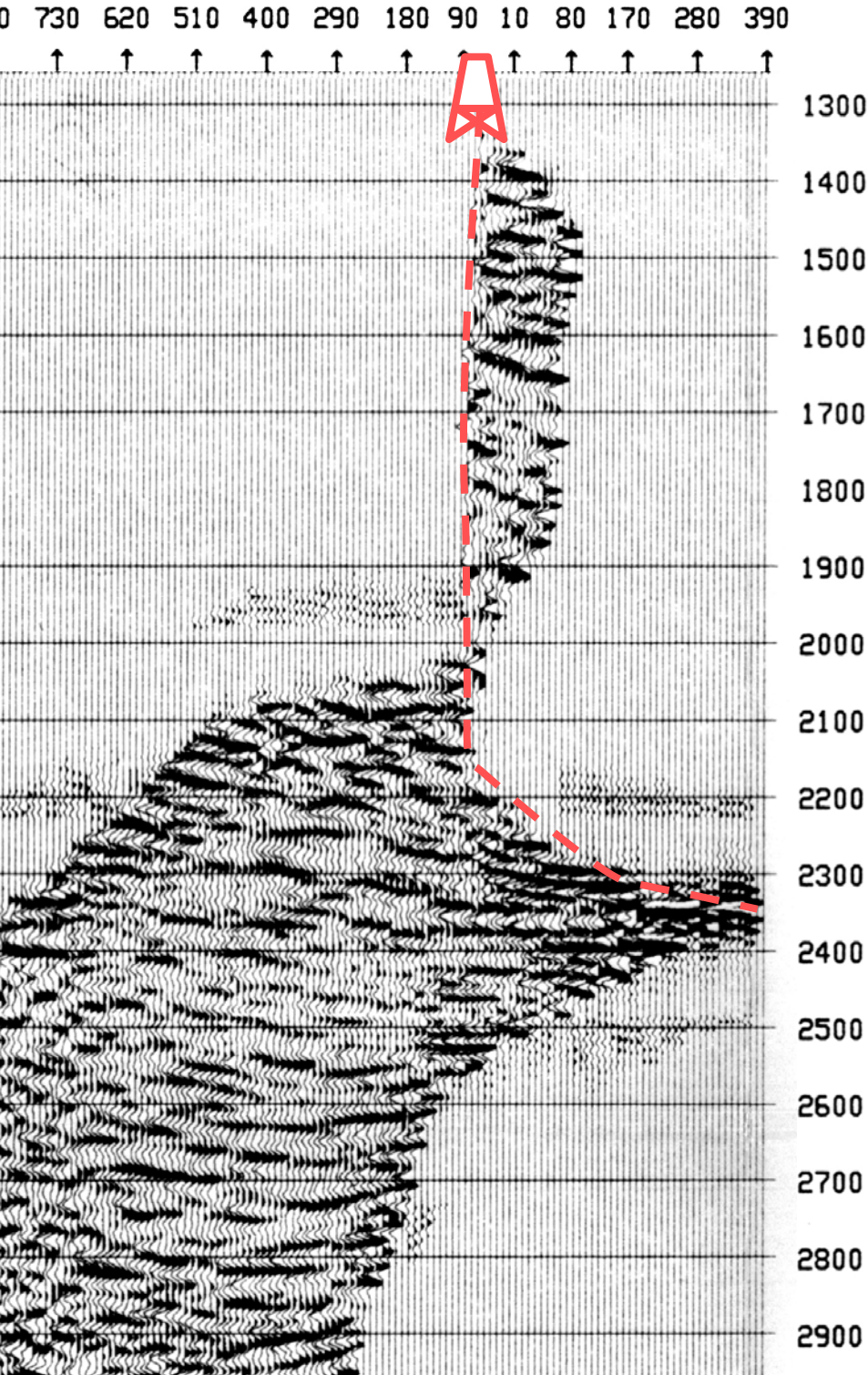
BIN STACK

P B 10-65 HZ

KI > 0 = NOIR

SE

NW



MODEL 3
high NW Dip