Input Depth Model

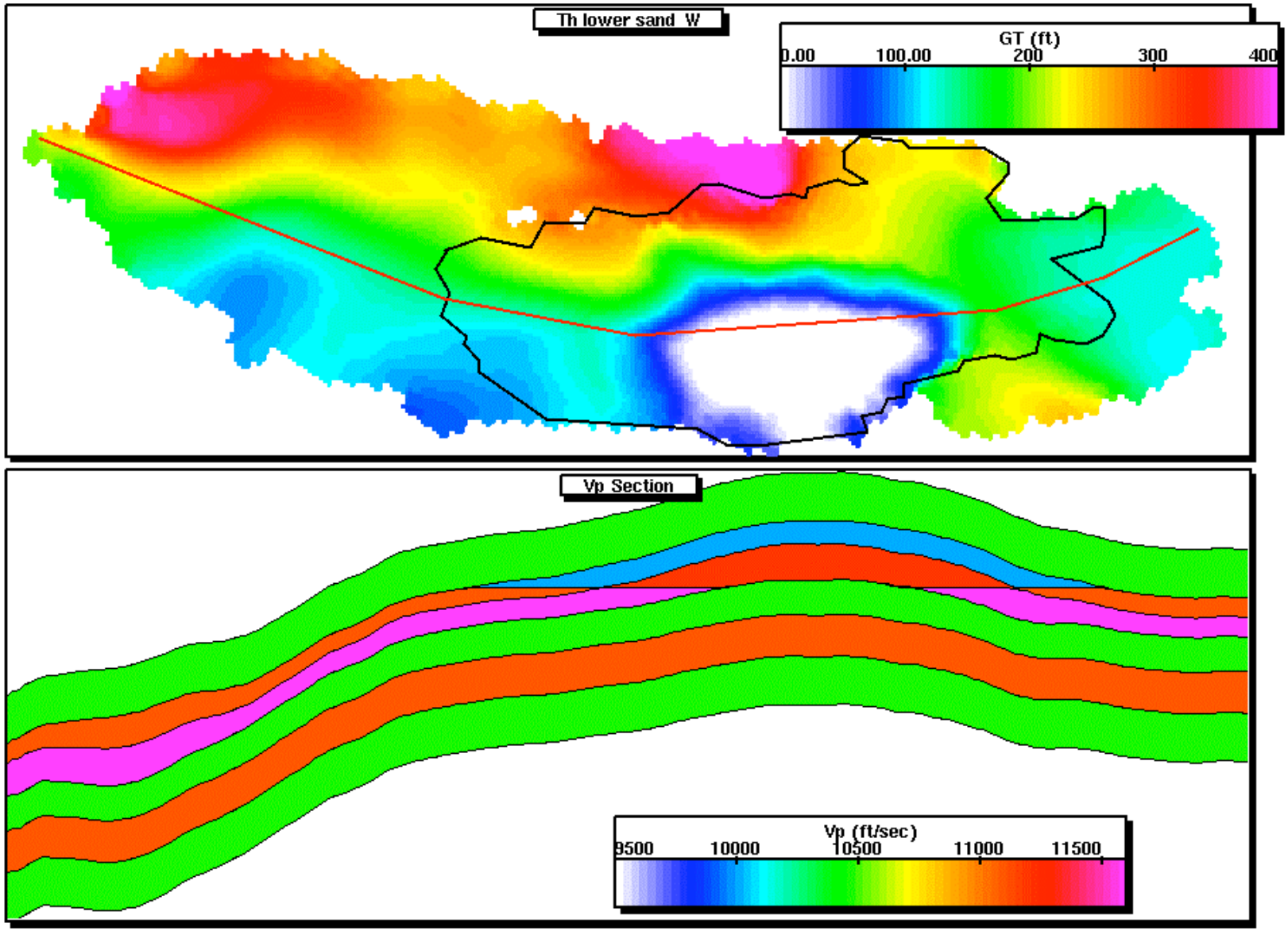


Fig 1

Input Time Model

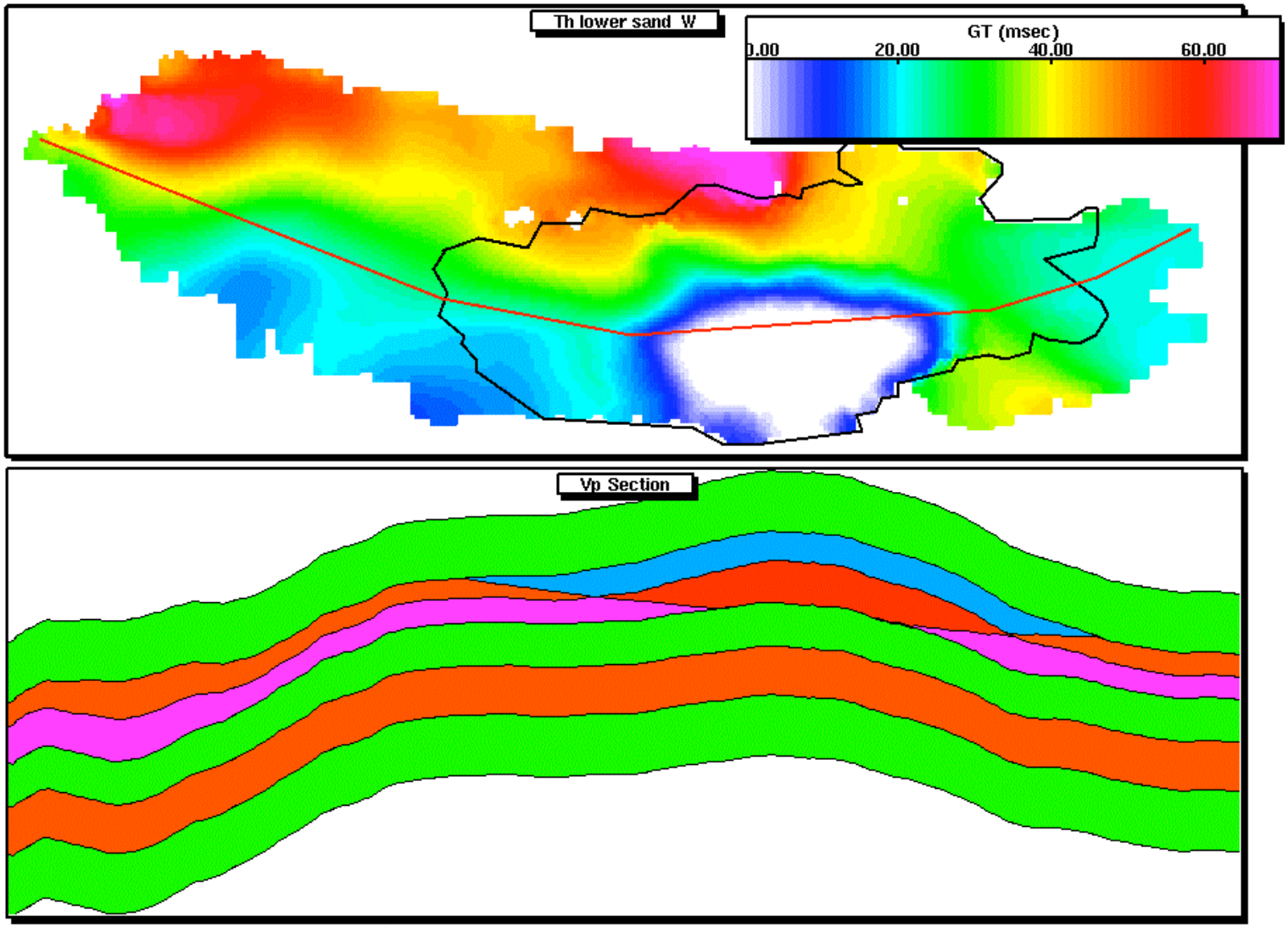
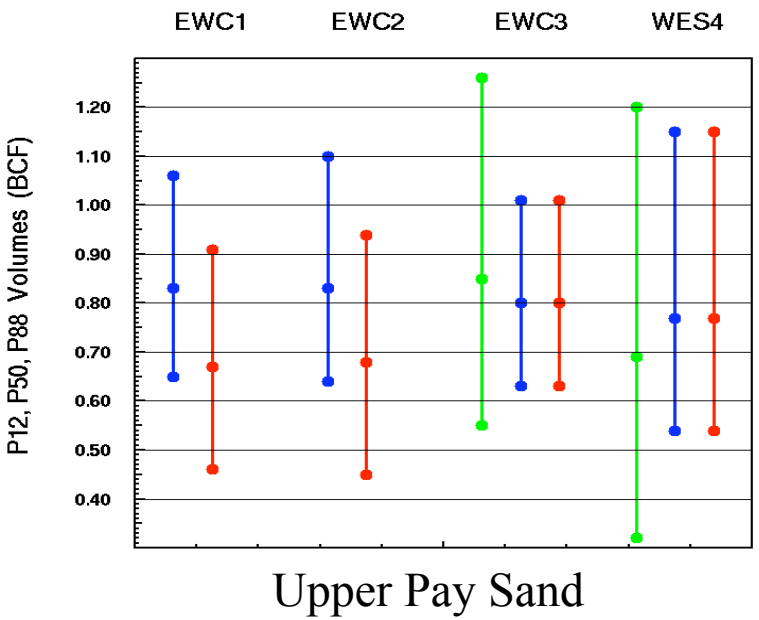
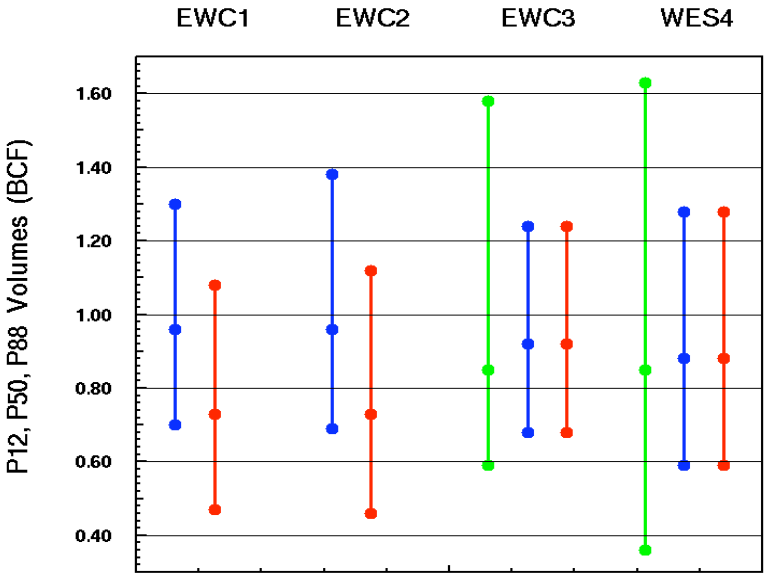


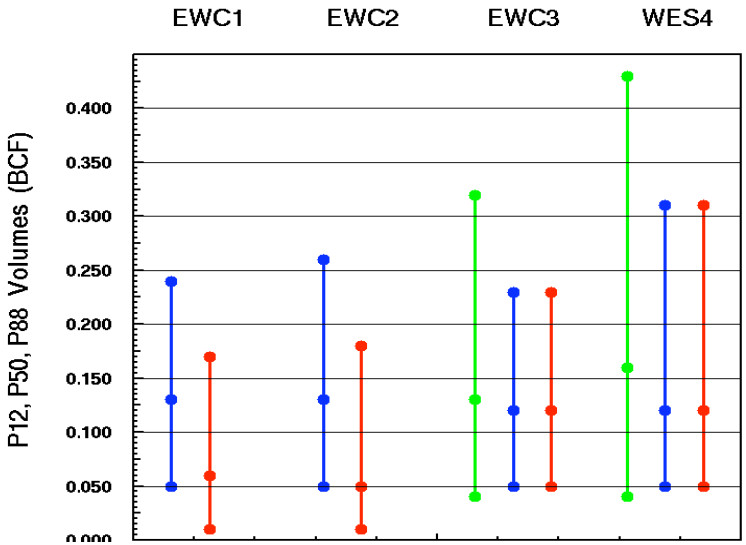
Fig 2



Upper Pay Sand



Total



Lower Pay Sand

Blue = Pore Volume
= <Phi*N/G*Thickness>
Red = Risked Gas Volume
= < Phi*N/G*Thickness*Pgas>
Green=Prior Pore Volume
= <Phi*N/G*Thickness> considering prior constraints but not the seismic data

Fig 3

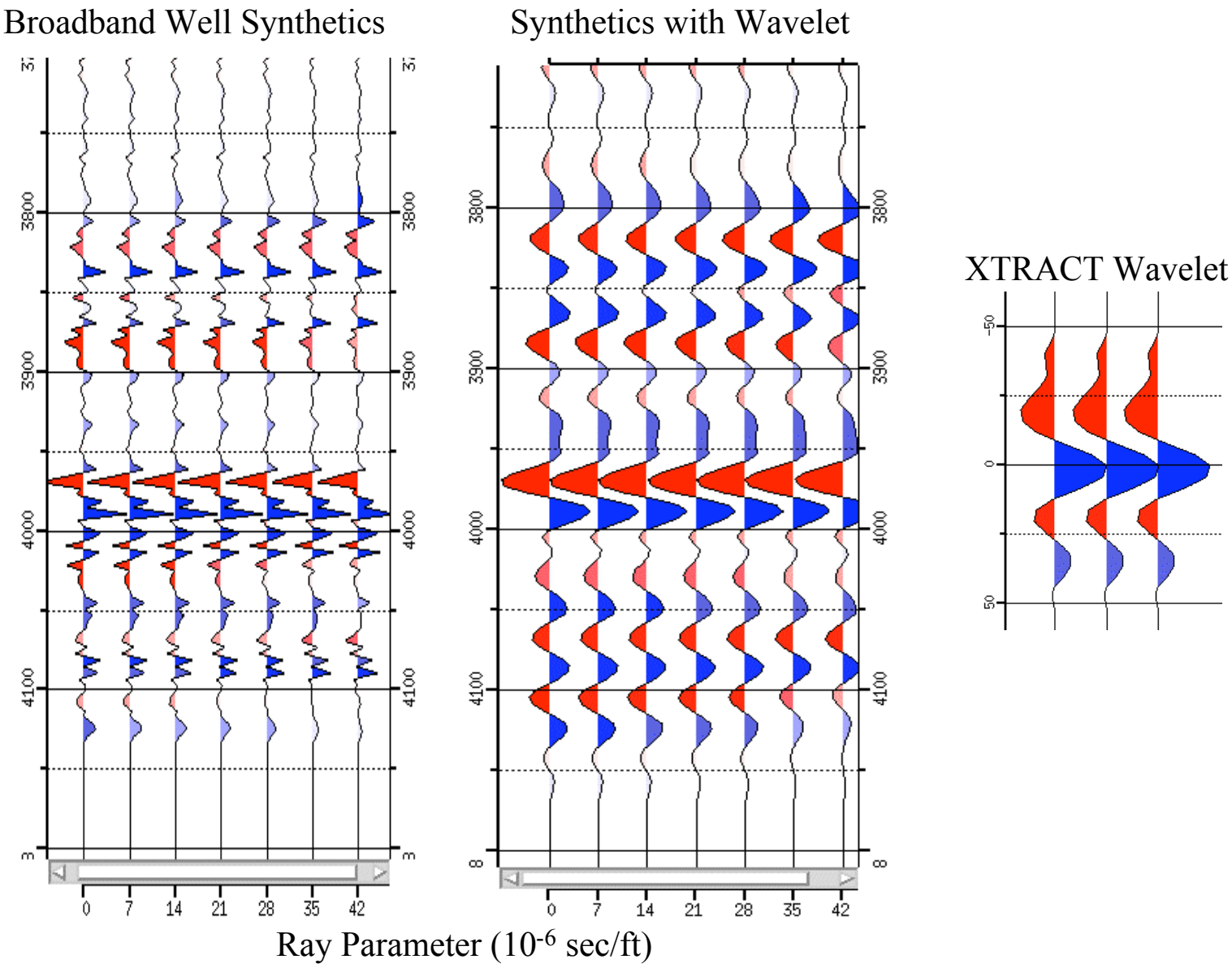

Broadband Well Synthetics
Synthetics with Wavelet
XTRACT Wavelet
3800
3900
4000
4100
0
7
14
21
28
35
42
Ray Parameter (10-6 sec/ft)

Fig 4

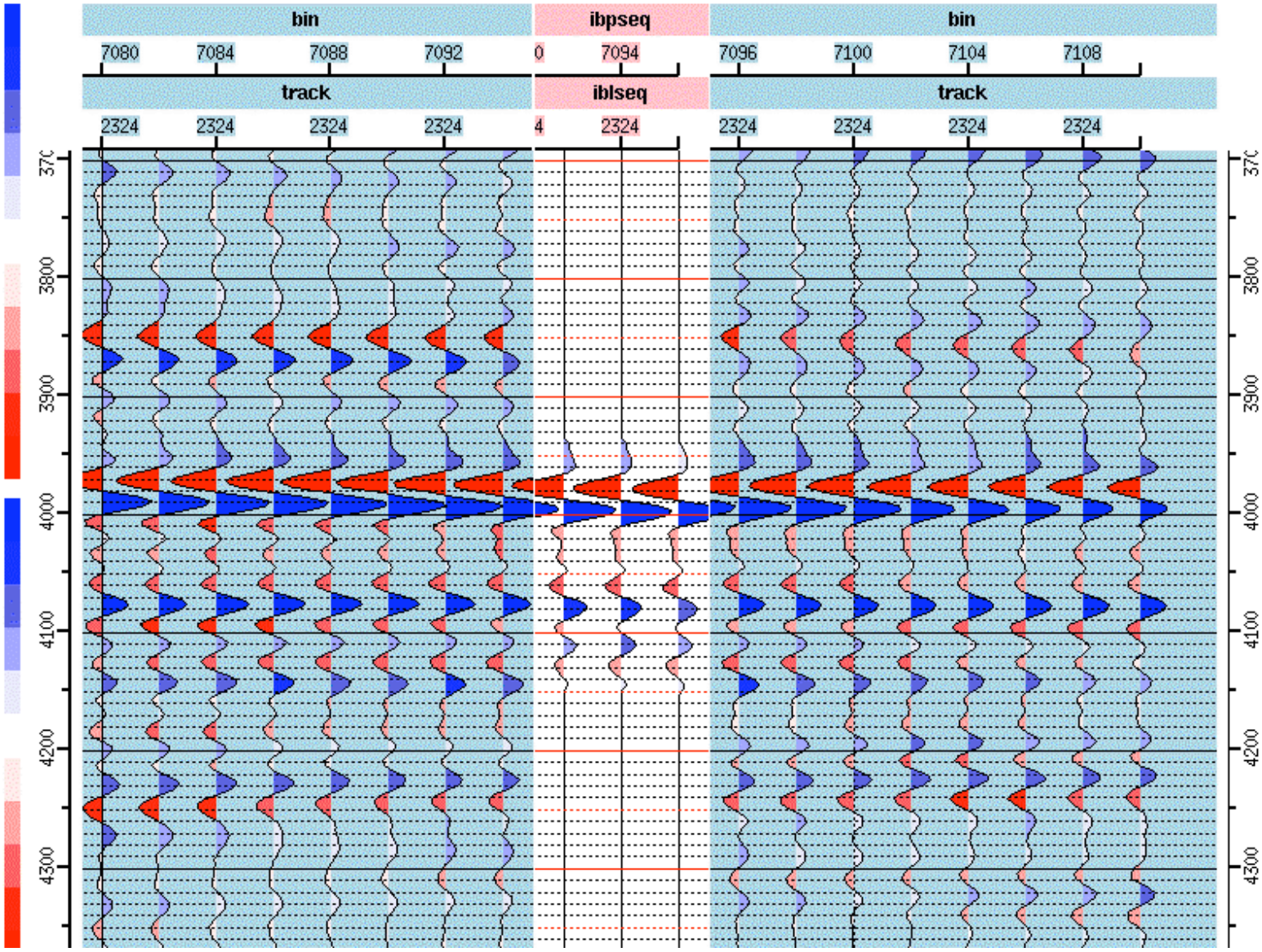
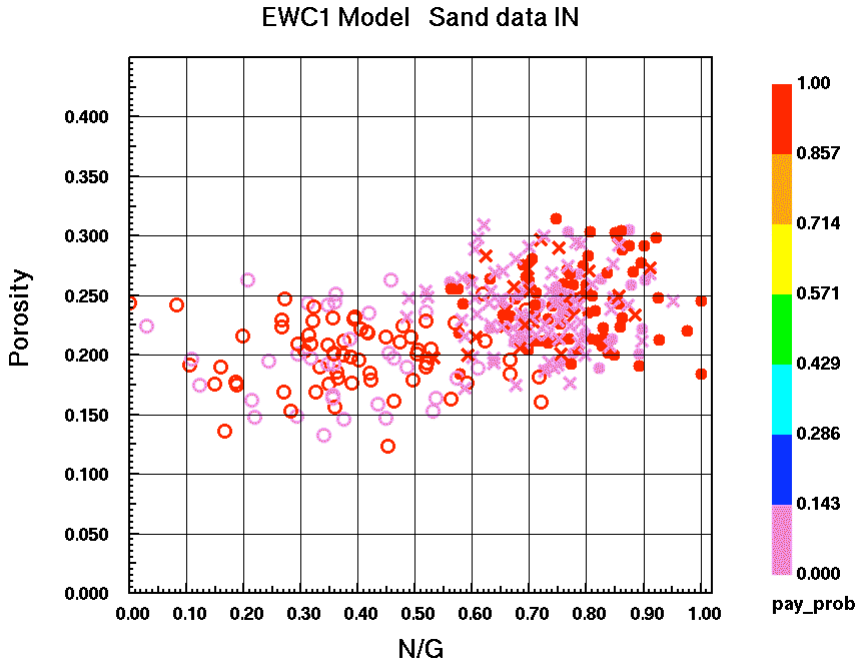
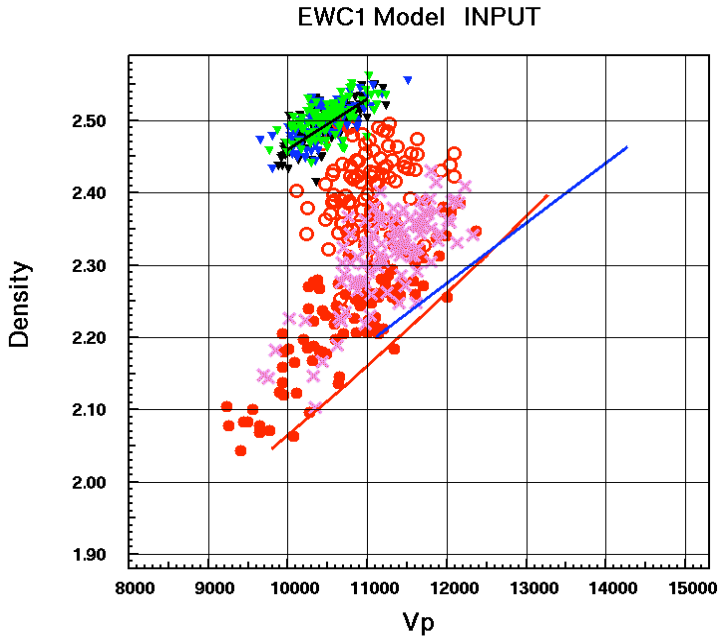
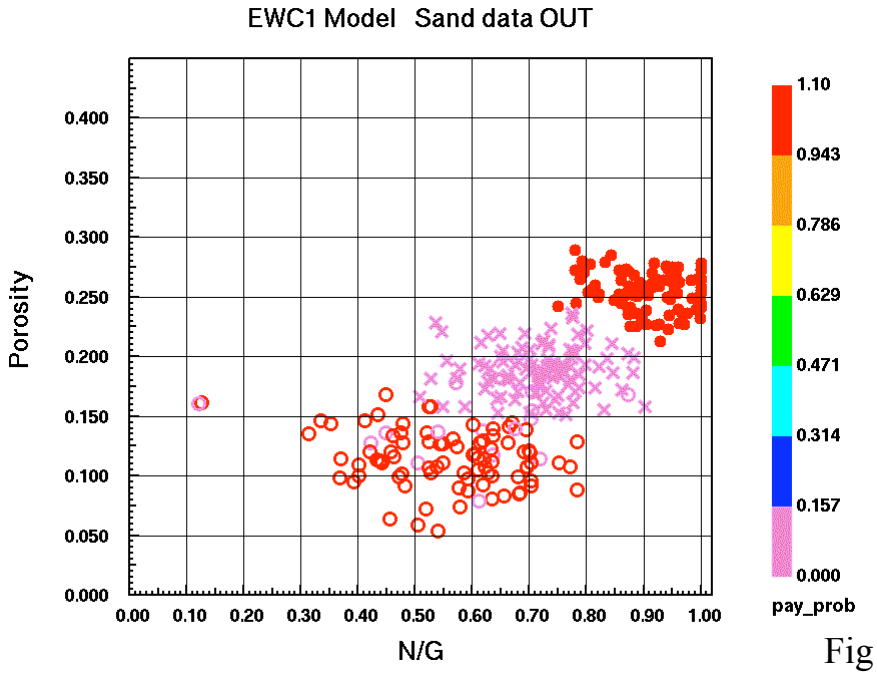


Fig 5 Well synthetic over the interval modeled in PROMISE for Ray Parameter = $28*10^{-6}$ sec/ft spliced into seismic data at well location.


EWC1 Model Sand data IN
Porosity
N/G
pay_prob
1.00
0.857
0.714
0.571
0.429
0.286
0.143
0.000


EWC1 Model INPUT
Density
Vp


EWC1 Model Sand data OUT
Porosity
N/G
pay_prob
1.10
0.943
0.786
0.629
0.471
0.314
0.157
0.000

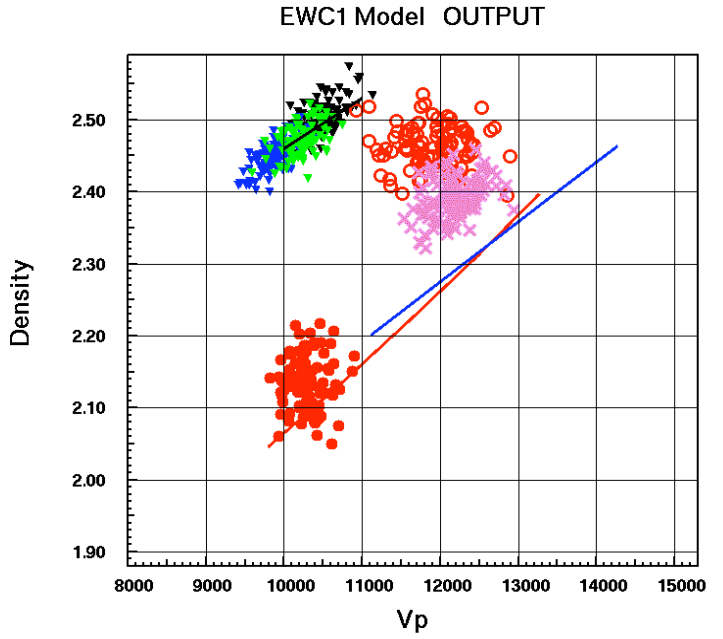

EWC1 Model OUTPUT
Density
Vp

Fig 6

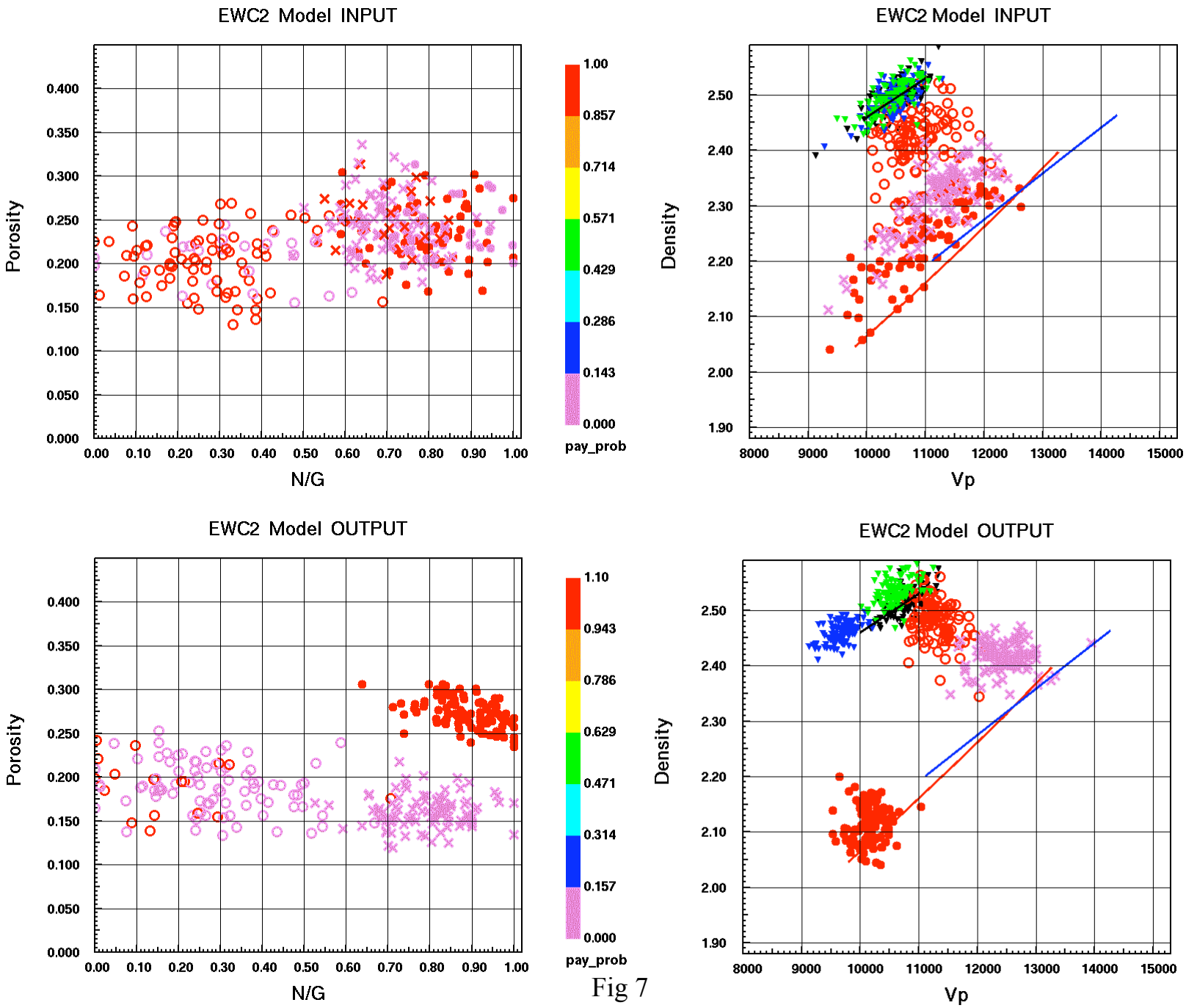

EWC2 Model INPUT
Porosity
N/G
pay_prob
1.00
0.857
0.714
0.571
0.429
0.286
0.143
0.000
EWC2 Model INPUT
Density
Vp
EWC2 Model OUTPUT
Porosity
N/G
pay_prob
1.10
0.943
0.786
0.629
0.471
0.314
0.157
0.000
EWC2 Model OUTPUT
Density
Vp

Fig 7

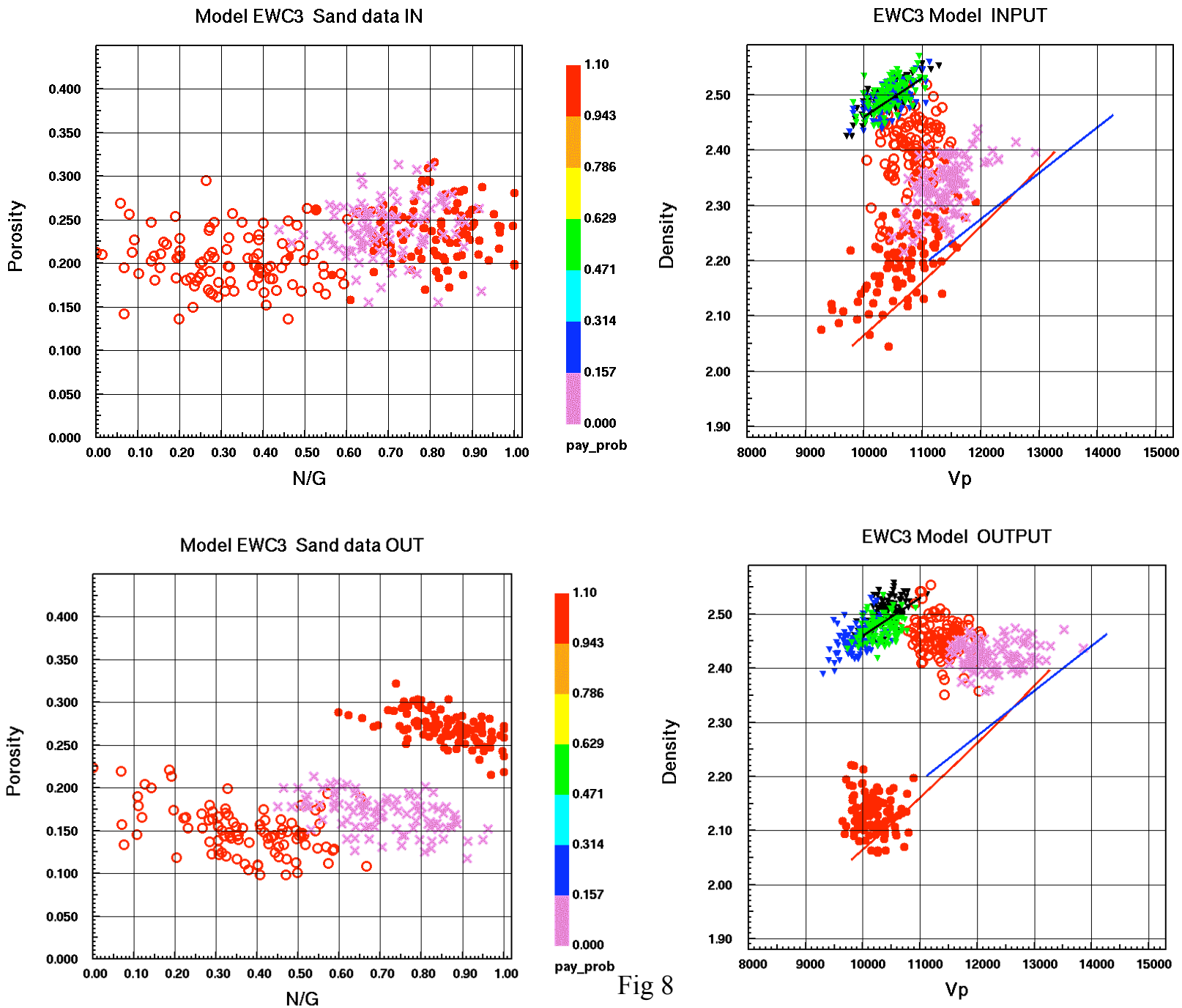

Model EWC3 Sand data IN
Porosity
N/G
pay_prob
1.10
0.943
0.786
0.629
0.471
0.314
0.157
0.000
EWC3 Model INPUT
Density
Vp
Model EWC3 Sand data OUT
EWC3 Model OUTPUT

Fig 8

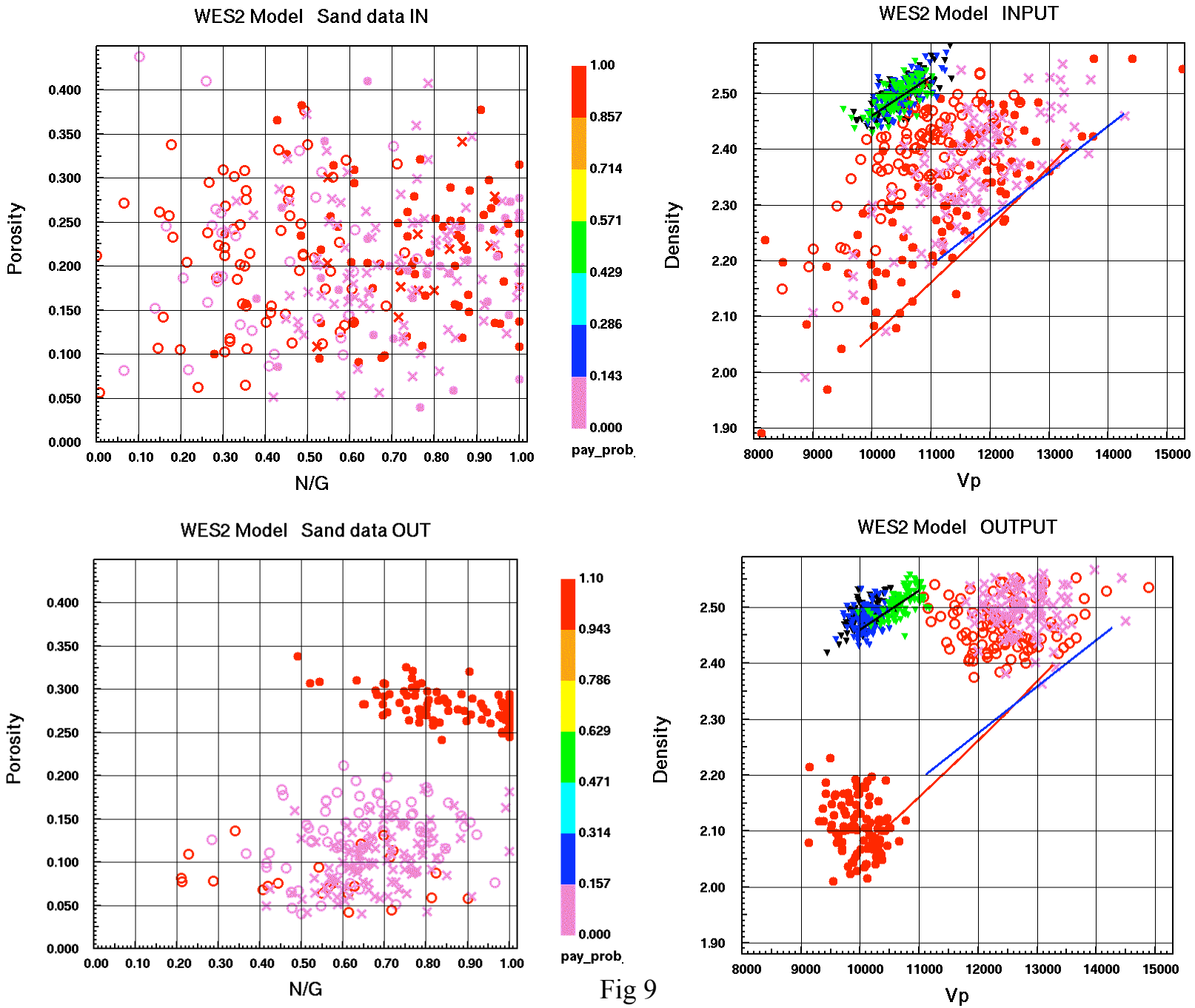

WES2 Model Sand data IN
Porosity
N/G
pay_prob
1.00
0.857
0.714
0.571
0.429
0.286
0.143
0.000
WES2 Model INPUT
Density
Vp
WES2 Model Sand data OUT
Porosity
N/G
pay_prob
1.10
0.943
0.786
0.629
0.471
0.314
0.157
0.000
WES2 Model OUTPUT
Density
Vp

Fig 9

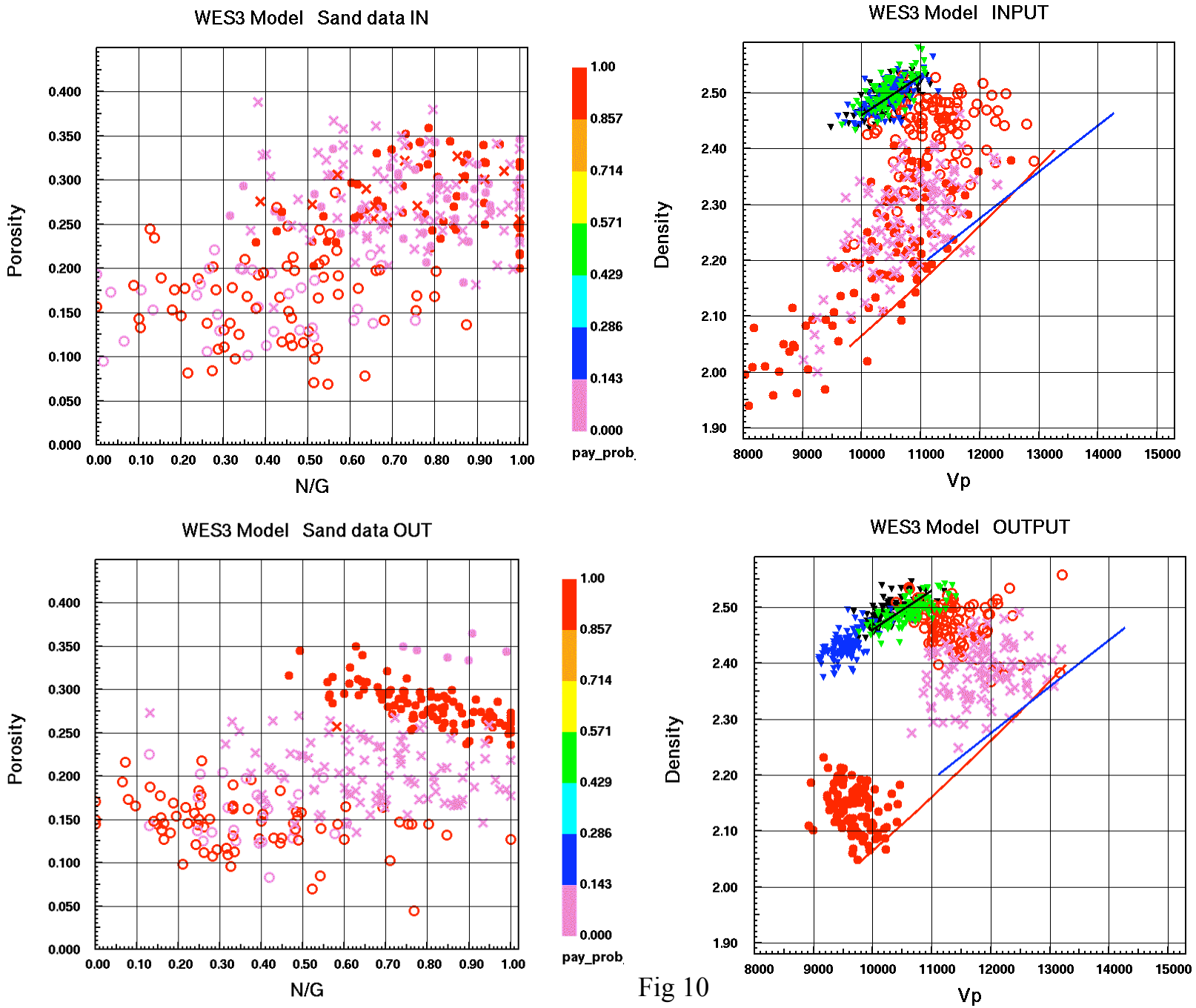

WES3 Model Sand data IN
Porosity
N/G
pay_prob
1.00
0.857
0.714
0.571
0.429
0.286
0.143
0.000
WES3 Model INPUT
Density
Vp
WES3 Model Sand data OUT
WES3 Model OUTPUT

Fig 10

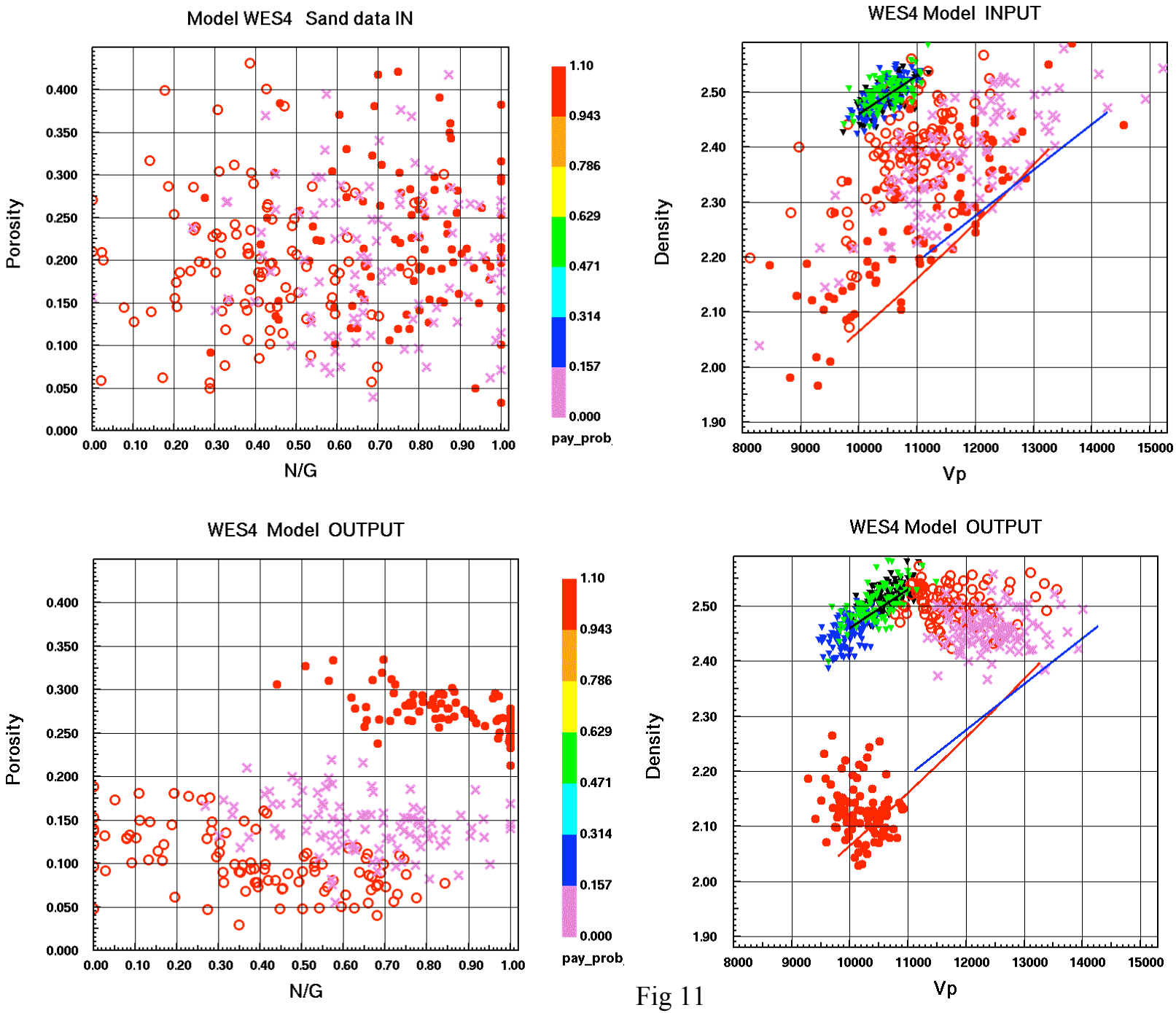

Model WES4 Sand data IN
Porosity
N/G
pay_prob
1.10
0.943
0.786
0.629
0.471
0.314
0.157
0.000
WES4 Model INPUT
Density
Vp
WES4 Model OUTPUT
Porosity
N/G
pay_prob
WES4 Model OUTPUT
Density
Vp

Fig 11

Model EWC1 P12 Net Pay

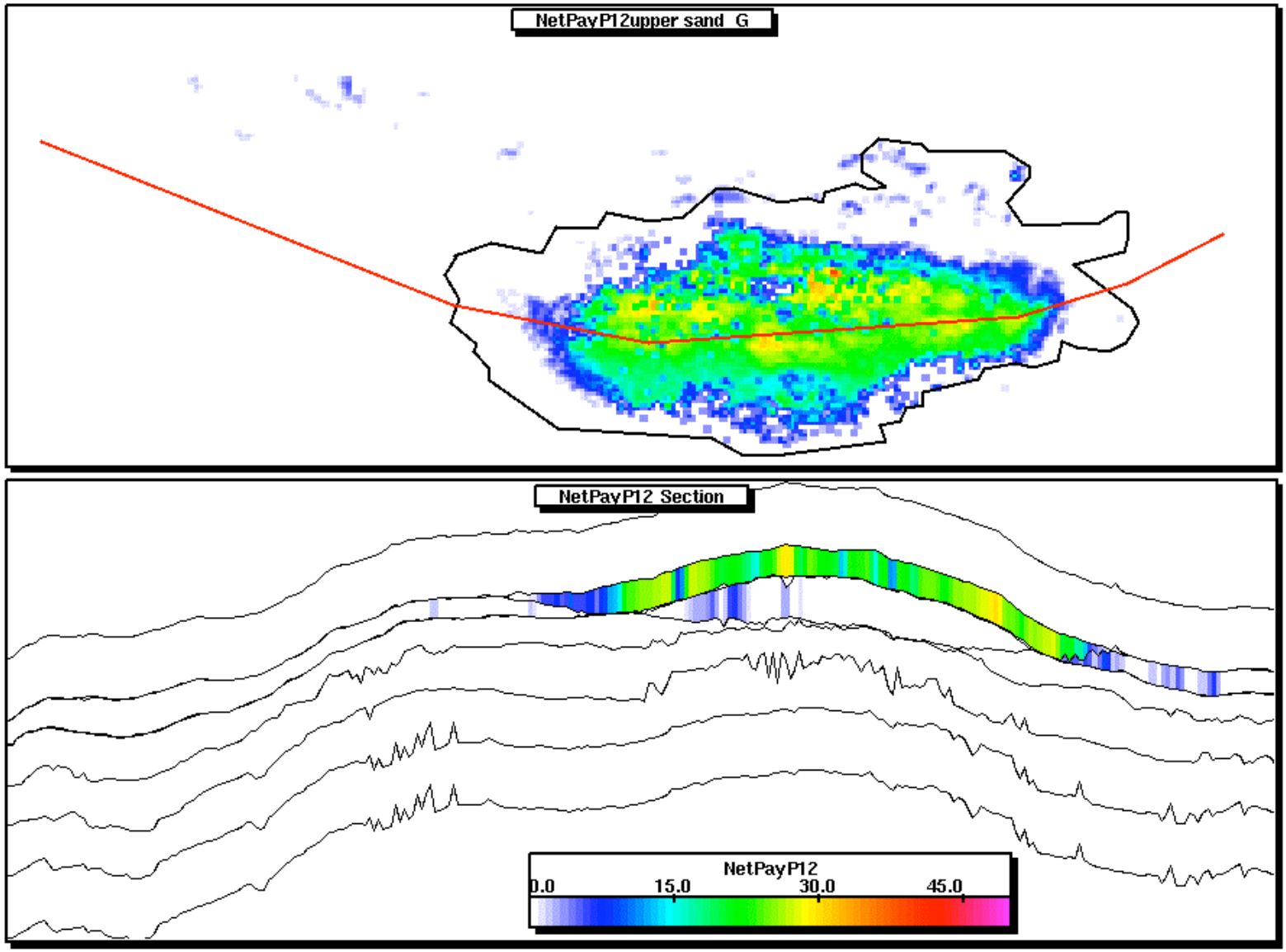


Fig 12

Model EWC1 P50 Net Pay

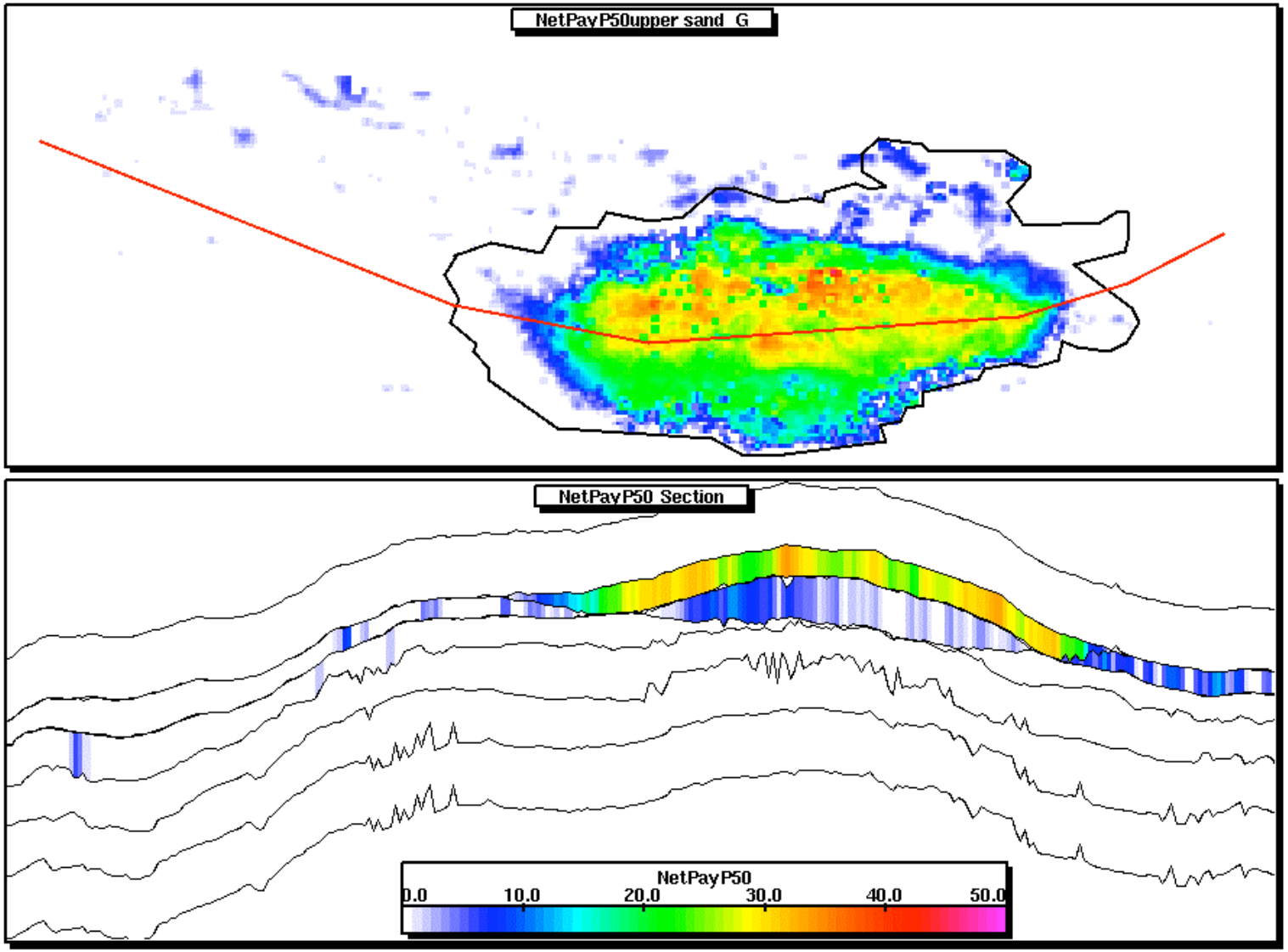


Fig 13

Model EWC1 P88 Net Pay

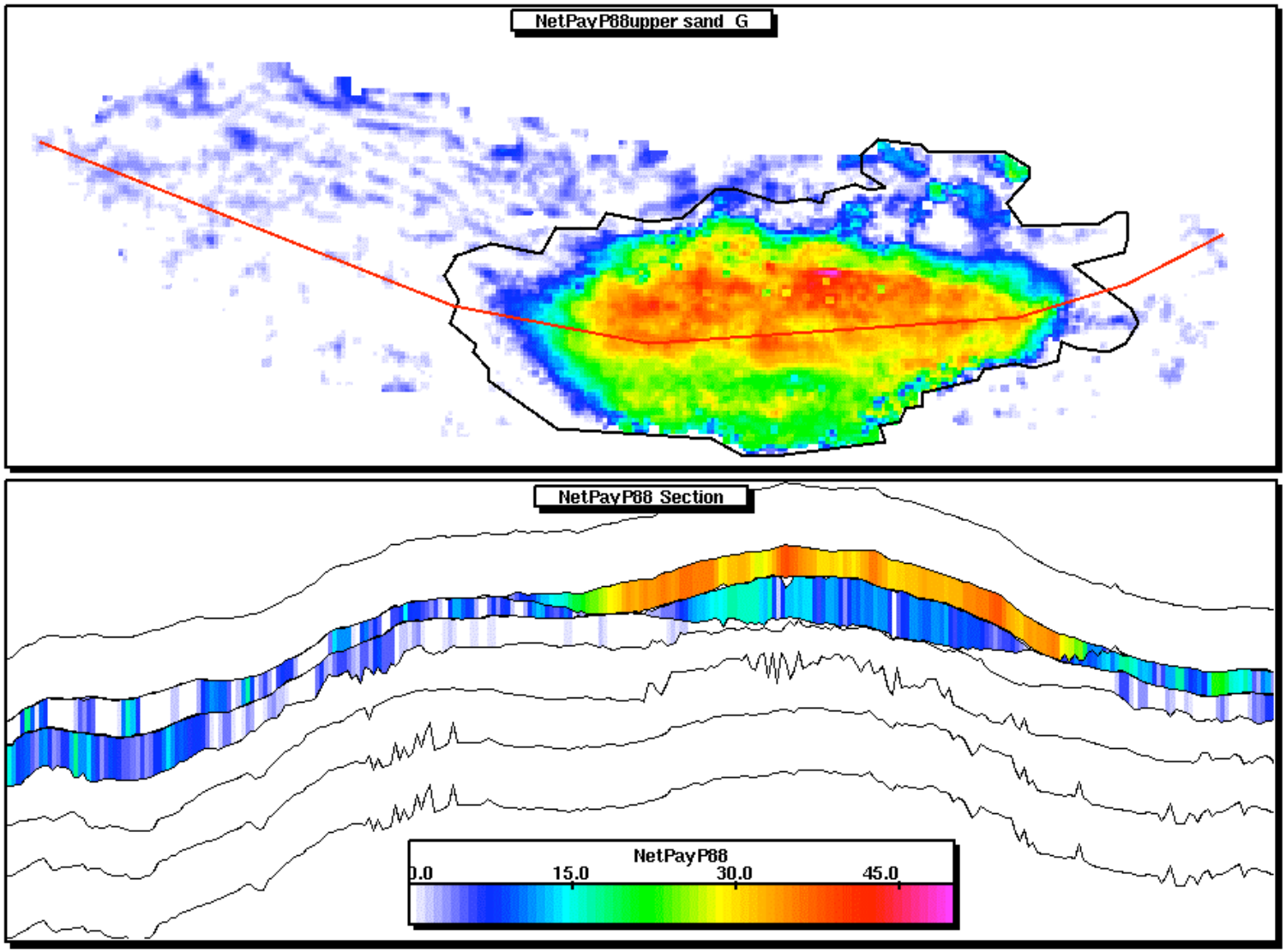


Fig 14

Model EWC1 P12 and P88 Net Pay Maps

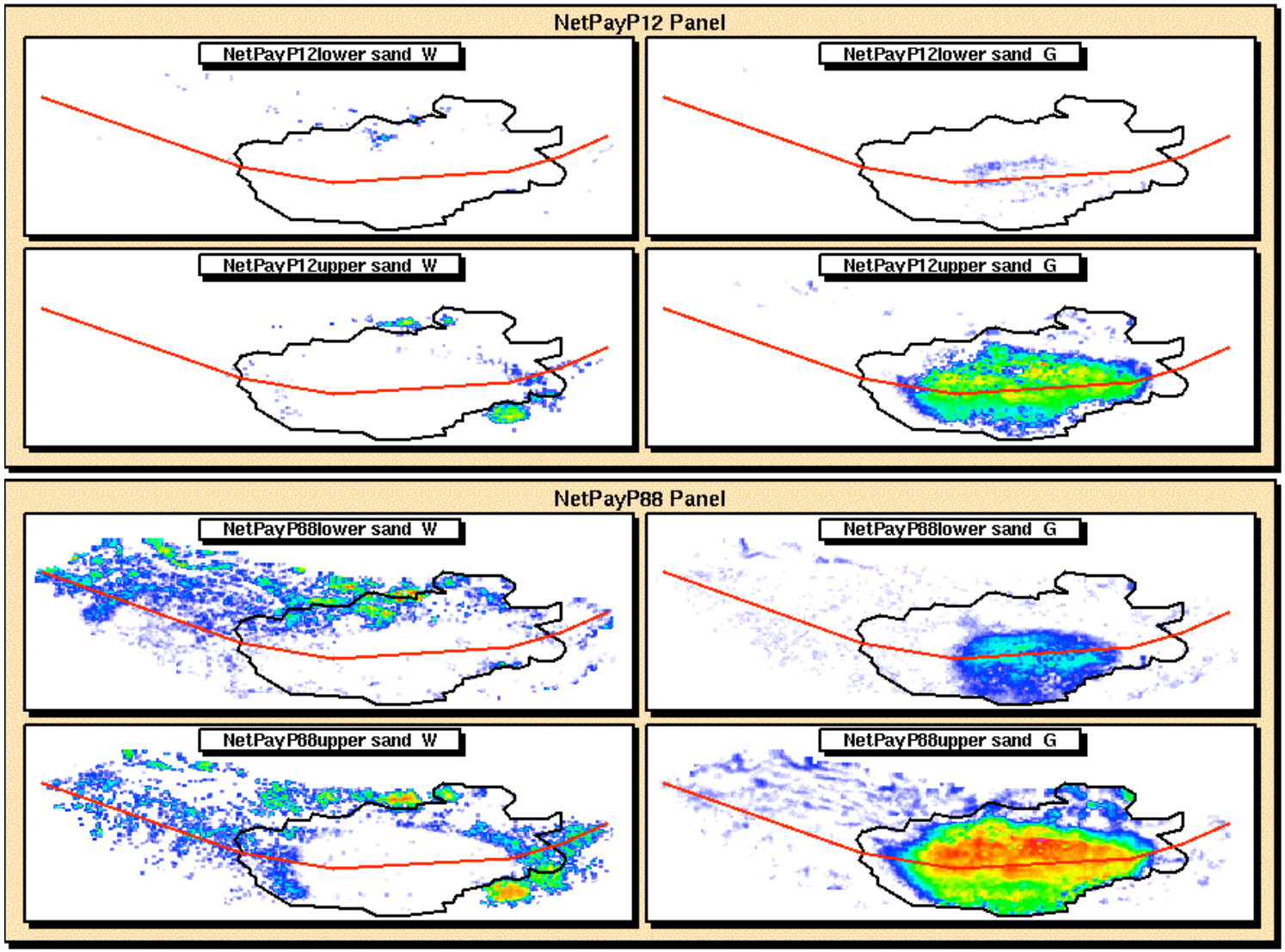


Fig 15

Model EWC2 P12 Net Pay

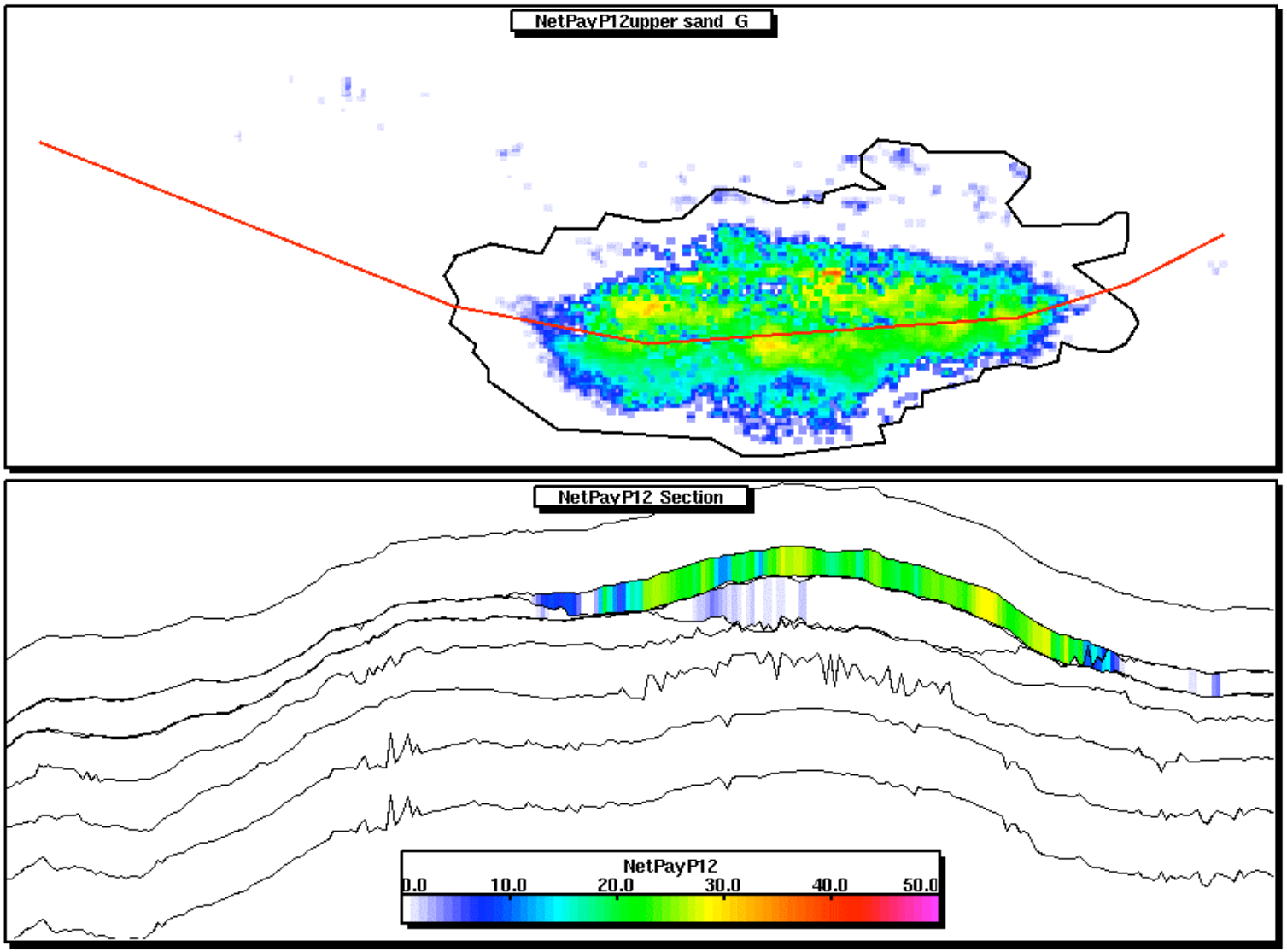


Fig 16

Model EWC2 P50 Net Pay

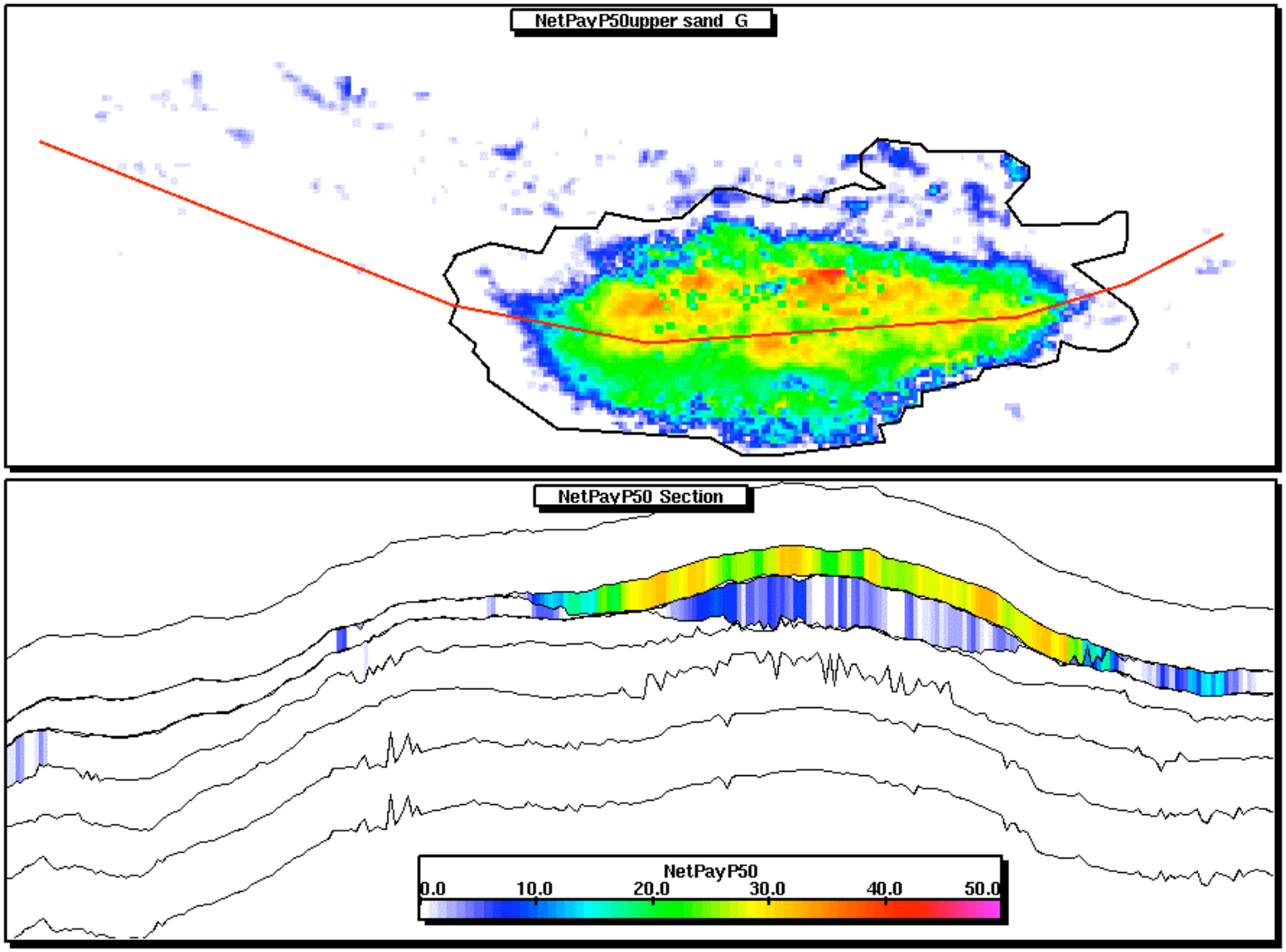


Fig 17

Model EWC2 P88 Net Pay

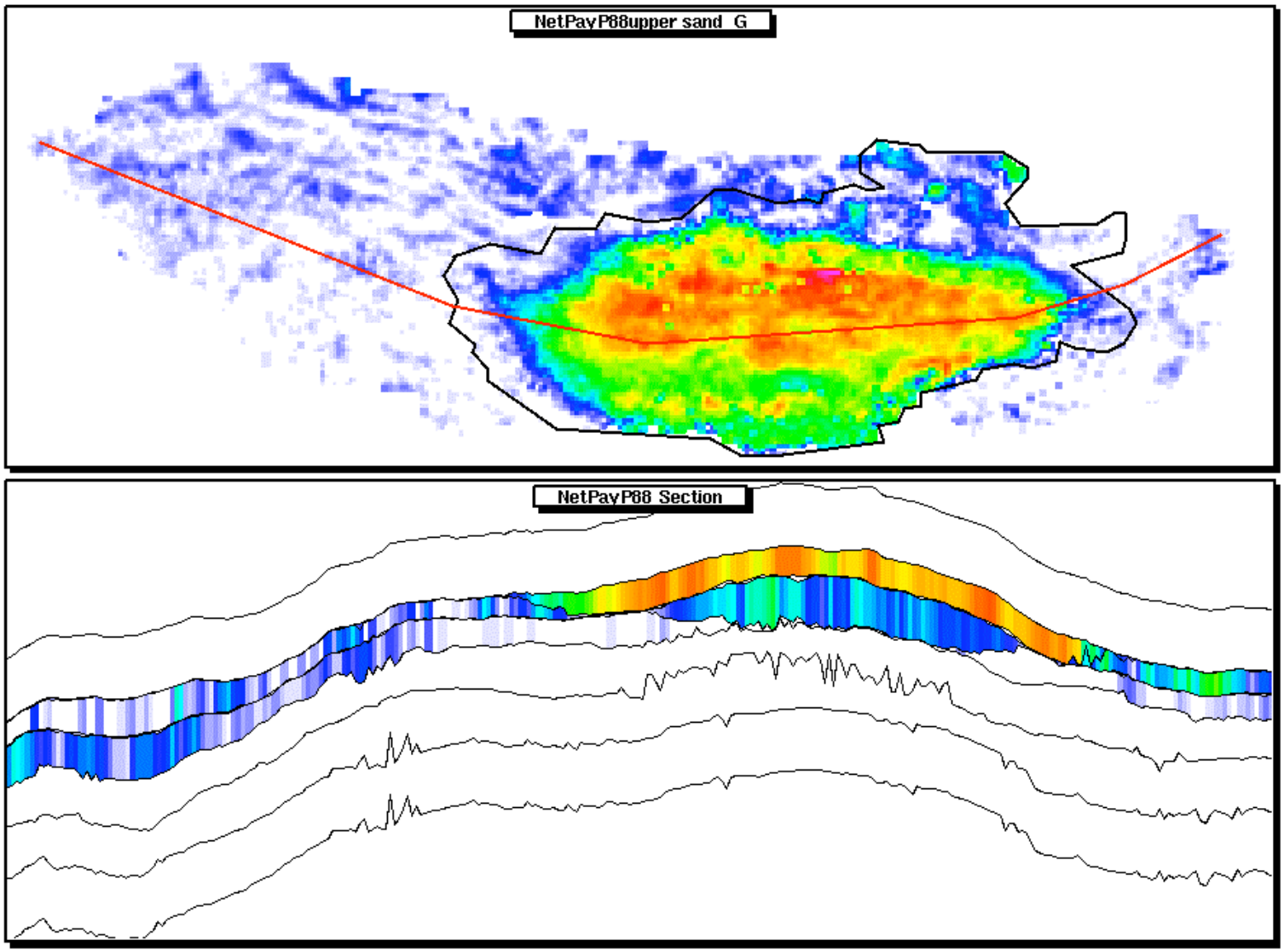


Fig 18

Model EWC3 P12 Net Pay

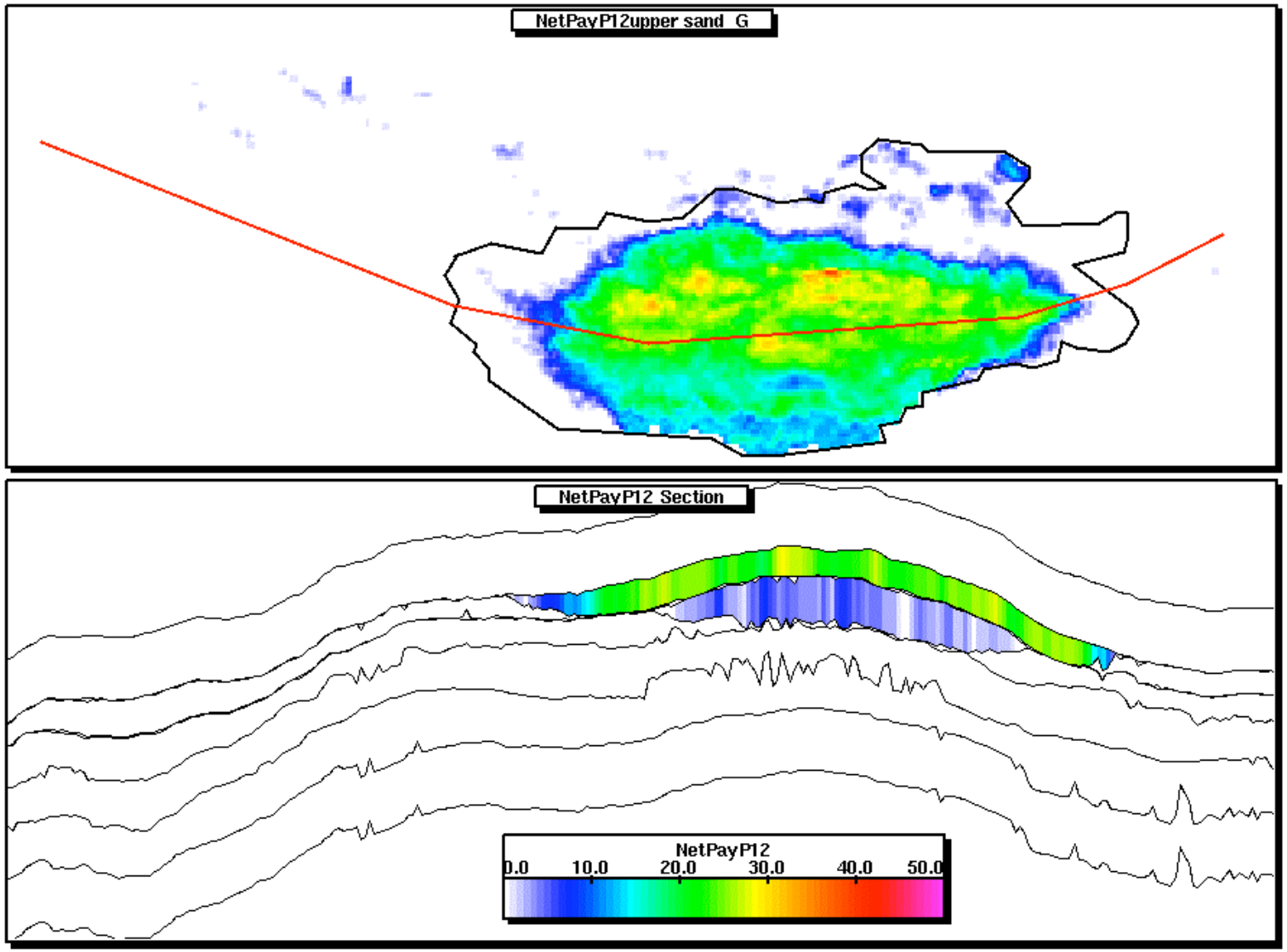


Fig 19

Model EWC3 P50 Net Pay

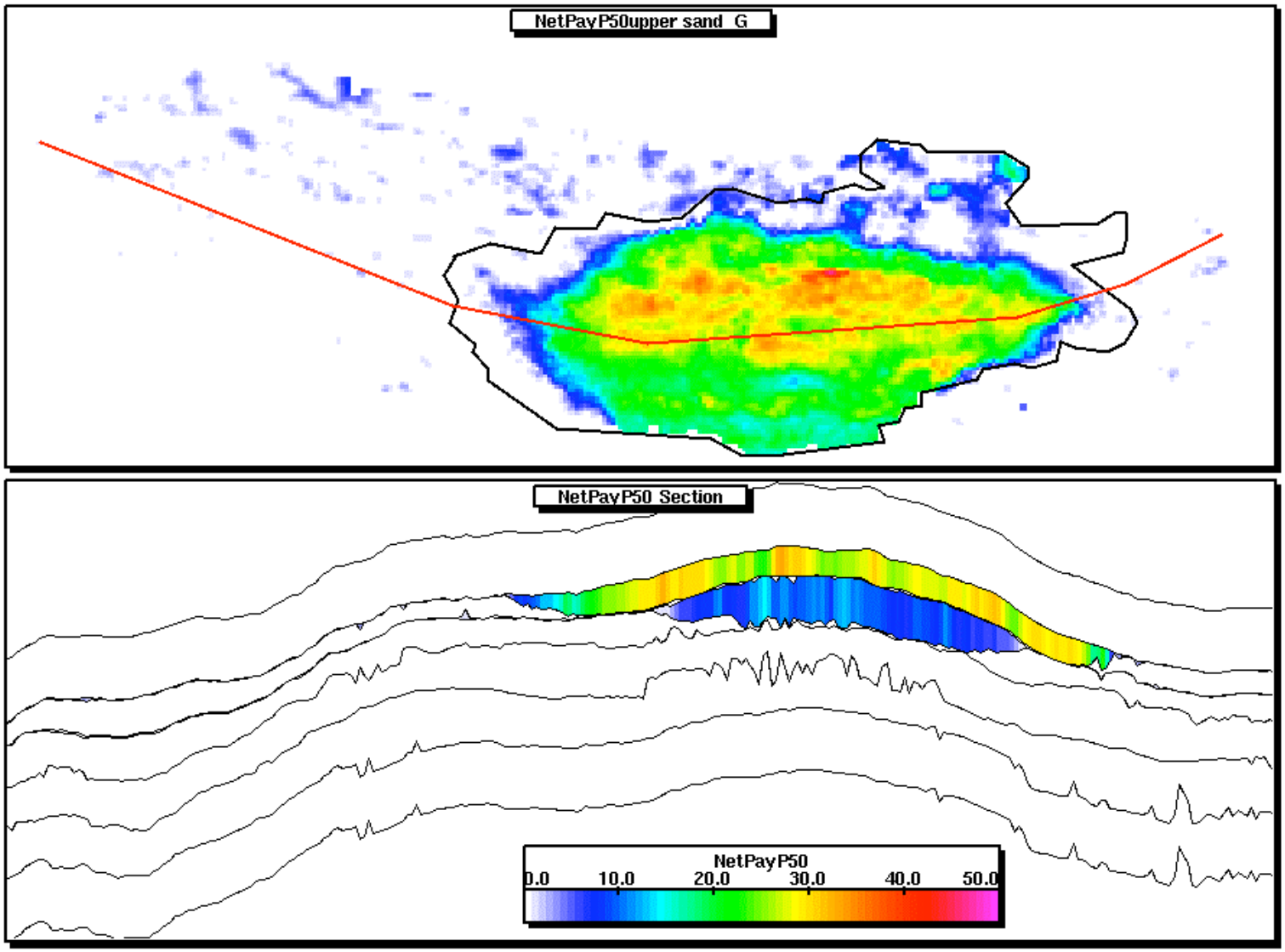


Fig 20

Model EWC3 P88 Net Pay

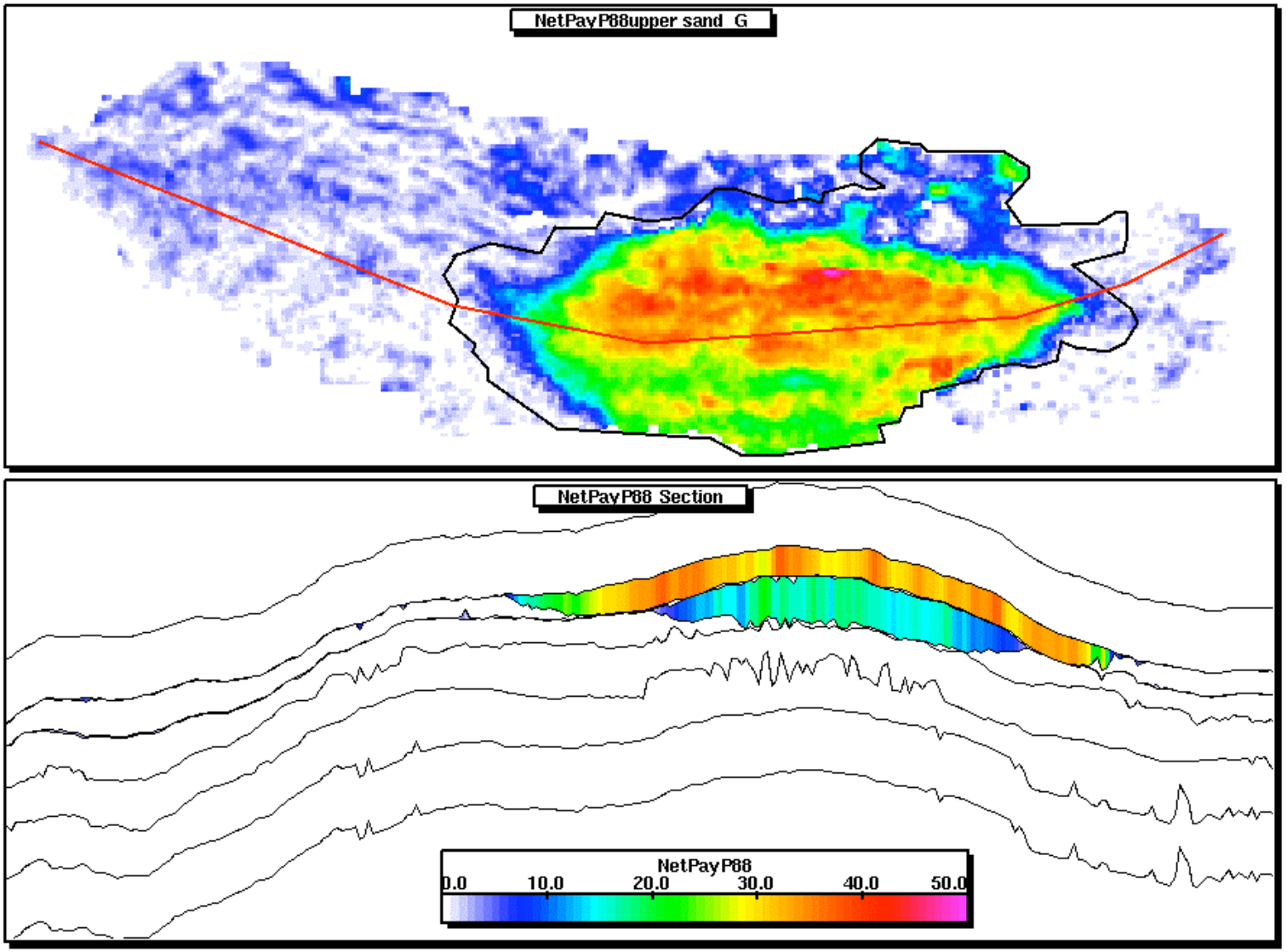


Fig 21

Model WES4 P12 Net Pay

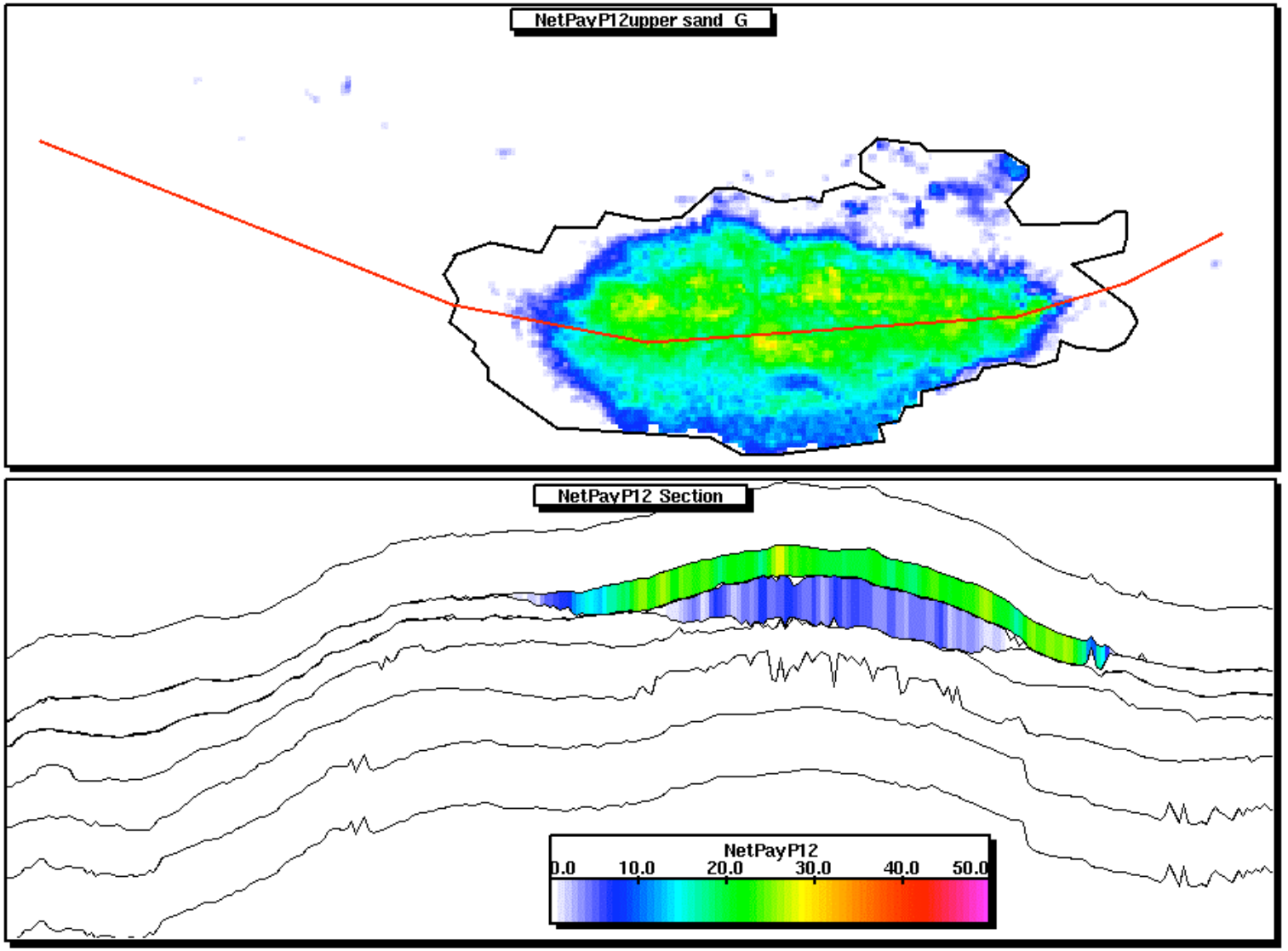


Fig 22

Model WES4 P50 Net Pay

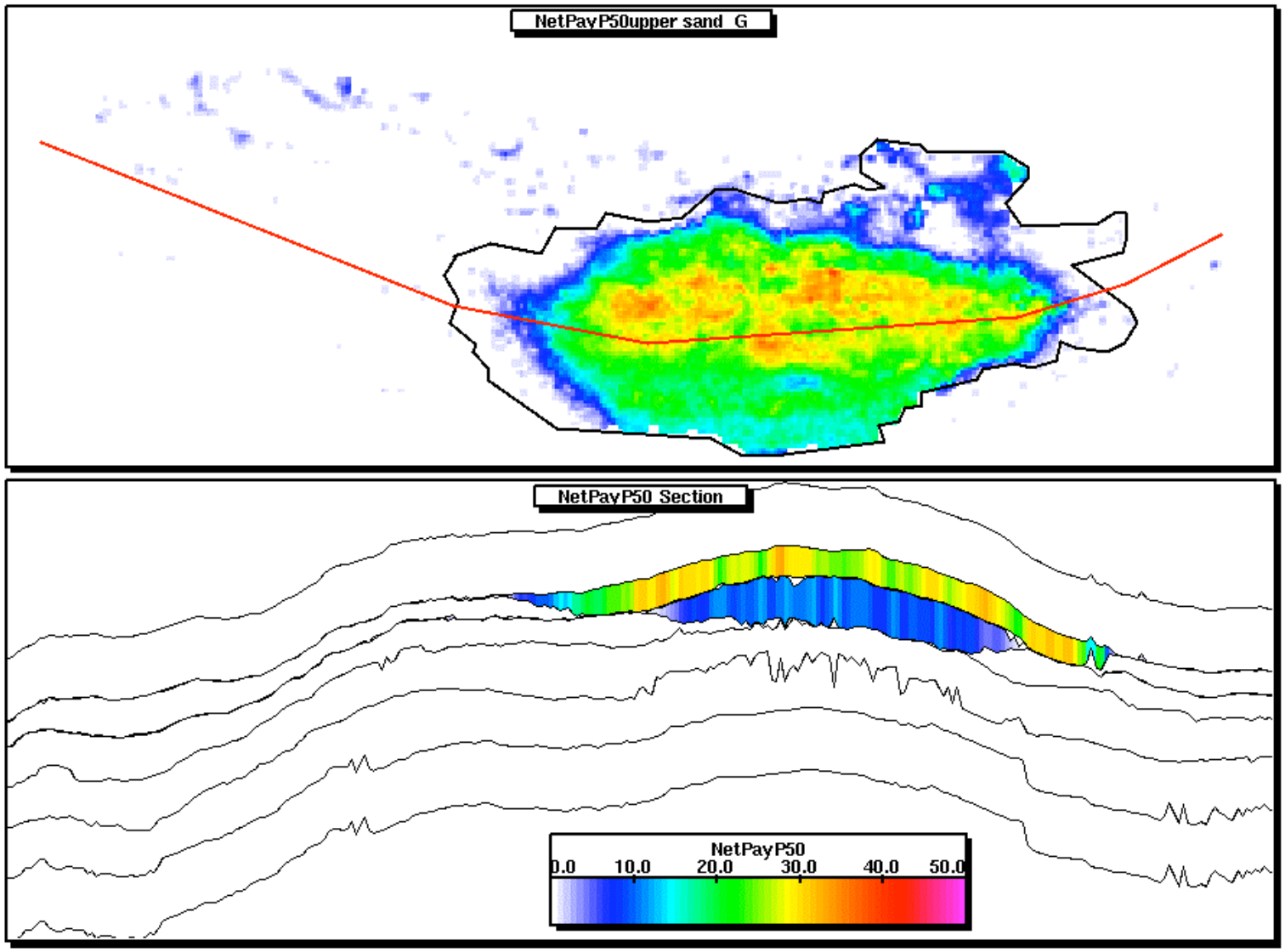


Fig 23

Model WES4 P88 Net Pay

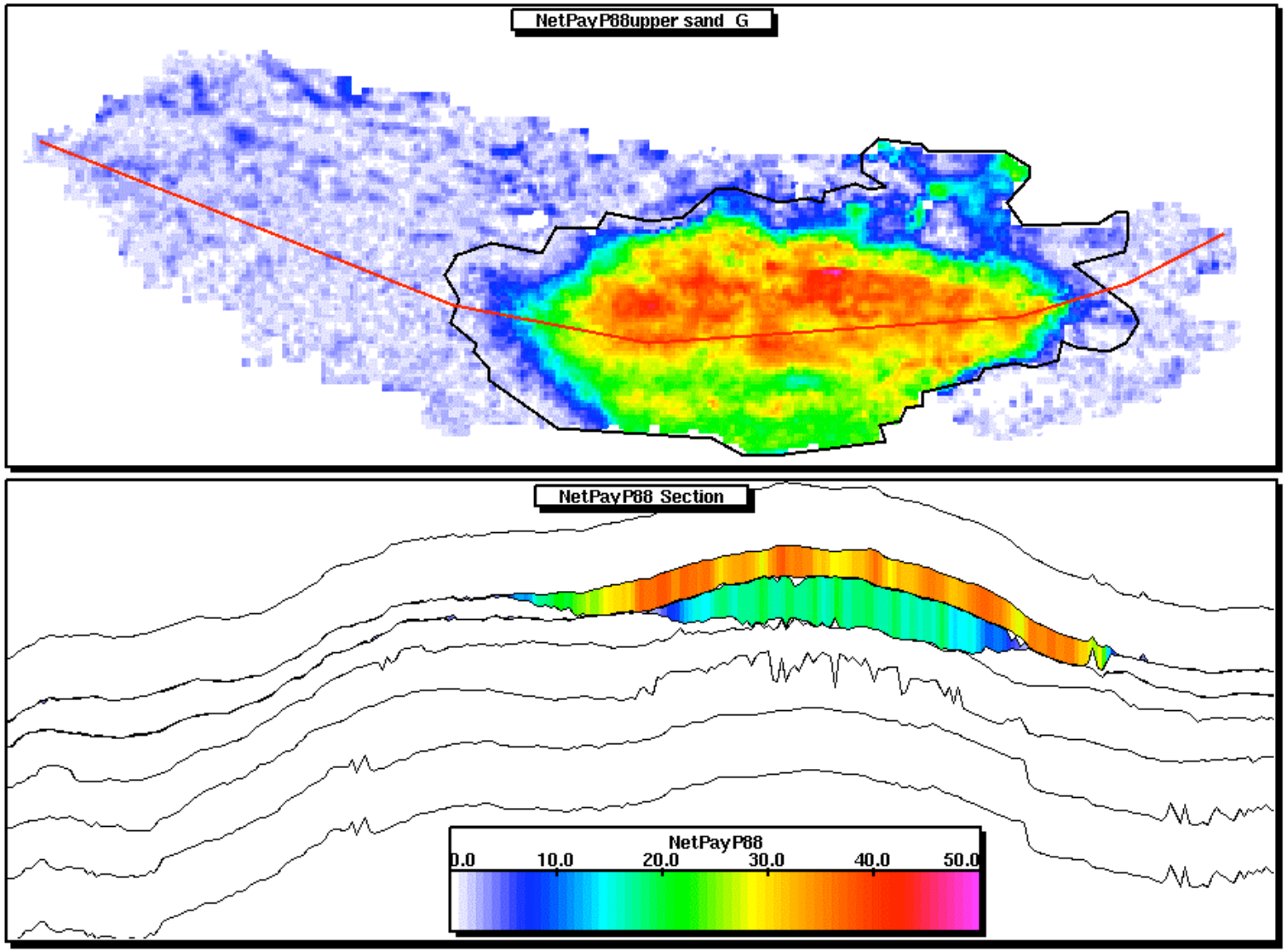


Fig 24