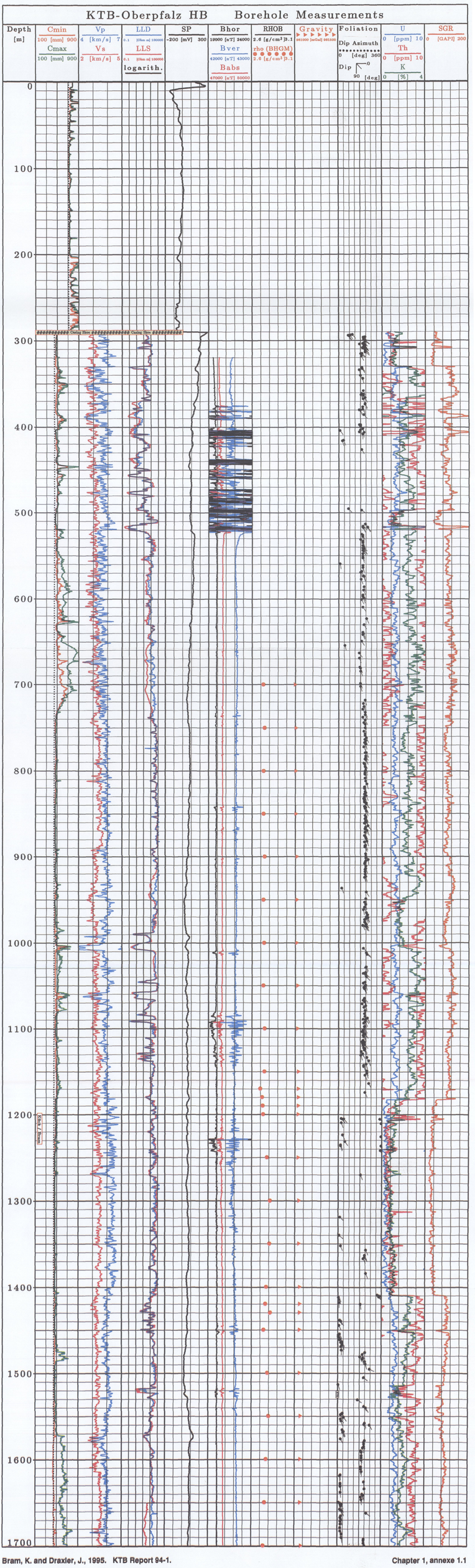
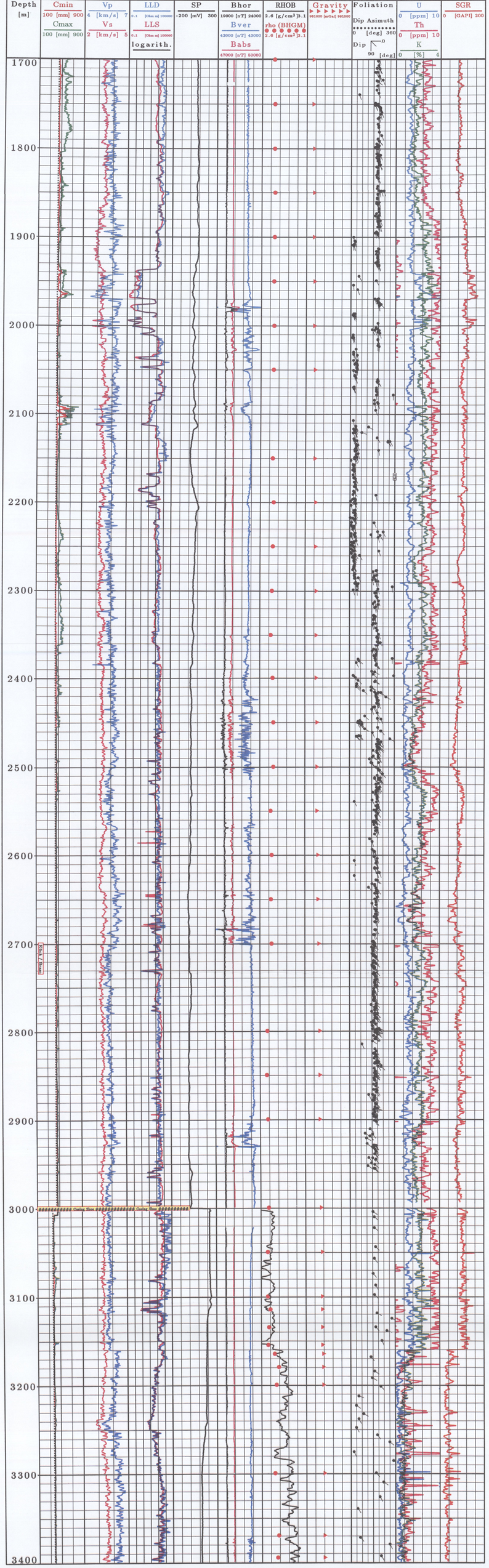
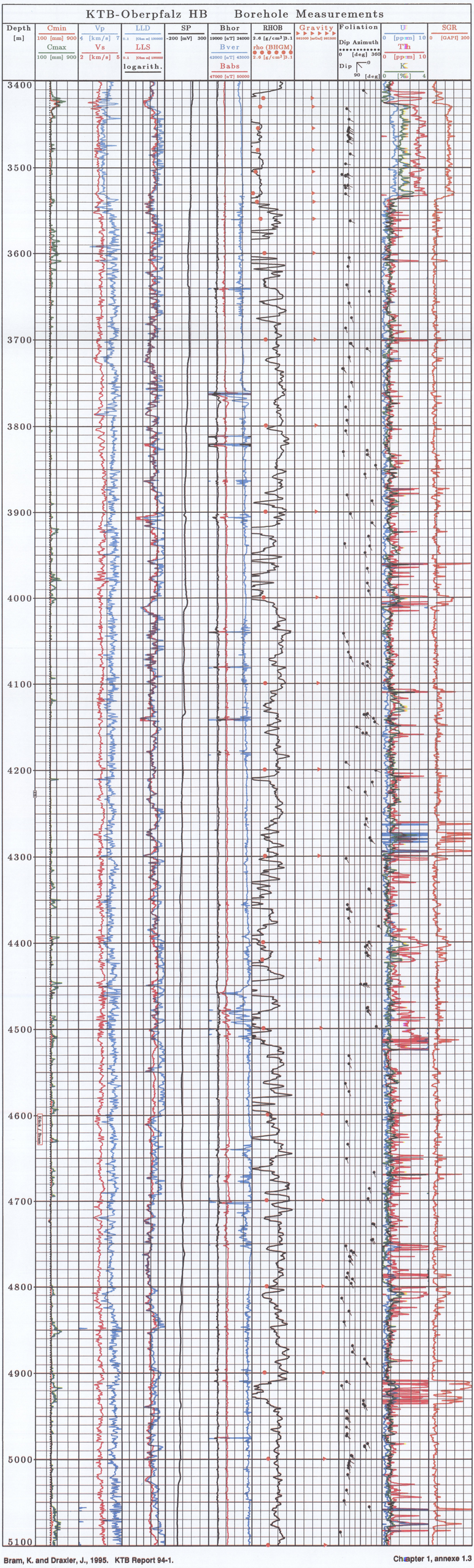
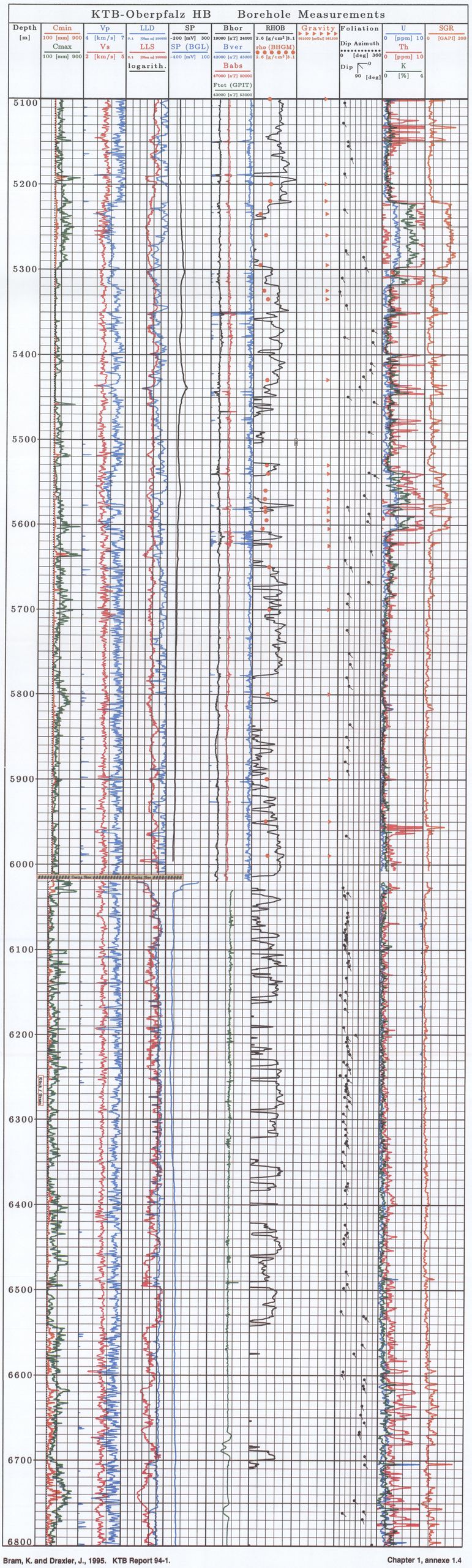
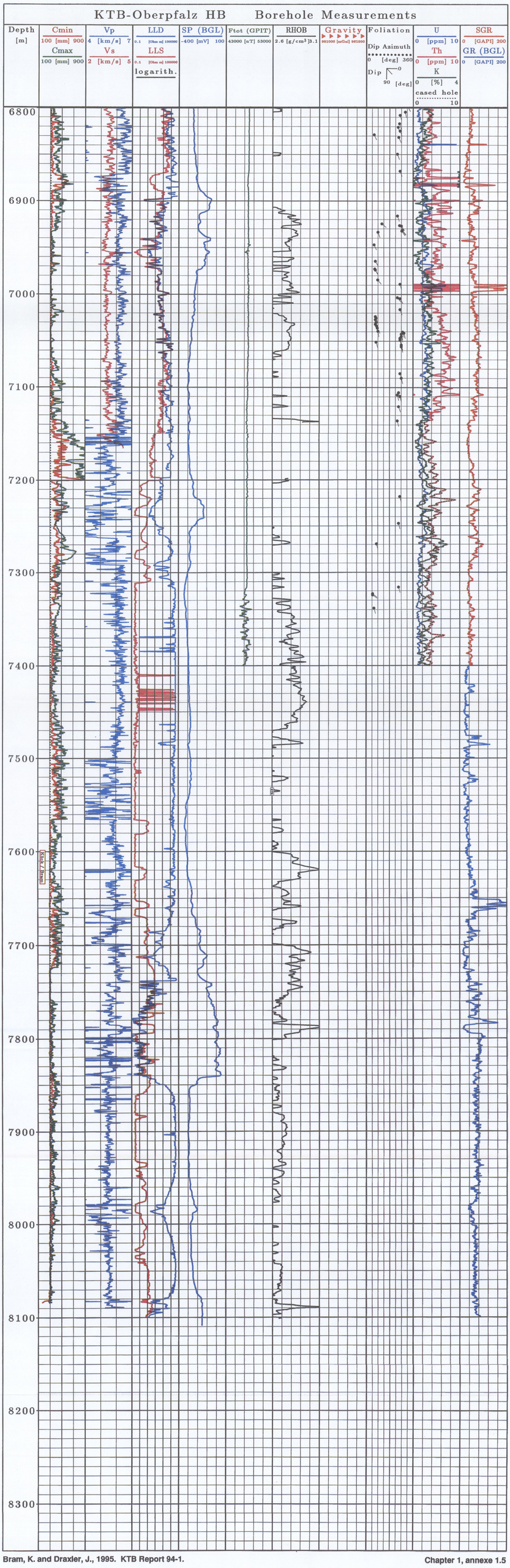
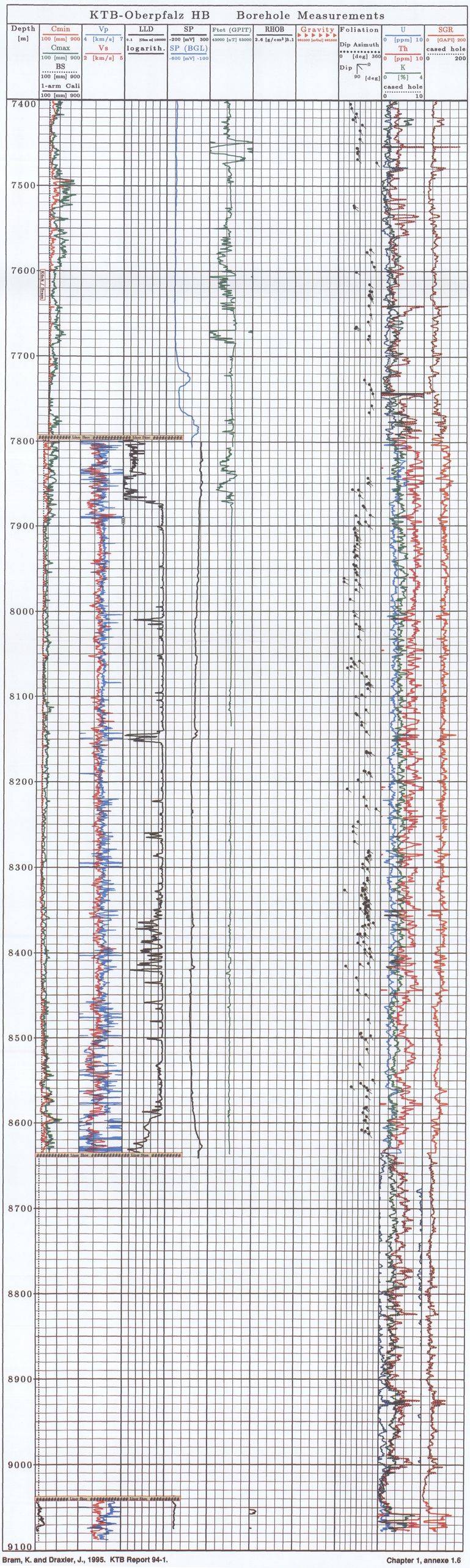

KTB-Oberpfalz HB Borehole Measurements
Depth [m]
Cmin 100 [mm] 900
Cmax 100 [mm] 900
Vp 4 [km/s] 7
Vs 2 [km/s] 5
LLD 0.1 [Ohm m] 100000
LLS 0.1 [Ohm m] 100000
logarith.
SP -200 [mV] 300
Bhor 19000 [nT] 24000
Bver 42000 [nT] 43000
Babs 47000 [nT] 50000
RHOB 2.6 [g/cm³] 3.1
rho (BHGM) 2.6 [g/cm³] 3.1
Gravity 981000 [nGal] 981500
Foliation
Dip Azimuth
0 [deg] 360
Dip
90 [deg]
U 0 [ppm] 10
Th 0 [ppm] 10
K 0 [%] 4
SGR 0 [GAPI] 300
Casing Shoe
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700


Depth [m]
Cmin 100 [mm] 900
Cmax 100 [mm] 900
Vp 4 [km/s] 7
Vs 2 [km/s] 5
LLD 0.1 [Ohm m] 100000
LLS 0.1 [Ohm m] 100000
logarith.
SP -200 [mV] 300
Bhor 19000 [nT] 24000
Bver 42000 [nT] 43000
Babs 47000 [nT] 50000
RHOB 2.6 [g/cm³] 3.1
rho (BHGM) 2.6 [g/cm³] 3.1
Gravity 981000 [mGal] 981500
Foliation
Dip Azimuth
0 [deg] 360
Dip 0 90 [deg]
U 0 [ppm] 10
Th 0 [ppm] 10
K 0 [%] 4
SGR 0 [GAPI] 200
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
Kick / Drawn
Casing Shoe
Casing Shoe

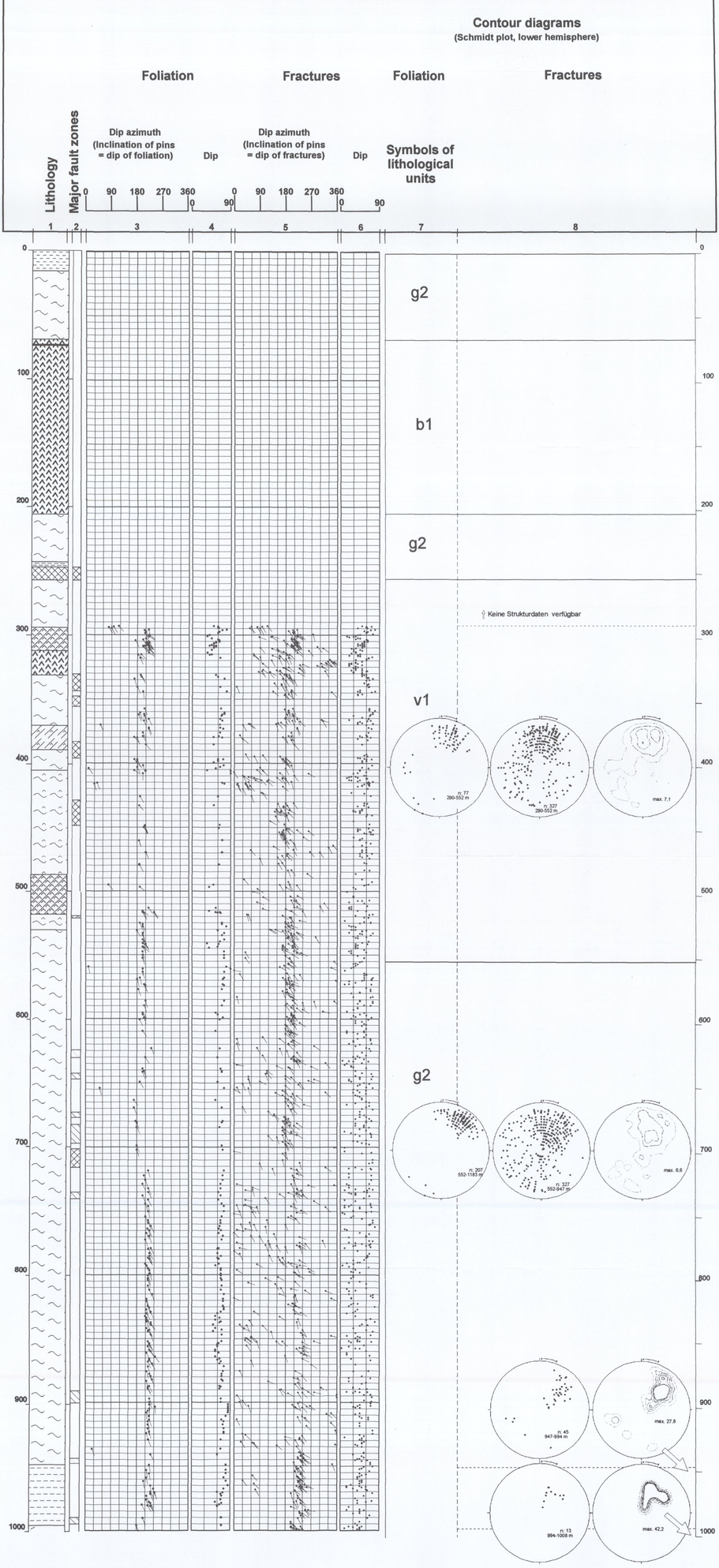

KTB-Oberpfalz HB Borehole Measurements
Depth [m]
Cmin 100 [mm] 900
Cmax 100 [mm] 900
Vp 4 [km/s] 7
Vs 2 [km/s] 5
LLD 0.1 [Ohm m] 100000
LLS 0.1 [Ohm m] 100000
logarith.
SP -200 [mV] 300
Bhor 19000 [nT] 24000
Bver 43000 [nT] 43000
Babs 47000 [nT] 50000
RHOB 2.6 [g/cm³] 3.1
rho (BHGM) 2.6 [g/cm³] 3.1
Gravity 981000 [mGal] 981500
Foliation
Dip Azimuth 0 [deg] 360
Dip 0 90 [deg]
U 0 [ppm] 10
Th 0 [ppm] 10
K 0 [%] 4
SGR 0 [GAPI] 200
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100


KTB-Oberpfalz HB Borehole Measurements
Depth [m]
Cmin 100 [mm] 900
Cmax 100 [mm] 900
Vp 4 [km/s] 7
Vs 2 [km/s] 5
LLD 0.1 [Ohm m] 100000
LLS 0.1 [Ohm m] 100000
logarith.
SP -200 [mV] 300
SP (BGL) -400 [mV] 100
Bhor 19000 [nT] 24000
Bver 42000 [nT] 43000
Babs 47000 [nT] 50000
Ftot (GPIT) 43000 [nT] 53000
RHOB 2.6 [g/cm³] 3.1
rho (BHGM) 2.6 [g/cm³] 3.1
Gravity 801000 [mGal] 981500
Foliation
Dip Azimuth 0 [deg] 360
Dip 0 90 [deg]
U 0 [ppm] 10
Th 0 [ppm] 10
K 0 [%] 4
SGR 0 [GAPI] 200
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
Clastic Dike
Clastic Dike
Kink / Fault


KTB-Oberpfalz HB Borehole Measurements
Depth [m]
Cmin 100 [mm] 900
Cmax 100 [mm] 900
Vp 4 [km/s] 7
Vs 2 [km/s] 5
LLD 0.1 [Ohm m] 100000
LLS 0.1 [Ohm m] 100000
logarith.
SP (BGL) -400 [mV] 100
Ftot (GPIT) 43000 [nT] 53000
RHOB 2.6 [g/cm³] 3.1
Gravity 981000 [mGal] 981500
Foliation
Dip Azimuth
0 [deg] 360
Dip 0 90 [deg]
U 0 [ppm] 10
Th 0 [ppm] 10
K 0 [%] 4
cased hole 0 10
SGR 0 [GAPI] 200
GR (BGL) 0 [GAPI] 200
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
KTB-Z (Main)


KTB-Oberpfalz HB Borehole Measurements
Depth [m]
Cmin 100 [mm] 900
Cmax 100 [mm] 900
BS 100 [mm] 900
1-arm Cali 100 [mm] 900
Vp 4 [km/s] 7
Vs 2 [km/s] 5
LLD 0.1 [Ohm m] 100000
logarith.
SP -200 [mV] 300
SP (BGL) -600 [mV] -100
Ftot (GPIT) 43000 [nT] 53000
RHOB 2.6 [g/cm³] 3.1
Gravity 981000 [mGal] 981500
Foliation
Dip Azimuth 0 [deg] 360
Dip 0 90 [deg]
U 0 [ppm] 10
Th 0 [ppm] 10
K 0 [%] 4
cased hole 0 10
SGR 0 [GAPI] 200
cased hole 0 200
7400
7500
7600
7700
7800
7900
8000
8100
8200
8300
8400
8500
8600
8700
8800
8900
9000
9100
Liner Shoe
Liner Shoe
Liner Shoe
Liner Shoe

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

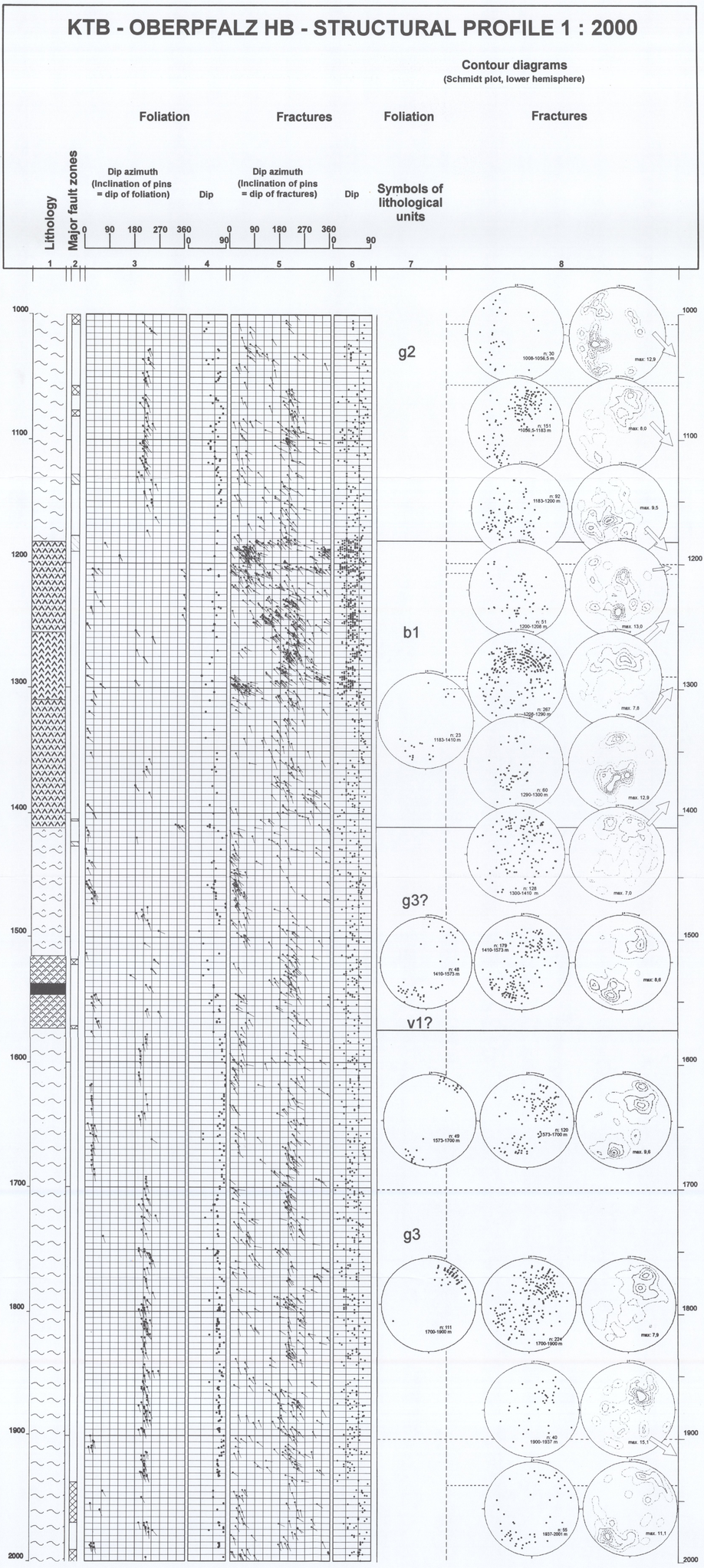
Lithological units (cutting profile, column 1)

- (Muscovite-)biotite gneiss
- Gneiss with minor intercalations of amphibolite and/or biotite-hornblende gneiss
- Alternation of amphibolite, biotite-hornblende gneiss, biotite gneiss, and partly calcsilicate or marble
- Alternation of prevailing biotite gneiss and subordinate biotite-hornblende gneiss and amphibolite
- Alternation of prevailing amphibolite and subordinate biotite-hornblende gneiss and biotite gneiss
- Amphibolite with minor intercalations of biotite gneiss and/or biotite-hornblende gneiss
- Amphibolite and metagabbro
- Amphibolite, marble-bearing
- Plagioclase gneiss, chloritized
- Alternation, chloritized
- Lamprophyre
- Cataclasite

Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

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- Lamprophyre
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Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

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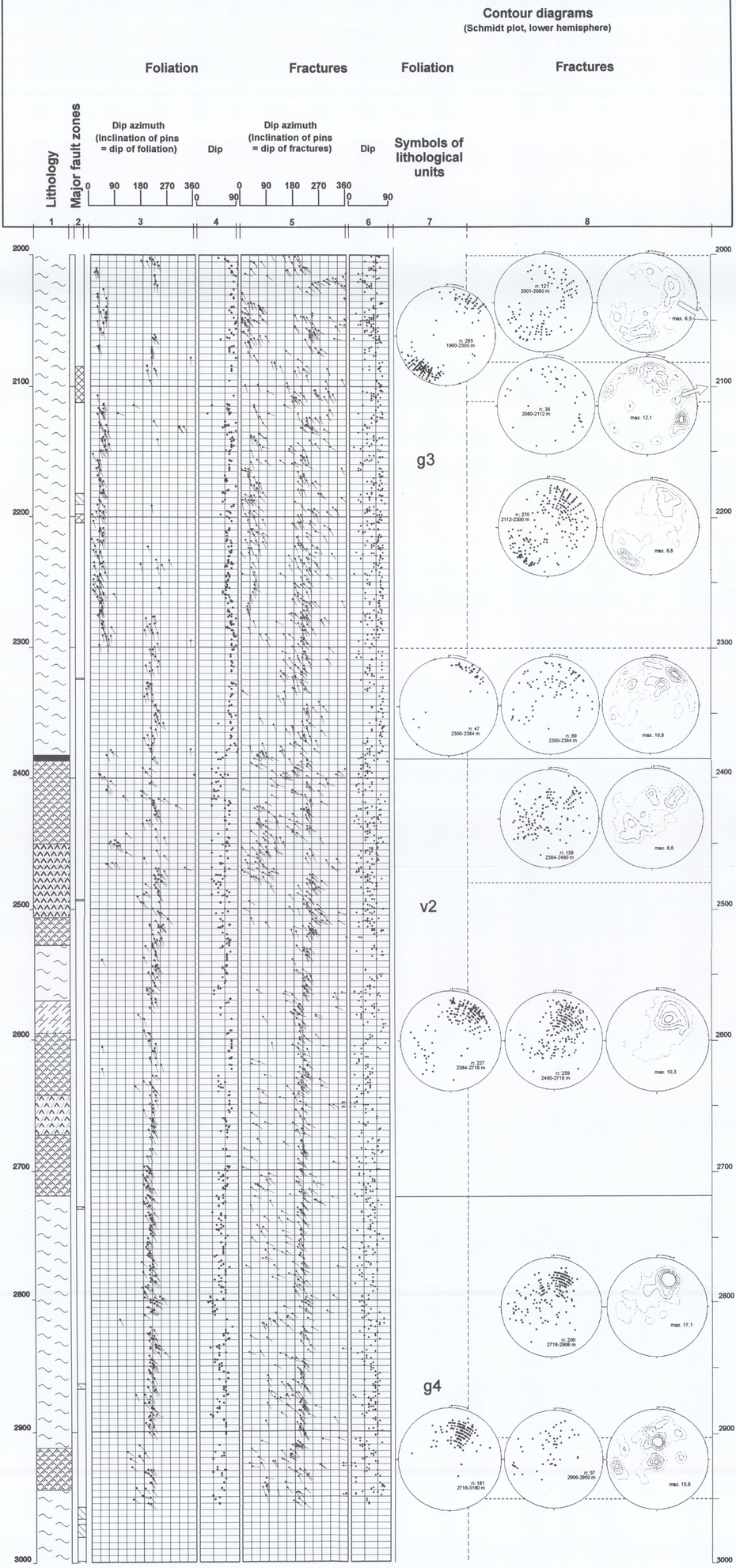
KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

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Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
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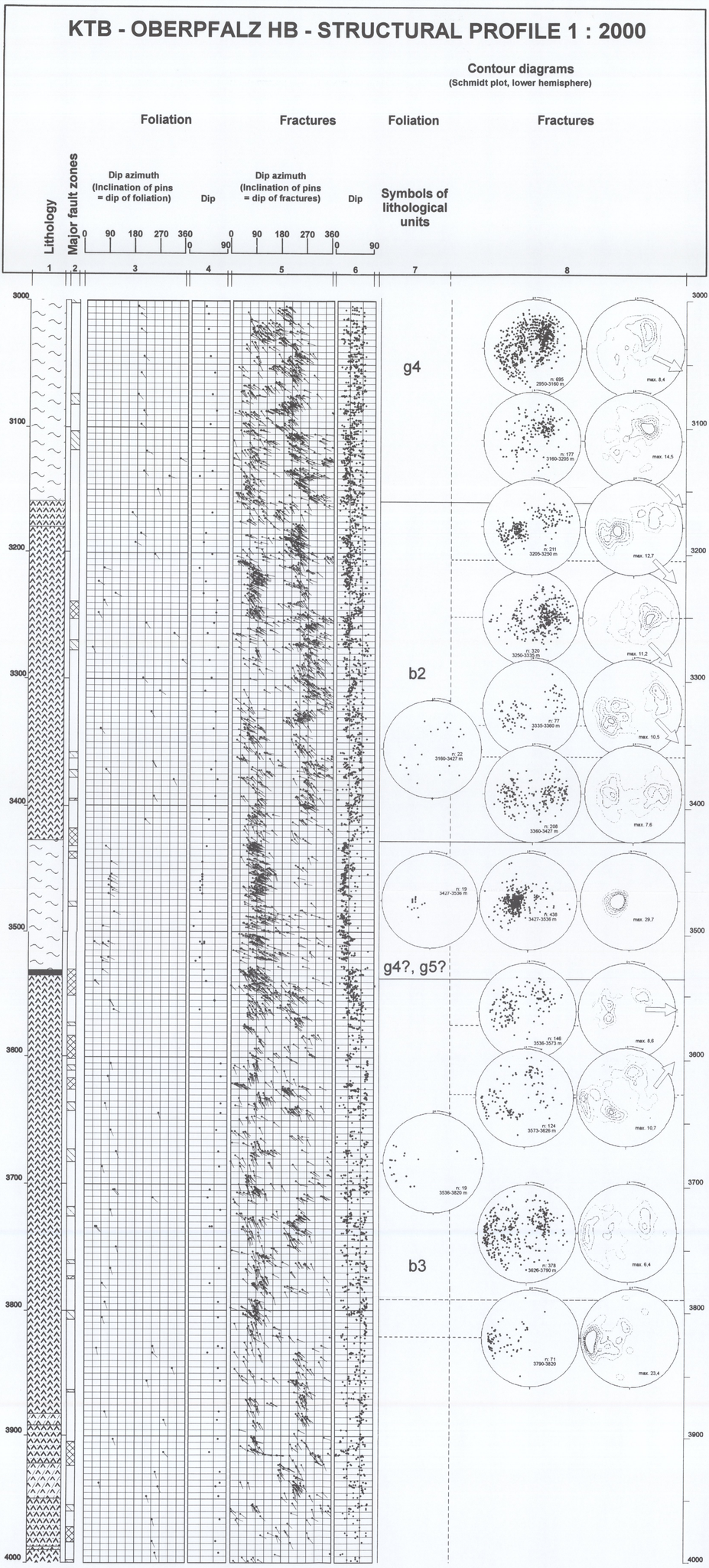
Evaluation of the Structural Geology of the
KTB Hauptbohrung (KTB-Oberpfalz HB)

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

Lithological units (cutting profile, column 1)

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- Plagioclase gneiss, chloritized
- Alternation, chloritized
- Lamprophyre
- Cataclasite

Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

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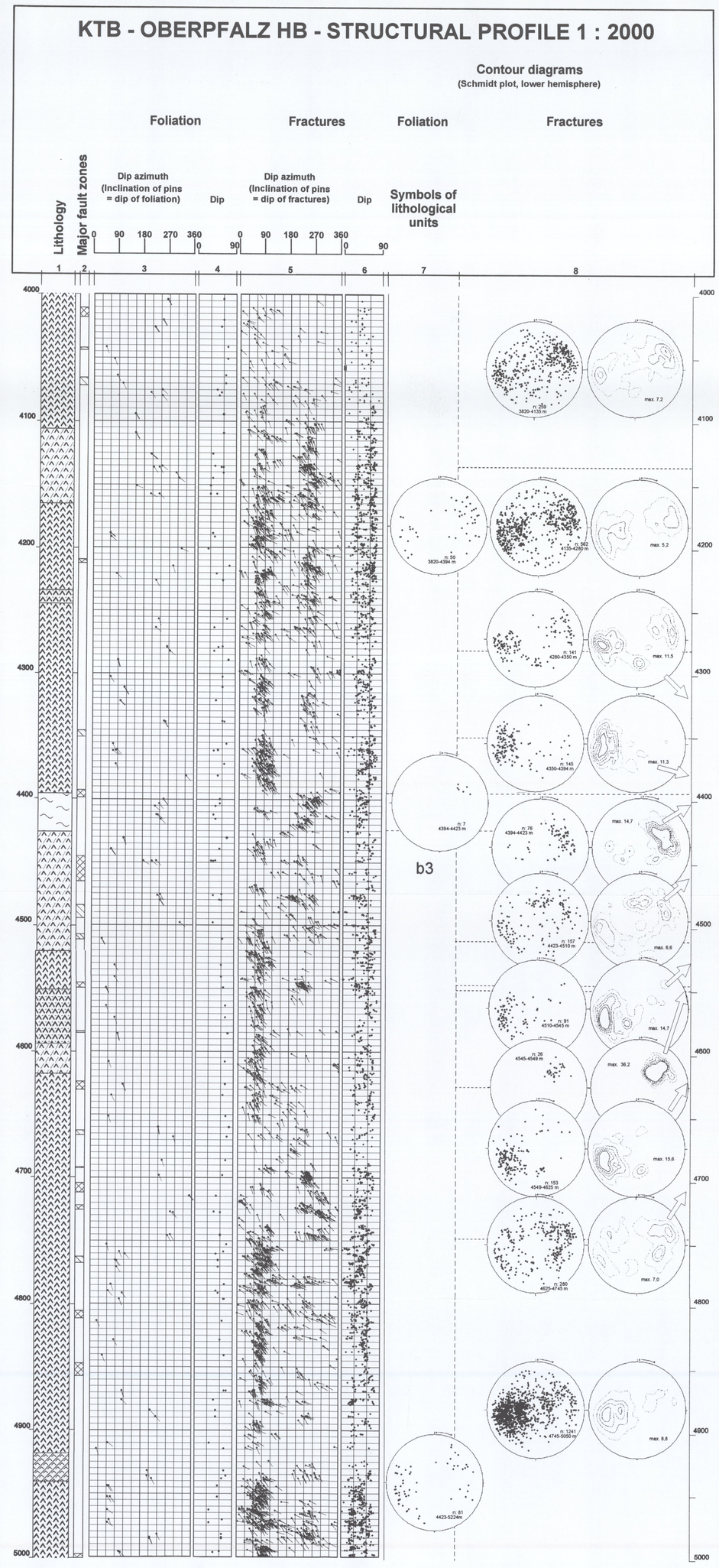
Evaluation of the Structural Geology of the KTB Hauptbohrung (KTB-Oberpfalz HB)

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

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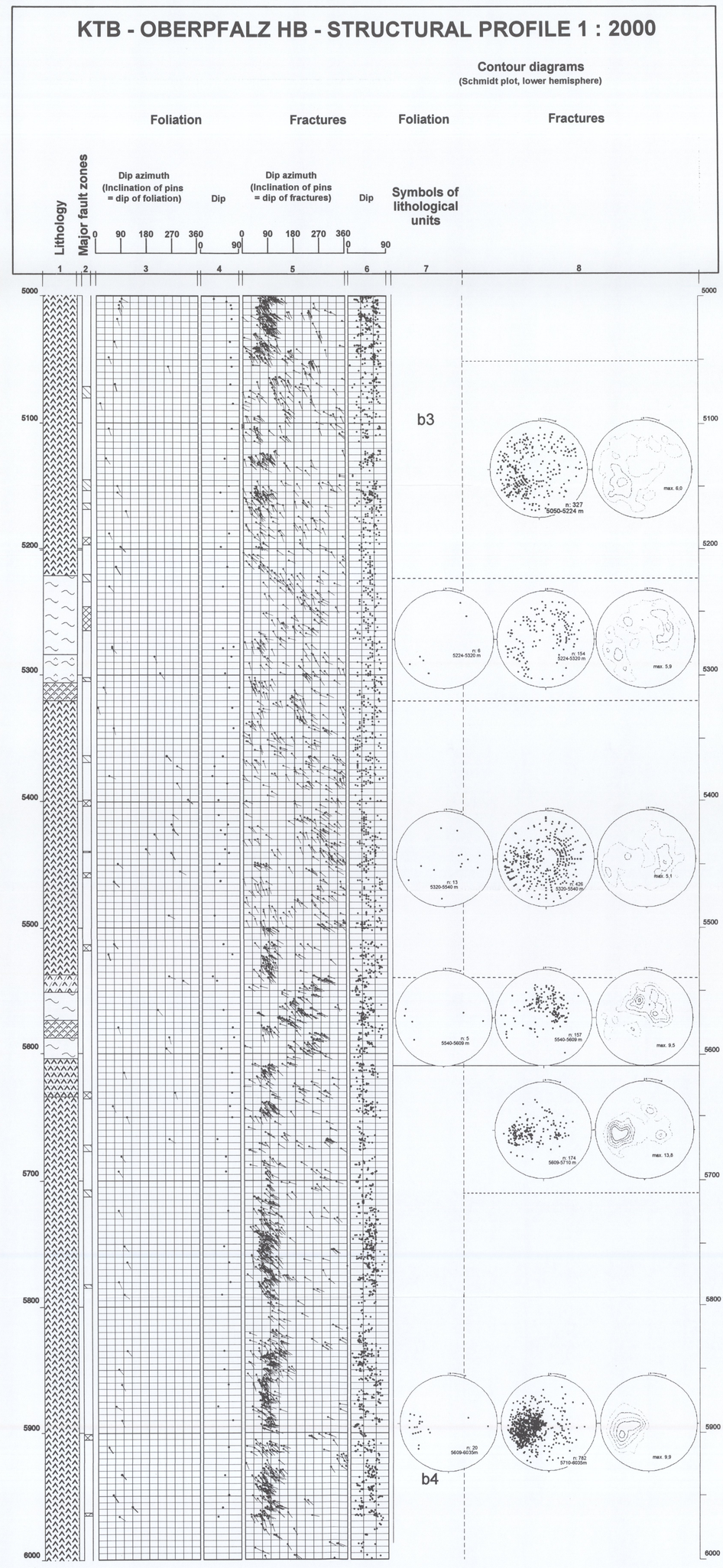
- Amphibolite, marble-bearing
- Plagioclase gneiss, chloritized
- Alternation, chloritized
- Lamprophyre
- Cataclasite

Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



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Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

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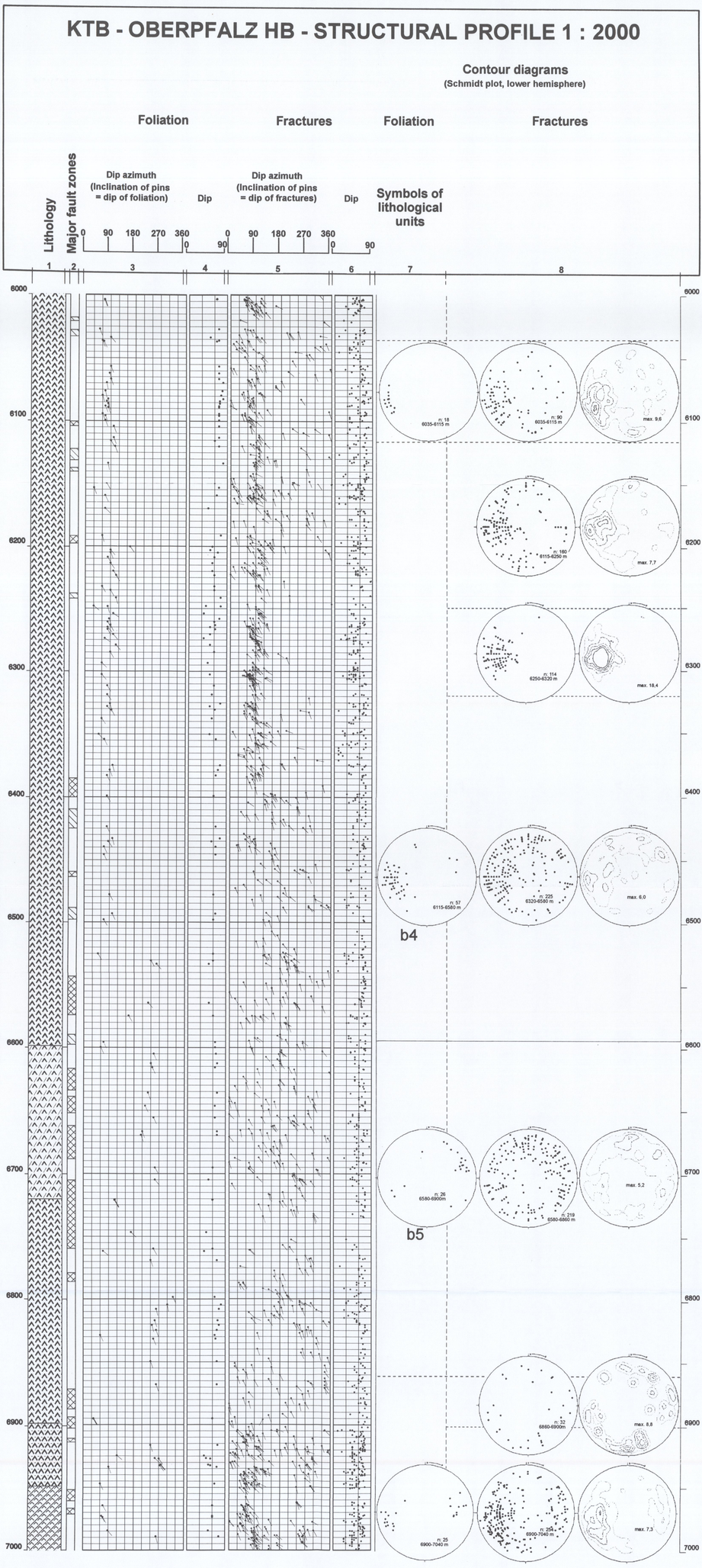
Evaluation of the Structural Geology of the KTB Hauptbohrung (KTB-Oberpfalz HB)

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



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Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

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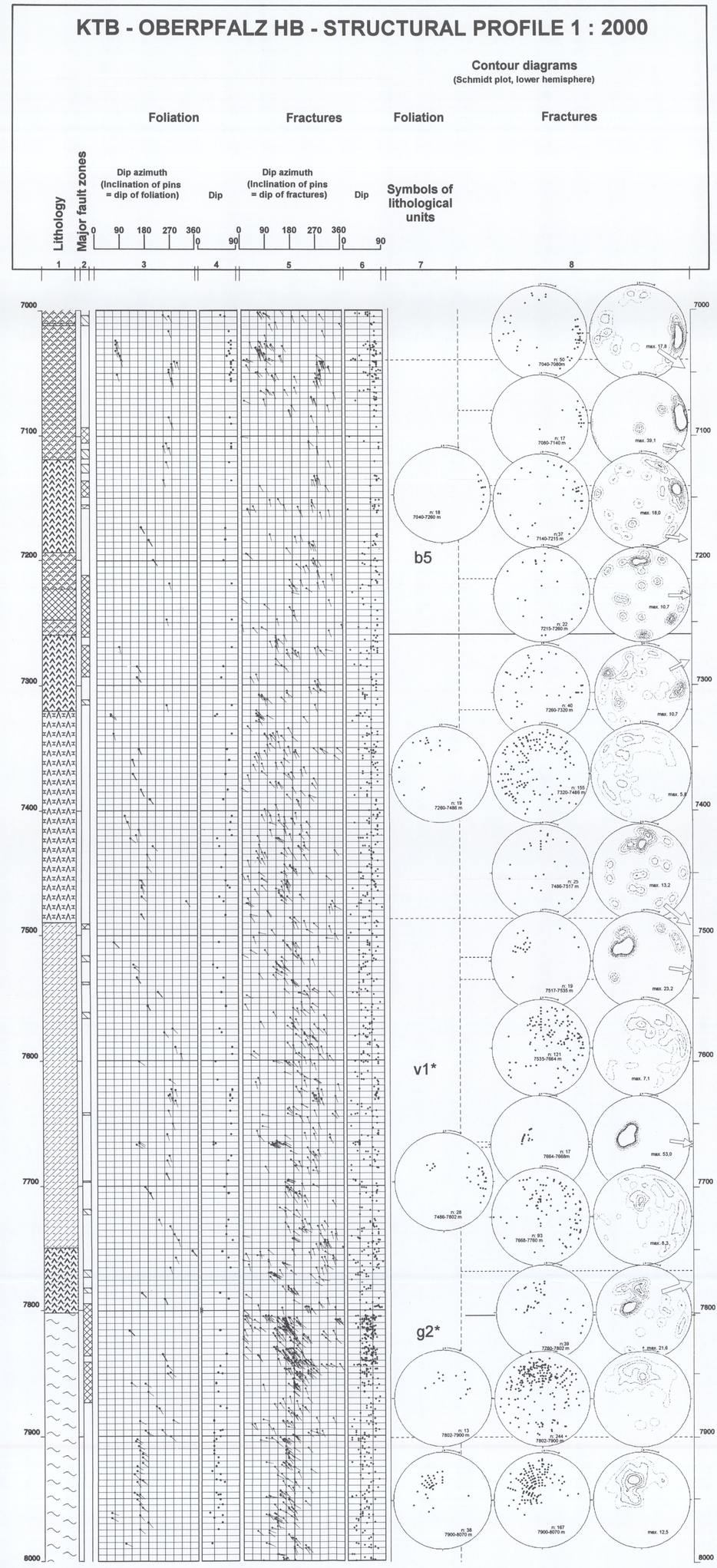
Evaluation of the Structural Geology of the KTB Hauptbohrung (KTB-Oberpfalz HB)

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

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Fault zones (according to logging data and cutting profile, column 2)

- Important fault zone
- Fault zone of minor importance

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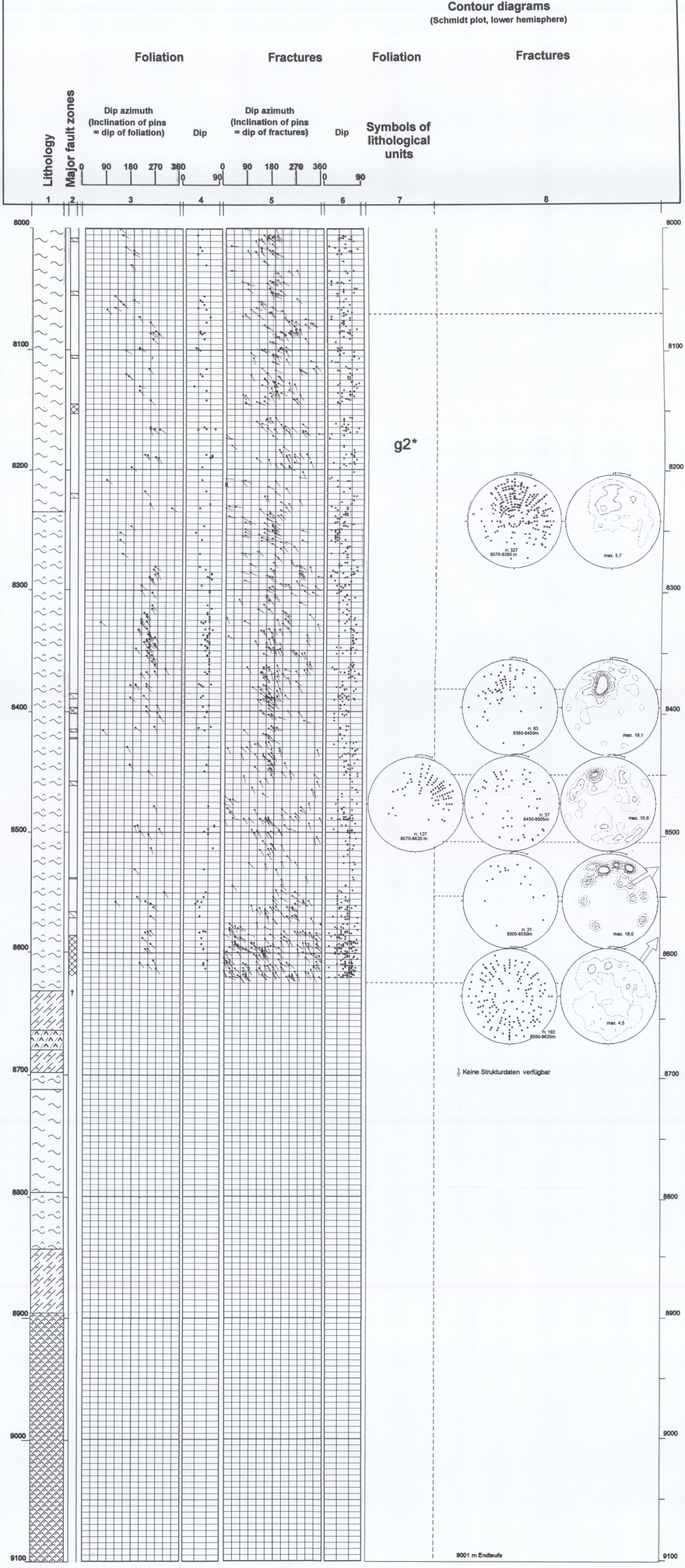
Evaluation of the Structural Geology of the KTB Hauptbohrung (KTB-Oberpfalz HB)

KTB - OBERPFALZ HB - STRUCTURAL PROFILE 1 : 2000



Explanations

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- Important fault zone
- Fault zone of minor importance

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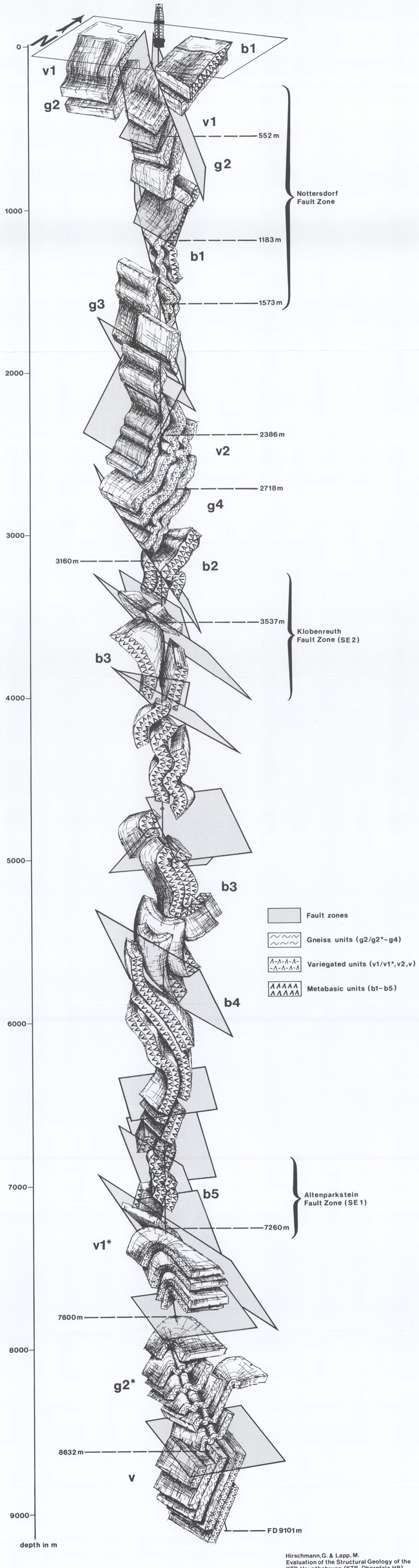
Evaluation of the Structural Geology of the KTB Hauptbohrung (KTB-Oberpfalz HB)

KTB-Oberpfalz HB- 3D Model of the Structural Profile



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Evaluation of the Structural Geology of the
KTB Hauptbohrung (KTB-Oberpfalz HB)

Graphik: T. Leinemann
KTB Report 94-1

Annexe 3