N E B COPY

HEF PETROPHYSICAL CONSULTING INC.

IMAGED DIPMETER INTERPRETATION

Using EIT/CBIL Data

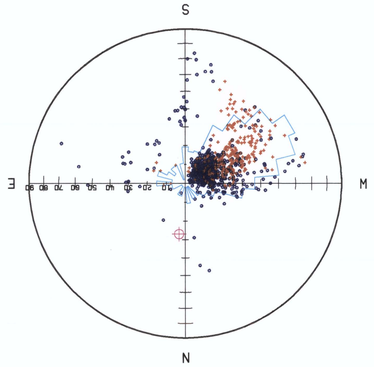
COMPANY	PARAMOUNT RESOURCES LTD.		
WELL	PARAMOUNT ET AL LIARD k-29A		
FIELD	LIARD		
PROVINCE	NWT	COUNTRY	CANADA
LOCATION	UWID: 300k296030123303 LIC: 1125		

Elevations:	KB: 416.4m	DF: m	GL: 409.6m
RUN NUMBER	One		
LOGGING DATE	21-Sep-05		
DEPTH - DRILLER	2566.0m		
DEPTH - LOGGER	2562.0m		
BOTTOM LOGGED INTERVAL	2561.5m		
TOP LOGGED INTERVAL	1853.0m		
BIT SIZE	216.0mm		
FLUID TYPE IN HOLE	INVERT		
LOGGING CONTRACTOR	BAKER HUGHES		

BAKER ATLAS
I N C L I N E
COMPUTED DIPMETER RESULTS

COMPANY	:	PARAMOUNT RESOURCES LTD.
FIELD	:	LIARD
WELL	:	PARAMOUNT ET AL LIARD
CORRELATION INTERVAL	:	0.00 METRES
CORRELATION STEP	:	2.00 METRES
SEARCH ANGLE	:	UNKNOWN
SEARCH REFERENCE	:	UNKNOWN
MAXIMUM SEARCH	:	UNKNOWN
MAGNETIC DECLINATION	:	UNKNOWN
SHORT TERM AVERAGE	:	UNKNOWN
STACKING SURFACES	:	1
LOG NAME	:	NAME=BEDS
DATE/TIME	:	2005/ 3/ AT 8:31: 3
ANALYST	:	HS

EQUAL AREA (SCHMIDT) PLOT OF POLES SCALE AT PERIPHERY = 90 DEGREES



PLOT INFORMATION

EQUAL AREA (SCHMIDT) PLOT
PARAMOUNT RESOURCES LTD.
LIARD
PARAMOUNT ET AL LIARD

LOG INFORMATION

COMPANY :
FIELD :
WELL :

INTERVAL PLOTTED : 2554.70 - 1826.70	LOGGING CONTRACTOR : UNKNOWN
MEAN DIP (CONE 90 DEG) : 19.5 AT 238 (768 DIPS)	TOOL TYPE : UNKNOWN
MEAN DIP (CONE 5 DEG) : ⊙ 18.7 AT 238 (88 DIPS)	DATA SOURCE : RECALL DATABASE
	CORRELATION OPTION : C4 PAD-TO-PAD
COEFFICIENT ABOVE 0.3 : °	CORRELATION INTERVAL : 0.00 METRES
COEFFICIENT ABOVE 0.6 : +	CORRELATION STEP : 2.00 METRES
MEAN WELL DEVIATION : ⊕	SEARCH ANGLE : 0.00 DEGREES
INCLINE FILE :	SEARCH REFERENCE : BOREHOLE
DATE/TIME : 2005/ 3/ AT 8:31: 3	MAGNETIC DECLINATION : 0.0 WEST OF NORTH
ANALYST : HS	INCLINE VERSION : 2

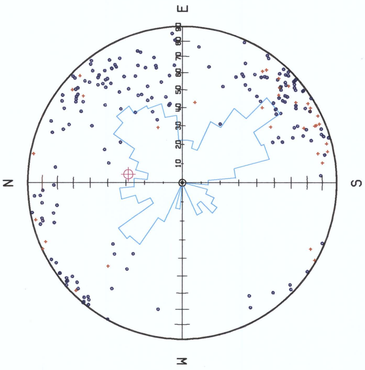
BAKER ATLAS
I N C L I N E

COMPUTED DIPMETER RESULTS

COMPANY	: PARAMOUNT RESOURCES LTD.
FIELD	: LIARD
WELL	: PARAMOUNT ET AL LIARD
CORRELATION INTERVAL	: 0.00 METRES
CORRELATION STEP	: 2.00 METRES
SEARCH ANGLE	: UNKNOWN
SEARCH REFERENCE	: UNKNOWN
MAXIMUM SEARCH	: UNKNOWN
MAGNETIC DECLINATION	: UNKNOWN
SHORT TERM AVERAGE	: UNKNOWN
STACKING SURFACES	: 1
LOG NAME	: NAME=FRACTURES
DATE/TIME	: 2005/ 3/ AT 13:58:26
ANALYST	: HS

EQUAL AREA (SCHMIDT) PLOT

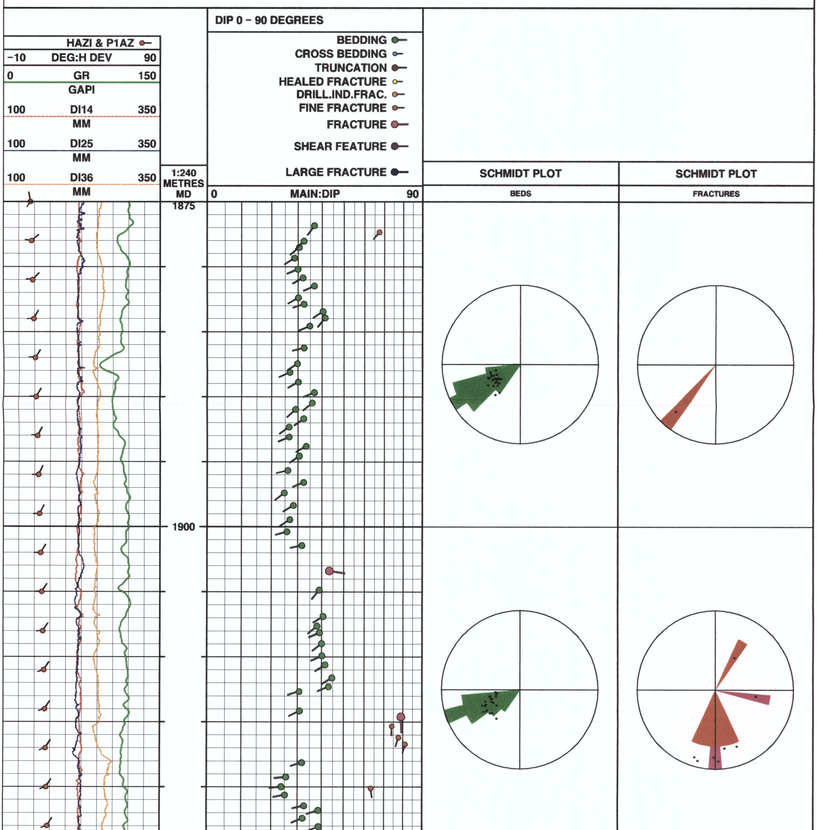
COMPANY : PARAMOUNT RESOURCES LTD.
FIELD : LIARD
WELL : PARAMOUNT ET AL LIARD

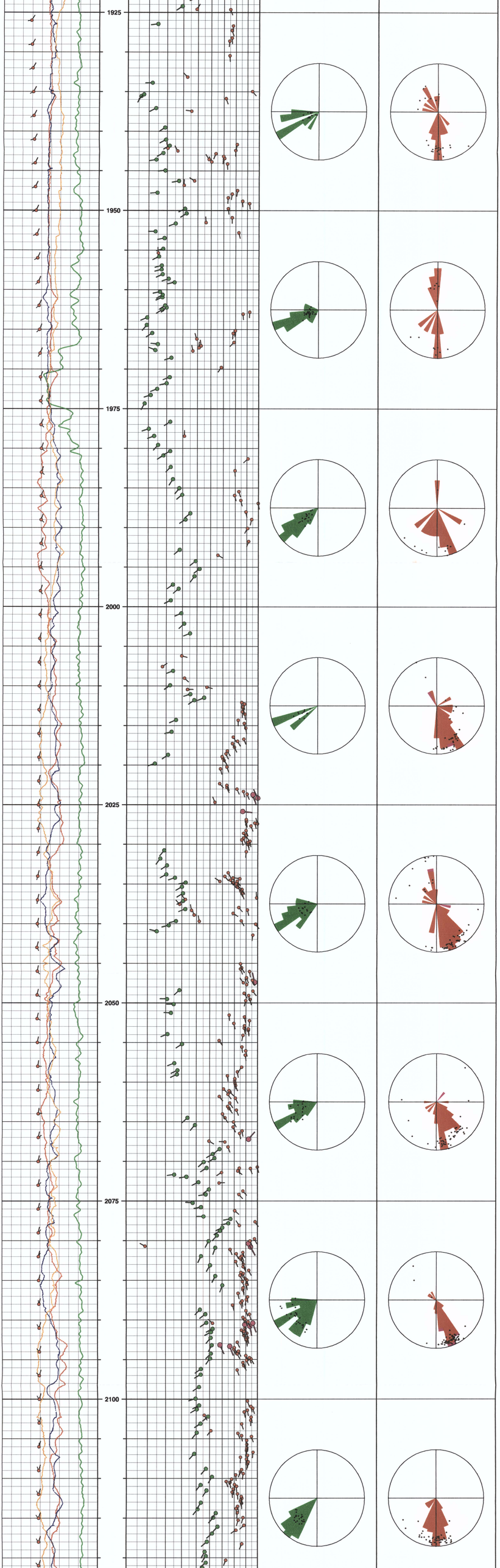


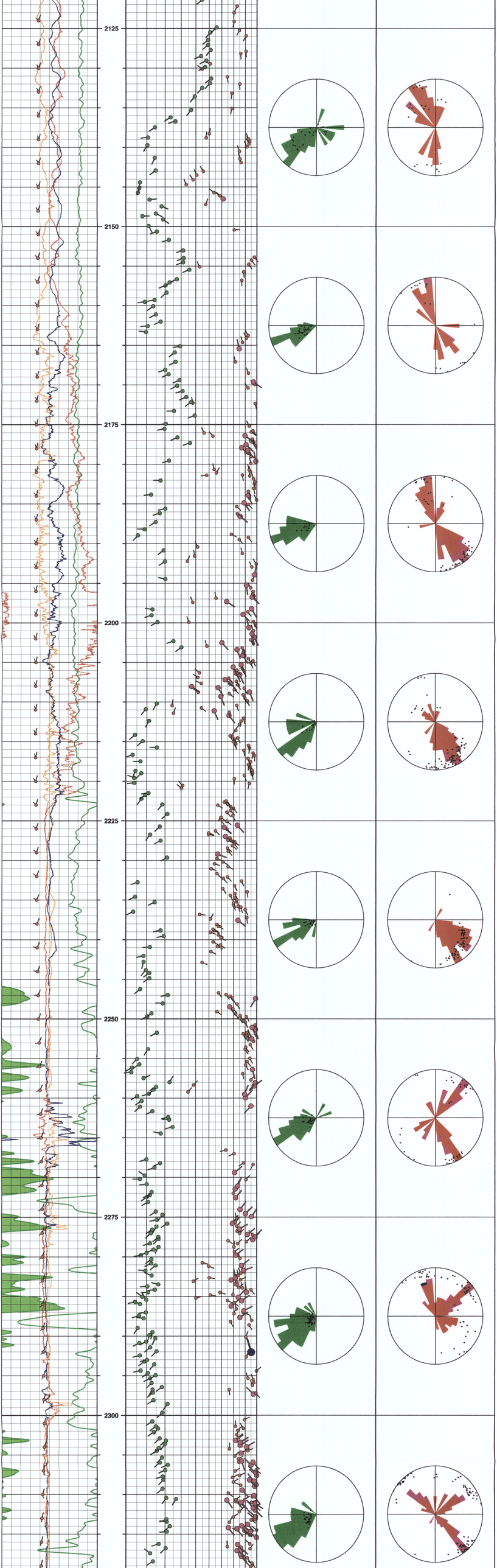
EQUAL AREA (SCHMIDT) PLOT OF POLES SCALE AT PERIPHERY = 90 DEGREES

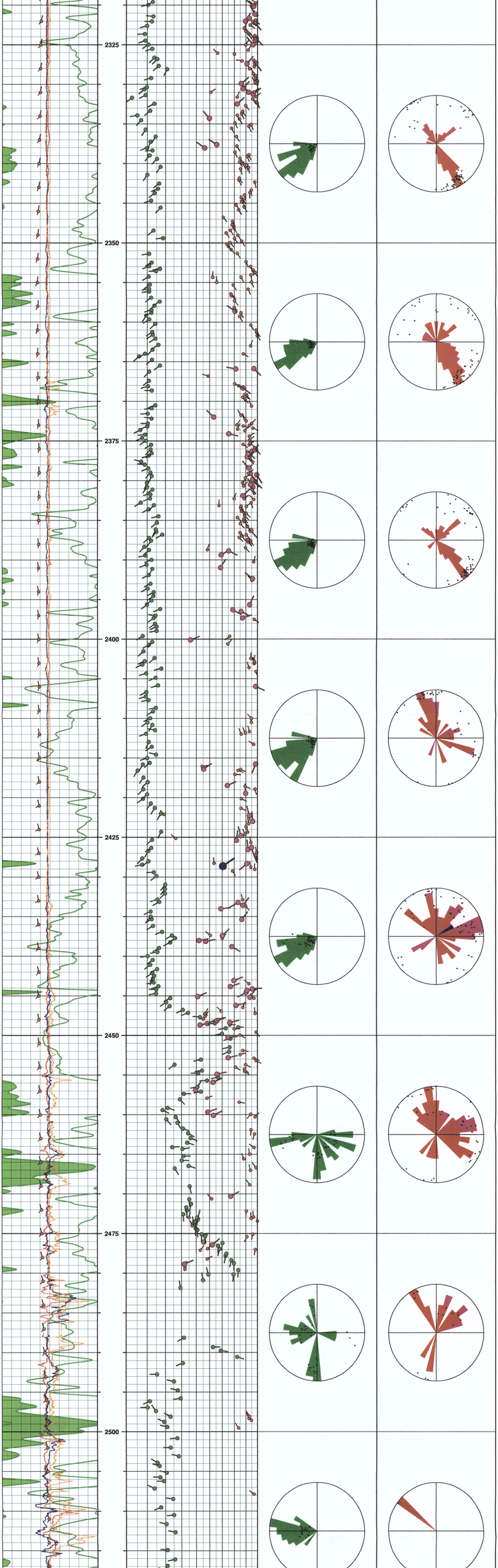
PLOT INFORMATION	LOG INFORMATION
INTERVAL PLOTTED : 2478.84 - 1903.39	LOGGING CONTRACTOR : UNKNOWN
MEAN DIP (CONE 90 DEG) : 54.3 AT 90 (217 DIPS)	TOOL TYPE : UNKNOWN
MEAN DIP (CONE 5 DEG) : ⊙ 0.0 AT 0 (0 DIPS)	DATA SOURCE : RECALL DATABASE
	CORRELATION OPTION : C4 PAD-TO-PAD
COEFFICIENT ABOVE 0.3 : °	CORRELATION INTERVAL : 0.00 METRES
COEFFICIENT ABOVE 0.6 : +	CORRELATION STEP : 2.00 METRES
MEAN WELL DEVIATION : ⊕	SEARCH ANGLE : 0.00 DEGREES
INCLINE FILE :	SEARCH REFERENCE : BOREHOLE
DATE/TIME : 2005/ 3/ AT 13:58:25	MAGNETIC DECLINATION : 0.0 WEST OF NORTH
ANALYST : HS	INCLINE VERSION : 2

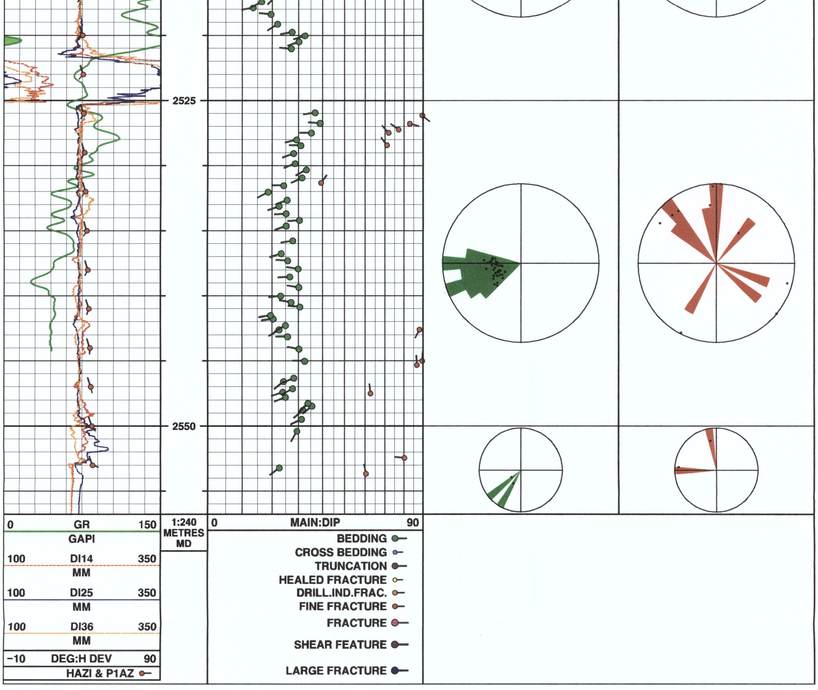
HEF Petrophysical Consulting Inc.
WELL NAME: PARAMOUNT ET AL LIARD k-29A



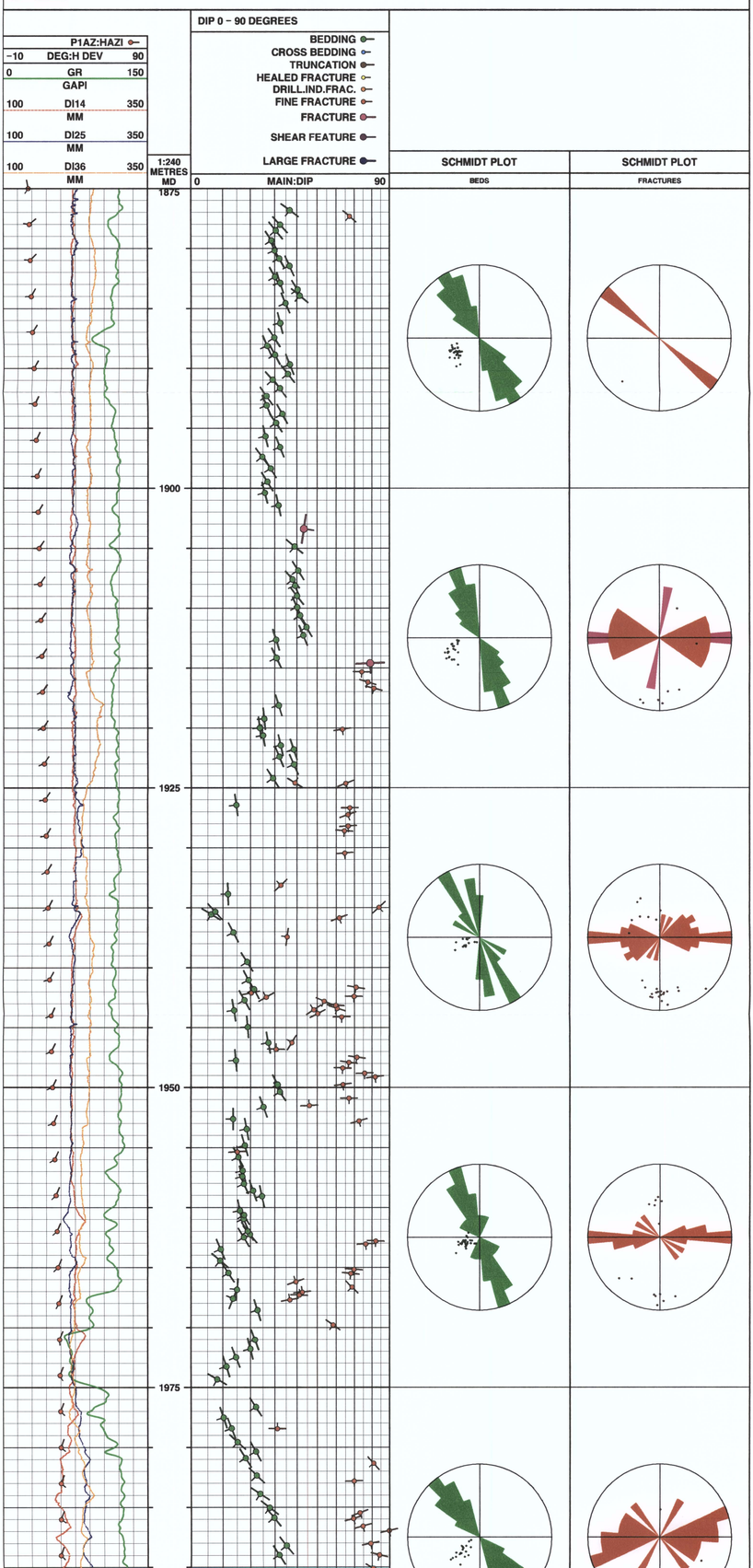

1925
1950
1975
2000
2025
2050
2075
2100

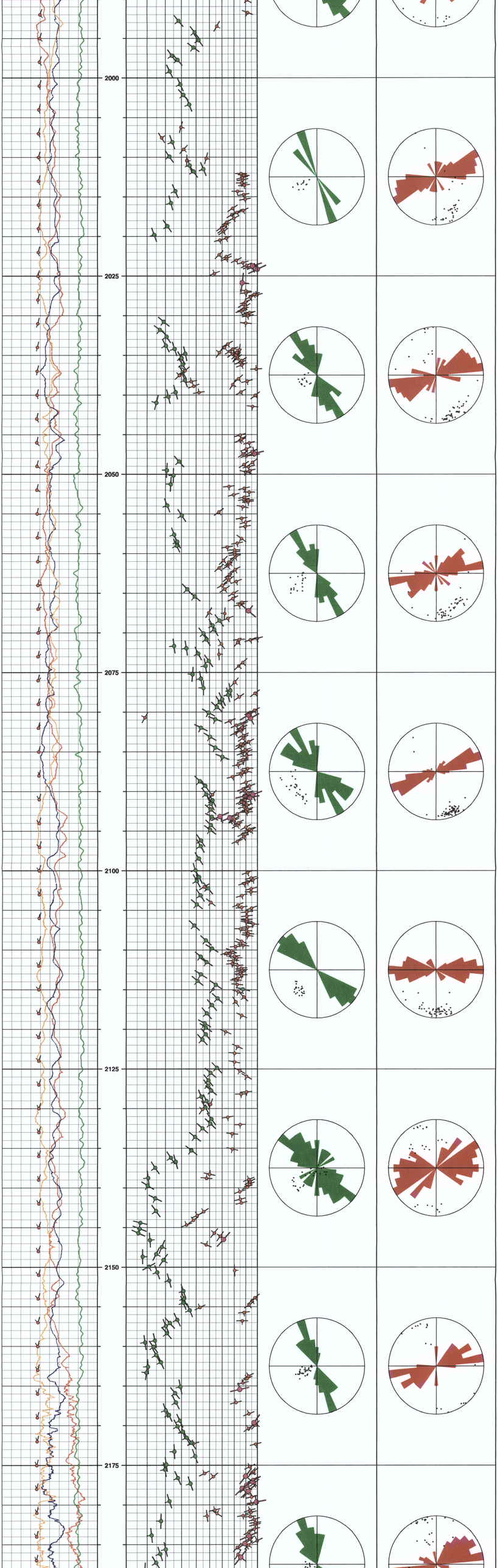

2125
2150
2175
2200
2225
2250
2275
2300

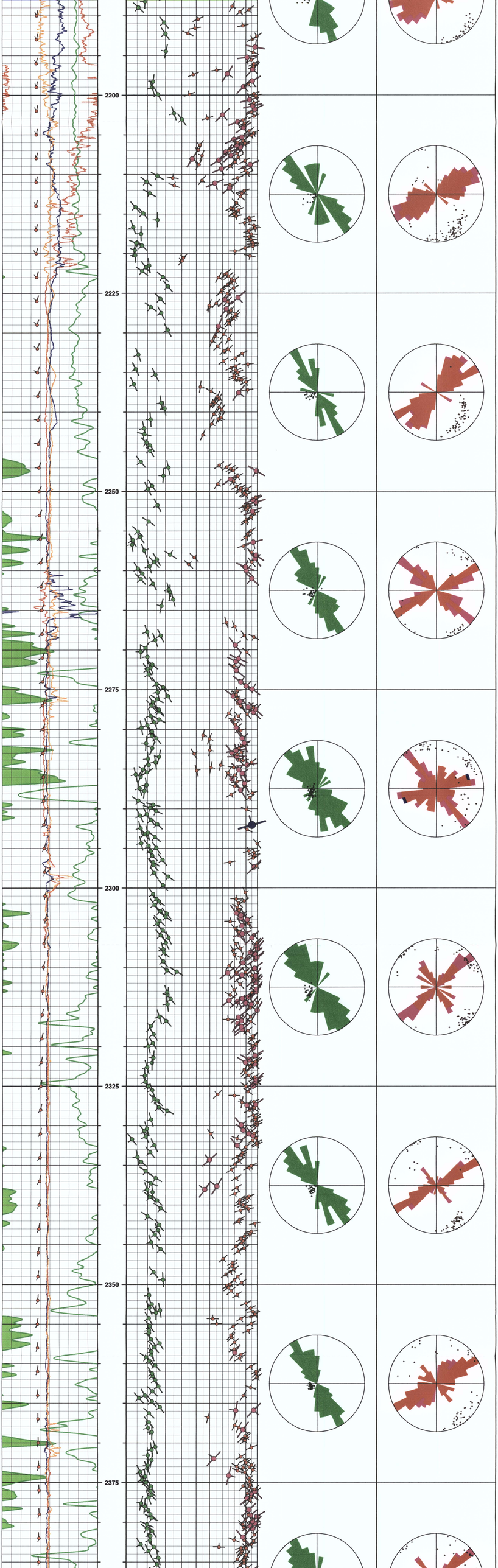

2325
2350
2375
2400
2425
2450
2475
2500

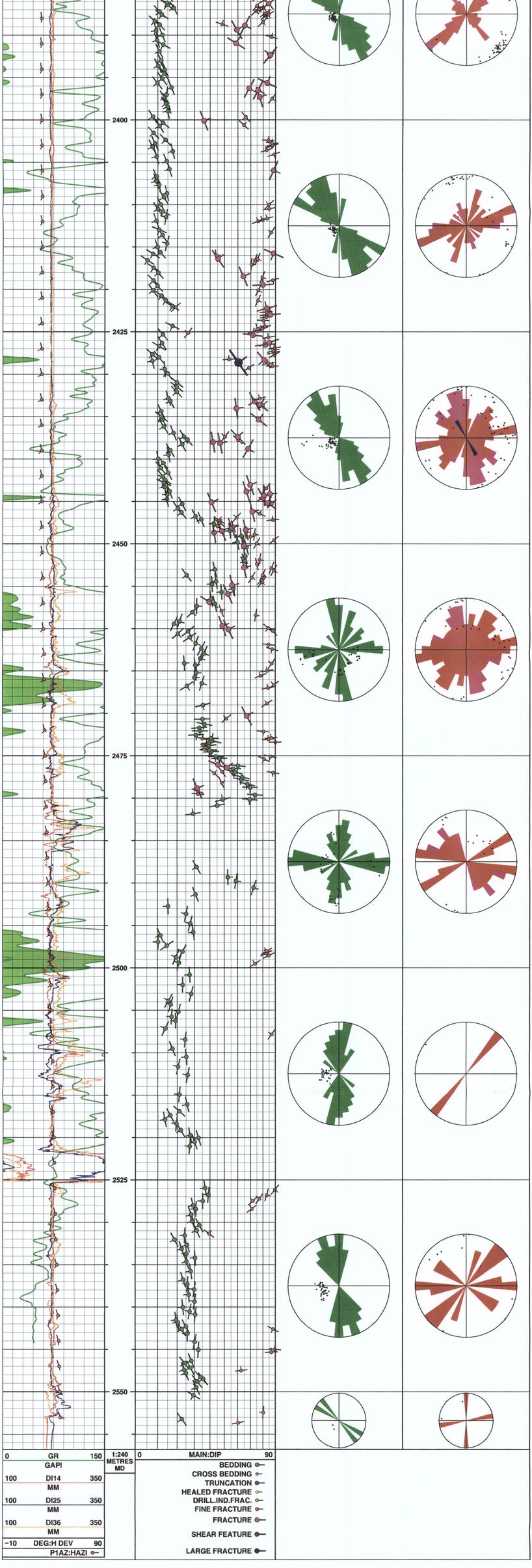


HEF Petrophysical Consulting Inc.
WELL NAME: PARAMOUNT ET AL LIARD k-29A

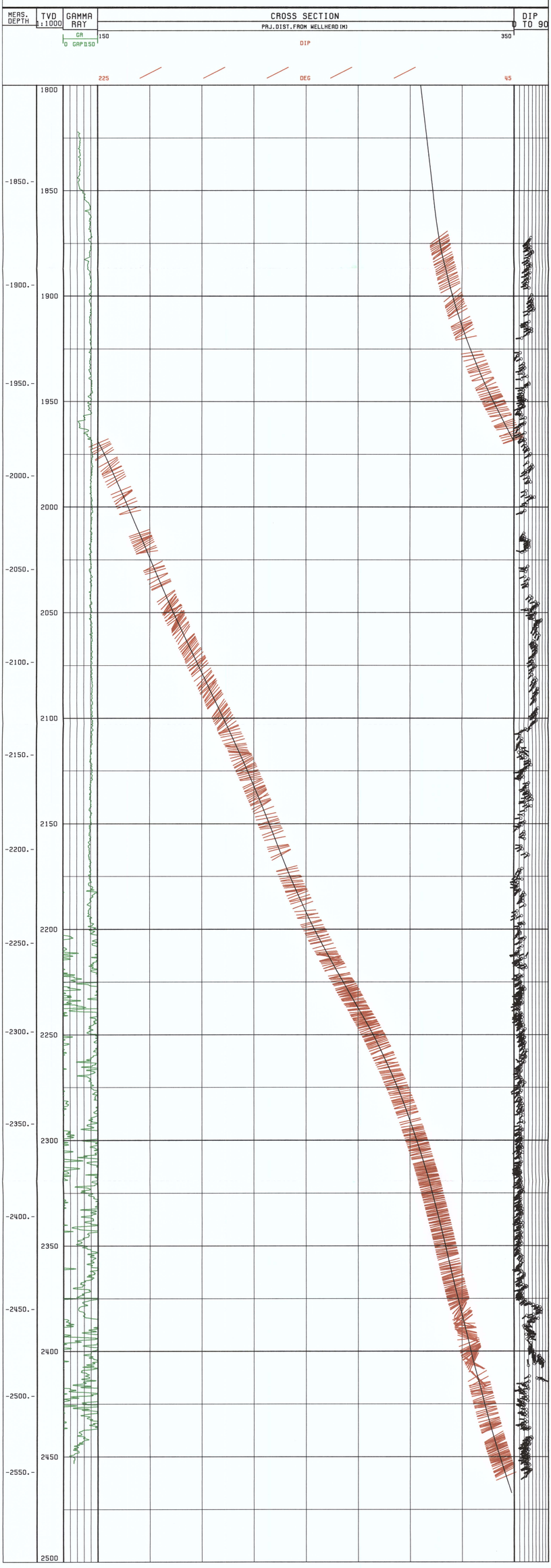



2000
2025
2050
2075
2100
2125
2150
2175


2200
2225
2250
2275
2300
2325
2350
2375

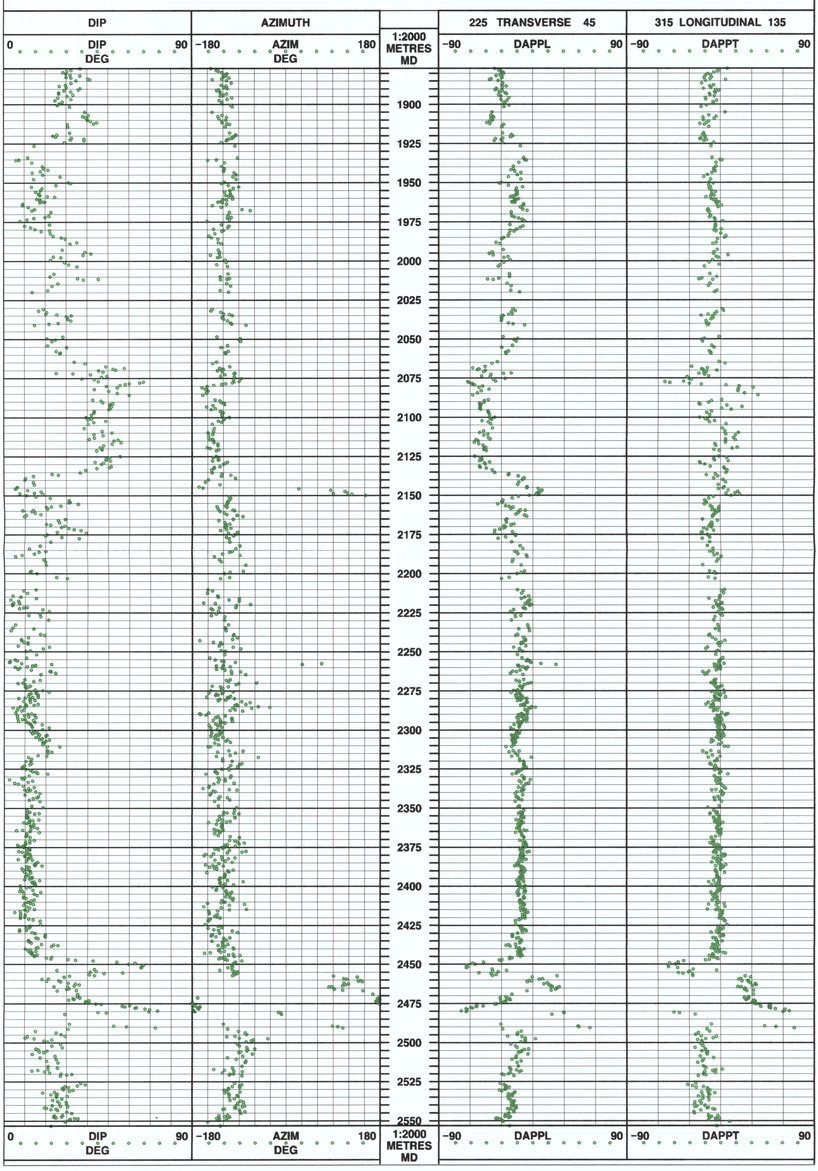

2400
2425
2450
2475
2500
2525
2550
0 GR 150
GAPI
100 DI14 350
MM
100 DI25 350
MM
100 DI36 350
MM
-10 DEG:H DEV 90
P1AZ:HAZI
1:240
METRES
MD
0 MAIN:DIP 90
BEDDING
CROSS BEDDING
TRUNCATION
HEALED FRACTURE
DRILL.IND.FRAC.
FINE FRACTURE
FRACTURE
SHEAR FEATURE
LARGE FRACTURE

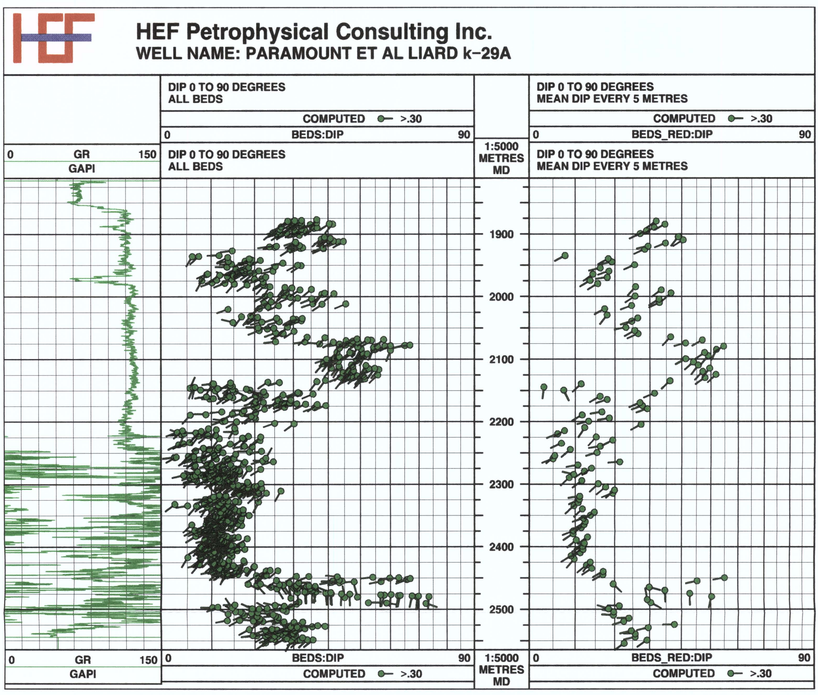
HEF PETROPHYSICAL CONSULTING INC.

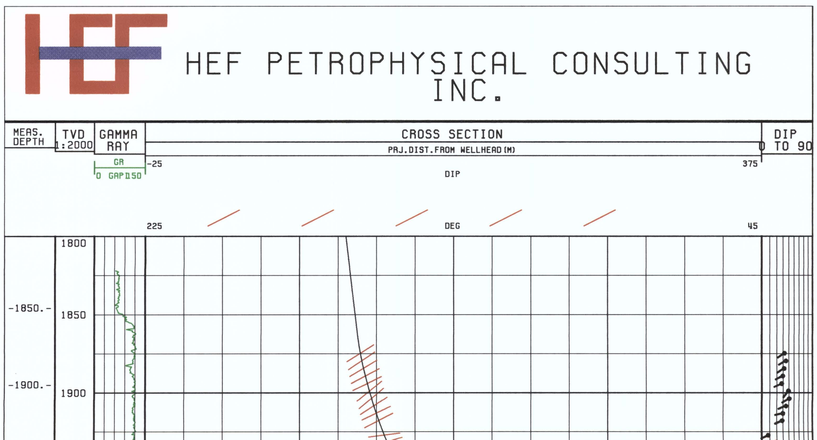


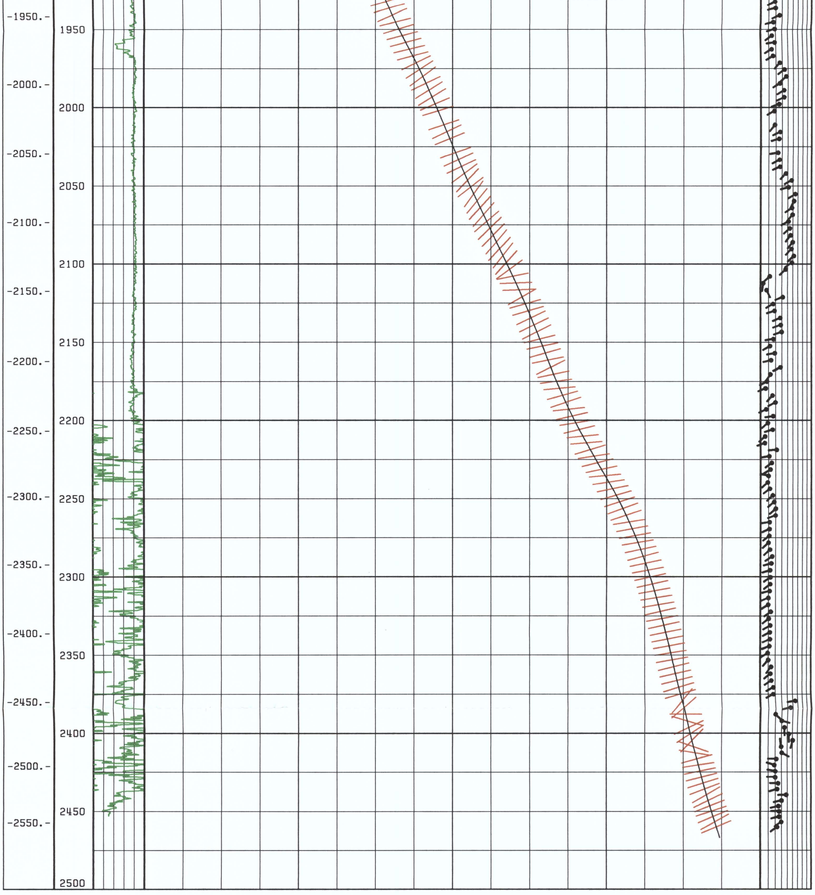
HEF Petrophysical Consulting Inc.
WELL NAME: PARAMOUNT ET AL LIARD k-29A

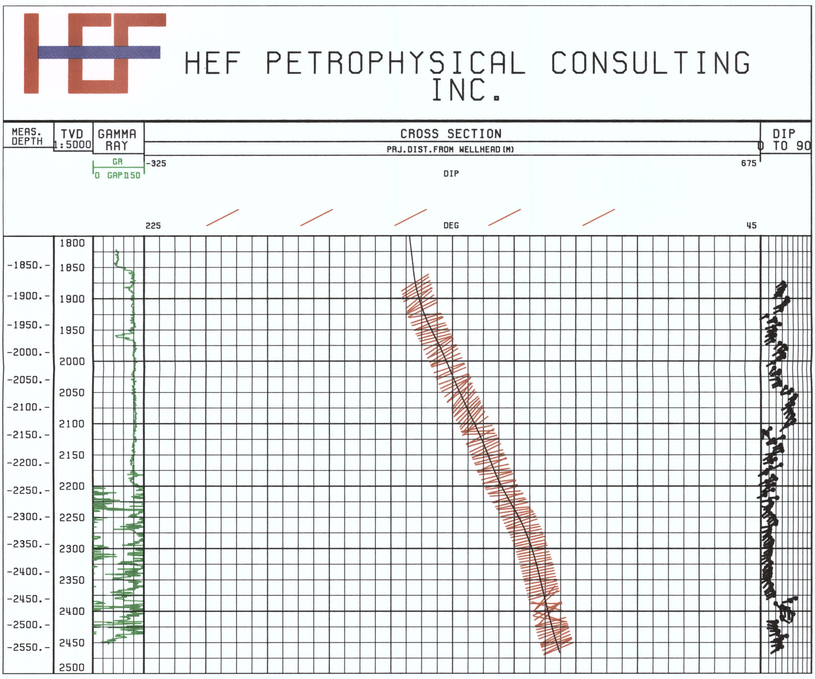
SCAT PLOT

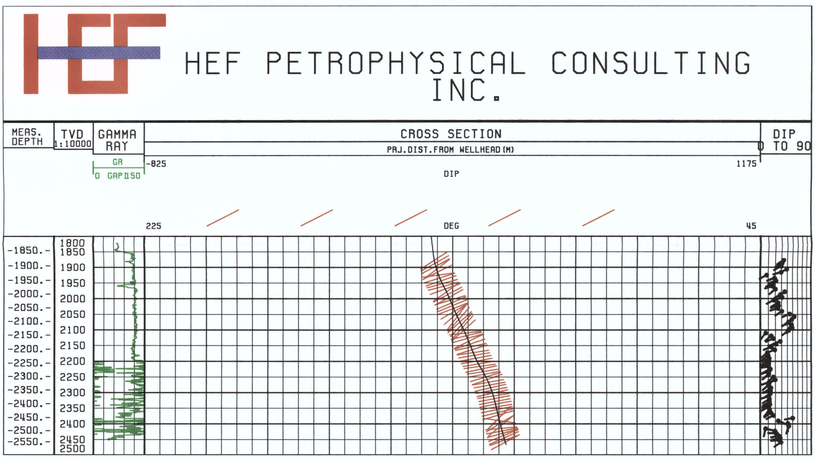

DIP
AZIMUTH
225 TRANSVERSE 45
315 LONGITUDINAL 135
0 DIP DEG 90
-180 AZIM DEG 180
1:2000 METRES MD
-90 DAPPL 90
-90 DAPPT 90
1900
1925
1950
1975
2000
2025
2050
2075
2100
2125
2150
2175
2200
2225
2250
2275
2300
2325
2350
2375
2400
2425
2450
2475
2500
2525
2550


HEF Petrophysical Consulting Inc.
WELL NAME: PARAMOUNT ET AL LIARD k-29A
DIP 0 TO 90 DEGREES
ALL BEDS
COMPUTED >.30
0 BEDS:DIP 90
DIP 0 TO 90 DEGREES
MEAN DIP EVERY 5 METRES
COMPUTED >.30
0 BEDS_RED:DIP 90
0 GR 150
GAPI
1:5000 METRES MD
1900
2000
2100
2200
2300
2400
2500


HEF PETROPHYSICAL CONSULTING INC.
MEAS. DEPTH
TVD 1:2000
GAMMA RAY
GR
0 GAPI 150
CROSS SECTION
PRJ.DIST.FROM WELLHEAD(M)
-25
375
DIP
DIP 0 TO 90
225
DEG
45
1800
1850
1900
-1850.-
-1900.-







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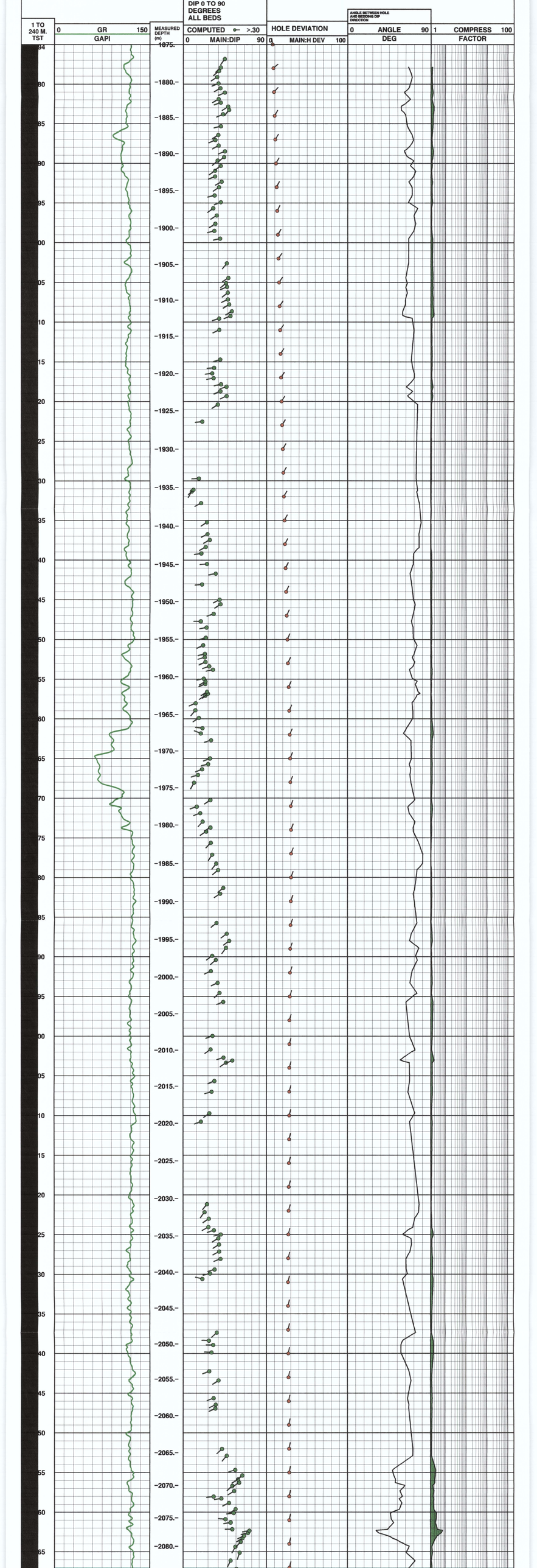
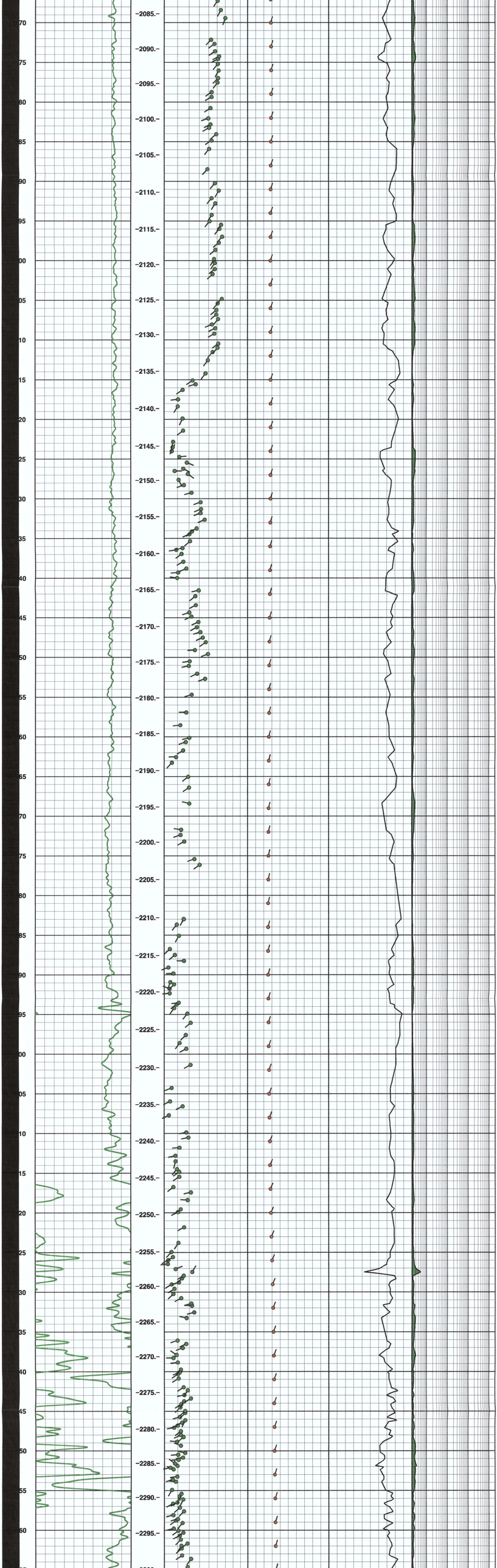
WELL NAME: PARAMOUNT ET AL LIARD k-29A

TRUE STRATIGRAPHIC THICKNESS

THE DATA IN THIS PLOT HAVE BEEN CORRECTED TO TRUE BED THICKNESS
THIS CORRECTION IS ACHIEVED BY DETERMINING THE DIFFERENCE BETWEEN
THE BEDDING AND HOLE DIRECTIONS AND COMPRESSING THE LOGS SO THAT THE
UNIT THICKNESS IS THE SAME AS IF A VERTICAL WELL WAS DRILLED THROUGH
HORIZONTAL BEDS.


1 TO 240 M. TST
0 GR 150
GAPI
MEASURED DEPTH (m)
DIP 0 TO 90 DEGREES ALL BEDS
COMPUTED >.30
0 MAIN:DIP 90
HOLE DEVIATION
0 MAIN:H DEV 100
ANGLE BETWEEN HOLE AND BEDDING DIP DIRECTION
0 ANGLE 90
DEG
1 COMPRESS 100
FACTOR


2085.
2090.
2095.
2100.
2105.
2110.
2115.
2120.
2125.
2130.
2135.
2140.
2145.
2150.
2155.
2160.
2165.
2170.
2175.
2180.
2185.
2190.
2195.
2200.
2205.
2210.
2215.
2220.
2225.
2230.
2235.
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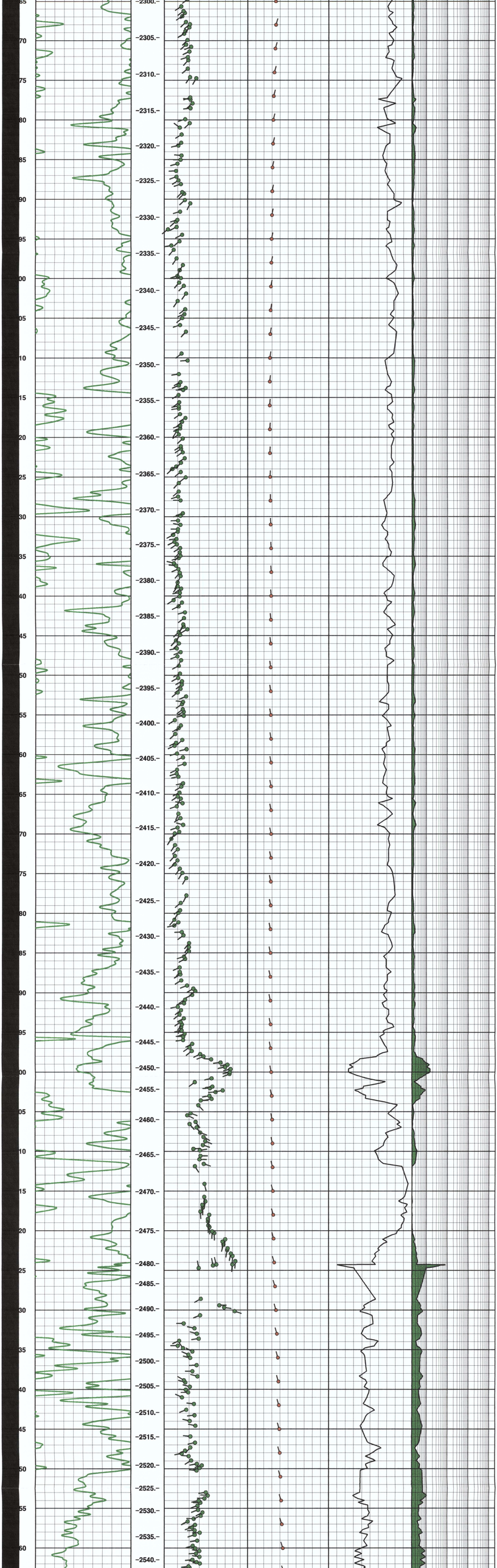
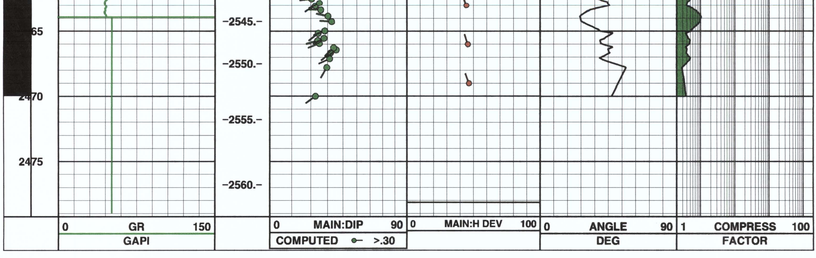
2245.
2250.
2255.
2260.
2265.
2270.
2275.
2280.
2285.
2290.
2295.



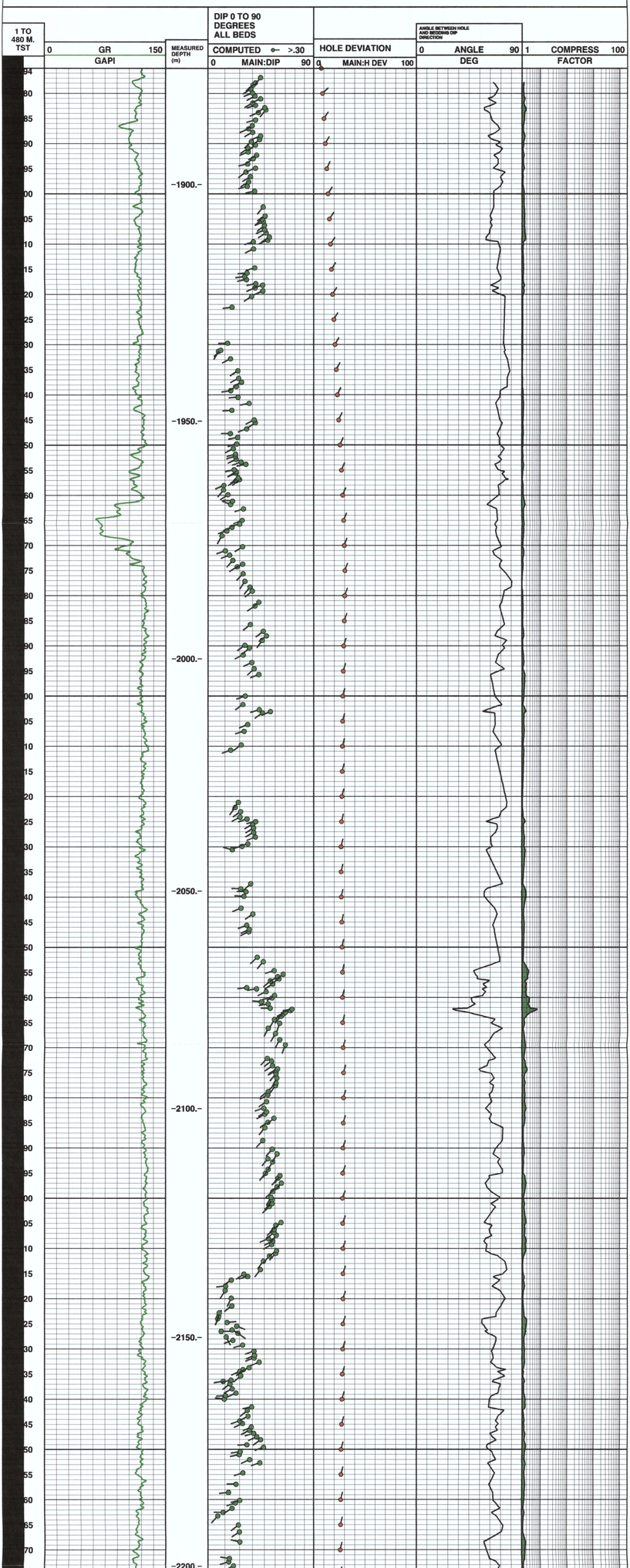


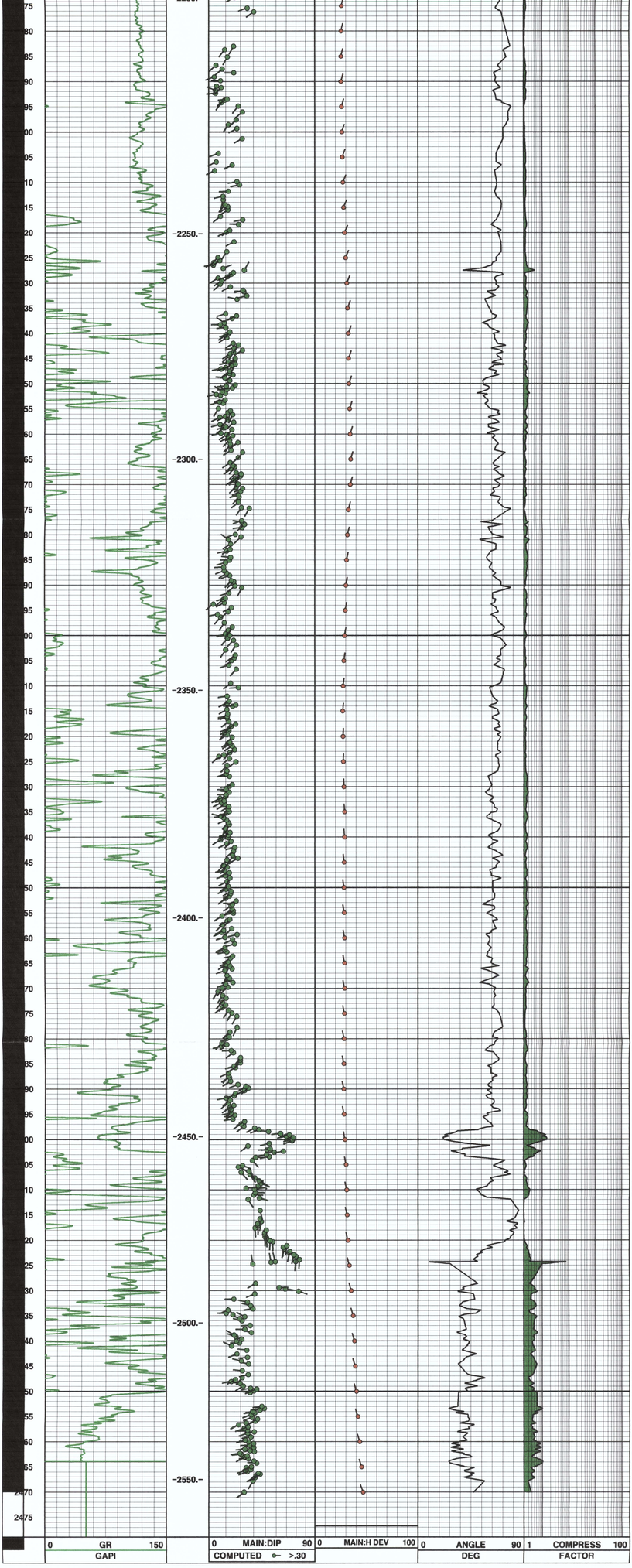
HEF Petrophysical Consulting Inc.

WELL NAME: PARAMOUNT ET AL LIARD k-29A

TRUE STRATIGRAPHIC THICKNESS

THE DATA IN THIS PLOT HAVE BEEN CORRECTED TO TRUE BED THICKNESS
THIS CORRECTION IS ACHIEVED BY DETERMINING THE DIFFERENCE BETWEEN
THE BEDDING AND HOLE DIRECTIONS AND COMPRESSING THE LOGS SO THAT THE
UNIT THICKNESS IS THE SAME AS IF A VERTICAL WELL WAS DRILLED THROUGH
HORIZONTAL BEDS.





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WELL NAME: PARAMOUNT ET AL LIARD k-29A

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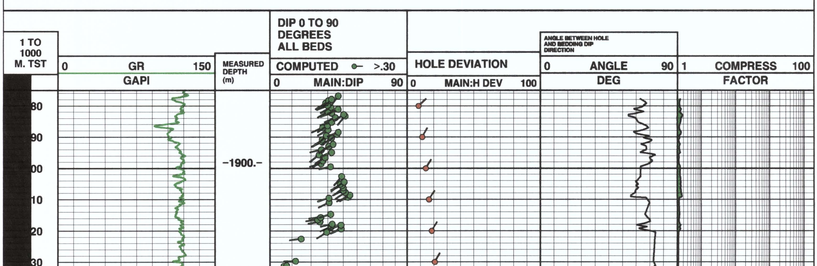
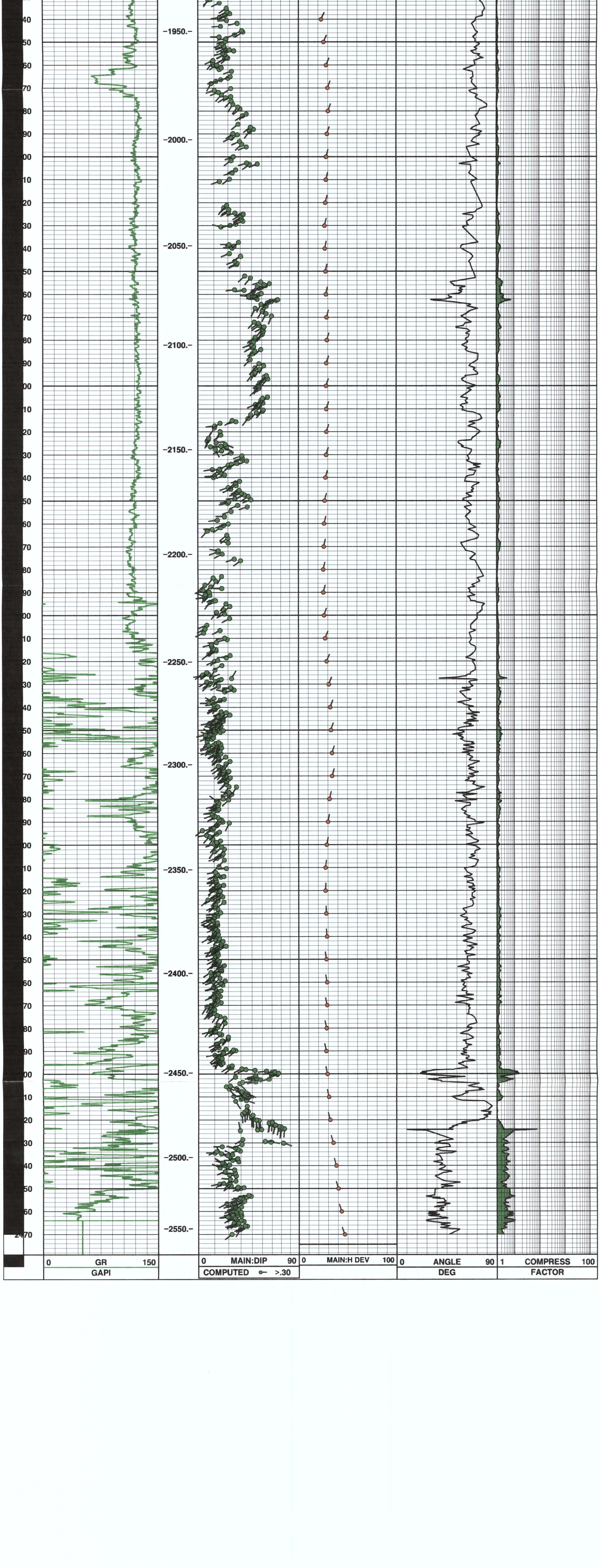
HORIZONTAL BEDS.




-1950.-
-2000.-
-2050.-
-2100.-
-2150.-
-2200.-
-2250.-
-2300.-
-2350.-
-2400.-
-2450.-
-2500.-
-2550.-
0 GR 150
GAPI
0 MAIN:DIP 90
COMPUTED >.30
0 MAIN:H DEV 100
0 ANGLE 90
DEG
1 COMPRESS 100
FACTOR