PRECISION

Compact

DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:200 TVD

COMPANY	ESSO AUSTRALIA PTY.LTD
WELL	WKF W6A
FIELD	KINGFISH GDA94
PROVINCE/COUNTY	BASS STRAIT, VICTORIA
COUNTRY/STATE	AUSTRALIA
LOCATION	S 38 35 34.706, E 148 6 19.764
	N 5727810.570 m, E 596273.687 m

FIELD PRINT

LSD	SEC	TWP	RGE	Other Services
				COMPENSATED SONIC

API Number
Permit Number

Permanent Datum MSL , Elevation 0.0 metres
Log Measured From DF @ 33.43m above Permanent Datum
Drilling Measured From DF

Elevations:

KB		metres
DF	33.43	metres
GL	-76.13	metres

Date	19-SEP-2006		
Run Number	ONE		
Depth Driller	2369.29	metres	
Depth Logger	2369.29	metres	
First Reading	2361.53	metres	
Last Reading	634.61	metres	
Casing Driller	634.61	metres	
Casing Logger	634.61	metres	
Bit Size	8.50	inches	
Hole Fluid Type	KCL/PHPA		
Density / Viscosity	1.17 g/c3	27.00 CP	
PH / Fluid Loss	9.50	2.40 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	0.125 @ 25.0	ohm-m	
Rmf @ Measured Temp	0.096 @ 25.0	ohm-m	
Rmc @ Measured Temp	0.102 @ 25.0	ohm-m	
Source Rmf / Rmc	MEAS	MEAS	
Rm @ BHT	0.053 @ 90.3	ohm-m	
Time Since Circulation	39.75 HOUR		
Max Recorded Temp	94.60	deg C	
Equipment Name	CML		
Equipment / Base	1	SALE	
Recorded By	B J R MOSS, J BLESSING		
Witnessed By	D VAN DER AA		
LAST CIRC.	17:15 17/9		Last Line

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	695.00	3477.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	695.00	40.50

REMARKS

RIG: NABORS 453

5" SHUTTLE/MEMORY COMPACT OPERATION.
CREW: B MOSS , J.BLESSING, M KOLCZE, B GOODWIN.

FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG.

MAX. TEMPERATURE: 94.6 DEG C AT 3425.1 m MD
MAX. INCLINATION: 54.32 DEG AT 3094.17 m MD
MAX. DOGLEG SEVERITY: 4.56 DEG/30m AT 738.24 m MD
DEPLOYMENT ANGLE: 53.5 DEG

HVOL: FT^3
AVOL: FT^3

LOGGING SPEED 6M/MIN FROM TD TO 3112 M MD
LOGGING SPEED 12 M/MIN FROM 3112 TO 1244 M MD
LOGGING SPEED 6 M/MIN FROM 1244 TO 1015 M MD
LOGGING SPEED 12 M/MIN FROM 1015 TO 671 M MD

MAIN LOG 1:200

Depth Based Data - Maximum Sampling Increment 10.0cm
Plotted on 20-SEP-2006 02:14
Filename: C:\logs\WKF_W6A\FIELD_DATA\WKF_W6A_MAIN_LOG3.dta
Recorded on 19-SEP-2006 22:44
System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

Timing Marks
every 60.0 sec

Gamma Ray
API
0 100 200
200 300 400

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

TVD / DSC in Metres

Borehole Temp in deg C

HVI every 10 cu ft

Annular Integral every 10 cu ft

Replay Scale 1:200

Shallow Laterolog
ohm metres
0.20 2000
1 10 100 1000

Deep Laterolog
ohm metres
0.20 2000
1 10 100 1000

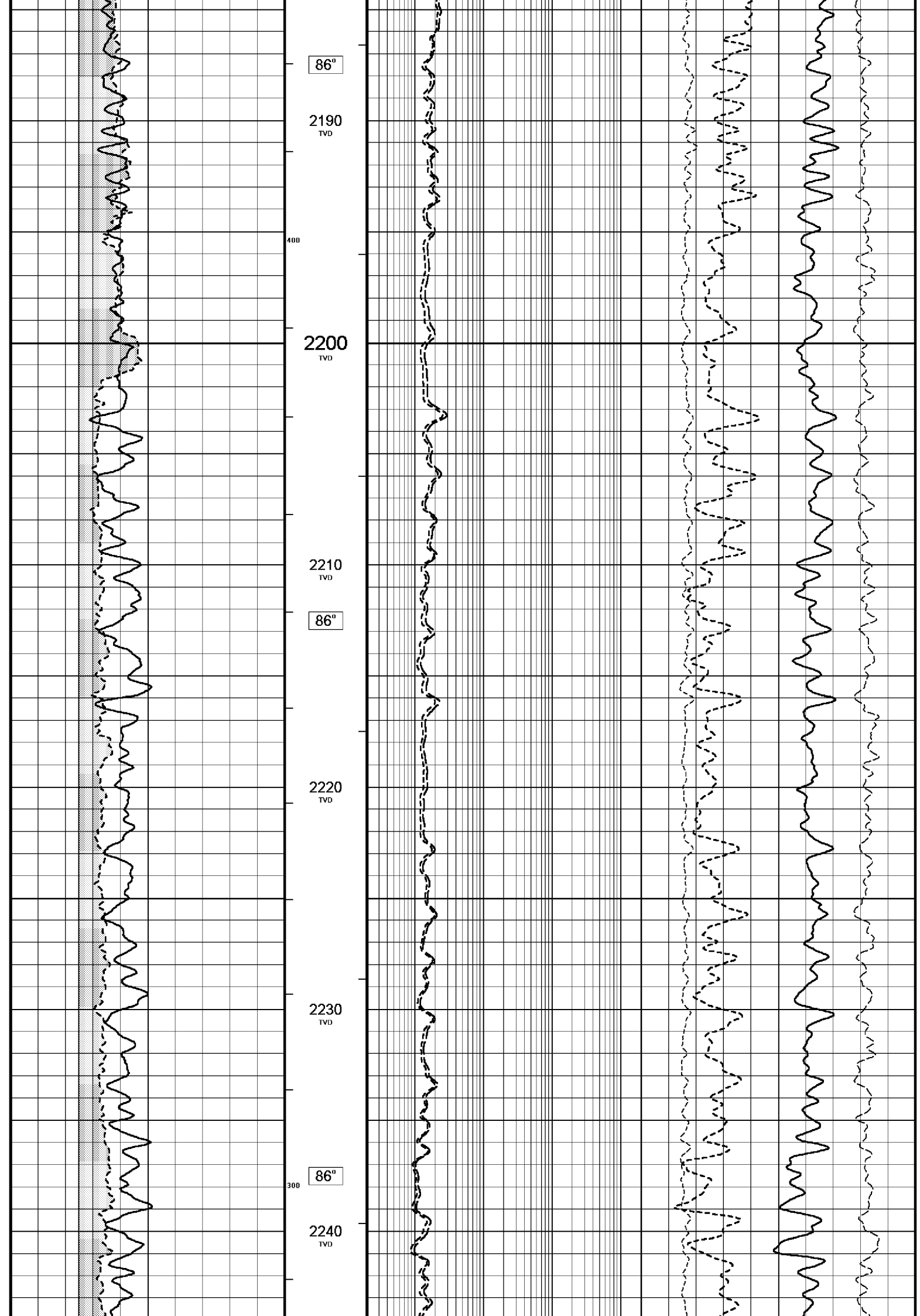
Limestone Neutron Por.
VoV
0.45 0.15 -0.15

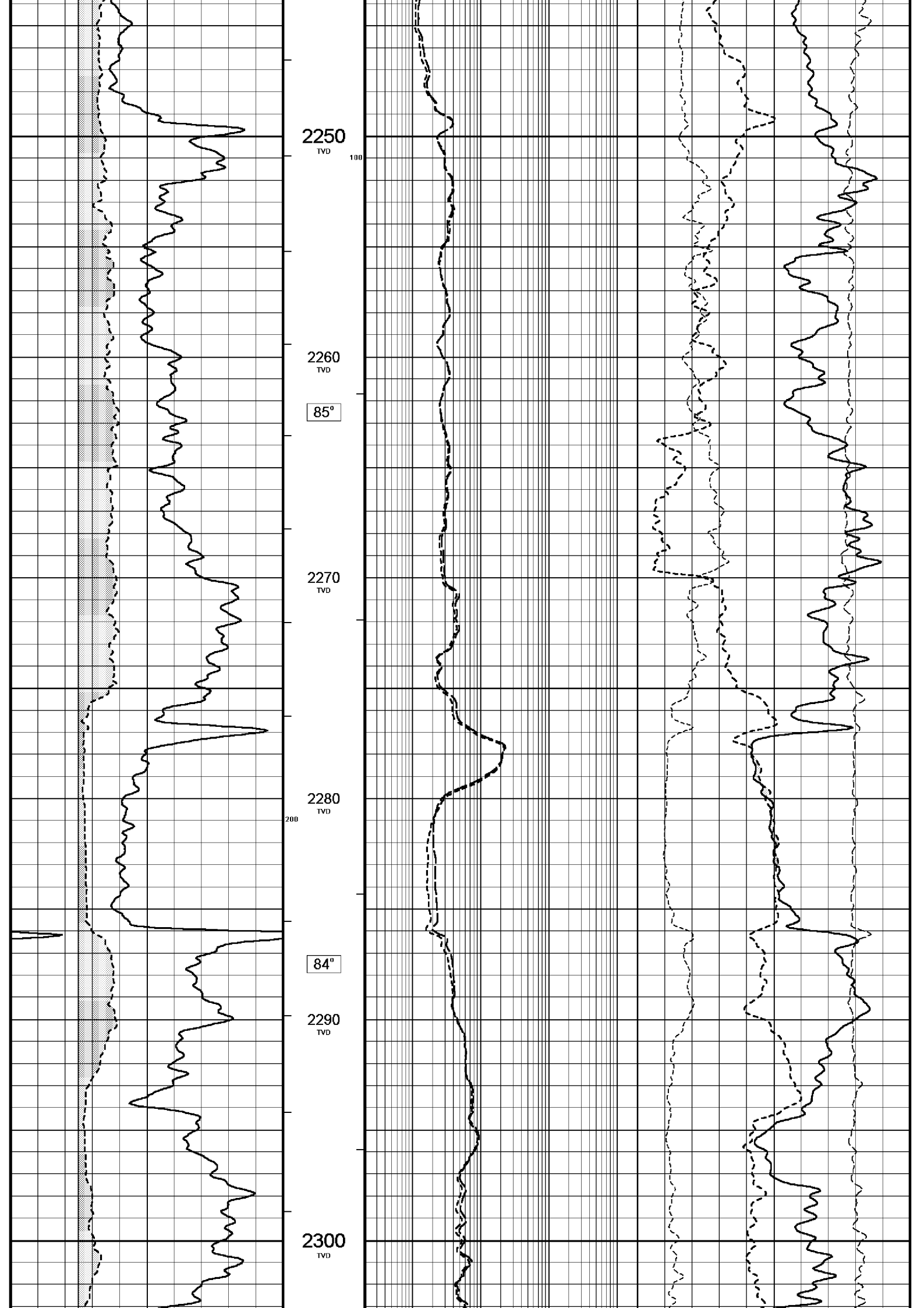
Density Correction
grams/cc
-0.75 -0.25 0.25

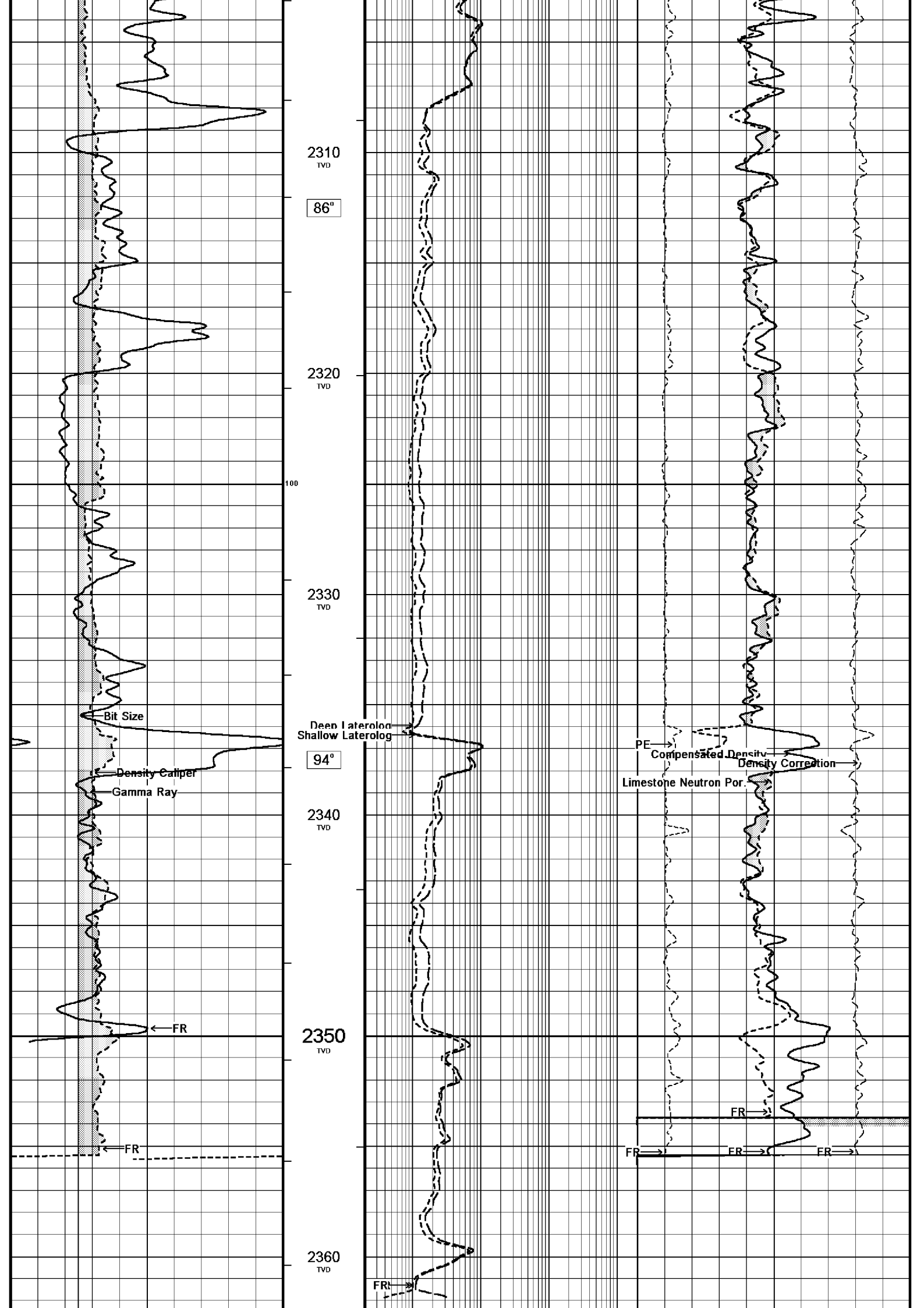
Compensated Density
grams/cc
1.85 2.35 2.85

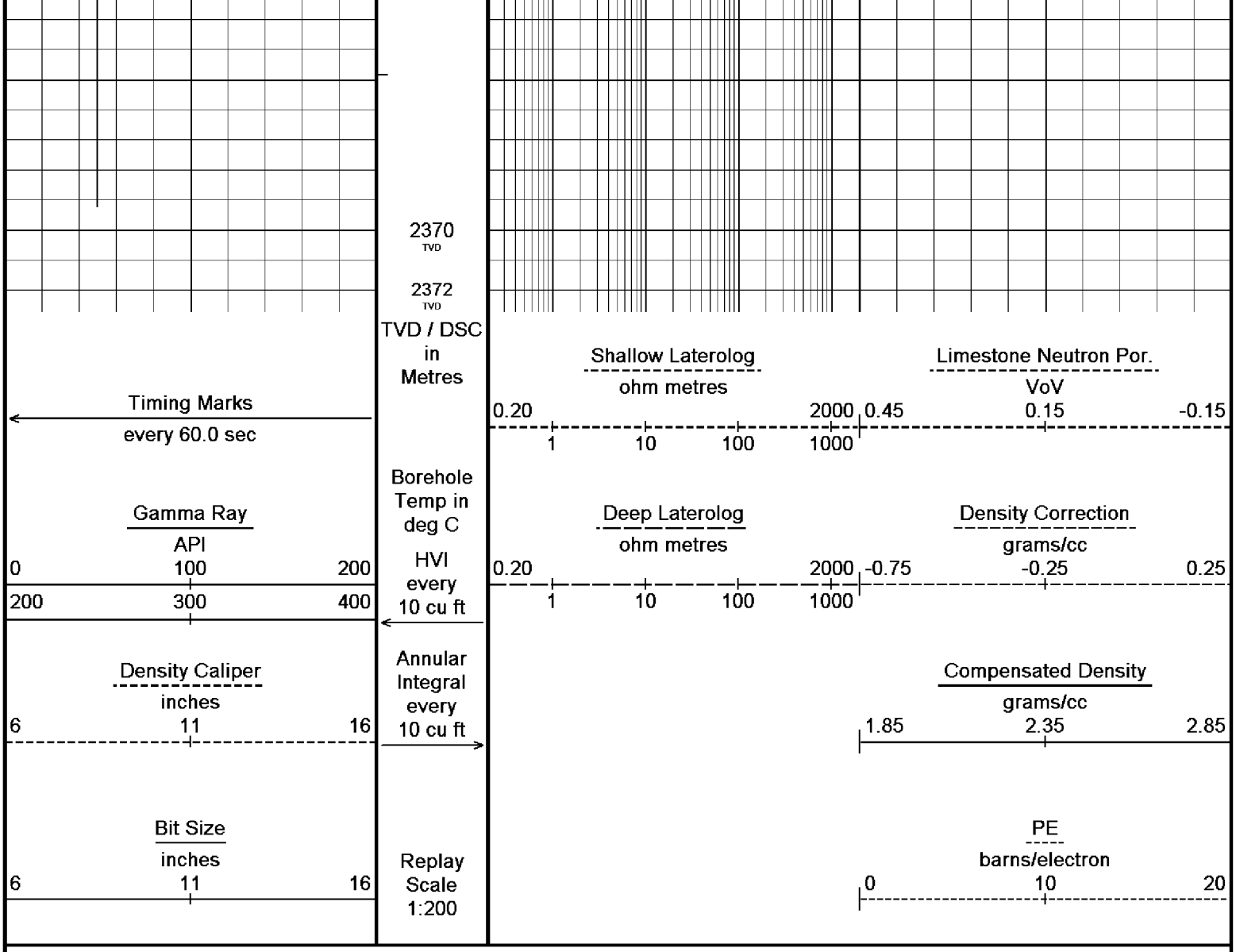
PE
barns/electron
0 10 20

2154 TVD
500
2160 TVD
87°
2170 TVD
2180 TVD


86°
2190
TVD
400
2200
TVD
2210
TVD
86°
2220
TVD
2230
TVD
86°
300
2240
TVD


2250
TVD
100
2260
TVD
85°
2270
TVD
2280
TVD
200
84°
2290
TVD
2300
TVD


2310
TVD
86"
2320
TVD
100
2330
TVD
Bit Size
Deep Laterolog
Shallow Laterolog
94°
PE
Compensated Density
Density Correction
Density Caliper
Gamma Ray
Limestone Neutron Por.
2340
TVD
FR
2350
TVD
FR
FR
FR
FR
2360
TVD
FR



Depth Based Data - Maximum Sampling Increment 10.0cm — Plotted on 20-SEP-2006 02:14
Filename: C:\logs\WKF_W6A\FIELD_DATA\WKF_W6A_MAIN_LOG3.dta — Recorded on 19-SEP-2006 22:44
System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

MAIN LOG 1:200

BEFORE SURVEY CALIBRATION

C:\logs\WKF_W6A\FIELD_DATA\WKF_W6A_MAIN_LOG3.dta

General Constants All 000

General Parameters		
Mud Resistivity	0.122	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	
Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Bit Size	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	None	
Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG 142

Field Calibration on 17-SEP-2006,09:45

	Measured	Calibrated(Deg C)
Lower	0.00	0.00

Upper	100.00	100.00

High Resolution Temperature Constants MCG 142

Pre-filter Length	11

Gamma Calibration MCG 142

Field Calibration on 17-SEP-2006 02:40

	Measured	Calibrated (API)
Background	14	9
Calibrator (Gross)	1359	918
Calibrator (Net)	1345	909

Gamma Constants MCG 142

Gamma Calibrator Number	060	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Neutron Calibration MDN 085

Base Calibration on 31-AUG-2006 15:06
Field Check on 17-SEP-2006 02:51

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
	3173	98	3714	110
Ratio	32.537		33.764	

Field Calibrator at Base

	Calibrated (cps)	
	1939	2837
Ratio	0.683	

Field Check

	Calibrated (cps)	
	1627	2354
Ratio	0.691	

Neutron Constants MDN 085

Neutron Source Id	NSN-E-739	
Neutron Jig Number	NEC-E-052	
Epithermal Neutron	No	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	MCG External Temperature	
Temperature	N/A	degrees C
Mud Salinity	0.00	kppm
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Caliper Calibration MPD 083

Base Calibration on 3-SEP-2006 16:00
Field Calibration on 17-SEP-2006 02:53

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	14704	4.01
2	22880	5.99
3	31311	7.98
4	39757	9.94
5	49111	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
7.93	7.98

Photo Density Calibration MPD 083

Base Calibration on 3-SEP-2006 15:48
Field Check on 17-SEP-2006 02:46

Density Calibration

Base Calibration

	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	53741	17856	53111	19310

Reference 2	25062	2460	24951	2530

Field Check at Base

	930.7	1084.8

Field Check

	931.1	1079.7

PE Calibration

Base Calibration

		Measured		Calibrated
	WS	WH	Ratio	Ratio
Background	176	796		
Reference 1	17290	53546	0.324	0.320
Reference 2	6796	24917	0.274	0.273

Field Check at Base

176.3	796.3	

Field Check

174.3	795.8	

Density Constants MPD 083

Density Source Id	NSDL 242	
Nylon Calibrator Number	DNC-D-536	
Aluminium/Fe Calibrator Number	DAC-D-536	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.00	gm/cc
Mud Density Z/A Correction	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc

Matrix Density (gm/cc)	Depth (m)
2.71	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

Laterolog Calibration MLE 031

Base Calibration on 31-AUG-2006 10:33
Field Check on 17-SEP-2006,09:46

Base Calibration

		Measured	Calibrated (ohm-m)	
Channel	Resistor 1	Resistor 2	Resistor 1	Resistor 2
Shallow	9.8	977.5	13.2	1321.0
Deep	9.8	977.6	7.5	755.0
Groningen	9.8	977.7	8.5	854.0

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Shallow	48.6	48.6
Deep	27.8	27.7
Groningen	251.3	251.3

Laterolog Constants MLE 031

Squasher Start	40000	ohm-m
Shallow Laterolog K Factor	1.3210	
Deep Laterolog K Factor	0.7550	
Groningen Laterolog K Factor	0.8540	
Interference Rejection	50 Hz	
SP Connection	SP Bridle Electrode	
Groningen Connection	None	

DOWNHOLE EQUIPMENT

C:\logs\WKF_W6A\FIELD_DATA\WKF_W6A_MAIN_LOG3.dta

Compact Swivel Head Adapter F

Compact Swivel Head Adaptor F
SHA 71 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint
SKJ 100 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.
MBS 99 Length: 4.41 m Weight: 44.1 lb

Compact Inline Standoff B
MIS 31 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.
MBE 18 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B
MIS 141 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.
MBE 19 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B
MIS 129 Length: 0.65 m Weight: 15.4 lb

MBE 21 3rd bridle
MLK 111 Length: 3.76 m Weight: 94.8 lb

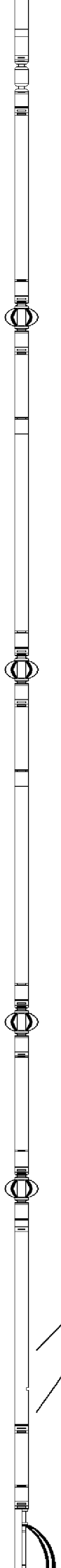
Compact Inline Standoff B
MIS 135 Length: 0.65 m Weight: 15.4 lb

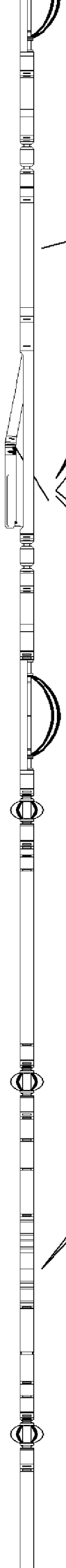
Compact Gamma
MCG 142 Length: 2.65 m Weight: 63.9 lb

32.22 m GGCE - Borehole Corrected Gamma
31.33 m CGXT - MCG External Temperature

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 30.9 lb

Compact Inline Bowspring A
MIS 95 Length: 1.74 m Weight: 33.1 lb





Compact Swivel Head Adaptor F
SHA 64 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint
SKJ 101 Length: 0.66 m Weight: 24.3 lb

Compact Neutron
MDN 85 Length: 1.53 m Weight: 50.7 lb

26.17 m NPRL - Limestone Neutron Por.

Compact Density/Caliper
MPD 83 Length: 2.92 m Weight: 90.4 lb

23.48 m AVOL - Annular Volume
23.48 m HVOL - Hole Volume
23.48 m CLDC - Density Caliper
23.27 m DEN - Compensated Density

Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.3 lb

23.27 m DCOR - Density Correction
23.25 m PDPE - PE

Compact Swivel Head Adaptor F
SHA 73 Length: 0.83 m Weight: 26.5 lb

Compact Inline Bowspring A
MIS 24 Length: 1.74 m Weight: 33.1 lb

Compact Inline Standoff B
MIS 132 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 30 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 139 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.
MLE 31 Length: 3.76 m Weight: 92.6 lb

13.35 m DDLL - Deep Laterolog
13.35 m DSLL - Shallow Laterolog

Compact Inline Standoff B
MIS 138 Length: 0.65 m Weight: 15.4 lb

Compact Lower Guard Sub.
MLG 7 Length: 2.44 m Weight: 55.1 lb

Compact Inline Standoff B
MIS 73 Length: 0.65 m Weight: 15.4 lb

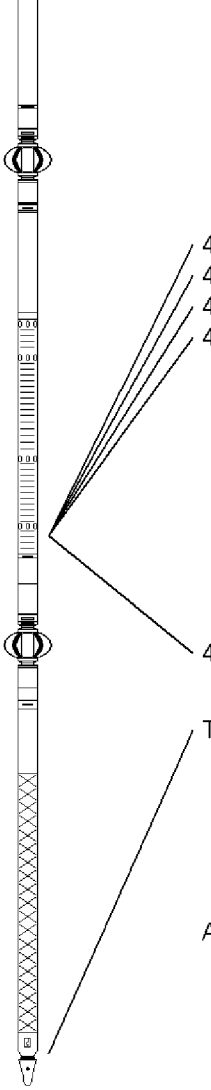
Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B
MIS 127 Length: 0.65 m Weight: 15.4 lb

Compact Induction
MAI 39 Length: 3.29 m Weight: 48.5 lb

Pressure Bung + Hole Finder
HFS 4 Length: 0.40 m Weight: 6.6 lb

Total Length: 54.01 m Weight: 1265.5 lb



4.60 m TR22 - 5' Transit Time
4.60 m TR11 - 4' Transit Time
4.60 m TR21 - 3' Transit Time
4.60 m TR12 - 6' Transit Time

4.60 m DT35 - 3-5' Compensated Sonic

Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

COMPANY	ESSO AUSTRALIA PTY.LTD
WELL	WKF W6A
FIELD	KINGFISH GDA94
PROVINCE/COUNTY	BASS STRAIT, VICTORIA
COUNTRY/STATE	AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	2361.53	metres
Elevation Drill Floor	33.43	metres	Depth Driller	2369.29	metres
Elevation Ground Level	-76.13	metres	Depth Logger	2369.29	metres

PRECISION
Compact

DUAL LATEROLOG - GR
DENSITY - NEUTRON
1:200 TVD