Schlumberger

Company: **Santos Limited**

Well: **Netherby 1DW1**
Field: **Otway**
Rig: **Ocean Patriot** State: **Victoria**

Rig: Ocean Patriot
Field: Otway
Location: Bass Strait
Well: Netherby 1DW1
Company: Santos Limited

EcoScope * Service
1:200 Measured Depth
Recorded Mode Log

Location

Total depth:	2517.0 m
Spud date:	02−Aug−2008
Runs:	5 To 6

Elevation

K.B.	Top Drive
G.L.	−66.10 m
D.F.	20.80 m

Permanent datum:	Mean Sea Level	Elev.:	0 m
Log measured from:	Rig Floor	66.10 m	above Perm. datum
Depth reference:	Driller's Depth		

Job serial no.	X = E 142 38' 25.745"	Longitude	Latitude
08ASQ0003	Y = S 38 40' 48.578"	E 142º 38' 25.745	S 38º 40' 48.578

Depth logged:	1936.0 m To 2504.0 m	Mag decl:	10.777 deg.	Other services:	
Date logged:	8−Aug−08 To 11−Aug−08	Mag dip:	−69.86 deg.	See Remarks	

Bore hole record

Hole size	from	to
36.00	88.0 m	130.9 m
17.50	130.9 m	647.5 m
12.25	647.5 m	1944.5 m
8.50	1944.5 m	2517.0 m

Casing record

Size	Density	from	to
30.000	310.0 lbm/m	88.0 m	130.9 m
13.375	223.0 lbm/m	88.0 m	642.0 m
9.625	154.0 lbm/m	642.0 m	1936.0 m

Mud record

Type	from	to
WBM	1936.0 m	2517.0 m

Borehole deviation record

Min	Max	from	to
0.0 deg.	12.15 deg.	0.0 m	919.0 m
12.93 deg.	59.64 deg.	948.9 m	1773.5 m
64.78 deg.	98.3 deg.	1804.1 m	2517.0 m

Surface equipment

Unit	OLU−KC−0702
Depth system	Geolograph+GTE+CLT

Software record

IDEAL Wis	ID13_0C_08
HSPM	13_0c_03
EcoScope	Karl2−V2.2
TeleScope	9.2C02

Bit Run Summary

Run number		5	6
Bit size	in	12.25	8.5
Bit start depth	m	1421	1944
Bit end depth	m	1944	2517
Top interval logged	m	1420	1936
Bottom interval logged	m	1932	2505
Begin log: time		20:52	13:43
Begin log: date		2−Aug−08	7−Aug−08
End log: time		13:43	01:03
End log: date		7−Aug−08	13−Aug−08
Mud data			
Depth	m	1421	1944
Type		WBM	WBM
Mud weight	ppg	11.1	9.5
Solids	%	11.1	1.62
Chlorides	mg/L	45000	89000
Rm	ohmm @ °C	0.13@22.1	0.08@15.9
Rmf	ohmm @ °C	0.19@22.9	0.13@16.5
Rmc	ohmm @ °C	0.10@22.4	0.08@15.7

Potassium	%	4.35	N/A								
Environmental data											
GR											
Mud weight	ppg	11.1	9.5								
Bit size	in	12.25	8.5								
Resistivity											
Neutron porosity											
Hole Size	in	12.25	8.5								
Mud weight	ppg	11.1	9.5								
Temperature	°C	80.0	65.0								
Mud salinity	ppk	N/A	130.7								
Formation salinity	N/A	N/A	N/A								
Recording rate 1	SEC	RES/GR 6	RES/GR 2								
Recording rate 2	SEC	N/A	DEN/POR 4								
Filtering GR		3 points	3 points								
Filtering density		N/A	3 points								
Filtering Neutron		N/A	3 points								
Company representative		C.Roots	N.Peri								
Anadrill personnel		J.Oldrige	U.Hassan	A.Kohli	Z.Rudd						

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED−DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED−DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED−DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED−DATA.

OTHER SERVICES FOR RUN5	OTHER SERVICES FOR RUN6	OTHER SERVICES FOR RUN
Directional Survey. APWD. Ultrasonic Caliper.	Directional Survey. APWD Ultrasonic Caliper.	
REMARKS: RUN NUMBER 5	**REMARKS: RUN NUMBER 6**	**REMARKS: RUN NUMBER**
Depth is referenced to Driller's Pipe Tally. ARC Gamma Ray is corrected for mud weight, bit size, Potassium and tool collar size. ARC Resistivities are borehole compensated and Environmentally corrected for bit size, mud resistivity.	Depth is referenced to Driller's Pipe Tally. EcoScope Gamma Ray is corrected for mud weight, bit size and potassium content. EcoScope Resistivities are borehole compensated and Environmentally corrected. EcoScope Thermal Neutron Porosity (TNPH) is corrected for effects of borehole size, temperature, mud salinity and mud hydrogen index (a factor of mud weight, mud pressure, and mud temperature). Neutron Porosity is calculated using a limestone matrix density of 2.71 g/cm3. Geolograph cable broke at 2165m Relogged from 2165−2180m due to broken Geolograph Cable.	

Run Objectives:
Drill to 1944m TD.

Run Objectives:
Drill to 2517m.

EQUIPMENT DESCRIPTION

RUN5

DOWNHOLE EQUIPMENT

PowerPulse SN#FB46 23.25

OD 8.41

D&I 18.87

GR 18.22

ARC8−A SN#2724 14.76

OD 8.25

Gamma Ray 11.41

Resistivity 11.36

Pressure/APWD 10.65

CRS7−A SN#002 8.89

OD 7.60

BladeOD 12.13

RUN6

DOWNHOLE EQUIPMENT

PowerPulse SN#FA27 24.55

OD 6.89

D&I 20.68

GR 20.03

SZR 17.02

OD 8.13 BladeOD 8.13

DVDM SN#987 15.94

OD 6.89

BladeOD 8.25

PNG Monit 13.52

Neutron 13.08

Resistivity 12.77

Ultrasoni 11.35

Density 10.98

PNG SN # 2220−4130

Continuous D&I 10.25

Cesium Source SN# A2558

Pressure/APWD 9.89

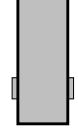
Gamma Ray 9.73

CRS7−A SN#266 7.90

OD 7.60

BladeOD 8.38

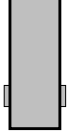
RUN



BIT−PDC SN#215850
OD 12.25

0.00 0.29

Maximum string diameter 12.25 in.
All lengths in Meters



BIT−PDC SN # JX0574
OD 8.50

0.00 0.24

Maximum string diameter 8.50 in.
All lengths in Meters

Variable Name	Variable Description	Run Name & Value		
	Run Number		5	6
	General Information			
BHT_RM	Bottom Hole Temperature (RM)	DEGC	80.000	65.000
BSAL_RM	Mud Salinity (RM)	PPK	NA	130.746
BS_RM	Bit Size (RM)	IN	12.250	8.500
COEF_M	User Defined FEXP in Clean Sand	----	1.650	1.650
C_WS	Overpressure correction to Sw and M	----	1.000	1.000
FEXP	Formation Factor Exponent(RM)	----	2.000	2.000
FNUM	Formation Factor Enumerator(RM)	----	1.000	1.000
FPHI_RM	Formation Factor Porosity Source (RM)	----	XPLOT	XPLOT
MST_RM	Mud Sample temperature (RM)	DEGC	22.100	18.700
MW_RM	Mud Weight (RM)	LB/G	11.100	9.500
OBMF_RM	Oil Based Mud (RM)	----	NO	NO
RHOF_RM	Mud Filtrate Density (RM)	G/C3	1.000	1.000
RHOM_RM	Matrix density (RM)	G/C3	2.710	2.710
RMS_RM	Resistivity of Mud Sample (RM)	OHMM	0.128	0.073
RWA_COMP_M	Rwa computation model			
RWA_DEN_AD	Rwa Density Input ADN			
RWA_DEN_CD	Rwa Density Input CDN			
RWA_DEN_IN	Rwa Density Input			
RWA_FORM_M	Rwa computation formation model			
RWA_RES_IN	**Rwa computation resistivity input**			
RWS_RM	Resistivity of Connate Water (RM)	OHMM	1.000	1.000
SHT_RM	Ground Level Temperature (Mud-Line When Offshore) (RM)	DEGC	10.000	10.000
TD_RM	Total Measured Depth (RM)	M	1944.500	2517.100
TWS_RM	Temperature of Connate Water (RM)	DEGC	23.889	23.889
VF_ILLI	Fraction of illite in shales	----	0.500	0.500
VF_KAOL	Fraction of kaolinite in shales	----	0.500	0.500
VF_MONT	Fraction of montmorillonite in shales	----	0.000	0.000
XPDM_RM	Cross plot density porosity multiplier	----	0.675	0.675
XPNM_RM	Cross plot neutron porosity multiplier	----	0.325	0.325
	ARC			
A12A	ARC Air Cal Attenuation From T1 at 2 MHz	DB	8.267	8.169
A14A	ARC Air Cal Attenuation From T1 at 400 KHz	DB	8.197	8.157
A22A	ARC Air Cal Attenuation From T2 at 2 MHz	DB	6.374	6.249
A24A	ARC Air Cal Attenuation From T2 at 400 KHz	DB	6.450	6.267
A32A	ARC Air Cal Attenuation From T3 at 2 MHz	DB	4.991	4.775
A34A	ARC Air Cal Attenuation From T3 at 400 KHz	DB	4.915	4.757
A42A	ARC Air Cal Attenuation From T4 at 2 MHz	DB	4.337	4.656
A44A	ARC Air Cal Attenuation From T4 at 400 KHz	DB	4.410	4.669
A52A	ARC Air Cal Attenuation From T5 at 2 MHz	DB	3.582	3.332
A54A	ARC Air Cal Attenuation From T5 at 400 KHz	DB	3.513	3.317
ABNT	Abnormal Transmitter Indicator	----	No_Tx_Failed	No_Tx_Failed
ADHS	ARC Down Hole Software Version		V9.3B13	----
AM2A	ARC Air Cal Amplitude Offset at 2 MHz	----	-50000.000	-50000.000
ANISO_COMPUTE	Anisotropy Computation Option	----	YES	YES
APICG	ARC5 Gamma Ray Gain Factor	----	1.078	
APIG	ARC Gamma Ray API Gain Factor	----	-1.000	
ARC_DATA_FIX	ARC: Create A Corrected ARC Time Data File	----	NO	
ARC_DATA_LTB	ARC: Create An ARC LTB Data File	----	NO	
ATMP_ARC	ARC Select Temperature Channel	----	Annulus_Temp	Annulus_Temp
ATRN	ARC Tool Run Number	----	5	----
ATSN	ARC Tool Serial Number	----	2724	----
AZMF	Formation DIP Azimuth	DEG	0.000	0.000
BH_COMPUTE	Borehole Inversion Computation Option	----	YES	YES
CALG	ARC Gamma Ray Cal Gain Factor	----	1.078	
CALI_SLCT_ARC	ARC Caliper Selection	----	BITSIZE	
CDPTH_ARC	Process Start Depth	M	30.480	30.480
DIELEC_COMPUTE	Dielectric Computation Option	----	YES	YES
DIPF	Formation DIP Angle	DEG	0.000	0.000
ERRCT	Percentage Error Cutoff	----	4.500	4.500
GRSH	GR Shale (Invasion Computation Cutoff)	GAPI	1000.000	1000.000
HIGH_BLEND	High Resistivity Threshold for Blending	OHMM	2.000	2.000
INCLIN_B0	ARC Bias Constant (mg)	----	0.000	0.000
INCLIN_B1	ARC Bias First-order Coefficient (mg/degC)	----	0.000	0.000
INCLIN_B2	ARC Bias Secod-order Coeeficient (mg/degC)	----	0.000	0.000
INCLIN_B3	ARC Bias Third-order Coeeficient (mg/degC)	----	0.000	0.000
INCLIN_C0	ARC Current Scale Factor Constant (mA/g)	----	1.000	1.000

INCLIN_C1	ARC Scale First-order Coeeficient (mA/g/degC)	----	0.000	0.000
INCLIN_C2	ARC Scale Second-order Coeeficient (mA/g/degC)	----	0.000	0.000
INCLIN_C3	ARC Scale Third-order Coeeficient (mA/g/degC)	----	0.000	0.000
INVAS_COMPUTE	Invasion Computation Option	----	YES	YES
JSD_ARC	ARC Acquisition start date	----	1-Aug-08	----
KPER	Potassium Concentration (RM)	----	4.356	
LOW_BLEND	Low Resistivity Threshold for Blending	OHMM	1.000	1.000
MSWS	ARC Wizard Model Switch Window	M	1.524	1.524
MULTIEFFECT_COM	Multi Effect Option	----	YES	YES
P11AC_RM	ARC: Air Calibration For Phase T1 to R1	DEG	-999.250	-999.250
P12A	ARC Air Cal Phase-Shift From T1 at 2 MHz	DEG	-1.295	-1.296
P14A	ARC Air Cal Phase-Shift From T1 at 400 KHz	DEG	1.663	2.074
P22A	ARC Air Cal Phase-Shift From T2 at 2 MHz	DEG	1.364	1.203
P24A	ARC Air Cal Phase-Shift From T2 at 400 KHz	DEG	-1.688	-1.994
P32A	ARC Air Cal Phase-Shift From T3 at 2 MHz	DEG	-1.375	-1.336
P34A	ARC Air Cal Phase-Shift From T3 at 400 KHz	DEG	1.672	2.082
P42A	ARC Air Cal Phase-Shift From T4 at 2 MHz	DEG	1.321	1.213
P44A	ARC Air Cal Phase-Shift From T4 at 400 KHz	DEG	-1.701	-1.913
P52A	ARC Air Cal Phase-Shift From T5 at 2 MHz	DEG	-1.400	-1.294
P54A	ARC Air Cal Phase-Shift From T5 at 400 KHz	DEG	1.648	1.915
POFFSET_ARC	ARC: Pressure Offset	PSI	0.000	
PRTD	Preferred Resistivity Log for Rt Display while Multi-Effects	----	P34B	P34B
PSOF_ADJ_T1	ARC: User Input Phase offset	DEG	0.000	0.000
RESTIK	ARC resistivity tick source	----	Phase	Phase
RSD	LWD run start date dd-mmm-yy	OHMM	0.128	0.073
RWA_COMP_MOD	Rwa computation model	----	BASIC	BASIC
RWA_DEN_ADN	Rwa Density Input	----	RHOB	RHOB
RWA_DEN_CDN	Rwa Density Input	----	RHOB	RHOB
RWA_DEN_INPUT	Rwa Density Input	----	RHOB	RHOB
RWA_FORM_MOD	Rwa computation formation model	----	CLASTIC	CLASTIC
RWA_RES_INPUT	Rwa computation resistivity input	----	RT	RT
SHIG	ARC High Shock Risk Level	CPS	0.500	
SMED	ARC Medium Shock Risk Level	CPS	0.330	
SMIN	ARC Minimum Shock Risk Level	CPS	0.160	
SUPD	ARC Real Time Shock Update Rate	S	30.000	
TCODE_ARC	ARC Tool File Code	S	30.000	
TSIZ_ARC	ARC Tool Size	IN	8.250	6.900
UNIFORM_COMPUTE	Uniform Rock Option	----	YES	YES
VERS_ARC	ARC Down hole software version Number	----	9.300	2.200
WRK	to Report Potassium Concentration (RM)	----	K_by_Wgt_%	K_by_Wgt_%

DVD

---------- Parameters----------		Parameters---------- Parameters----------		---------Sigma
---------- Parameters----------		Parameters----------Parameters----------		---------Sigma
ALPHA_DEN_OPT	Density Enhanced Vertical Resolution Processing Switch		----	NO
CHI_RM	Caliper High Limit from BS (RM)		IN	10.000
CLO_RM	Caliper Low Limit from BS (RM)		IN	-5.000
DTMUD	Delta-T for Mud (RM)		US/F	190.000
DTMUD_DH	**Delta-T for Mud Downhole (RT)**		**US/F**	**190.000**
DVDMDHS	DVDM Down Hole Software Version		US/F	190.000
DVDM_DATA_LTB	DVDM: Create An DVDM LTB Data File		----	NO
DVD_DATA_FIX	DVDM: Create A Corrected DVDM Time Data File		----	NO
DYN_IMAGE_OPT	Generate Dynamic Normalized Image?		----	YES
EDPTH	Wizard Process Stop Depth		----	50000
EN_WIZARD	Enable ARC Wizard Processing		----	NO
EVRL	EVR Process averaging number of samples (RM)		----	49
FWVN	Firmware Version Number		----	2.200
GCSE	Generalized Caliper Selection		----	BS
GR_CF	Gamma Ray Correction Factor		----	1.800
GR_O2COR_OPT	Enable Gamma Ray Oxygen Activation Correction		----	YES
IDQT	Image Derived Quality Threshold		----	1.000
IMAGE_MAX_DCRA	Image Density Caliper Right Scale		IN	8.000
IMAGE_MAX_IDDQ	Image Density Quality Right Scale		----	1.000
IMAGE_MAX_SPEF	Image PEF(Segment) Right Scale		----	6.000
IMAGE_MAX_SRHOB	Image RHOB(Segment) Right Scale		G/C3	2.650
IMAGE_MIN_DCRA	Image Density Caliper Left Scale		IN	2.000
IMAGE_MIN_IDDQ	Image Density Quality Left Scale		----	0.000
IMAGE_MIN_SPEF	Image PEF(Segment) Left Scale		----	2.000
IMAGE_MIN_SRHOB	Image RHOB(Segment) Left Scale		G/C3	2.050
JSD	Acquisition start date		----	9-Aug-08
MATR	Rock Matrix for Neutron Porosity Corrections		----	LIMESTONE
NEU_DCOR_OPT	Density Correction Source for Neutron Processing		----	Bottom
NEU_FTUBE_OPT	Far Thermal Tube Selection		----	Both
NEU_PRESCOR_OPT	Pressure Correction Source for Neutron Processing		----	Annulus_Press
NEU_TEMPCOR_OPT	Temperature Correction Source for Neutron Processing		----	Tool_Temp
NTIK_SEL	Neutron Tick Channel Name		----	FAZ1
OACF	Oxygen Activation Correction Factor (RM)		----	8.000
PMUD	Potassium Concentration in Mud		----	0.000
RUN_DURATION_OP	Run Duration Type ?		----	Normal
SDPTH	Wizard Process Start Depth		----	100
SIG_PCOR_OPT	Porosity Correction Source for Sigma Processing		----	Best
SPEC_CSG_DEPTH	Casing Depth for Spectroscopy Processing		M	30.480
SPL_CLAY_MODEL	SpectroLith Clay Model		----	SUBARKOSE
SPL_MG_OPT	Magnesium Flag Switch ?		----	OFF
SPL_SULFUR_MIN	SpectroLith Sulfur Mineral Option		----	PYRITE
STAB_SIZE	Stabilizer Size		IN	8.250
STOH	Top of Hole Sector		----	SECTOR_0
TRNO	Tool Run Number		----	6
TSNO	Tool Serial Number			987
WPPV	Water Phase as Percent of Total Volume in OBM		----	100.000
WPSL	Salinity of the Water Phase Emulsified within the OBM		PPK	130.746
WSDI	Window Size of Dynamic Normalization Image		M	4.572

EcoScope Service RM 200MD

IDF

ARC8A−AA	id13_0c_02	MWD_10	id13_0c_02

Format: EcoScope RM Log Vertical Scale: 1:200 Graphics File Created: 25−Aug−2008 11:28

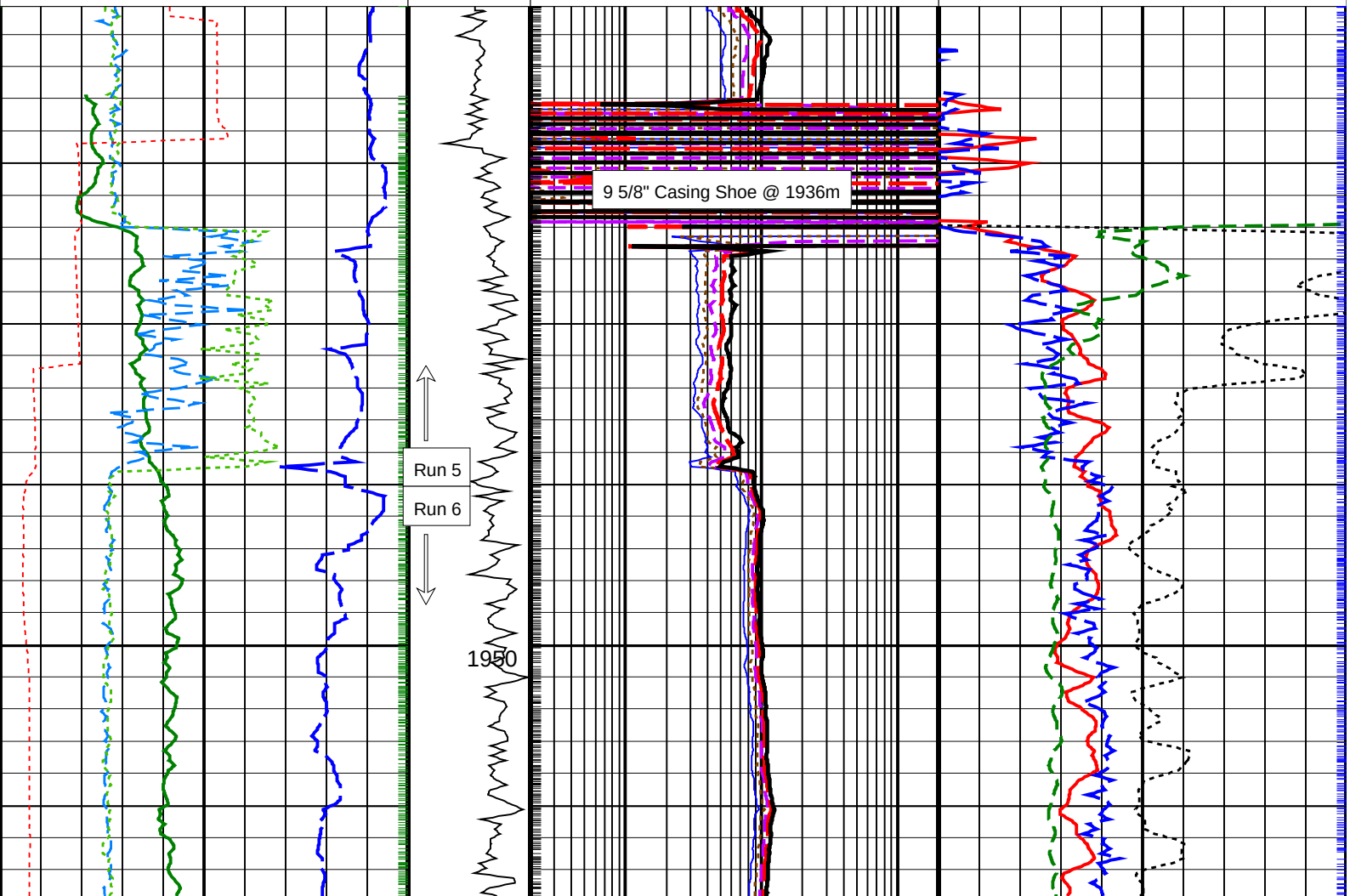
PIP SUMMARY

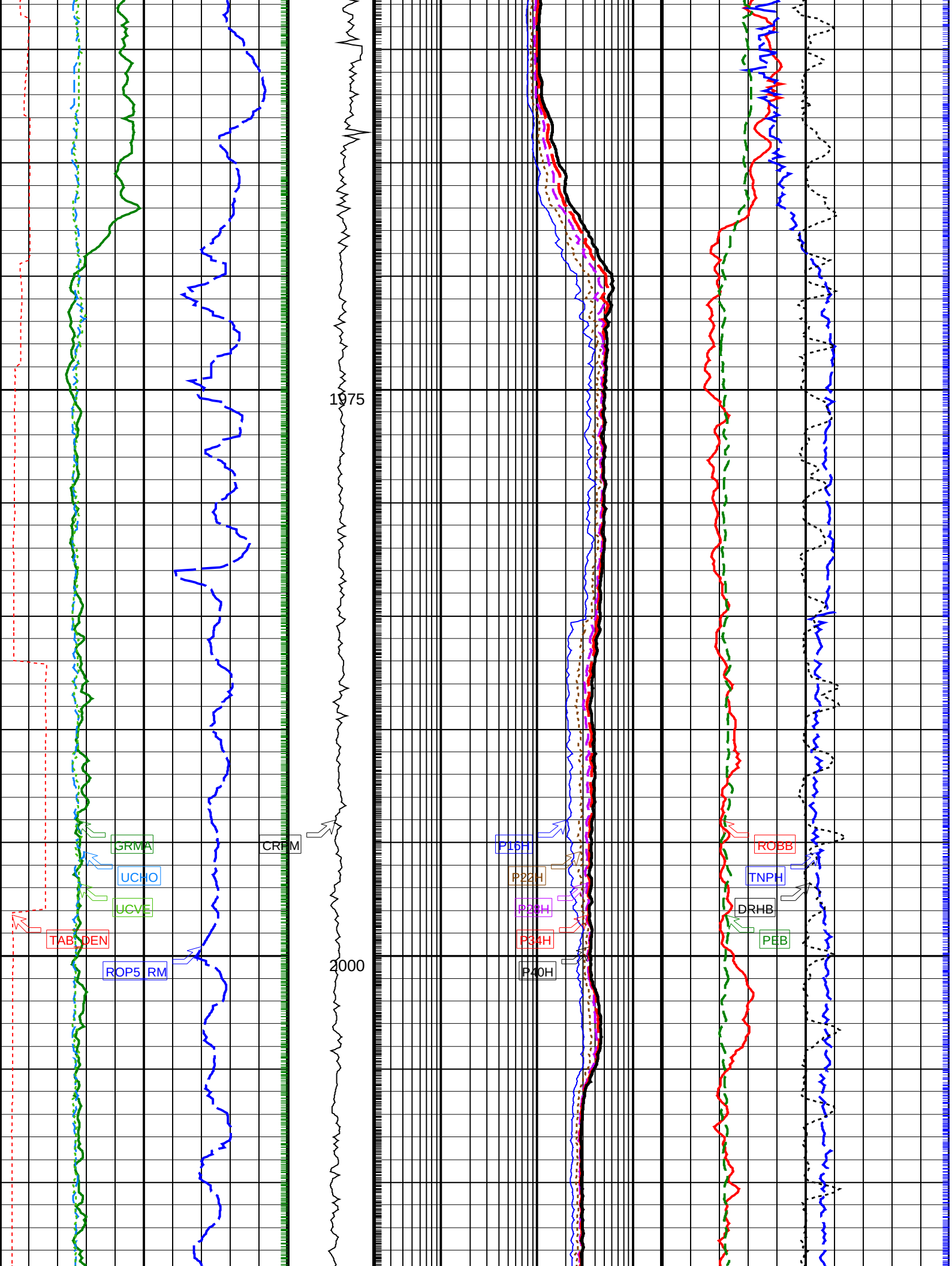
Neutron Samples

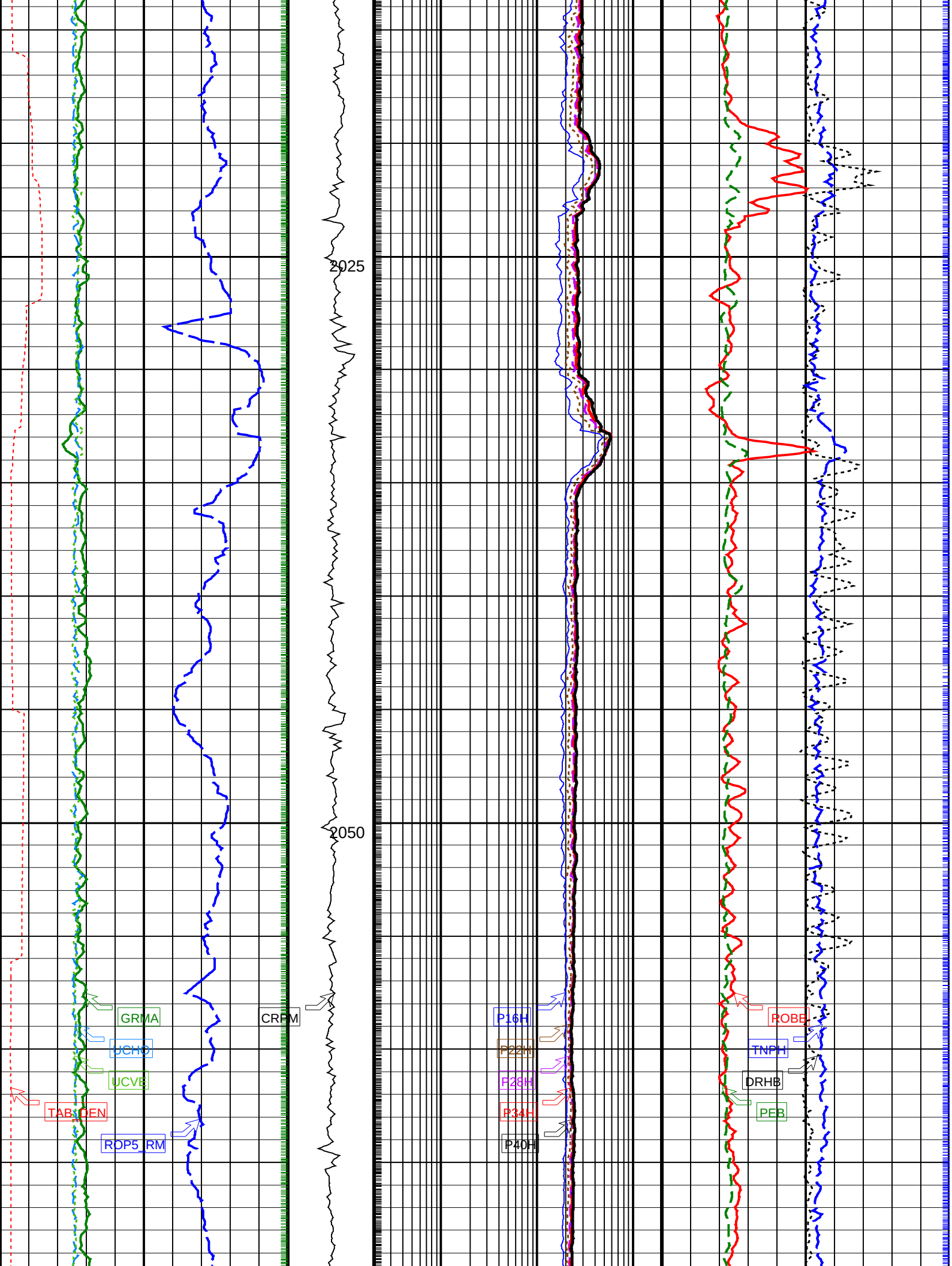
Gamma Ray Samples

Resistivity Samples

Rate of Penetration, Averaged over Last 5ft (ROP5_RM) 100 (M/HR) 0	ARC Phase Shift Resistivity 40 inch at 2 MHz (P40H) 0.2 (OHMM) 200	
Ultrasonic Caliper, Vertical Diameter (UCVE) 6 (IN) 16	ARC Phase Shift Resistivity 34 inch at 2 MHz (P34H) 0.2 (OHMM) 200	Photoelectric Factor, Bottom (PEB) 0 (−−−− 10
Ultrasonic Caliper, Horizontal Diameter (UCHO) 6 (IN) 16	ARC Phase Shift Resistivity 28 inch at 2 MHz (P28H) 0.2 (OHMM) 200	Bulk Density Correction, Bottom (DRHB) −0.25 (G/C3) 0.25
Time after BIT (between drilling and measurement) (TAB_DEN) 0 (HR) 10	ARC Phase Shift Resistivity 22 inch at 2 MHz (P22H) 0.2 (OHMM) 200	Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) 45 (PU) −15
Gamma Ray, Average (GRMA) 0 (GAPI) 200	Collar Rotational Speed (CRPM) (RPM) 0 200 / ARC Phase Shift Resistivity 16 inch at 2 MHz (P16H) 0.2 (OHMM) 200	Bulk Density, Bottom (ROBB) 1.95 (G/C3) 2.95




1975
2000
GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
CRFM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB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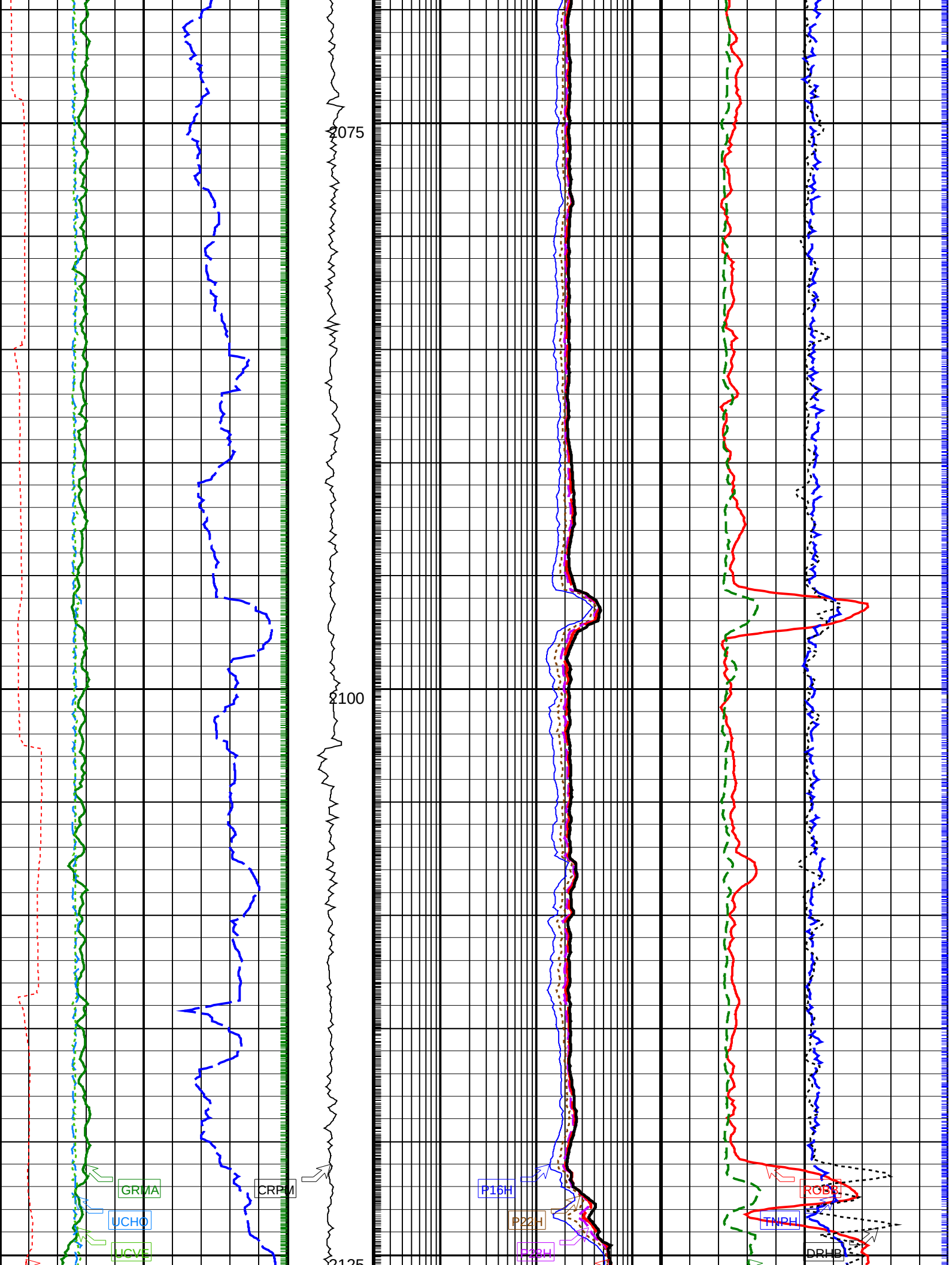
2050
GRMA
UCHO
UCVB
TAB_DEN
ROP5_RM
CRFM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB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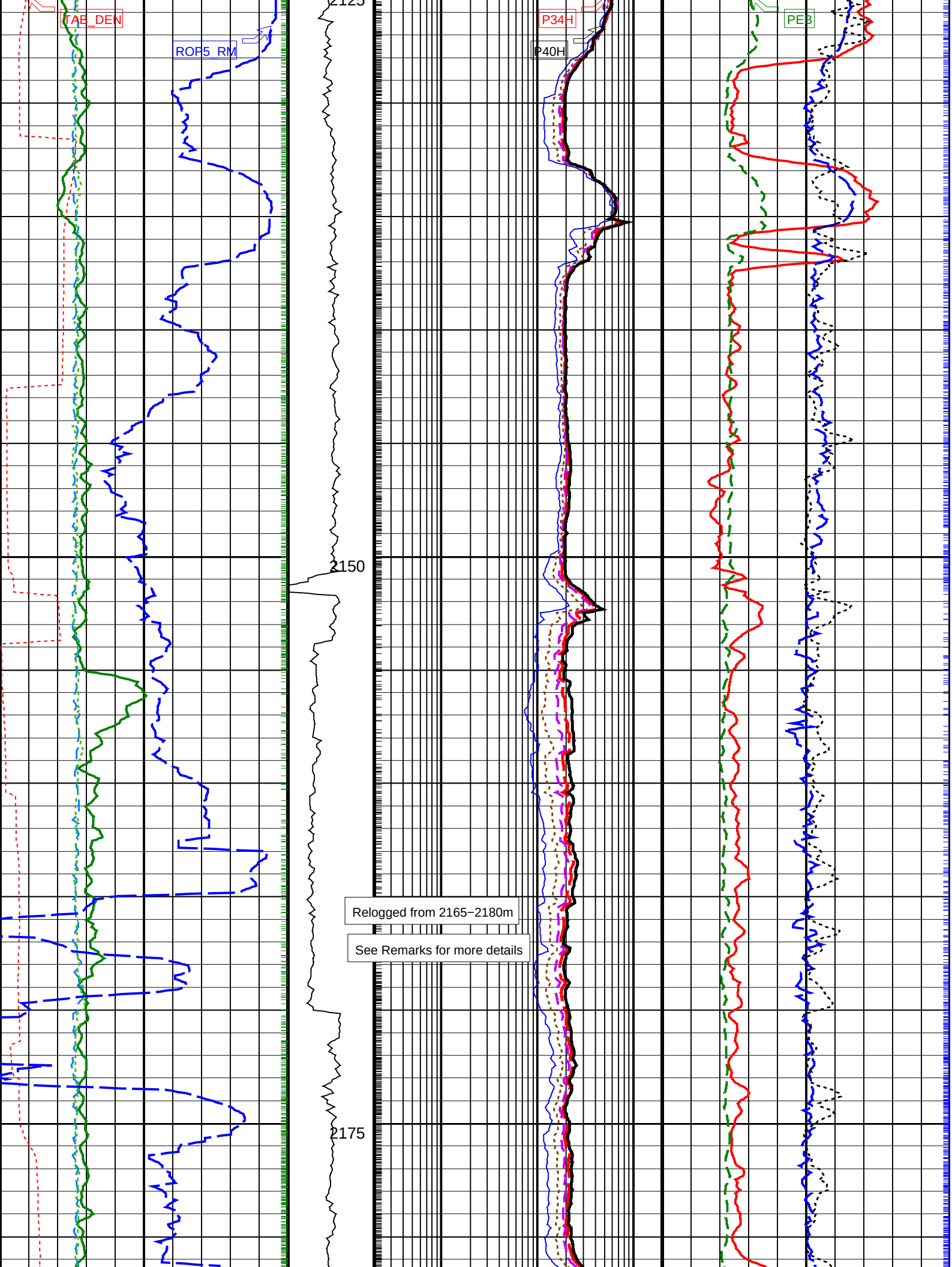
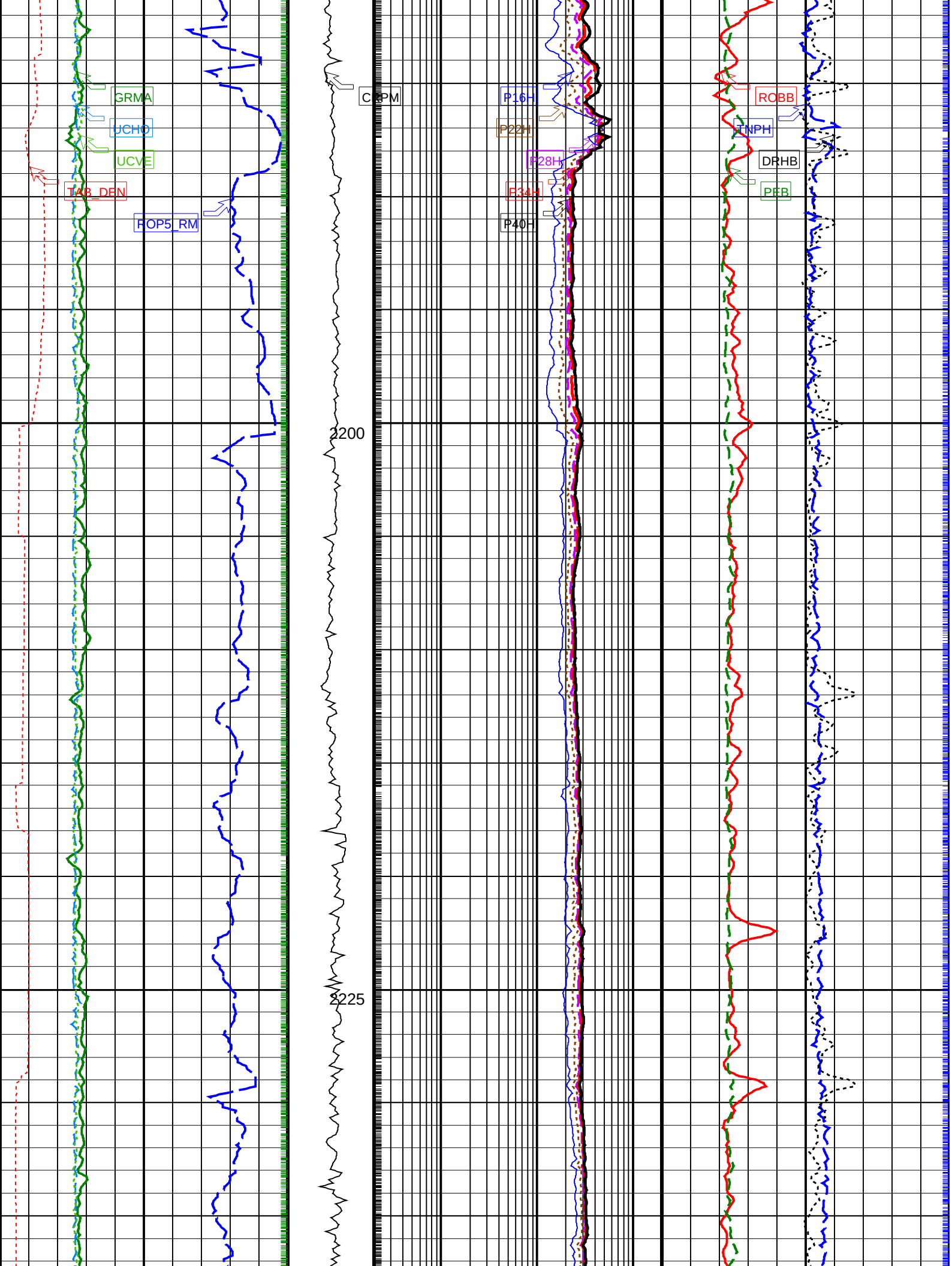
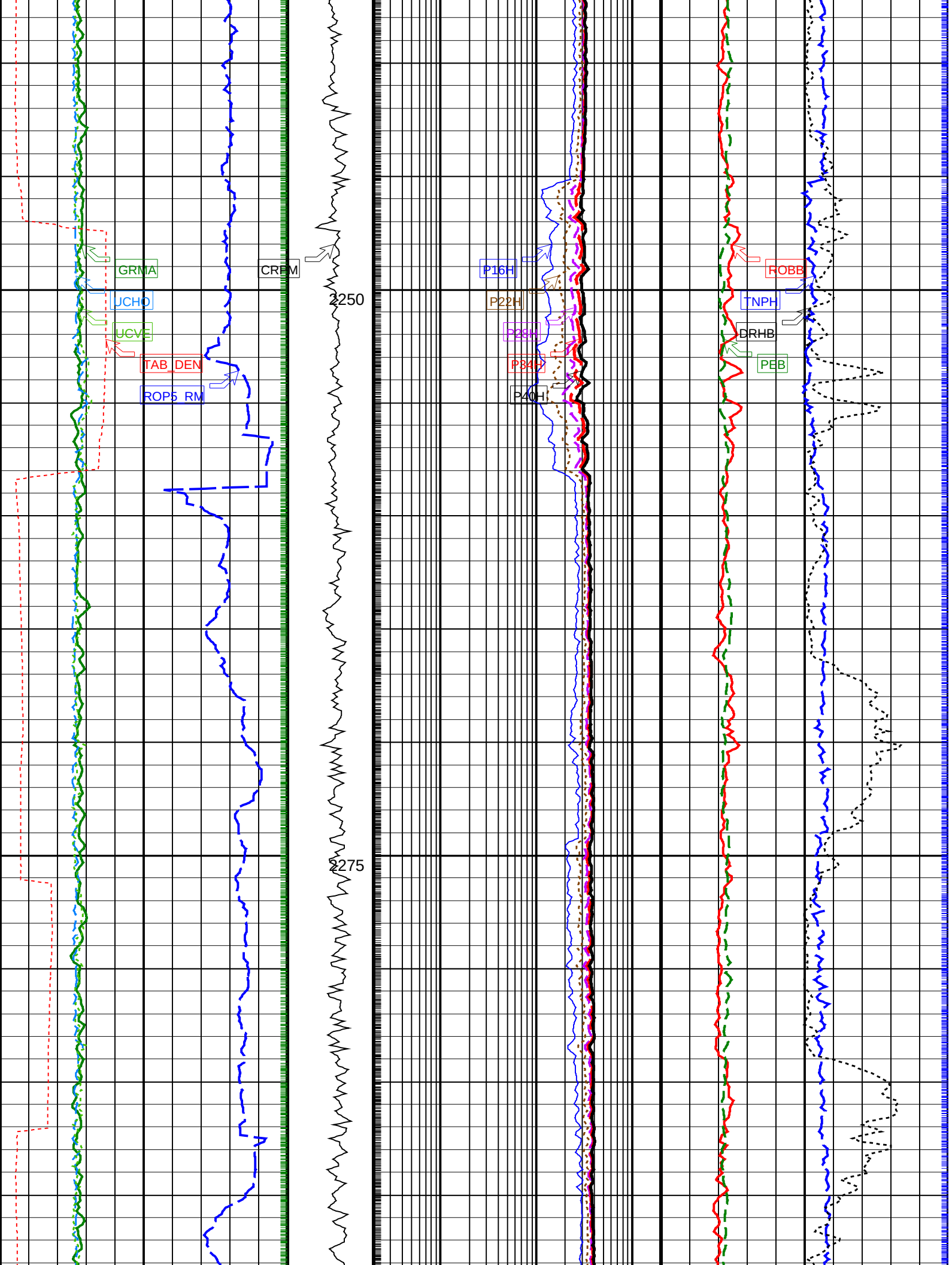
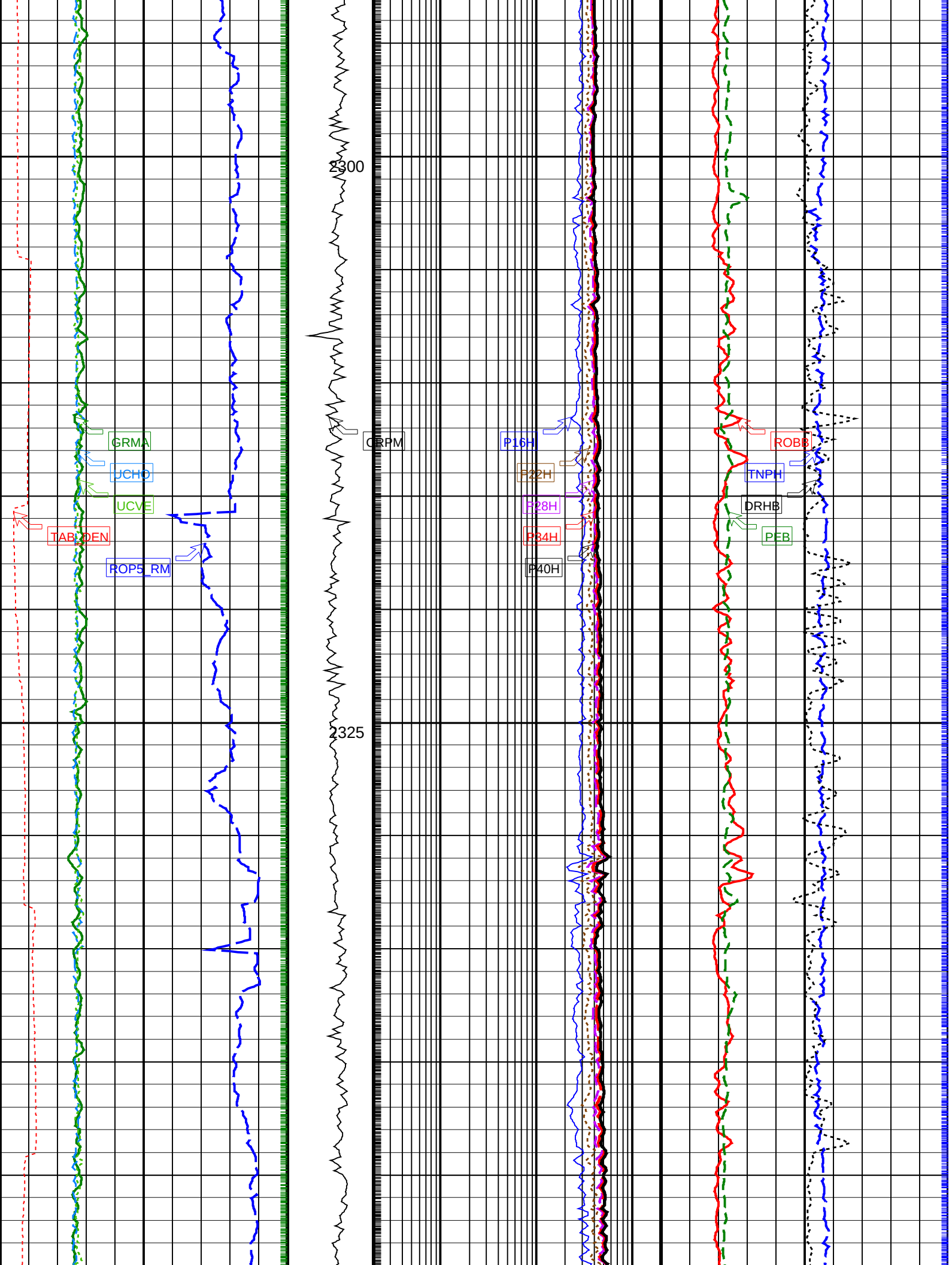
2100
GRMA
UCHO
UCVE
CRPM
P16H
P22H
P28H
TNPH
DRHB


TAB_DEN
ROP5_RM
2125
P34H
P40H
PE3
2150
Relogged from 2165−2180m
See Remarks for more details
2175


GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
C1PM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB
2200
2225


GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
CRFM
2250
2275
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB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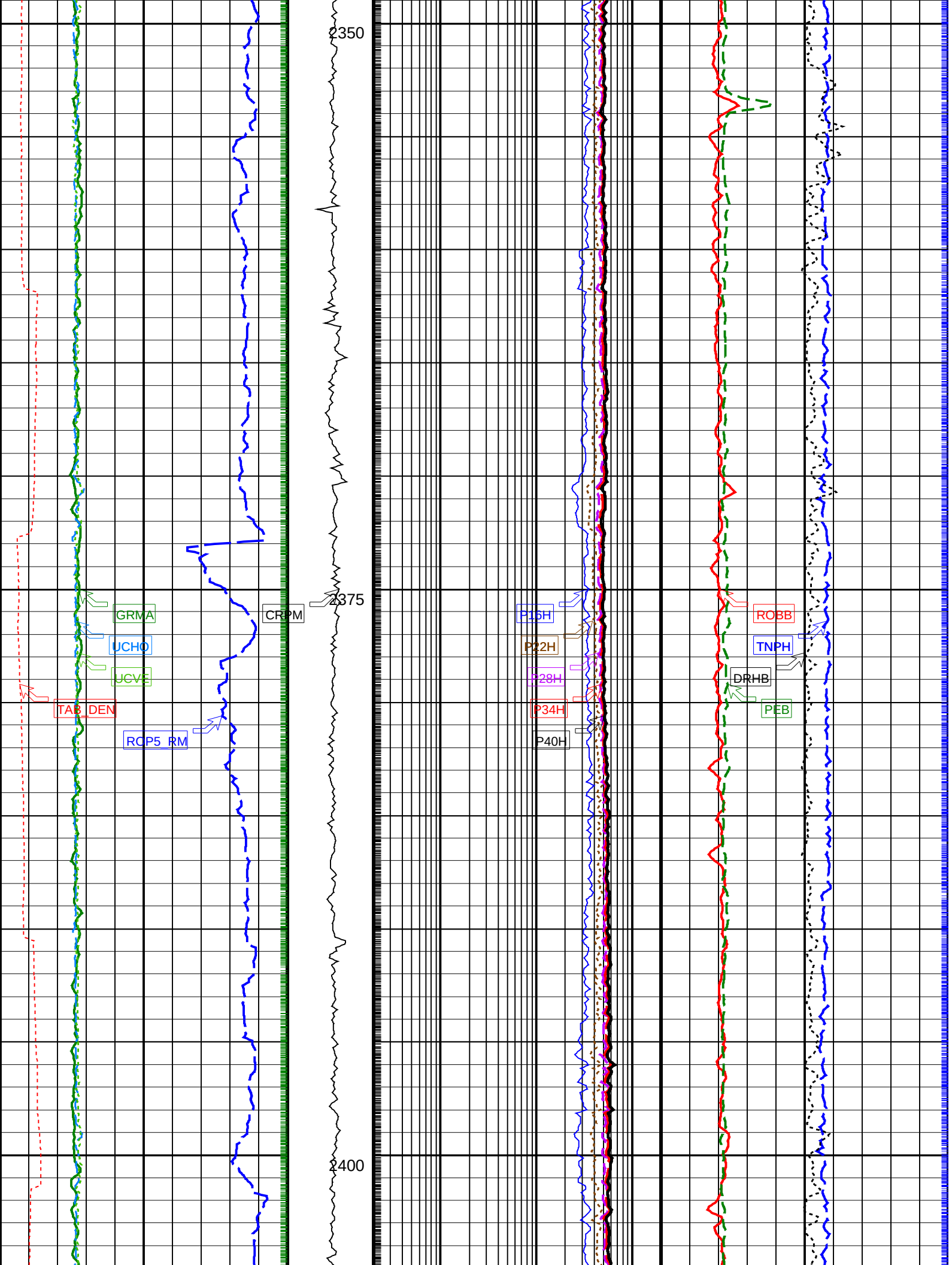
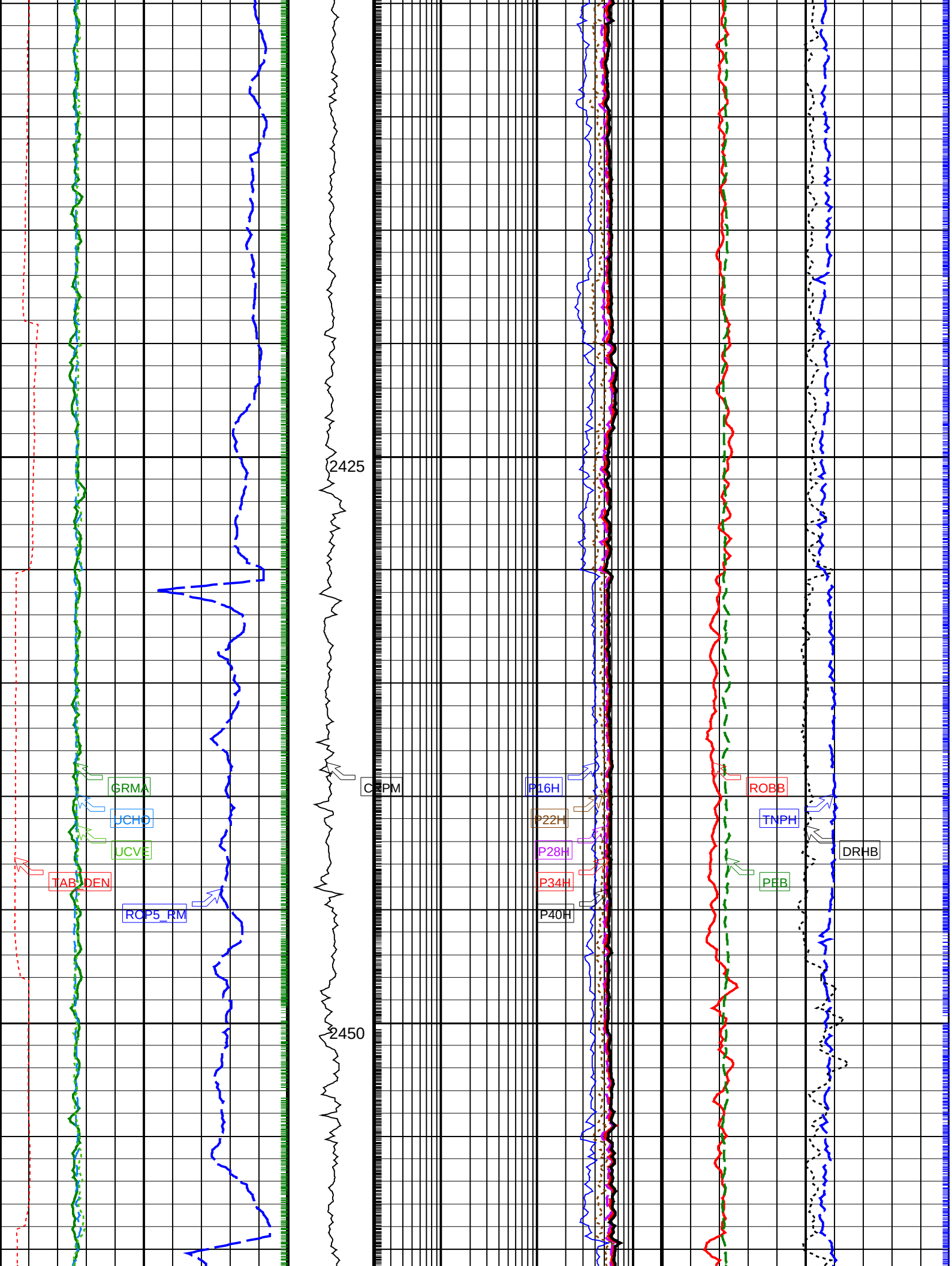
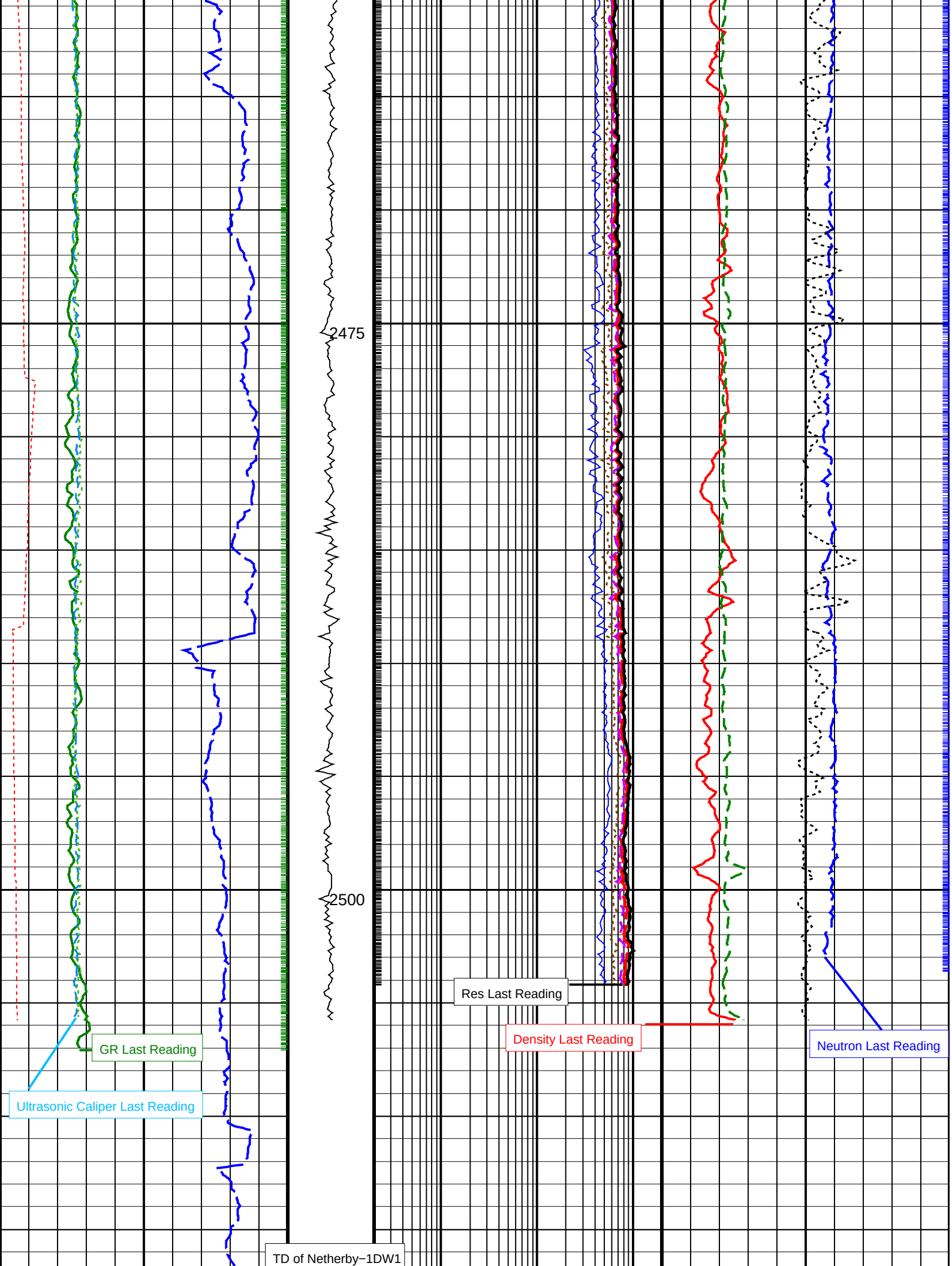
2325
GRMA
UCHO
UCVE
TABD_DEN
ROP5_RM
CRPM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB


2350
2375
2400
GRMA
UCHO
UCVE
TAB_DEN
RCP5_RM
CRPM
PI6H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB


2425
2450
GRMA
UCHO
UCVE
TAB_DEN
ROP5_RM
CRPM
P16H
P22H
P28H
P34H
P40H
ROBB
TNPH
DRHB
PEB


2475
2500
GR Last Reading
Ultrasonic Caliper Last Reading
Res Last Reading
Density Last Reading
Neutron Last Reading
TD of Netherby−1DW1

Gamma Ray, Average (GRMA)	Collar Rotational Speed (CRPM) (RPM)	ARC Phase Shift Resistivity 16 inch at 2 MHz (P16H)	Bulk Density, Bottom (ROBB)
0 (GAPI) 200	0 200	0.2 (OHMM) 200	1.95 (G/C3) 2.95
Time after BIT (between drilling and measurement) (TAB_DEN)		**ARC Phase Shift Resistivity 22 inch at 2 MHz (P22H)**	**Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)**
0 (HR) 10		0.2 (OHMM) 200	45 (PU) −15
Ultrasonic Caliper, Horizontal Diameter (UCHO)		**ARC Phase Shift Resistivity 28 inch at 2 MHz (P28H)**	**Bulk Density Correction, Bottom (DRHB)**
6 (IN) 16		0.2 (OHMM) 200	−0.25 (G/C3) 0.25
Ultrasonic Caliper, Vertical Diameter (UCVE)		**ARC Phase Shift Resistivity 34 inch at 2 MHz (P34H)**	**Photoelectric Factor, Bottom (PEB)**
6 (IN) 16		0.2 (OHMM) 200	0 (−−−− 10
Rate of Penetration, Averaged over Last 5ft (ROP5_RM)		**ARC Phase Shift Resistivity 40 inch at 2 MHz (P40H)**	
100 (M/HR) 0		0.2 (OHMM) 200	

PIP SUMMARY

Neutron Samples

Gamma Ray Samples

Resistivity Samples

IDEAL Version: ID13_0C_08

IDF

ARC8A−AA	**id13_0c_02**	**MWD_10**	**id13_0c_02**

8.25−in. Array Resistivity Compensated / Equipment Identification

Primary Equipment:

Tool Name and Serial Number	ARC8 − AA	8316
ARC825 Calibration Status		

Master: 17−Jul−2008 15:03

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Phase−Shift T1	Value	Phase	Phase−Shift T2	Value	Phase	Phase−Shift T3	Value
Master		−1.295	Master		1.364	Master		−1.375
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T4	Value	Phase	Phase−Shift T5	Value	Phase	Phase−Shift T1 at 400KHz	Value
Master		1.321	Master		−1.400	Master		1.663
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T2 at 400KHz	Value	Phase	Phase−Shift T3 at 400KHz	Value	Phase	Phase−Shift T4 at 400KHz	Value
Master		−1.688	Master		1.672	Master		−1.701
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)	−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Phase	Phase−Shift T5 at 400KHz	Value
Master		1.648
−3.900 (Minimum)	0.1000 (Nominal)	4.100 (Maximum)

Master: 17−Jul−2008 15:03

8.25−in. Array Resistivity Compensated Calibration

Resistivity: Air

Phase	Attenuation T1	Value	Phase	Attenuation T2	Value	Phase	Attenuation T3	Value
Master		8.267	Master		6.374	Master		4.991

Phase	Attenuation T4	Value
Master		4.337
	2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)	

Phase	Attenuation T5	Value
Master		3.582
	1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)	

Phase	Attenuation T1 at 400KHz	Value
Master		8.197
	6.500 (Minimum) 8.500 (Nominal) 10.50 (Maximum)	

Phase	Attenuation T2 at 400KHz	Value
Master		6.450
	4.500 (Minimum) 6.500 (Nominal) 8.500 (Maximum)	

Phase	Attenuation T3 at 400KHz	Value
Master		4.915
	2.500 (Minimum) 4.500 (Nominal) 6.500 (Maximum)	

Phase	Attenuation T4 at 400KHz	Value
Master		4.410
	2.600 (Minimum) 4.600 (Nominal) 6.600 (Maximum)	

Phase	Attenuation T5 at 400KHz	Value
Master		3.513
	1.600 (Minimum) 3.600 (Nominal) 5.600 (Maximum)	

Master: 17−Jul−2008 20:12

8.25−in. Array Resistivity Compensated Calibration

Gamma Ray: Blanket

Phase	Gamma ray factor (equals Calibration Gain multiplied by API Gain Factor) CPS	Value
Master		7.763
	4.960 (Minimum) 7.200 (Nominal) 9.650 (Maximum)	

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch / Equipment Identification

Primary Equipment:		
Tool Name and Serial Number	ECO − 675	979
Calibration Status	−	
Neutron Logging Source	PNG − C	
Density Logging Source	GSR − J/Z	
Stabilizer Size	8.25 − in.	

Master: 3−Aug−2008 15:58

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

SSn LSn : Water Tank

Phase	SSn Gain	Value
Master		1.069
	0.6000 (Minimum) 1.000 (Nominal) 1.400 (Maximum)	

Phase	SSn Offset	Value
Master		0
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Phase	LSn Gain	Value
Master		1.000
	0.6000 (Minimum) 1.000 (Nominal) 1.400 (Maximum)	

Phase	LSn Offset	Value
Master		0
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Master: 3−Aug−2008 15:58

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Neutron: Water Tank

Phase	Far 2 Gain	Value
Master		0.9674
	0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum)	

Phase	Far 2 Offset	Value
Master		1.349
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Phase	Far 1 Gain	Value
Master		1.003
	0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum)	

Phase	Far 1 Offset	Value
Master		1.235
	−3.000 (Minimum) 0 (Nominal) 3.000 (Maximum)	

Phase	Thermal Near gain	Value
Master		1.015
	0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum)	

Phase	Thermal Near offset	Value
Master		108.6
	−500.0 (Minimum) 0 (Nominal) 500.0 (Maximum)	

Phase	Epithermal Near gain	Value
Master		1.019
	0.7000 (Minimum) 1.000 (Nominal) 1.300 (Maximum)	

Phase	Epithermal Near offset	Value
Master		91.49
	−300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)	

Master: 3−Aug−2008 18:01

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Gamma Density: Magnesium Block

Phase	LS window 3 − Mg CPS	Value
Master		3690
2200 (Minimum)	3350 (Nominal)	4500 (Maximum)

Phase	SS window 1 − Mg CPS	Value
Master		7502
4560 (Minimum)	6830 (Nominal)	9100 (Maximum)

Phase	SS window 3 − Mg CPS	Value
Master		17740
11100 (Minimum)	16700 (Nominal)	22300 (Maximum)

Master: 3−Aug−2008 18:01

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Gamma Density: Aluminum Block

Phase	LS window 3 − Al CPS	Value
Master		602.5
350.0 (Minimum)	575.0 (Nominal)	800.0 (Maximum)

Phase	SS window 1 − Al CPS	Value
Master		3842
2300 (Minimum)	3550 (Nominal)	4800 (Maximum)

Phase	SS window 3 − Al CPS	Value
Master		12300
7600 (Minimum)	11550 (Nominal)	15500 (Maximum)

Master: 3−Aug−2008 18:01

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Gamma Density: Background

Phase	LS window 3 − Background CPS	Value
Master		62.16
50.00 (Minimum)	70.00 (Nominal)	90.00 (Maximum)

Phase	SS window 1 − Background CPS	Value
Master		84.83
50.00 (Minimum)	75.00 (Nominal)	100.0 (Maximum)

Phase	SS window 3 − Background CPS	Value
Master		402.9
270.0 (Minimum)	370.0 (Nominal)	470.0 (Maximum)

Master: 3−Aug−2008 18:01

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Gamma Density: Water Block Check

Phase	Long spacing water density G/C3	Value
Master		1.059
1.026 (Minimum)	1.043 (Nominal)	1.059 (Maximum)

Phase	Short spacing water density G/C3	Value
Master		1.264
1.221 (Minimum)	1.256 (Nominal)	1.291 (Maximum)

Master: 1−Aug−2008 12:53

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Resistivity: Air

Phase	Phase−Shift T1	Value
Master		−1.296
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T2	Value
Master		1.203
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T3	Value
Master		−1.336
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T4	Value
Master		1.213
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T5	Value
Master		−1.294
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T1 at 400KHz	Value
Master		2.074
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T2 at 400KHz	Value
Master		−1.994
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T3 at 400KHz	Value
Master		2.082
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T4 at 400KHz	Value
Master		−1.913
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Phase	Phase−Shift T5 at 400KHz	Value
Master		1.915
−4.000 (Minimum)	0 (Nominal)	4.000 (Maximum)

Master: 1−Aug−2008 12:53

EcoScope Integrated Logging−While−Drilling Tool − 6.75 inch Calibration

Resistivity: Air

Phase	Attenuation T1	Value
Master		8.169
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	Attenuation T2	Value
Master		6.249
4.000 (Minimum)	6.000 (Nominal)	8.000 (Maximum)

Phase	Attenuation T3	Value
Master		4.775
3.500 (Minimum)	5.500 (Nominal)	7.500 (Maximum)

Phase	Attenuation T4	Value
Master		4.656
2.500 (Minimum)	4.500 (Nominal)	6.500 (Maximum)

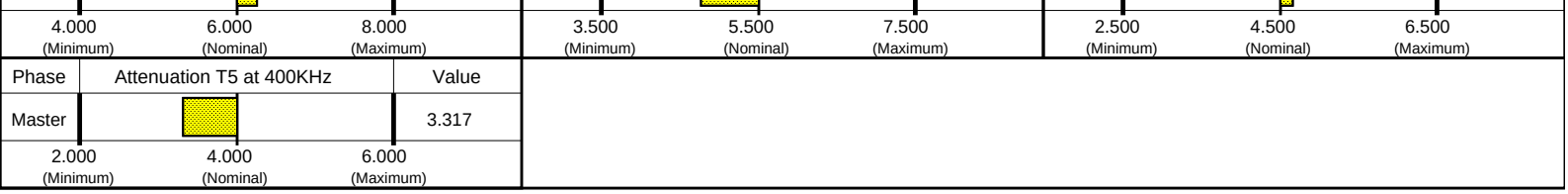
Phase	Attenuation T5	Value
Master		3.332
2.000 (Minimum)	4.000 (Nominal)	6.000 (Maximum)

Phase	Attenuation T1 at 400KHz	Value
Master		8.157
7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)

Phase	Attenuation T2 at 400KHz	Value
Master		6.267

Phase	Attenuation T3 at 400KHz	Value
Master		4.757

Phase	Attenuation T4 at 400KHz	Value
Master		4.669



Phase	Attenuation T5 at 400KHz	Value
Master		3.317

2.000 (Minimum) 4.000 (Nominal) 6.000 (Maximum)

SCHLUMBERGER

Survey report

Client.....: Santos Ltd
Field.....: Otway

Well.....: Netherby-1 DW1
Job number.....: 08ASQ0003
Engineer.....: J. Oldridge / Z. Rudd

RIG:.....: Ocean Patriot
STATE:.....: Victoria

Spud date.....: 02-Aug-08
Last survey date.....: 12-Aug-08
Total accepted surveys...: 86
MD of first survey.....: 0.00 m
MD of last survey.....: 2517.00 m

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Mason & Taylor

----- Depth reference -----
Permanent datum.....: Mean Sea Level
Depth reference.....: Driller's Depth
GL above permanent.....: -66.10 m
KB above permanent.....: 20.80 m
DF above permanent.....: 20.80 m

----- Vertical section origin-----
Latitude (+N/S-).....: 0.00 m
Departure (+E/W-).....: 0.00 m

----- Platform reference point-----
Latitude (+N/S-).....:
Departure (+E/W-).....:

Azimuth from Vsect Origin to target: 0.00 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2007
Magnetic date.....: 01-Aug-2008
Magnetic field strength..: 1215.17 HCNT
Magnetic dec (+E/W-).....: 10.78 degrees
Magnetic dip.....: -69.86 degrees

----- MWD survey Reference Criteria ---
Reference G.....: 1000.07 mGal
Reference H.....: 1215.17 HCNT
Reference Dip.....: -69.86 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 10.78 degrees
Grid convergence (+E/W-).: -1.03 degrees
Total az corr (+E/W-).....: 11.81 degrees
(Total az corr = magnetic dec - grid conv)
Survey Correction Type ...:
I=Sag Corrected Inclination
M=Schlumberger Magnetic Correction
S=Shell Magnetic Correction
F=Failed Axis Correction
R=Magnetic Resonance Tool Correction
D=Dmag Magnetic Correction

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SCHLUMBERGER Survey Report

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIP	None
2	87.00	0.00	0.00	87.00	87.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD_M	None
3	110.29	0.34	228.85	23.29	110.29	-0.05	-0.05	-0.05	0.07	228.85	0.44	MWD_M	None
4	139.31	0.48	70.38	29.02	139.31	-0.06	-0.06	-0.00	0.06	182.21	0.85	MWD_M	None
5	168.50	0.56	302.02	29.19	168.50	0.06	0.06	-0.01	0.06	351.63	0.98	MWD_M	None
6	196.58	0.62	250.43	28.08	196.58	0.08	0.08	-0.27	0.28	286.10	0.56	MWD_M	None
7	224.66	0.70	303.64	28.08	224.66	0.12	0.12	-0.55	0.57	282.37	0.65	MWD_M	None
8	252.74	0.64	294.72	28.08	252.73	0.28	0.28	-0.84	0.88	288.58	0.13	MWD_M	None
9	280.80	0.72	298.73	28.06	280.79	0.43	0.43	-1.14	1.22	290.84	0.10	MWD_M	None
10	309.51	0.65	287.17	28.71	309.50	0.57	0.57	-1.45	1.56	291.36	0.16	MWD_M	None
11	337.98	0.69	292.15	28.47	337.97	0.68	0.68	-1.76	1.89	291.08	0.08	MWD_M	None
12	366.89	0.70	359.25	28.91	366.88	0.92	0.92	-1.93	2.14	295.57	0.81	MWD_M	None
13	395.80	0.92	12.26	28.91	395.78	1.32	1.32	-1.88	2.30	305.19	0.30	MWD_M	None
14	424.75	0.87	19.30	28.95	424.73	1.76	1.76	-1.76	2.49	315.04	0.13	MWD_M	None
15	453.68	0.56	88.31	28.93	453.66	1.97	1.97	-1.54	2.50	321.94	0.89	MWD_M	None
16	482.49	0.59	96.35	28.81	482.47	1.96	1.96	-1.26	2.33	327.35	0.09	MWD_M	None
17	511.36	0.65	96.56	28.87	511.34	1.92	1.92	-0.94	2.14	333.84	0.06	MWD_M	None
18	540.27	0.70	100.87	28.91	540.24	1.87	1.87	-0.61	1.97	341.99	0.08	MWD_M	None
19	569.05	0.71	112.99	28.78	569.02	1.77	1.77	-0.27	1.79	351.27	0.16	MWD_M	None
20	597.90	0.69	128.34	28.85	597.87	1.59	1.59	0.03	1.59	1.05	0.20	MWD_M	None
21	617.15	0.84	123.17	19.25	617.12	1.44	1.44	0.24	1.46	9.38	0.26	MWD_M	None
22	634.46	0.94	124.68	17.31	634.42	1.29	1.29	0.46	1.37	19.65	0.18	MWD_M	None
23	660.03	0.52	130.06	25.57	659.99	1.10	1.10	0.72	1.31	33.35	0.51	MWD_M	None
24	745.26	2.31	160.81	85.23	745.19	-0.77	-0.77	1.58	1.76	116.04	0.67	MWD_M	None
25	773.50	4.27	158.54	28.24	773.39	-2.29	-2.29	2.15	3.14	136.73	2.12	MWD_M	None
26	801.23	5.89	157.85	27.73	801.01	-4.57	-4.57	3.07	5.50	146.11	1.78	MWD_M	None
27	831.43	7.57	152.25	30.20	831.00	-7.76	-7.76	4.58	9.01	149.47	1.82	MWD_M	None
28	859.94	9.31	137.33	28.51	859.20	-11.12	-11.12	7.02	13.15	147.75	2.98	MWD_M	None
29	889.70	11.19	126.87	29.76	888.49	-14.63	-14.63	10.96	18.28	143.15	2.70	MWD_M	None
30	919.19	12.15	123.94	29.49	917.37	-18.08	-18.08	15.82	24.02	138.80	1.17	MWD_M	None

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SCHLUMBERGER Survey Report

SCHLUMBERGER Survey Report

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
31	948.90	12.93	122.08	29.71	946.37	-21.59	-21.59	21.23	30.28	135.47	0.90	MWD_M	None
32	979.41	13.44	120.85	30.51	976.07	-25.22	-25.22	27.17	37.07	132.86	0.58	MWD_M	None
33	1007.51	14.16	120.45	28.10	1003.36	-28.63	-28.63	32.94	43.64	131.00	0.79	MWD_M	None
34	1036.14	14.55	118.54	28.63	1031.10	-32.13	-32.13	39.12	50.62	129.40	0.65	MWD_M	None
35	1065.20	14.60	118.24	29.06	1059.22	-35.60	-35.60	45.55	57.81	128.01	0.09	MWD_M	None
36	1096.08	14.09	118.27	30.88	1089.14	-39.23	-39.23	52.29	65.37	126.88	0.50	MWD_M	None
37	1124.66	14.01	116.68	28.58	1116.87	-42.43	-42.43	58.44	72.22	125.98	0.42	MWD_M	None
38	1153.50	15.82	116.95	28.84	1144.73	-45.78	-45.78	65.07	79.56	125.13	1.91	MWD_M	None
39	1182.04	19.92	117.65	28.54	1171.89	-49.80	-49.80	72.84	88.24	124.36	4.38	MWD_M	None
40	1210.10	23.56	117.60	28.06	1197.95	-54.62	-54.62	82.05	98.57	123.65	3.95	MWD_M	None
41	1239.36	25.76	114.79	29.26	1224.54	-59.99	-59.99	93.01	110.68	122.82	2.60	MWD_M	None
42	1267.39	29.36	115.62	28.03	1249.39	-65.52	-65.52	104.74	123.54	122.03	3.94	MWD_M	None
43	1294.27	33.74	116.12	26.88	1272.29	-71.66	-71.66	117.39	137.53	121.40	4.98	MWD_M	None
44	1322.42	33.97	116.49	28.15	1295.67	-78.61	-78.61	131.45	153.16	120.88	0.33	MWD_M	None
45	1350.13	34.69	115.42	27.71	1318.55	-85.44	-85.44	145.50	168.73	120.42	1.03	MWD_M	None
46	1379.95	34.59	115.60	29.82	1343.08	-92.74	-92.74	160.80	185.63	119.98	0.15	MWD_M	None
47	1408.27	35.05	116.50	28.32	1366.33	-99.85	-99.85	175.32	201.76	119.66	0.74	MWD_M	None
48	1429.41	34.97	116.54	21.14	1383.65	-105.26	-105.26	186.17	213.87	119.48	0.12	MWD	None
49	1487.90	35.17	112.27	58.49	1431.53	-119.14	-119.14	216.76	247.35	118.79	1.28	MWD	None
50	1505.00	35.50	109.55	17.10	1445.48	-122.67	-122.67	226.00	257.14	118.49	2.86	MWD_M	None
51	1517.15	35.81	105.68	12.15	1455.35	-124.81	-124.81	232.75	264.10	118.20	5.71	MWD	None
52	1543.44	37.54	107.13	26.29	1476.43	-129.25	-129.25	247.81	279.49	117.54	2.24	MWD	None
53	1569.82	39.74	109.42	26.38	1497.04	-134.42	-134.42	263.44	295.75	117.03	3.03	MWD	None
54	1600.60	42.06	111.11	30.78	1520.30	-141.40	-141.40	282.34	315.77	116.60	2.55	MWD	None
55	1629.46	44.65	112.85	28.86	1541.29	-148.82	-148.82	300.71	335.52	116.33	3.01	MWD	None
56	1657.18	47.47	114.86	27.72	1560.52	-156.90	-156.90	318.96	355.46	116.19	3.49	MWD	None
57	1686.89	50.14	117.99	29.71	1580.09	-166.86	-166.86	338.97	377.81	116.21	3.65	MWD	None
58	1715.23	52.55	119.95	28.34	1597.79	-177.58	-177.58	358.32	399.91	116.36	3.07	MWD	None
59	1744.26	55.92	121.19	29.03	1614.76	-189.56	-189.56	378.60	423.41	116.60	3.69	MWD	None
60	1773.52	59.64	122.89	29.26	1630.36	-202.70	-202.70	399.57	448.05	116.90	4.15	MWD	None

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SCHLUMBERGER Survey Report

Seq #	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 100f)	Srvy tool type	Tool Corr (deg)
61	1804.17	64.78	123.05	30.65	1644.64	-217.45	-217.45	422.31	475.01	117.24	5.11	MWD	None
62	**1832.79**	**69.15**	**123.30**	**28.62**	**1655.84**	**-231.86**	**-231.86**	**444.35**	**501.21**	**117.56**	**4.66**	**MWD**	**None**
63	**1860.88**	**73.78**	**123.07**	**28.09**	**1664.76**	**-246.43**	**-246.43**	**466.64**	**527.71**	**117.84**	**5.03**	**MWD**	**None**
64	1889.08	77.80	122.38	28.20	1671.68	-261.21	-261.21	489.63	554.95	118.08	4.40	MWD	None
65	1919.55	79.76	122.50	30.47	1677.61	-277.24	-277.24	514.85	584.75	118.30	1.96	MWD	None
66	1946.54	80.97	122.53	26.99	1682.13	-291.54	-291.54	537.29	611.29	118.49	1.37	PUP	None
67	1973.95	83.60	122.37	27.41	1685.81	-306.12	-306.12	560.21	638.39	118.65	2.93	PUP	None
68	2011.18	87.85	121.02	37.23	1688.58	-325.62	-325.62	591.79	675.46	118.82	3.65	PUP	None
69	2031.41	89.37	120.87	20.23	1689.08	-336.02	-336.02	609.14	695.67	118.88	2.30	PUP	None
70	2060.00	89.80	121.67	28.59	1689.28	-350.85	-350.85	633.57	724.23	118.98	0.97	PUP	None
71	2089.29	89.46	120.38	29.29	1689.47	-365.95	-365.95	658.67	753.50	119.06	1.39	PUP	None
72	2112.91	89.48	119.43	23.62	1689.69	-377.73	-377.73	679.14	777.12	119.08	1.23	PUP	None
73	2148.38	93.04	121.22	35.47	1688.91	-395.63	-395.63	709.75	812.57	119.14	3.42	PUP	None
74	2177.62	94.65	120.61	29.24	1686.95	-410.62	-410.62	734.78	841.73	119.20	1.79	PUP	None
75	2204.98	96.37	120.79	27.37	1684.32	-424.52	-424.52	758.20	868.96	119.24	1.93	PUP	None
76	2234.16	96.29	119.97	29.17	1681.11	-439.19	-439.19	783.21	897.95	119.28	0.86	PUP	None
77	2262.48	94.85	119.65	28.32	1678.36	-453.20	-453.20	807.67	926.13	119.30	1.59	PUP	None
78	2291.13	95.36	119.68	28.65	1675.81	-467.32	-467.32	832.46	954.67	119.31	0.54	PUP	None
79	2321.31	95.04	119.36	30.18	1673.07	-482.13	-482.13	858.62	984.72	119.32	0.46	PUP	None
80	2350.32	93.87	118.72	29.00	1670.82	-496.16	-496.16	883.90	1013.63	119.31	1.40	PUP	None
81	2378.82	94.18	118.17	28.51	1668.82	-509.71	-509.71	908.90	1042.07	119.28	0.67	PUP	None
82	2407.67	94.16	117.99	28.85	1666.72	-523.25	-523.25	934.29	1070.84	119.25	0.19	PUP	None
83	2436.52	94.22	117.82	28.85	1664.61	-536.72	-536.72	959.72	1099.60	119.22	0.19	PUP	None
84	2465.68	95.68	118.34	29.16	1662.10	-550.39	-550.39	985.35	1128.65	119.19	1.62	PUP	None
85	2494.27	98.42	119.26	28.59	1658.59	-564.06	-564.06	1010.21	1157.02	119.18	3.08	PUP	None
86	2517.00	98.30	119.30	22.73	1655.28	-575.06	-575.06	1029.82	1179.50	119.18	0.17	Proj. To TD	

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Company: **Santos Limited**

Schlumberger

Well: **Netherby 1DW1**

Field: **Otway**

Rig: **Ocean Patriot**

State: **Victoria**

EcoScope * Service
1:200 Measured Depth
Recorded Mode Log