

Rig: **ISDL 453** State: **Victoria**

Bit Run Summary

[illegible]

Type	KQL/PHPA/GLYCOL									
Mud weight	ppg	10.5								
Solids	%vol	9.8								
Chlorides	mg/l	48,500								
Rm	Ohmm @ degC	0.1243@21								
Rmf	Ohmm @ degC	0.0966@21								
Rmc	Ohmms @ degC	0.1631@21								
Potassium	%vol	6.9								
Environmental data										
GR										
Mud weight	ppg	10.5								
Bit size	in	8.5								
Resistivity										
Neutron porosity										
Hole Size	in	8.5								
Mud weight	ppg	10.5								
Temperature	degC	60								
Mud salinity	mg/l	80,000								
Formation salinity										
Recording rate 1	SEC	10 s								
Recording rate 2	SEC	10 s								
Filtering GR										
Filtering density		3 pt								
Filtering Neutron		3 pt								
Company representative	J. Booker	B. Davies								
Anadrill personnel	J. Chong	J. Walta	L. Bon							

DISCLAIMER

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OTHER SERVICES FOR RUN2 Directional Surveys	OTHER SERVICES FOR RUN	OTHER SERVICES FOR RUN
REMARKS: RUN NUMBER 2 8-1/2in Hole Section was logged from 740 m to 1730 m MD. Depth is referenced to the Driller's pipe tally. All data presented is from tool memory. GR is corrected for mud weight and bit size. RAB6 Resistivity is corrected for the bit size, mud resistivity and borehole temperature. Bottom quadrant density is presented. Neutron porosity is calculated with limestone matrix and is corrected for the bit size, borehome salinity, temperature and mud hydrogen index (from mud weight, temperature and pressure) Mud type is water based KCl/PHPA/GLYCOL. Barite is present in the mud. RAB6C Downhole Software 6C-V6.1 ADN6C Downhole Software 6.2B08	REMARKS: RUN NUMBER	REMARKS: RUN NUMBER

EQUIPMENT DESCRIPTION

RUN2

RUN

RUN

DOWNHOLE EQ

31.32

6 3/4 in. ADN6* Neutron
ADSE 289 Neutron
8 1/4 in. Stab Density
NSR-M A161 Density
GSR-J A2125 UltraSo
Soft: 6.2B08 R-O P



29.34
29.19
28.32
28.22
27.84
27.08

6 3/4 in. PowerPulse*
MDC Z408
MDI 626BC
MEC 612BB
Soft: 6.100C00 D&I



25.07
20.91

6 3/4 in. GVR6*
S/N 136
Soft: 6C-V61
Shallo
Medium
Deep
Ring R
R-O p
GR



16.74
15.27
15.15
14.97
14.80
14.66
14.44

Cross Over S/N 9916



13.68

NM Pony Collar



13.07

S/N 6649

NM Pony Collar



9.29

S/N H956

PowerPak* Mud Motor



7.88

A675XP S/N 3604

1.15 deg bend



Bit-PDC

Geo-Diamond Model: S75HPX

MAXIMUM STRING DI

ALL LENGTHS I

0.00^{0.18}

True Vertical Depth Log

IDEAL Version: ID6_1C_10

IDF

RAB	id6_1c_10	MWD_10	id6_1c_10
ADN	id6_1c_10		

Format: W38A RM Resistivity

Vertical Scale: 1:500

Graphics File Created: 22-May-2002 23:25

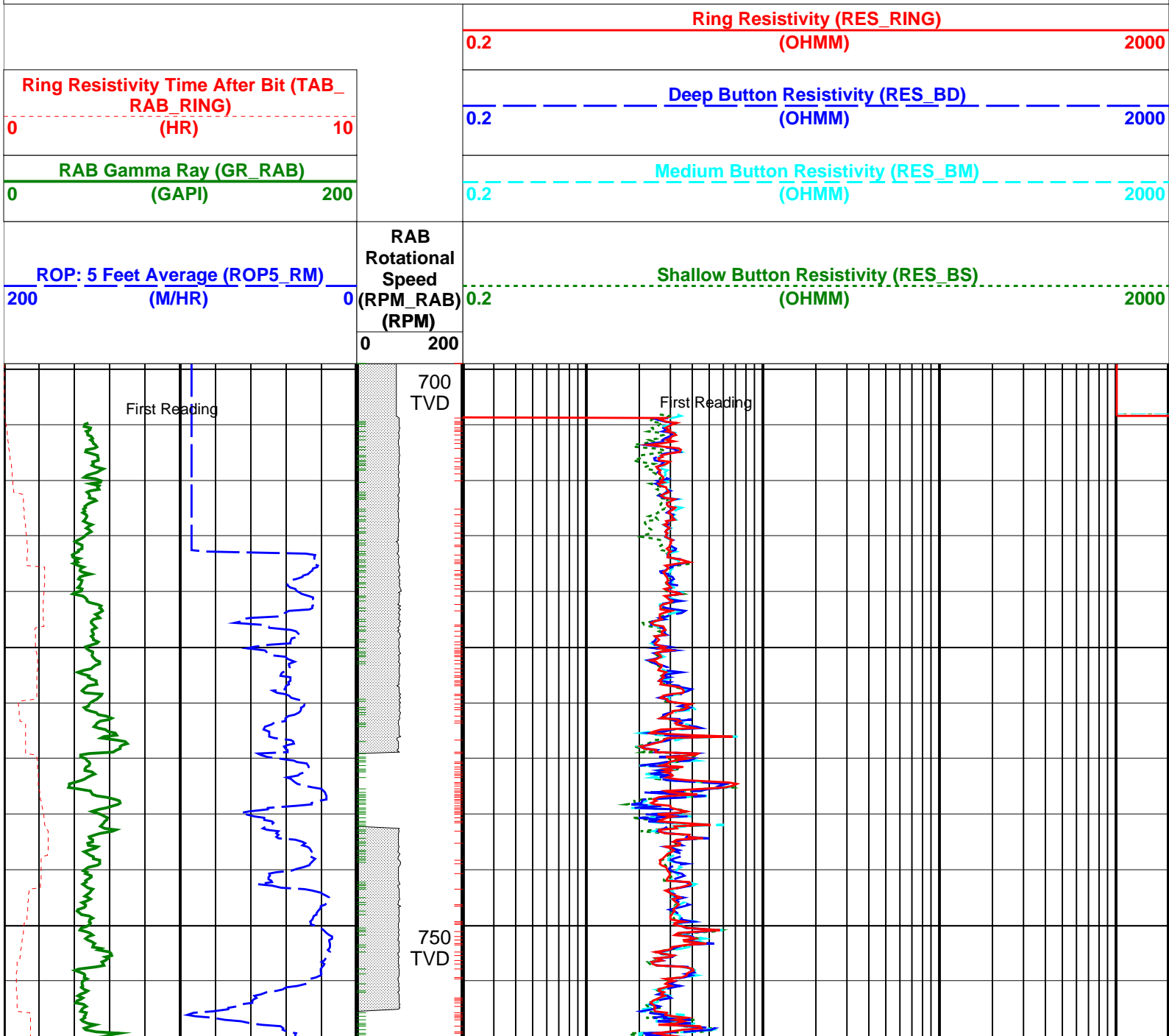
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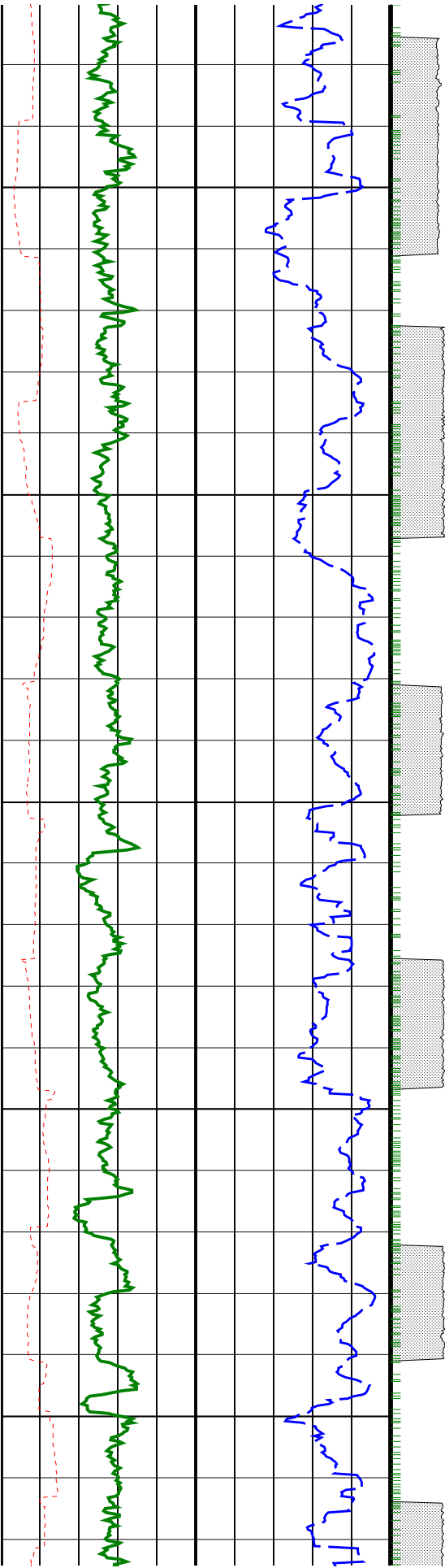
DLIS Name	Description	Value	
ALPHA_COMPUTE_DEN_ADN	Perform Density Enhanced Vertical Resolution process ?	NO	
AVE_ADN	ADN/Array Channels: perform averaging(RM) :	YES	
BHT_RM	Bottom Hole Temperature (RM)	140.0	degF
BSAL_RM	Mud Salinity (RM)	80.000	ppk
BS_RM	Bit Size (RM)	8.500	in
CHI_RM	Caliper High Limit from BS(RM) for Neutron BH Corr	2.000	in
CLO_RM	Caliper Low Limit from BS(RM) for Neutron BH Corr	0.000	in
COEF_M	User Defined FEXP in Clean Sand	1.650	
C_WS	Overpressure correction to Sw and M	1.000	
DEVI	Average angle of the hole (RM)	35.210	deg
DO	Depth Offset	0.0	m
DTMUD	Delta-T for Mud	190.3	us/m
DYN_IMG_COMPUTE_ADN	Generate Dynamic Normalized Image?	NO	
ENVCOR	Neutron Quadrant Processing: Environmental Correction?	YES	
EVRL	EVR Process averaging level (RM)	49	
FEXP	Formation Factor Exponent(RM)	2.000	
FNUM	Formation Factor Enumerator(RM)	1.000	
FPHI_RM	Formation Factor Porosity Source (RM)	XPLOT	
GCSE	Caliper for Neutron BH Corr	BS	
IMAGE_MAX_SOA	Image SOA (Quadrant) Right Scale	2.500	in
IMAGE_MAX_SPEF	Image PEF(Segment) Right Scale	6.000	
IMAGE_MAX_SRHOB	Image RHOB(Segment) Right Scale	2.650	g/cm3
IMAGE_MIN_SOA	Image SOA (Quadrant) Left Scale	0.000	in
IMAGE_MIN_SPEF	Image PEF(Segment) Left Scale	2.000	
IMAGE_MIN_SRHOB	Image RHOB(Segment) Left Scale	2.050	g/cm3
LITHO_TYPE_ADN	Lithology (RM)	LIME	
MST_RM	Mud Sample temperature (RM)	70.700	degF
MW_RM	Mud Weight (RM)	10.500	lbm/gal
OBMF_RM	Oil Based Mud	NO	
RHOF_RM	Mud Filtrate Density (RM)	1.000	g/cm3
RHOM_RM	Matrix density (RM)	2.710	g/cm3
RMS_RM	Resistivity of Mud Sample (RM)	0.124	ohm.m
RWA_COMP_MOD	Rwa computation model	BASIC	
RWA_DEN_INPUT	Rwa Density Input	RHOB	
RWA_FORM_MOD	Rwa computation formation model	CLASTIC	
RWA_RES_INPUT	Rwa computation resistivity input	RT	

RWA_FORM_MOD	Rwa computation formation model	CLASTIC	
RWA_RES_INPUT	Rwa computation resistivity input	RT	
RWS_RM	Resistivity of Connate Water (RM)	1.000	ohm.m
SHT_RM	Surface Hole Temperature (RM)	68.000	degF
SSIZ_ADN	ADN:Stabilizer Size (RM)	8.250	in
STOH	ADN Density Top of Hole Sector (Left Boundary):	SECTOR_0	
TD_RM	Total Measured Depth (RM)	1730.0	m
TRPM_RM	Average Tool rotational Speed (RM)	20.000	c/min
TWS_RM	Temperature of Connate Water (RM)	75.000	degF
USMIN_RM	ADN:Minimum ultra-sonic standoff (RM)	0.300	in
VERS_ADN	ADN downhole software	6.200	
VF_ILLI	Fraction of illite in shales	0.500	
VF_KAOL	Fraction of kaolinite in shales	0.500	
VF_MONT	Fraction of montmorillonite in shales	0.000	
WSDI	Window Size of Dynamic Normalization Image	4.572	m
XPDM_RM	Cross plot density proosity multiplier	0.675	
XPNM_RM	Cross plot neutron proosity multiplier	0.325	

PIP SUMMARY

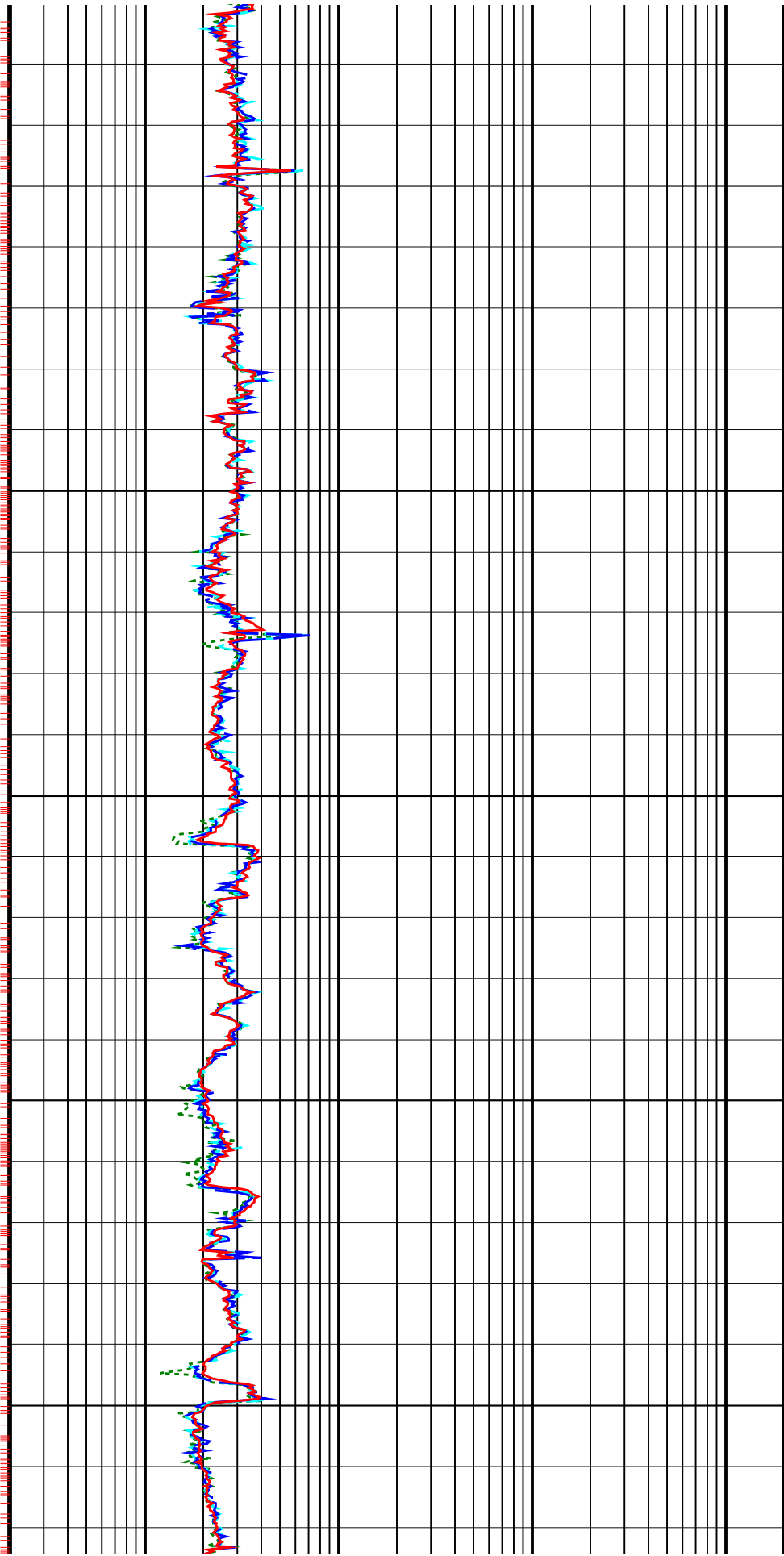
┤ Gamma Ray Samples
 ┤ Ring Samples

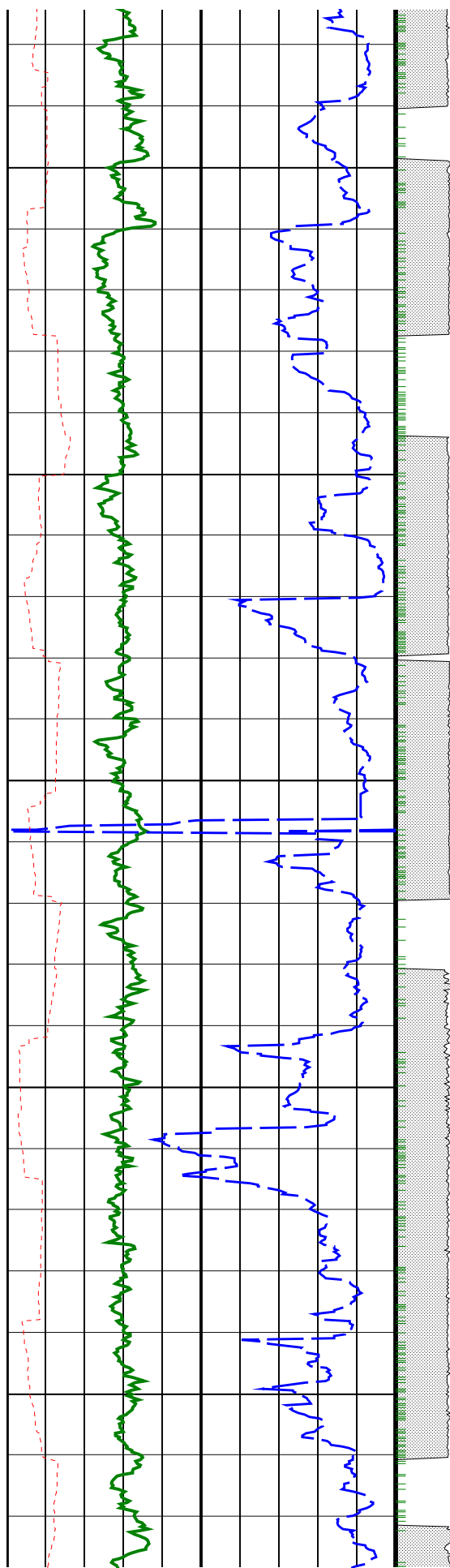




800
TVD

850
TVD

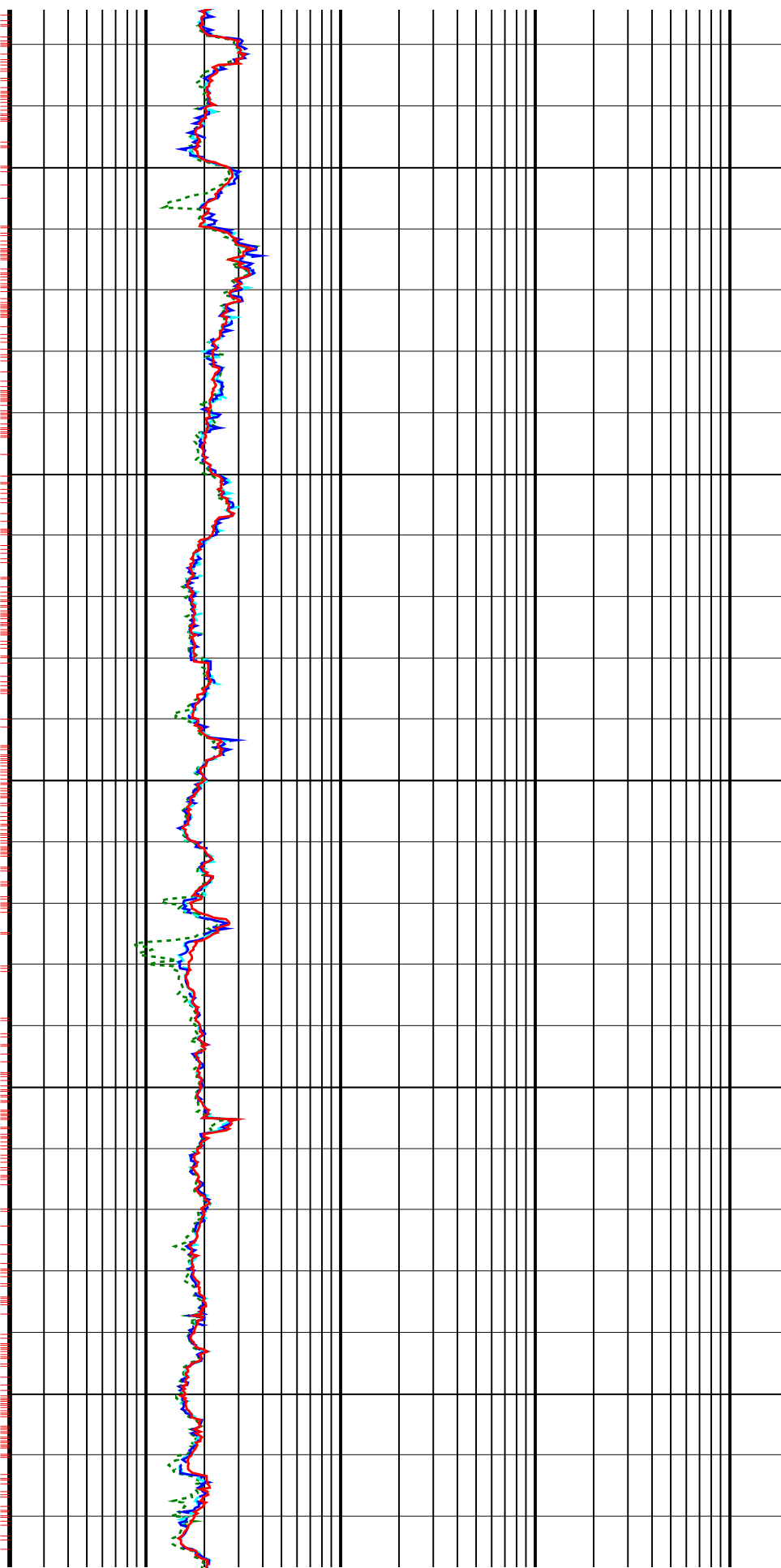


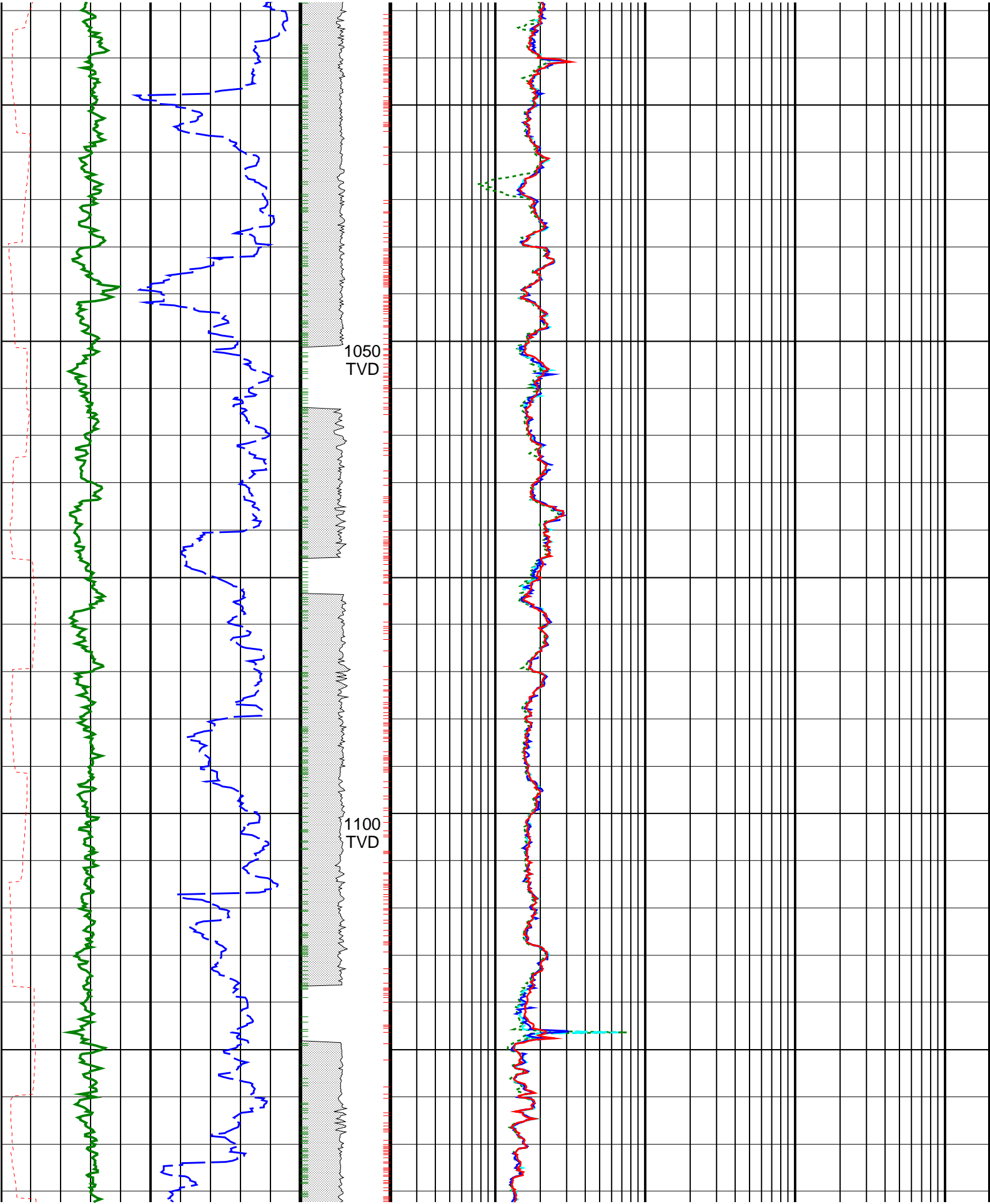


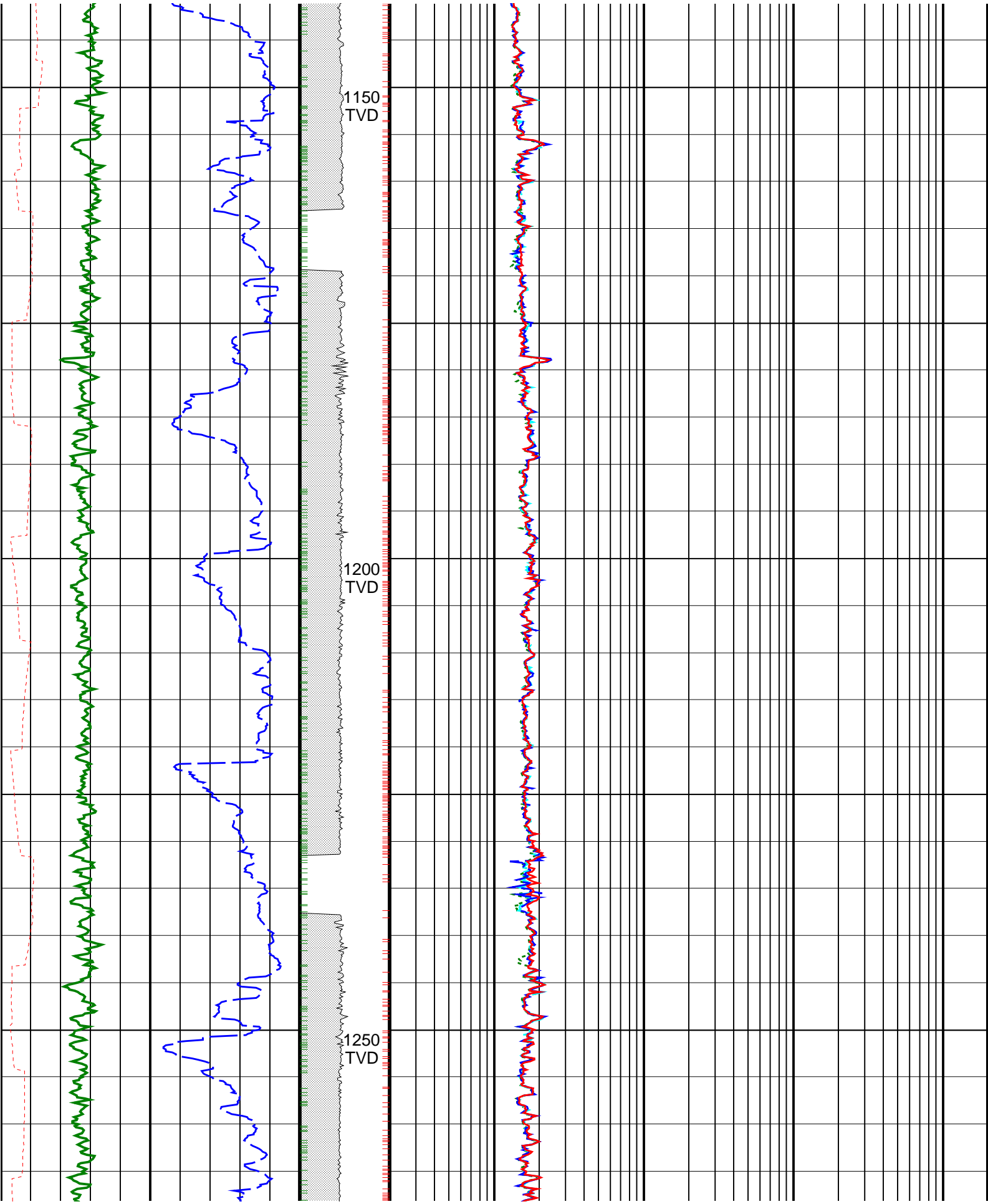
900
TVD

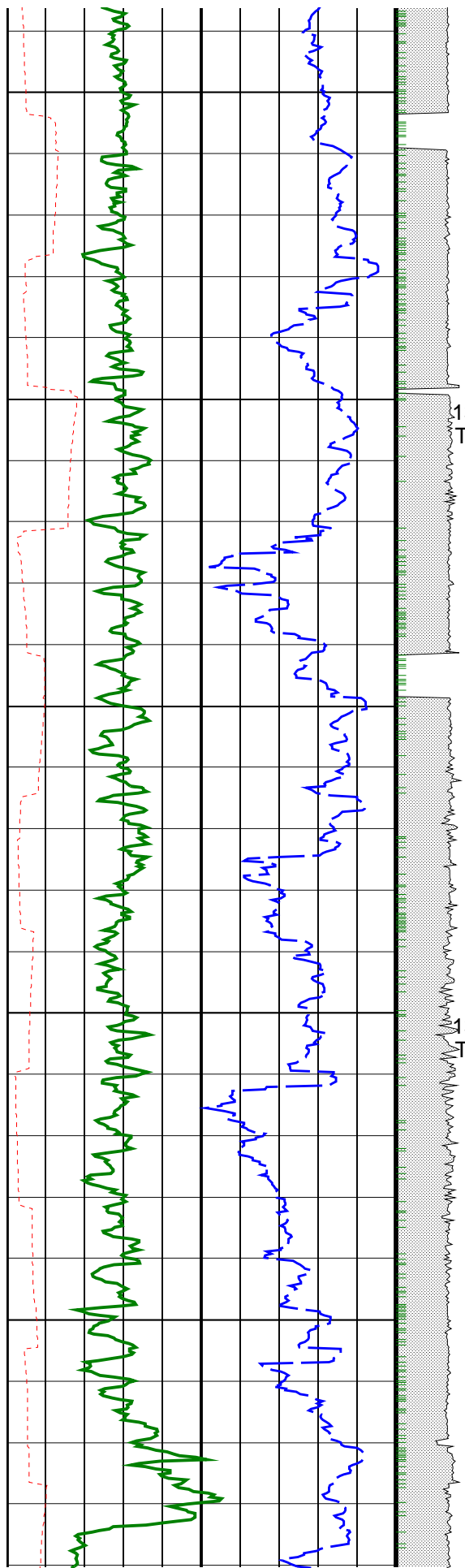
950
TVD

1000
TVD



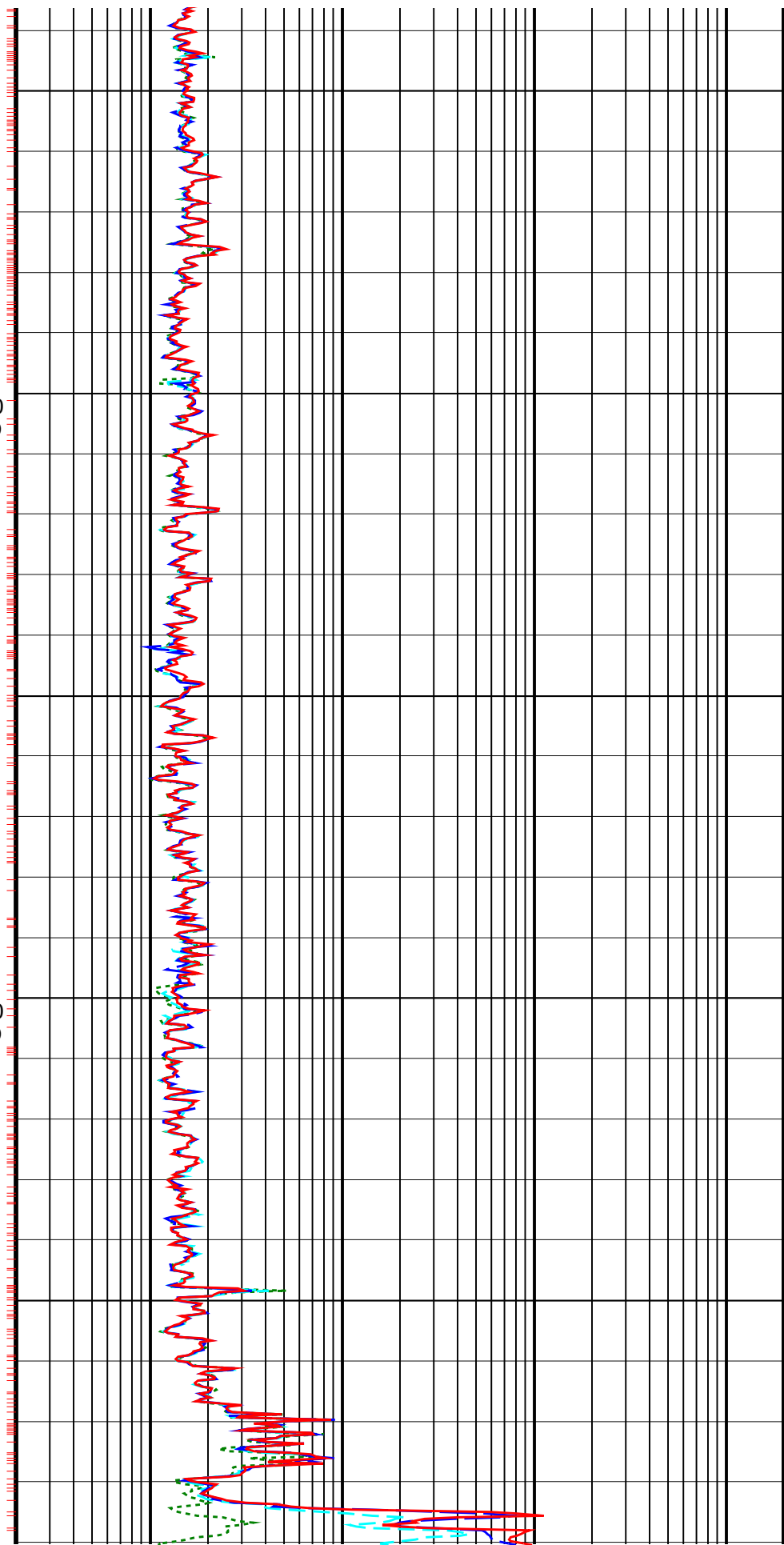


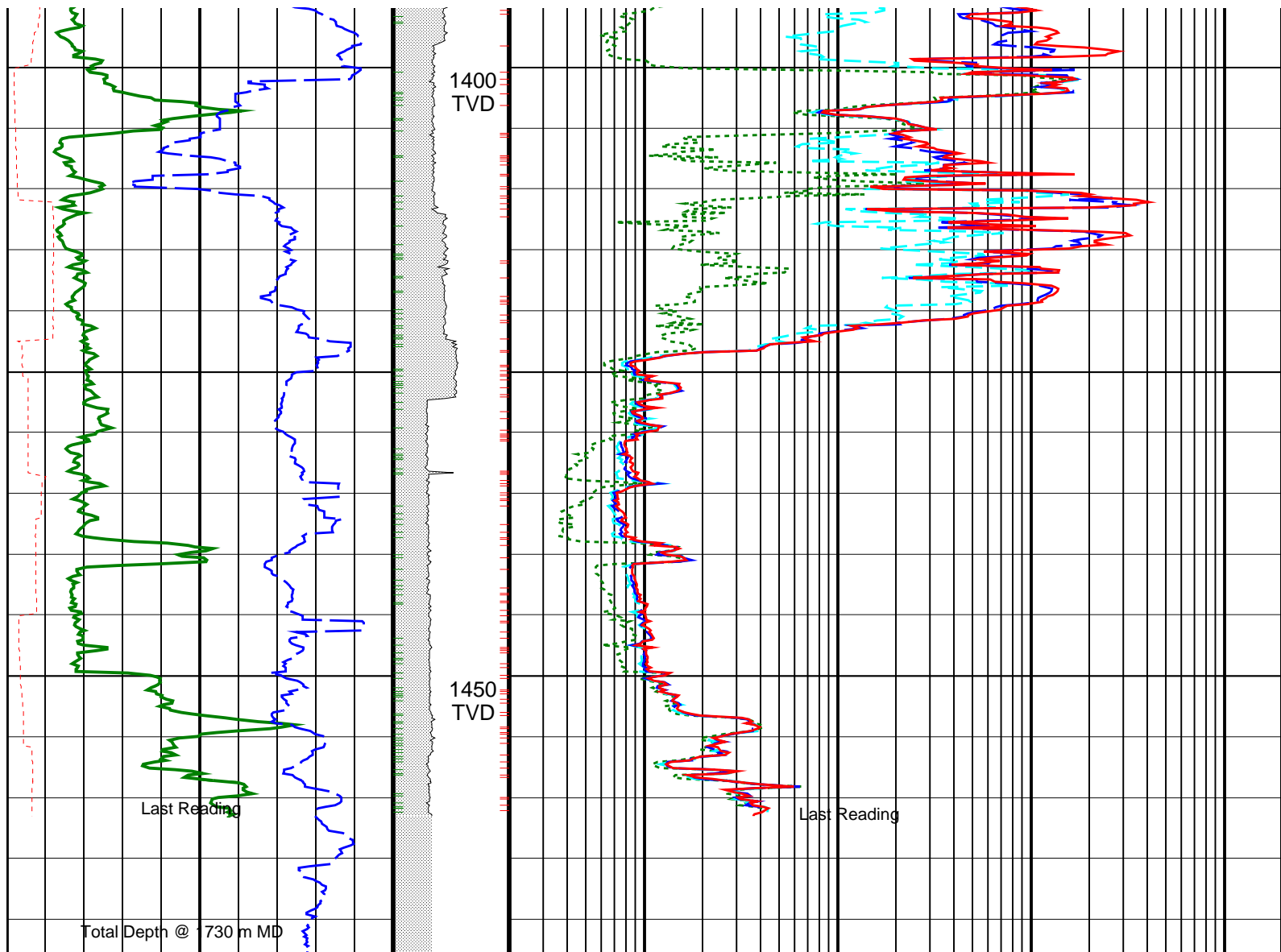




1300
TVD

350
TVD





<div>ROP: 5 Feet Average (ROP5_RM)</div> <div>200 (M/HR) 0</div>		<div>RAB Rotational Speed</div> <div>(RPM_RAB) (RPM)</div> <div>0 200</div>		<div>Shallow Button Resistivity (RES_BS)</div> <div>0.2 (OHMM) 2000</div>	
<div>RAB Gamma Ray (GR_RAB)</div> <div>0 (GAPI) 200</div>				<div>Medium Button Resistivity (RES_BM)</div> <div>0.2 (OHMM) 2000</div>	
<div>Ring Resistivity Time After Bit (TAB_RAB_RING)</div> <div>0 (HR) 10</div>				<div>Deep Button Resistivity (RES_BD)</div> <div>0.2 (OHMM) 2000</div>	
				<div>Ring Resistivity (RES_RING)</div> <div>0.2 (OHMM) 2000</div>	

PIP SUMMARY

- ┤ Gamma Ray Samples
- ┤ Ring Samples

IDEAL Version: ID6_1C_10

IDF

RAB	id6_1c_10	MWD_10	id6_1c_10
ADN	id6_1c_10		



True Vertical Depth Log



6.75-in. Azimuthal Density Neutron / Equipment Identification



Primary Equipment:
Tool Name and Serial Number
Neutron Logging Source
Density Logging Source
Stabilizer Size
Calibration Status



ADN6 – CA
NSR – M
GSR – J/Z
8.25 – in.
Good






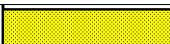
289
161
2125

Master: 5–MAY–2002 12:34									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Magnesium Block									
Phase	LS window 3 – Mg CPS			Value	Phase	SS window 1 – Mg CPS			Value
Master				1304	Master				7415
	250.0 (Minimum)	4125 (Nominal)	8000 (Maximum)			700.0 (Minimum)	9350 (Nominal)	18000 (Maximum)	
						2500 (Minimum)	23750 (Nominal)	45000 (Maximum)	

Master: 5–MAY–2002 12:34									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Aluminum Block									
Phase	LS window 3 – Al CPS			Value	Phase	SS window 1 – Al CPS			Value
Master				201.7	Master				4761
	50.00 (Minimum)	725.0 (Nominal)	1400 (Maximum)			500.0 (Minimum)	4250 (Nominal)	8000 (Maximum)	
						1500 (Minimum)	15750 (Nominal)	30000 (Maximum)	

Master: 5–MAY–2002 12:34									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Background									
Phase	LS window 3 – Background CPS			Value	Phase	SS window 1 – Background CPS			Value
Master				52.44	Master				546.0
	15.00 (Minimum)	82.50 (Nominal)	150.0 (Maximum)			40.00 (Minimum)	220.0 (Nominal)	400.0 (Maximum)	
						150.0 (Minimum)	825.0 (Nominal)	1500 (Maximum)	

Master: 5–MAY–2002 12:34									
6.75-in. Azimuthal Density Neutron Calibration									
Density: Water Block Check									
Phase	Long spacing water density G/C3			Value	Phase	Short spacing water density G/C3			Value
Master				1.035	Master				1.136
	1.011 (Minimum)	1.026 (Nominal)	1.041 (Maximum)			1.093 (Minimum)	1.118 (Nominal)	1.143 (Maximum)	

Master: 5–MAY–2002 12:34									
6.75-in. Azimuthal Density Neutron Calibration									
Neutron: Water Tank									
Phase	Far 1 tube 1 gain			Value	Phase	Far 1 tube 1 offset CPS			Value
Master				1.123	Master				–0.8040
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			–1.200 (Minimum)	–0.9000 (Nominal)	–0.6000 (Maximum)	
Phase	Far 1 tube 2 gain			Value	Phase	Far 1 tube 2 offset CPS			Value
Master				1.054	Master				–0.9360
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			–1.200 (Minimum)	–0.9000 (Nominal)	–0.6000 (Maximum)	
Phase	Far 1 tube 3 gain			Value	Phase	Far 1 tube 3 offset CPS			Value
Master				1.093	Master				–0.6810
	0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)			–1.200 (Minimum)	–0.9000 (Nominal)	–0.6000 (Maximum)	

0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)		-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)	
Phase	Far 2 tube 1 gain	Value		Phase	Far 2 tube 1 offset CPS	Value	
Master		1.114		Master		-0.7390	
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)		-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)	
Phase	Far 2 tube 2 gain	Value		Phase	Far 2 tube 2 offset CPS	Value	
Master		0.9960		Master		-0.9070	
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)		-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)	
Phase	Far 2 tube 3 gain	Value		Phase	Far 2 tube 3 offset CPS	Value	
Master		1.117		Master		-0.7540	
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)		-1.200 (Minimum)	-0.9000 (Nominal)	-0.6000 (Maximum)	
Phase	Near 1 tube 1 gain	Value					
Master		1.091					
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)					
Phase	Near 2 tube 1 gain	Value					
Master		1.070					
0.9000 (Minimum)	1.100 (Nominal)	1.300 (Maximum)					

6.75-in. Resistivity At-the-Bit / Equipment Identification

Primary Equipment:

Tool Name and Serial Number

Calibration Status

RAB6 – CA

136

Good

Master: 1-MAY-2002 20:48

6.75-in. Resistivity At-the-Bit Calibration											
Resistivity: Fixture											
Phase	Ring/T1 factor	Value	Phase	Ring/T2 factor	Value	Phase	M0/T1 factor	Value			
Master		0.9800	Master		0.9890	Master		0.9940			
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)			
Phase	M0/T2 factor	Value	Phase	M2/T1 factor	Value	Phase	M2/T2 factor	Value			
Master		0.9990	Master		0.9960	Master		1.001			
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)			
Phase	BTN shallow/T1 factor	Value	Phase	BTN shallow/T2 factor	Value	Phase	BTN medium/T1 factor	Value			
Master		1.014	Master		1.020	Master		1.017			
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)			
Phase	BTN medium/T2 factor	Value	Phase	BTN deep/T1 factor	Value	Phase	BTN deep/T2 factor	Value			
Master		1.024	Master		1.014	Master		1.020			
0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)	0.9750 (Minimum)	1.000 (Nominal)	1.025 (Maximum)			

Master: 1-MAY-2002 20:48

6.75-in. Resistivity At-the-Bit Calibration		
Gamma Ray: Blanket		
Phase	Gamma ray factor	Value
Master		0.9060
0.7500	1.000	1.250

0.7500
(Minimum)

1.000
(Nominal)

1.250
(Maximum)

ANADRILL

SCHLUMBERGER

Survey report

21-May-2002 22:45:56

Page 1 of 3

Client.....: ESSO AUSTRALIA LTD
Field.....: TUNA

Well.....: WTN W-38 A
API number.....:
Engineer.....: JC/LB/JW
RIG.....: ISDL 453
STATE.....: Victoria

Spud date.....: 17-MAY-02
Last survey date.....: 21-May-02
Total accepted surveys...: 36
MD of first survey.....: 727.80 m
MD of last survey.....: 1730.00 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 PIPE TALLY
GL above permanent.....: -60.26 m
KB above permanent.....: 34.70 m
DF above permanent.....: 34.70 m

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

----- Platform reference point-----
Latitude (+N/S-).....: -3.61 m
Departure (+E/W-).....: 47.09 m

Azimuth from rotary table to target: 265.95 degrees

----- Geomagnetic data -----
Magnetic model.....: BGGM version 2001
Magnetic date.....: 20-Apr-2002
Magnetic field strength..: 1200.71 HCNT
Magnetic dec (+E/W-).....: 13.16 degrees
Magnetic dip.....: -68.71 degrees

----- MWD survey Reference Criteria -----
Reference G.....: 1000.02 mGal
Reference H.....: 1200.71 HCNT
Reference Dip.....: -68.71 degrees
Tolerance of G.....: (+/-) 2.50 mGal
Tolerance of H.....: (+/-) 6.00 HCNT
Tolerance of Dip.....: (+/-) 0.45 degrees

----- Corrections -----
Magnetic dec (+E/W-).....: 13.16 degrees
Grid convergence (+E/W-)..: -0.86 degrees
Total az corr (+E/W-).....: 14.02 degrees
(Total az corr = magnetic dec - grid conv)
Sag applied (Y/N).....: No degree: 0.00

[(c)2002 Anadrill IDEAL ID6_1C_10]
ANADRILL SCHLUMBERGER Survey Report

21-May-2002 22:45:56

Page 2 of 3

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/ 10m)	Srvy tool type	Tool qual type
1	727.80	35.00	244.30	0.00	689.49	139.20	-78.25	-87.17	153.62	228.09	0.91	TIP	-
2	747.80	35.40	249.67	20.00	705.84	150.09	-82.75	-97.77	165.07	229.76	4.70	MWD	6-axis
3	776.56	35.42	252.91	28.76	729.28	166.21	-88.09	-113.55	181.51	232.20	1.96	MWD	6-axis
4	805.18	36.70	255.01	28.62	752.42	182.69	-92.74	-129.74	198.03	234.44	1.87	MWD	6-axis
5	833.73	37.88	256.50	28.55	775.13	199.71	-97.00	-146.51	214.95	236.49	1.56	MWD	6-axis
6	862.72	37.22	258.68	28.99	798.12	217.19	-100.80	-163.76	232.17	238.39	1.54	MWD	6-axis
7	891.61	37.97	262.00	28.89	821.01	234.72	-103.75	-181.13	249.23	240.20	2.22	MWD	6-axis
8	920.64	40.34	266.11	29.03	843.52	253.03	-105.64	-199.35	266.73	242.08	3.65	MWD	6-axis
9	949.70	41.54	270.05	29.06	865.48	272.05	-106.27	-218.38	284.62	244.05	2.94	MWD	6-axis
10	982.75	41.41	275.40	33.05	890.25	293.77	-105.23	-240.22	304.76	246.34	3.22	MWD	6-axis
11	1007.05	40.30	275.57	24.30	908.63	309.45	-103.71	-256.05	319.14	247.95	1.38	MWD	6-axis
12	1036.61	38.12	277.21	29.56	931.53	327.83	-101.64	-274.62	336.31	249.69	2.45	MWD	6-axis
13	1065.48	37.34	277.36	28.87	954.36	345.15	-99.40	-292.14	352.49	251.21	0.82	MWD	6-axis
14	1094.62	38.44	278.38	29.14	977.36	362.66	-96.94	-309.87	368.96	252.63	1.30	MWD	6-axis
15	1123.67	37.67	278.14	29.05	1000.24	380.15	-94.37	-327.59	385.51	253.93	0.81	MWD	6-axis
16	1152.47	38.48	276.87	28.80	1022.91	397.55	-92.05	-345.20	402.13	255.07	1.17	MWD	6-axis
17	1181.11	37.84	277.20	28.64	1045.43	414.92	-89.89	-362.76	418.83	256.08	0.70	MWD	6-axis
18	1209.97	38.87	275.31	28.86	1068.06	432.54	-87.94	-380.56	435.88	256.99	1.62	MWD	6-axis
19	1238.78	39.15	273.45	28.81	1090.45	450.47	-86.56	-398.64	453.38	257.75	1.25	MWD	6-axis
20	1267.65	38.34	273.70	28.87	1112.96	468.38	-85.43	-416.67	470.92	258.41	0.86	MWD	6-axis
21	1296.56	39.55	273.44	28.91	1135.44	486.39	-84.30	-434.81	488.61	259.03	1.27	MWD	6-axis
22	1325.42	39.04	273.18	28.86	1157.78	504.52	-83.24	-453.05	506.44	259.59	0.56	MWD	6-axis
23	1354.65	38.66	275.86	29.23	1180.55	522.65	-81.80	-471.33	524.28	260.15	1.77	MWD	6-axis
24	1383.79	38.34	275.89	29.14	1203.35	540.52	-79.94	-489.37	541.87	260.72	0.33	MWD	6-axis
25	1412.68	37.73	275.91	28.89	1226.11	558.05	-78.11	-507.08	559.16	261.24	0.63	MWD	6-axis
26	1442.31	39.21	275.11	29.63	1249.30	576.22	-76.35	-525.43	577.12	261.73	1.58	MWD	6-axis
27	1470.96	39.08	274.64	28.56	1271.52	594.09	-74.81	-543.45	594.81	262.16	0.34	MWD	6-axis
28	1499.43	39.03	275.70	28.56	1293.63	611.80	-73.19	-561.31	612.37	262.57	0.71	MWD	6-axis
29	1528.19	38.85	275.61	28.76	1316.00	629.61	-71.41	-579.30	630.05	262.97	0.20	MWD	6-axis
30	1557.23	39.69	275.78	29.04	1338.48	647.73	-69.59	-597.59	648.05	263.36	0.87	MWD	6-axis

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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/ 10m)	Srvy tool type	Tool qual type
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#	depth	angle	angle	length	depth	section	+N/S-	+E/W-	displ	Azim	(deg/	tool	qual
-	(m)	(deg)	(deg)	(m)	(m)	(m)	(m)	(m)	(m)	(deg)	10m)	type	type
===	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
31	1586.04	39.26	275.76	28.81	1360.72	665.78	-67.74	-615.81	666.00	263.72	0.45	MWD	6-axis
32	1615.48	38.87	275.66	29.44	1383.58	684.06	-65.90	-634.27	684.21	264.07	0.40	MWD	6-axis
33	1644.11	38.89	275.87	28.63	1405.87	701.77	-64.09	-652.15	701.86	264.39	0.14	MWD	6-axis
34	1673.54	39.10	275.64	29.43	1428.74	720.02	-62.24	-670.58	720.06	265.00	0.23	MWD	6-axis
35	1702.07	39.12	275.30	28.53	1450.88	737.77	-60.52	-688.50	737.78	265.00	0.23	MWD	6-axis
36	1730.00	39.19	275.10	27.93	1472.54	755.17	-58.93	-706.06	755.18	265.23	0.17	Bit	Projection

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Company: Esso Australia Ltd.

Well: WTN W38A

Field: Tuna

Rig: ISDL 453

State: Victoria

IDEAL services from Anadrill

GeoVISION Resistivity
1:500 True Vertical Depth
Recorded Mode Log

Schlumberger