

NE.B. COPY



PROVINCE	NORTHWEST TERRITORIES
FIELD	ARROWHEAD
WELL	ANADARKO ARROWHEAD RIVER
	K-35
COMPANY	ANADARKO CANADA CORPORATION
COMPANY	ANADARKO CANADA CORPORATION
WELL	ANADARKO ARROWHEAD RIVER K-35
FIELD	ARROWHEAD
PROVINCE	NORTHWEST TERRITORIES
DATE	24-FEB-2004
Run No.	TWO
Bot. Driller	2812.0 m
Bot. Logger	2810.1 m
First Reading	2800.9 m
Last Reading	2440.5 m
Meters Meas.	360.4 m
CS9. Driller	2442.7 m
CS9. Logger	2440.5 m
Bit Size	135.6 mm
Fluid Type	POLYMER
Dens. Visc.	1045 47
pH Fluid Loss	11 8.0
Sample Source	FLOWLINE
Rm @ Meas. Temp.	1.2 @ 13 °C
Rmf @ Meas. Temp.	1.1 @ 13 °C
Rmc @ Meas. Temp.	1.4 @ 15 °C
Source Rmf Rmc	0.3 @ 15 °C
Rm @ BHT	125 °C
Rmf @ BHT	N/A
Rmc @ BHT	5.0 HRS
Unit #	387
Location	GRANDE PRAIRIE OH
Recorded By	S. MAXWELL
Witnessed By	H. COMEN
Other Services	SPD2/SPD/CNT/UGR HBC SGR HMT ELEV. K.B. 347.50 m G.L. 541.17 m CBF

All interpretations of log data are opinions based on inferences from electrical or other measurements. We do not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

REMARKS Rig: AKITA 37 Service Order # 30017929
Drilling Stopped 07:45/24 Circulation Stopped 08:30/24 Tool on Bottom 21:15/24 BHT 125 °C
-RUN 1: SPED2/DLL/SPED/CNT/UGR/CAL LOGGED IN COMBINATION.
-RUN 2: HMI/SGR/HBC/CAL LOGGED IN COMBINATION.
-MAX DEVIATION=11.4° @ 2798m, KICKOFF @ 2442m, NO TVD LOGS REQUIRED, JUST DIGITS Prints: 2
-PULLED REPEAT UPHOLE DUE TO HIGH BOTTOM HOLE TEMPS, PULLED 2 REPEATS.

CHANGES IN MUD TYPE OR NEW SAMPLE				SCALE CHANGES			
Date	Sample No.	Type Log	Interval	Scale			
Depth - Driller							
Type Fluid in Hole							
Dens. Visc.							
pH Water Loss							
Source of Sample							
Rm @ Meas. Temp.	@ °C	Run No.	Tool Type	Tool No.	Other		
Rmf @ Meas. Temp.	@ °C	ONE	DLL	108108			
Rmc @ Meas. Temp.	@ °C		UGR	211	RA-20S-335		
Source Rmf Rmc							
Rm @ BHT	@ °C						
Rmf @ BHT	@ °C						
Rmc @ BHT	@ °C						

REMARKS

MAIN PASS
1:600 SCALE
CONDUCTIVITY PRESENTATION

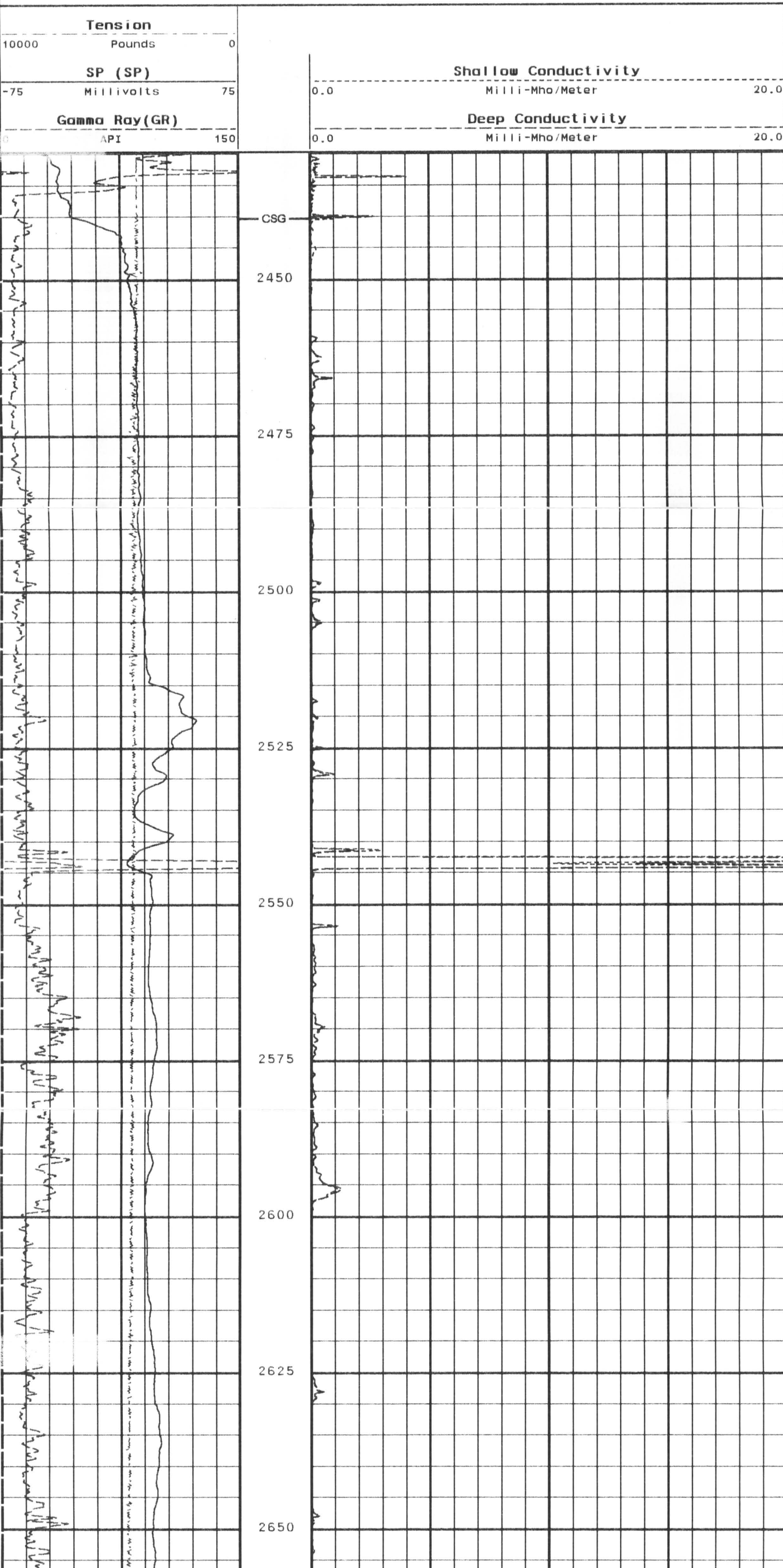
DEPTH SCALE: 1:600

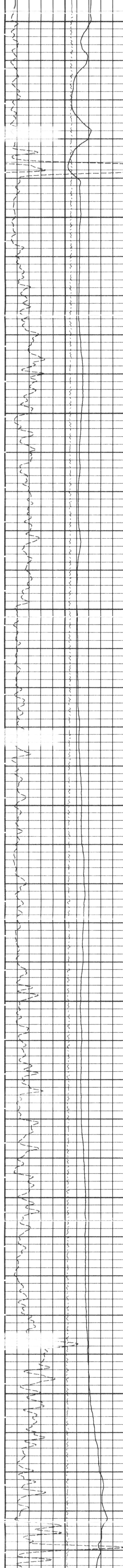
VERSION: 2003.07.25.245

MAIN PASS

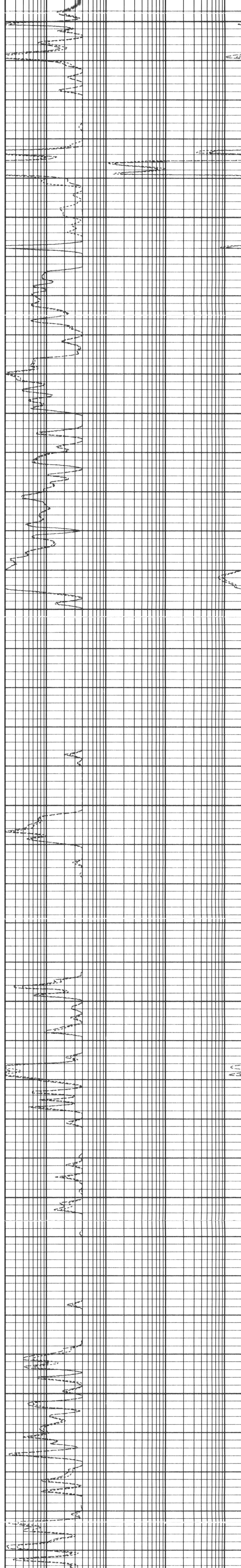
30017929 SPDMP

FINISH DEPTH: 0.0 Meters DIRECTION: UP DATE: TIME: MODE: TRACE PLAYBACK





2525



2550

2575

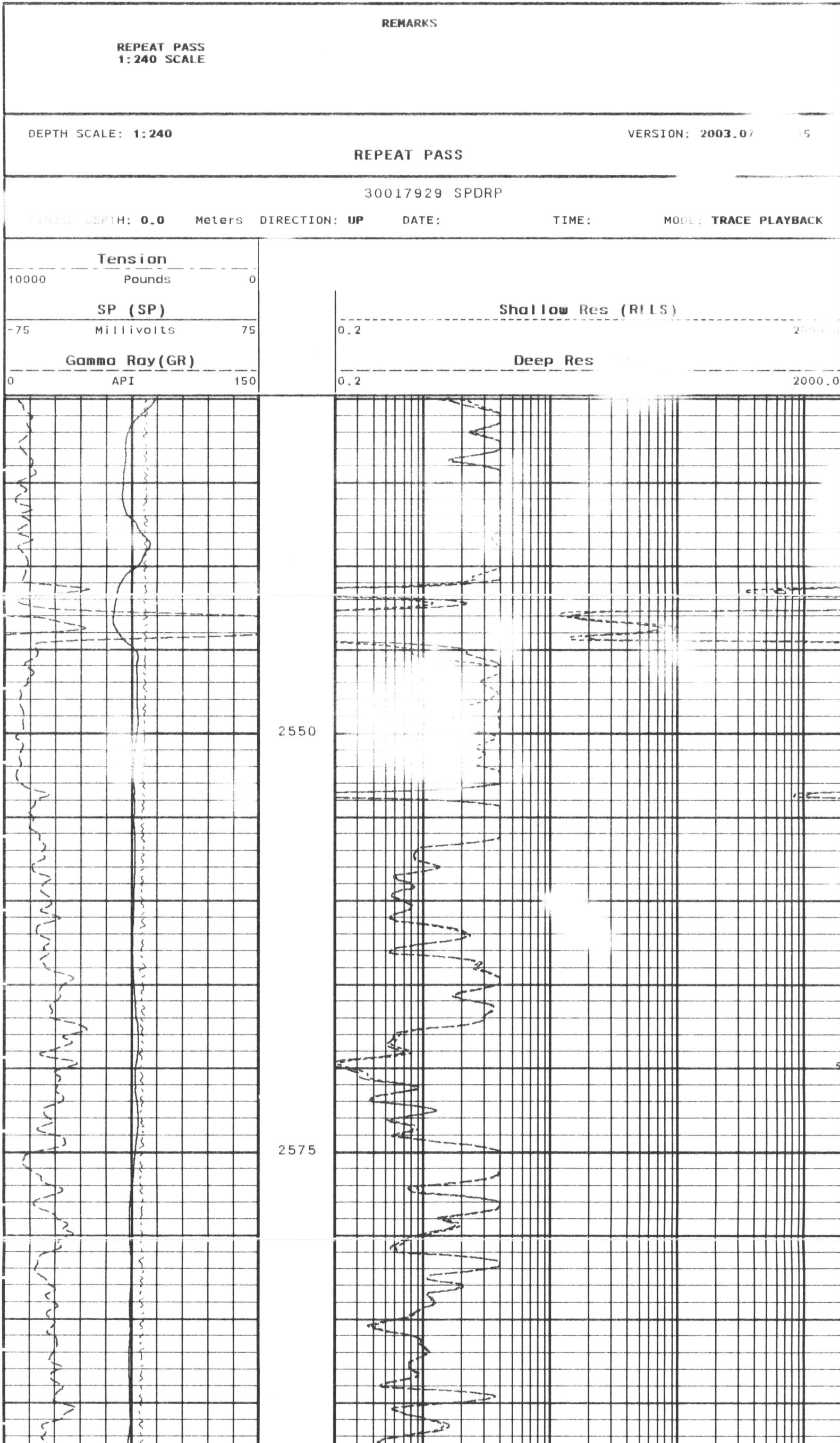
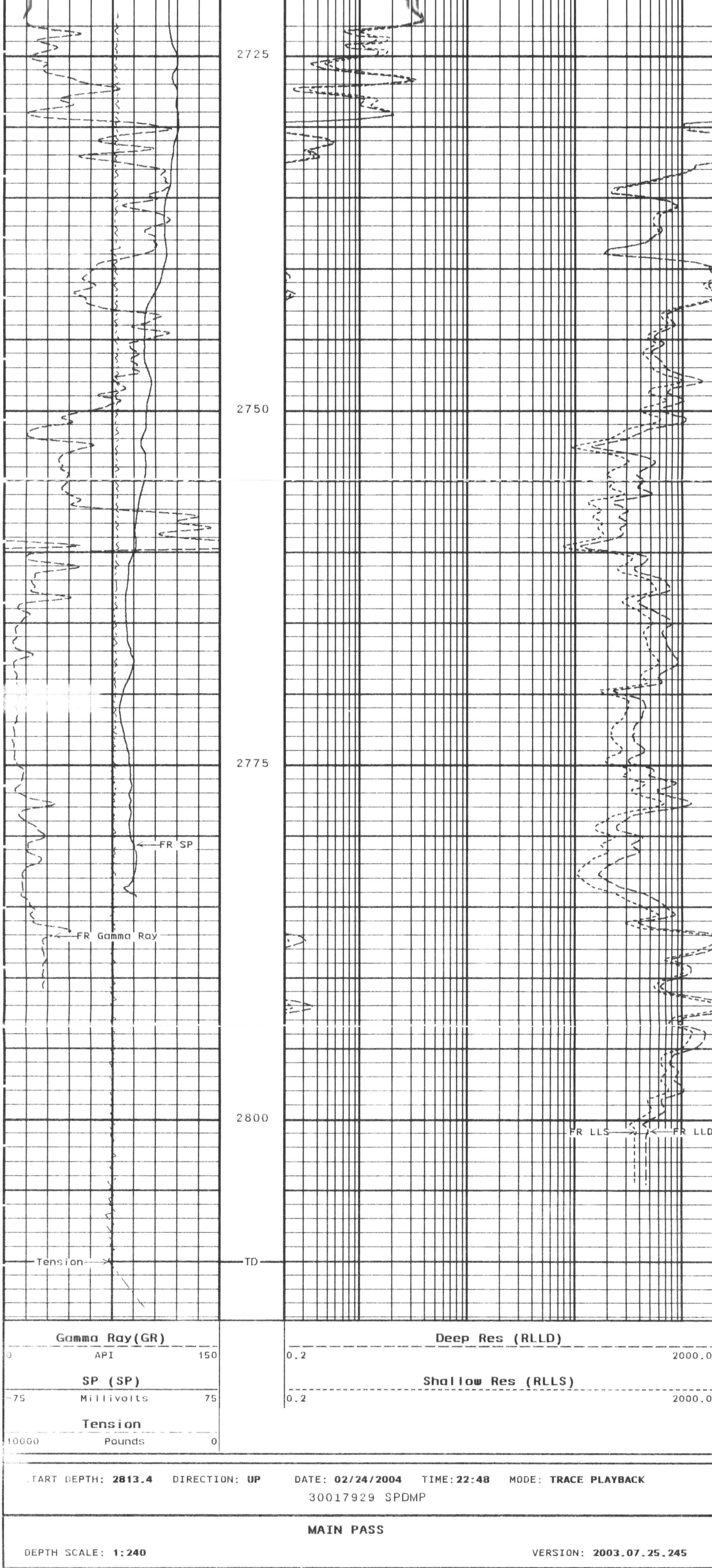
2600

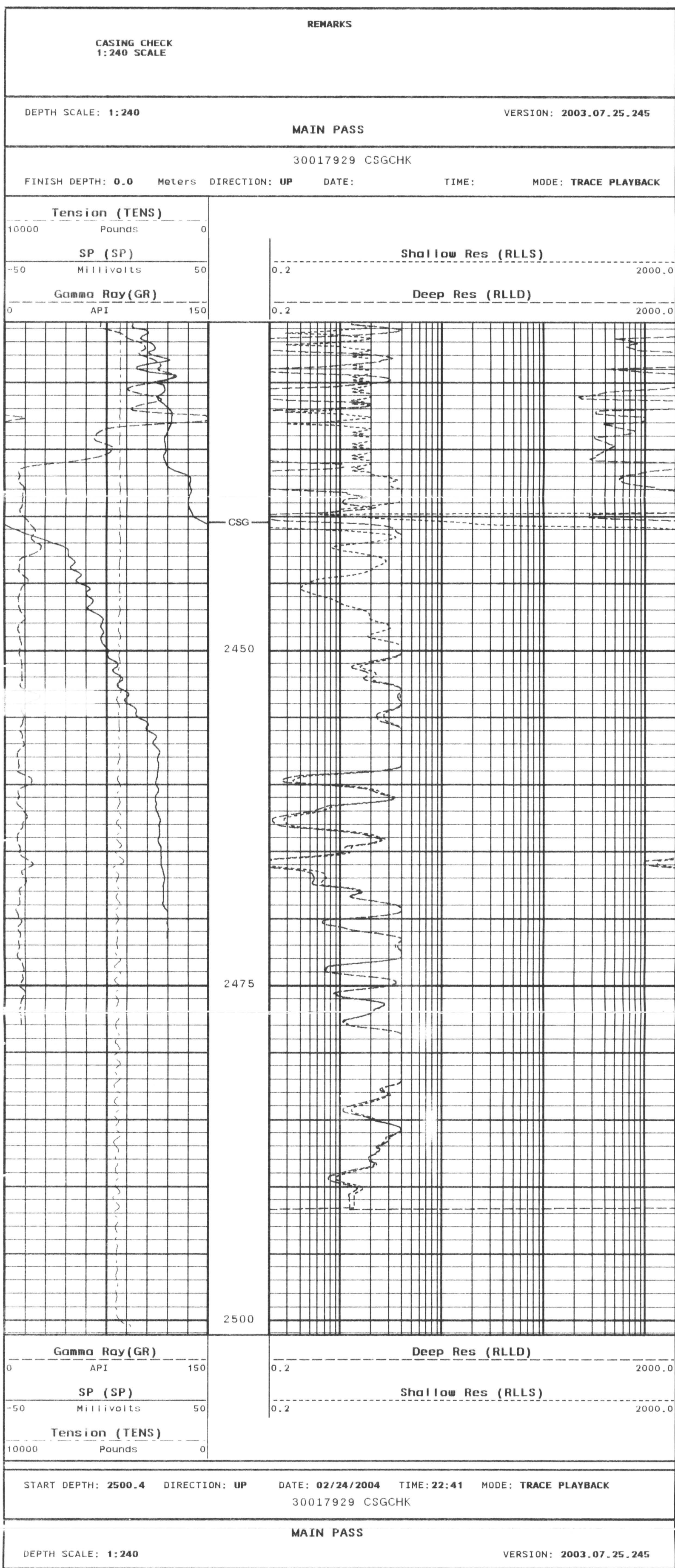
2625

2650

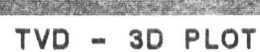
2675

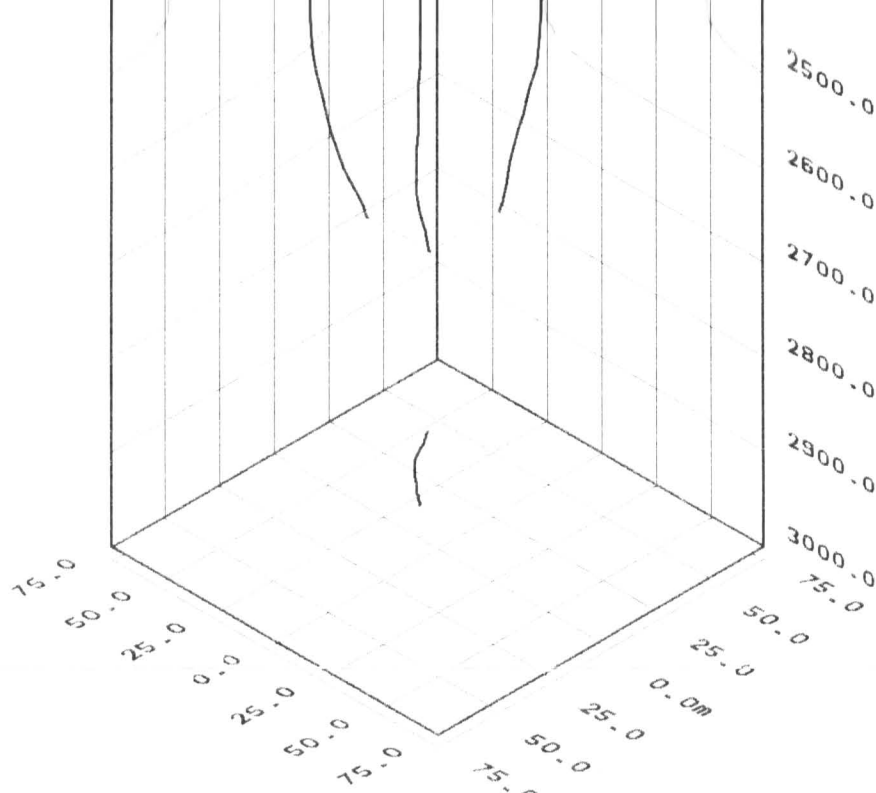
2700





TVD CALCULATION SUMMARY





Company	- ANADARKO CANADA CORPORATION	Drilled Depth	- 2812.24
Well	- ANADARKO ARROWHEAD RIVER K-35	True Vertical Depth	- 2809.14
Location	- K-35	Bottom Hole Displacement	- N 43.48 m W 47.77 m
Date	- FEBRUARY 24, 2004	Target Displacement	- N 0.00 m E 0.00 m

02/24/04 15:30 0.0 M Ver 30725245 Job 30017929

Gamma Ray Before Survey Calibration

Tool Type: UGR-JA Serial No: UGRJ211
Calibrator No: RA-20S-335

Background	Calibrator	Standard	Units
118.2	739.0	140.0	API
Delta Counts Per Sec: 620.8		CPS/API = 4.434	

02/24/04 22:53 2634.0 M Ver 30725245 Job 30017929

Dual Laterolog Before Survey Calibration

Tool Type: DLT-HA Sonde Serial # DLSH108
Electronics Serial # DLCH108

100 OHM Cal

	Measured	Calibrated	Units
LLD	96.0	100.0	ohm
LLS	95.5	100.0	ohm

REFERENCE DATA

	LLD	LLS	Units
Calibration Ratio	1.042	1.047	
Voltage	110.5 *	100.3	mV
Current	1.151 *	1.050	mA
Phase Error	0.0	-2.1	DEG
Frequency Error	1.000	N/A	

	DAC mV Readings			Electrode Readings		
	LLD	LLS	Units	LLD	LLS	Unit
Channel Offsets V(0)	-0.4	-0.5	mV	-0.029	-0.037	mV
Channel Offsets V(90)	-0.5	-0.5	mV	-0.031	-0.032	mV
Channel Offsets I(0)	0.1	-0.0	mV	0.049	-0.016	uA
Channel Offsets I(90)	0.0	0.0	mV	0.019	0.013	uA
0 Phase V(0)	1590.7	1444.1	mV	110.427	100.245	mV
0 Phase V(90)	-1.9	-52.2	mV	-0.129	-3.623	mV
0 Phase I(0)	1346.6	1229.0	mV	1150.697	1050.174	uA
0 Phase I(90)	23.5	-35.1	mV	20.095	-29.954	uA
90 Phase V(0)	-5.9	N/A	mV	-0.409	N/A	mV
90 Phase V(90)	1590.0	N/A	mV	110.374	N/A	mV
90 Phase I(0)	-29.1	N/A	mV	-24.851	N/A	uA
90 Phase I(90)	1347.5	N/A	mV	1151.492	N/A	uA

02/25/04 00:01 2493.0 M Ver 30725245 Job 30017929

Dual Laterolog After Survey Calibration

Tool Type: DLT-HA Sonde Serial # DLSH108
Electronics Serial # DLCH108

100 OHM Cal

	Before	After	Units
LLD	96.0	95.9	ohm
LLS	95.5	95.3	ohm

REFERENCE DATA

	LLD	LLS	Units
Calibration Ratio	1.043	1.049	
Voltage	1.0	1.0	mV
Current	0.998	1.005	mA
Phase Error	0.0	-2.3	DEG
Frequency Error	1.000	N/A	

	Difference Data			Electrode Readings		
	DAC mV Readings	LLS	Units	LLD	LLS	Unit
Channel Offsets V(0)	0.0	0.0	mV	0.002	0.001	mV
Channel Offsets V(90)	0.0	0.0	mV	0.000	0.000	mV
Channel Offsets I(0)	0.0	0.0	mV	0.019	0.001	uA
Channel Offsets I(90)	0.0	0.0	mV	0.007	0.011	uA
0 Phase V(0)	0.6	8.7	mV	0.038	0.602	mV
0 Phase V(90)	5.1	6.7	mV	0.354	0.463	mV
0 Phase I(0)	2.0	5.5	mV	1.716	4.735	uA
0 Phase I(90)	5.1	5.7	mV	4.326	4.863	uA
90 Phase V(0)	4.2	N/A	mV	0.3	N/A	mV
90 Phase V(90)	1.5	N/A	mV	0.1	N/A	mV
90 Phase I(0)	2.8	N/A	mV	2.4	N/A	uA
90 Phase I(90)	3.2	N/A	mV	2.7	N/A	uA

	After Data			Electrode Readings		
	DAC mV Readings	LLS	Units	LLD	LLS	Unit
Channel Offsets V(0)	-0.4	-0.5	mV	-0.031	-0.037	mV
Channel Offsets V(90)	-0.5	-0.5	mV	-0.032	-0.032	mV
Channel Offsets I(0)	0.0	-0.0	mV	0.030	-0.016	uA
Channel Offsets I(90)	0.0	0.0	mV	0.012	0.001	uA
0 Phase V(0)	1591.3	1435.4	mV	110.465	99.643	mV
0 Phase V(90)	3.2	-58.9	mV	0.225	-4.085	mV
0 Phase I(0)	1348.6	1223.4	mV	1152.413	1045.438	uA
0 Phase I(90)	28.6	-40.7	mV	24.421	-34.817	uA
90 Phase V(0)	-1.7	N/A	mV	-0.1	N/A	mV
90 Phase V(90)	1591.5	N/A	mV	110.5	N/A	mV
90 Phase I(0)	-26.2	N/A	mV	-22.4	N/A	uA
90 Phase I(90)	1350.7	N/A	mV	1154.2	N/A	uA

	Before Data			Electrode Readings		
	DAC mV Readings	LLS	Units	LLD	LLS	Unit
Channel Offsets V(0)	-0.4	-0.5	mV	-0.029	-0.037	mV
Channel Offsets V(90)	-0.5	-0.5	mV	-0.031	-0.032	mV
Channel Offsets I(0)	0.1	-0.0	mV	0.049	-0.016	uA
Channel Offsets I(90)	0.0	0.0	mV	0.019	0.013	uA
0 Phase V(0)	1590.7	1444.1	mV	110.427	100.245	mV
0 Phase V(90)	-1.9	-52.2	mV	-0.129	-3.623	mV
0 Phase I(0)	1346.6	1229.0	mV	1150.697	1050.174	uA
0 Phase I(90)	23.5	-35.1	mV	20.095	-29.954	uA
90 Phase V(0)	-5.9	N/A	mV	-0.4	N/A	mV
90 Phase V(90)	1590.0	N/A	mV	110.4	N/A	mV
90 Phase I(0)	-29.1	N/A	mV	-24.9	N/A	uA
90 Phase I(90)	1347.5	N/A	mV	1151.5	N/A	uA

O.H. Adaptor Head

Weight 18.0 kg
Length 0.74 m
Max. Diameter 8.9 cm
Total Stack Weight 655.9 kg in air
Total Stack Length 29.11 m

Crossover

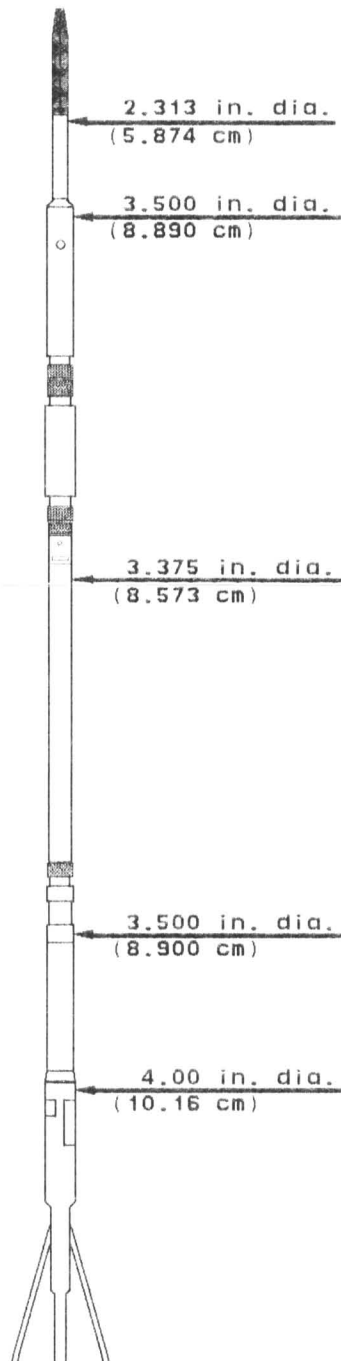
Weight 6.8 kg
Length 0.27 m

Wireline Communications Cartridge

Weight 53.6 kg
Length 2.31 m
Max. Diameter 8.6 cm

2-Arm Caliper

Weight 79.4 kg
Length 2.40 m
Max. Diameter 10.2 cm



Caliper 23.86 m

Universal GR

Weight 37.3 kg
Length 1.40 m
Max. Diameter 8.6 cm

GR 22.99 m

3.375 in. dia.
(8.573 cm)

Mandrel Neutron

Weight 45.4 kg
Length 2.07 m
Max. Diameter 8.6 cm

3.375 in. dia.
(8.573 cm)

LS cps
PHIN 20.66 m
SS cps

Mass Isolator

Weight 19.0 kg
Length 0.81 m
Max. Diameter 8.6 cm

3.375 in. dia.
(8.573 cm)

SPeD 400 Electronics

Weight 56.7 kg
Length 2.92 m
Max. Diameter 8.6 cm

3.375 in. dia.
(8.573 cm)

SPeD 400 Pad Section

Weight 141.5 kg
Length 3.38 m
Max. Diameter 11.4 cm

3.67 in. dia.
(9.32 cm)

4.19 in. dia.
(10.64 cm)

LS cps/PE

PHID 0.68 m

SS cps/PE

Caliper 0.66 m

Dual Laterolog

Weight _____
Length _____
Max. Diameter _____

3.500 in. dia.
(8.890 cm)

3.500 in. dia.
(8.890 cm)

LLD/LLS

SPeD 400 Electronics

Weight 56.7 kg
Length 2.92 m
Max. Diameter 8.6 cm

3.375 in. dia.
(8.573 cm)

SPeD 400 Pad Section

Weight 141.5 kg
Length 3.38 m
Max. Diameter 11.4 cm

3.67 in. dia.
(9.32 cm)

4.19 in. dia.
(10.64 cm)

LS cps/PE

PHID 13.47 m

SS cps/PE

Caliper 13.45 m

Tool Zero

COMPANY ANADARKO CANADA CORPORATION

WELL ANADARKO ARROWHEAD RIVER K-35

FIELD ARROWHEAD PROVINCE N.W.T.

PRECISION
Wireline Technologies

