

SP		DLOD			
-110C+		<+KG			
GAMMA		TENS		MSFL	
0	GAPI	150	<+KG	.2	OHMM 2000
CALIPER		BHV		SHALLOW RES	
10	INCHES	20	>M3>	.2	OHMM 2000
BIT SIZE		AHV		DEEP RES	
10	INCHES	20	<M3<	.2	OHMM 2000
				140	US/F 40

UPLOG	#	1	Depth:	1248.90	Service:none.	Unit:95122
Replay	Log Date:		Time:		Vers:2.24	

GAMMA RAY TOOL SHOP CALIBRATION SUMMARY
PERFORMED: 22:22:30 11/ 3/92 LAST SHOP CALIBRATION: 17:37:39 08/ 8/92
SERIAL NUMBER: 114401 MODEL: NGRT-A
TRUCK UNIT NUMBER: 10598 PROGRAM VERSION: 2.24
PERFORMED BY: L. JONES

	MEASURED	CALIBRATED	UNITS
BACKGROUND	5	5	GAPI
BACKGROUND+CALIBRATOR	229	226	GAPI
CALIBRATOR	223	221	GAPI

GAMMA RAY TOOL BEFORE SURVEY FIELD CHECK SUMMARY
PERFORMED: 00:09:48 11/ 7/92 LAST SHOP CALIBRATION: 22:22:30 11/ 3/92

	SHOP	FIELD	UNITS
BACKGROUND	5	5	GAPI
BACKGROUND+CALIBRATOR	226	223	GAPI
CALIBRATOR	221	217	GAPI

GAMMA RAY TOOL AFTER SURVEY FIELD CHECK SUMMARY
PERFORMED: 12:18:25 11/ 7/92 LAST SHOP CALIBRATION: 22:22:30 11/ 3/92

	BEFORE	AFTER	UNITS
BACKGROUND	5	6	GAPI
BACKGROUND+CALIBRATOR	223	224	GAPI
CALIBRATOR	217	218	GAPI

DITS DUAL LATEROLOG SHOP CALIBRATION SUMMARY
PERFORMED: 03:16:04 11/ 6/92 LAST SHOP CALIBRATION: 03:00:59 11/ 6/92
SERIAL NUMBER: B022 MODEL: DLLT-A
TRUCK UNIT NUMBER: 10598 PROGRAM VERSION: 2.24
PERFORMED BY: L. JONES

	DEEP MEASURED	DEEP CALIBRATED	SHALLOW MEASURED	SHALLOW CALIBRATED	UNITS
EXT. CAL. POINT #	1.04	1.04	0.98	1.00	OHM-M
EXT. CAL. POINT #	10.66	10.68	9.81	9.80	OHM-M
EXT. CAL. POINT #	1540.06	1541.79	1030.09	1019.96	OHM-M
EXT. CAL. POINT #	118.94	119.13	99.65	99.31	OHM-M
INTERNAL REFERENCE	19.53	19.56	19.71	19.67	OHM-M

DITS DUAL LATEROLOG BEFORE SURVEY FIELD CHECK SUMMARY
PERFORMED: 05:41:31 11/ 7/92 LAST SHOP CALIBRATION: 03:16:04 11/ 6/92

	DEEP LATEROLOG SHOP	DEEP LATEROLOG FIELD	SHALLOW LATEROLOG SHOP	SHALLOW LATEROLOG FIELD	UNITS
INTERNAL:	19.56	19.54	19.67	19.77	OHM-M

DITS DUAL LATEROLOG AFTER SURVEY FIELD CHECK SUMMARY
PERFORMED: 11:10:21 11/ 7/92 LAST SHOP CALIBRATION: 03:16:04 11/ 6/92

	DEEP LATEROLOG AFTER	DEEP LATEROLOG BEFORE	SHALLOW LATEROLOG AFTER	SHALLOW LATEROLOG BEFORE	UNITS
INTERNAL	19.52	19.54	19.76	19.77	OHM-M

MICRO GUARD SHOP CALIBRATION SUMMARY
PERFORMED: 01:44:56 11/ 6/92 LAST SHOP CALIBRATION: 01:41:19 11/ 6/92
SERIAL NUMBER: A026 MODEL: M320
TRUCK UNIT NUMBER: 10598 PROGRAM VERSION: 2.24
PERFORMED BY: L. JONES

	MEASURED	CALIBRATED	UNITS
EXT. CAL. POINT #1	0.20	0.20	OHM-M
EXT. CAL. POINT #2	20.04	20.00	OHM-M
EXT. CAL. POINT #3	1944.40	2000.00	OHM-M
INTERNAL REFERENCE	19.99	19.98	OHM-M

MICRO GUARD BEFORE SURVEY FIELD CHECK SUMMARY
PERFORMED: 05:42:55 11/ 7/92 LAST SHOP CALIBRATION: 01:44:56 11/ 6/92

	SHOP	FIELD	UNITS
INT REF	19.98	20.13	OHM-M

MICRO GUARD AFTER SURVEY FIELD CHECK SUMMARY
PERFORMED: 11:11:30 11/ 7/92 LAST SHOP CALIBRATION: 01:44:56 11/ 6/92

	BEFORE	AFTER	UNITS
INT REF.	20.13	20.12	OHM-M

MSFL/MEL CALIPER SHOP CALIBRATION SUMMARY
PERFORMED: 03:35:47 11/ 6/92 LAST SHOP CALIBRATION: 03:33:50 11/ 6/92
SERIAL NUMBER: A026 MODEL: M320
TRUCK UNIT NUMBER: 10598 PROGRAM VERSION: 2.24
PERFORMED BY: L. JONES

	MEASURED	CALIBRATED	UNITS
VALUE 1	8.073	8.000	INCH
VALUE 2	15.008	15.000	INCH

MSFL/MEL CALIPER BEFORE SURVEY FIELD CHECK SUMMARY
PERFORMED: 03:36:24 11/ 7/92 LAST SHOP CALIBRATION: 03:35:47 11/ 6/92

	SHOP	FIELD	UNITS
VALUE 1	8.000	7.999	INCH

MSFL/MEL CALIPER AFTER SURVEY FIELD CHECK SUMMARY
PERFORMED: 12:57:41 11/ 7/92 LAST SHOP CALIBRATION: 03:35:47 11/ 6/92

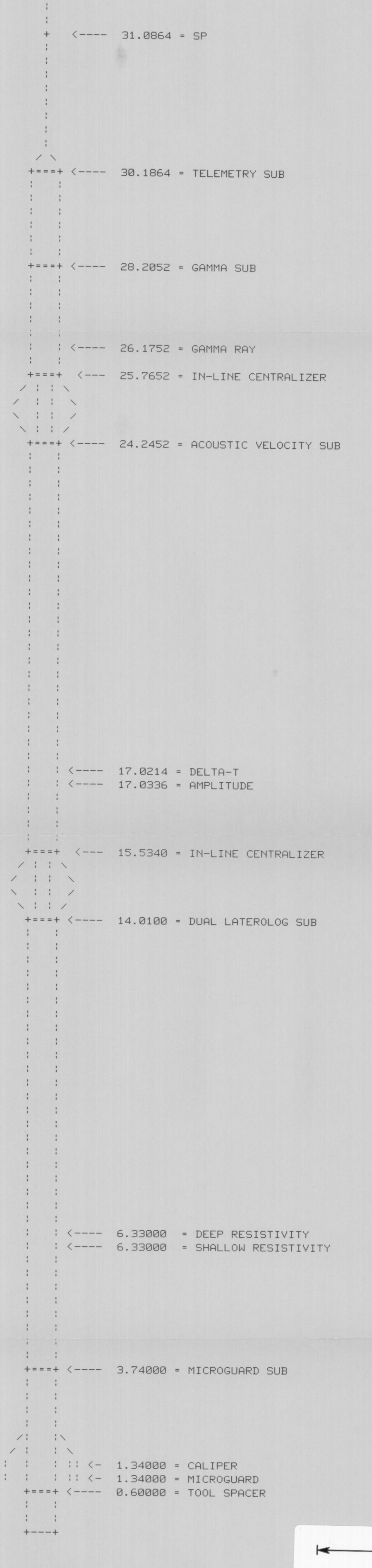
	BEFORE	AFTER	UNITS
VALUE 1	7.999	7.621	INCH

SERVICE or SIGNAL	SHOP	BEFORE	AFTER	CHANGE	TOLERANCE
GAMMA	221	217	218	0	+/- 9.0
DEEP LATEROLOG:	19.560	19.543	19.525	0.018	+/- 0.8
SHALLOW LATEROLOG:	19.674	19.768	19.758	0.010	+/- 0.8
MICROGUARD	19.975	20.125	20.123	0.002	+/- 0.8
CALIPER VALUE 1	8.000	7.999	7.621	0.378	+/-0.5

HLS

PLS-II TOOL STRING DIAGRAM

11-JAN-1993 10:28:00



5 cm

PLS-II FILTER & DELAY SUMMARY

FILTER & DELAY SUMMARY

DATE: 11-JAN-1993 10:29:06

FILTER LENGTH AND DELAY ARE IN METERS

MNEM	TOOL	DESCRIPTION	FILTER LENGTH	DELAY	FILTER TYPE
TENS	DITSHD	CABLE TENSION	0.000	0.000	BLOCK
MAGMRK	DITSHD	DEPTH PANEL MAGNETIC MARK	0.000	0.000	NONE
DLOD	CH_TEN	CABLE HEAD TENSION	0.000	0.000	BLOCK
BHTEMP	CH_TEN	CH BORE HEAD TEMPERATURE	0.000	0.000	BLOCK
BLOC	CH_TEN	CABLE HEAD PAD LOCATOR	0.000	0.000	BLOCK
SP	BRID_R	SPONTANEOUS POTENTIAL	0.000	31.086	BLOCK
W2_V	DSTU	AUXILIARY POWER VOLTAGE	0.000	0.000	NONE
W5_V	DSTU	INSTRUMENT POWER VOLTAGE	0.000	30.035	BLOCK
DSTEMP	DSTU	DSTU TEMPERATURE (F)	0.500	26.175	BLOCK
RGR	GAMMA	NATURAL GAMMA RAY	0.000	17.402	NONE
FNOISE	FWST2	NEAR RECEIVER NOISE	0.000	17.402	NONE
TT_N	FWST2	NEAR TRAVEL TIME	0.000	19.155	NONE
TT_F	FWST2	NEAR TRAVEL TIME	0.000	19.003	NONE
GAIN_N	FWST2	NEAR RECEIVER GAIN	0.000	17.402	NONE
GAIN_F	FWST2	NEAR RECEIVER GAIN	0.000	17.402	NONE
DT	FWST2	DELTA T COMPRESSIVE	0.400	17.021	TRIANGLE
DT_UNF	FWST2	DELTA T UNFILTERED	0.000	17.021	NONE
DT_2FT	FWST2	DELTA T SIM 2 FT SPACING	0.700	17.021	TRIANGLE
DT_RCV	FWST2	DELTA T AT RECEIVER	0.000	17.479	NONE
DT_XMT	FWST2	DELTA T AT TRANSMITTER	0.000	17.479	NONE
DT_Q	FWST2	DELTA T QUALITY	0.000	17.402	NONE
PKCODE	FWST2	PICK CODE	0.000	17.402	NONE
ALPHA	FWST2	ALPHA	0.000	17.402	NONE
ERROR	FWST2	ERROR	0.000	17.402	NONE
DTS	FWST2	DELTA T SHEAR	0.400	17.021	TRIANGLE
MSG_SG	FWST2	MSG SHEAR GAIN	0.000	15.991	NONE
MSGGAI	FWST2	MSG GAIN	0.000	17.021	NONE
MSGRCV	FWST2	MSG RECEIVER	0.000	17.021	NONE
AMPL	FWST2	AMPLITUDE	0.533	17.034	BLOCK
WF1A	FWST2	FWST RECEIVER 1 WAVEFORM	0.000	17.287	NONE
WF2A	FWST2	FWST RECEIVER 2 WAVEFORM	0.000	17.287	NONE
SHVE	DLLT	LATEROLOG SHALLOW VE	0.500	6.330	BLOCK
SHIA	DLLT	LATEROLOG SHALLOW IA	0.500	6.330	BLOCK
DPVE	DLLT	LATEROLOG DEEP VE	0.500	6.330	BLOCK
DPIA	DLLT	LATEROLOG DEEP IA	0.500	6.330	BLOCK
VOICDT	DLLT	DUAL LATEROLOG	0.500	6.330	BLOCK
VOCDE	DLLT	DUAL LATEROLOG	0.500	6.330	BLOCK
MCVEUF	MICRD	MICRO GUARD VE UNFILTERED	0.000	1.340	NONE
MCIA	MICRD	MICRO GUARD IA	0.000	1.340	NONE
MCIAUF	MICRD	MICRO GUARD IA UNFILTERED	0.000	1.340	NONE
CALIP	CALI_2	MSFL CALIPER	0.300	1.340	BLOCK