WESTERN ATLAS

DUAL INDUCTION FOCUSED LOG
GAMMA RAY LOG

FILE NO:
API NO:

COMPANY	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL	LAB-IW
FIELD	CALOOSAHATCHEE RIVER
COUNTY	HENDRY
STATE	FLORIDA

LOCATION:
NE/4
SEC 12 TWP 43S RGE 28E

OTHER SERVICES
DAL/GR
ZDL/CN/GR
X-Y CALIPER
TEMP/FLOWMETER

PERMANENT DATUM GL ELEVATION 15 FT
LOG MEASURED FROM GL 0 FT ABOVE P.D.
DRILL. MEAS. FROM GL

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE	06-MAR-97			
RUN	1			
SERVICE ORDER	190219			
DEPTH DRILLER	1100 FT			
DEPTH LOGGER	1093 FT			
BOTTOM LOGGED INTERVAL	1091 FT			
TOP LOGGED INTERVAL	204 FT			
CASING - DRILLER	24 IN	@204 FT		@
CASING LOGGER	204 FT			
BIT SIZE	9.875 IN			
TYPE OF FLUID IN HOLE	FW			
DENSITY / VISCOSITY	8.3 LB/G			
PH / FLUID LOSS	7.2			
SOURCE OF SAMPLE	FLOWLINE			
RM AT MEAS. TEMP.	3.02 OHMM	@75 DEGF		@
RMF AT MEAS. TEMP.	N/A	@75 DEGF		@
RMC AT MEAS. TEMP.	N/A	@75 DEGF		@
SOURCE OF RMF / RMC.	CALC.	CALC.		
RM AT BHT	—	@< 100		@
TIME SINCE CIRCULATION	2 HRS.			
MAX. RECORDED TEMP.	< 100 DEGF			
EQUIP. NO. / LOCATION	HL 6561	LAUREL, MS		
RECORDED BY	R. EMMETT			
WITNESSED BY	M. BENNETT			

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IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO
9.875	204	1100

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
24			0	204

REMARKS

RUN 1:

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	DIFL	1503XA	072845	1.5" S.O.
1	1	GR	1329XA	172724	FREE
1	1	COMR	3510XA	168585	FREE
1	1	SLAM	3516XA	172577	FREE

MAIN LOG 1"/100FT SCALE

Release:2.3 Nov 15, 1996
Updates:1
Plotmgr 3.12a
Pcrplt 2.25
Cplot 1.60
Pdf_cpp 1.8
Fri Mar 7 08:29:17 1997

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd05iii97/b725b04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 180.250 ft BOTTOM DEPTH: 1103.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CALIPER	FILTER ()	medium (1)		..	..
TTRM	FILTER ()	medium (1)		..	..
GR	FILTER ()	medium (1)		..	..
DIFL IND	FILTER ()	medium (1)		..	..
DIFL FOC	FILTER ()	medium (1)		..	..
SP-SPDH	FILTER ()	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	in	..	..
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (dfbh#)	USE CALIPER		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (dfbh#)	7.875	in	..	..

DIFL PROCESSING

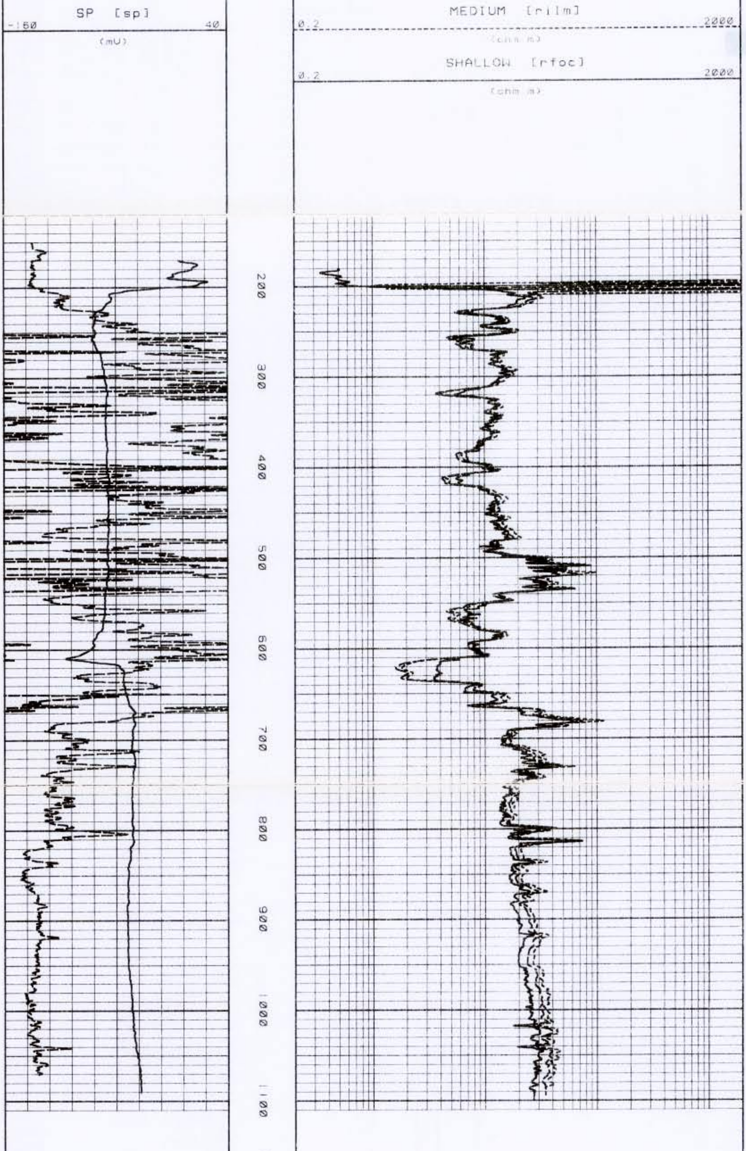
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
BOREHOLE MUD COND. CORRECTION	BOREHOLE CORR	OFF		..	..
	STANDOFF	1.5 IN.			
MUD VALUES SOURCE	RMUD SOURCE	MUD SAMP DERIVED		..	..
MUD VALUES	MUD SAMP TEMP	75.0	degF	..	..
	MUD SAMP RES	1.000	ohm.m	..	..
	MEAN SURF TEMP	75.0	degF	..	..
	TEMP GRADIENT	1.200	0.01 degF/ft	..	..

CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
gr	31.00	rild	11.00	sp	11.00		
rfoc	1.75	rilm	6.50				

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : difl.log
Data File : /datla/sfwmd05iii97/b725b04.xtf
Interval : 126.75 - 1103.00 Feet Logged Up
Created : Mar 6 12:55:23 1997

GR BACKUP	FEET	
GAMMA RAY [gr]		DEEP [rild]
0 150		0.2 2000
(gAPI)		(ohm.m)



GR BACKUP	FEET	
GAMMA RAY [gr] 0 150 (gAPI)		DEEP [rild] 0.2 2000 (ohm.m)
SP [sp] -150 40 (mV)		MEDIUM [rilm] 0.2 2000 (ohm.m)
		SHALLOW [rfoc] 0.2 2000 (ohm.m)

MAIN LOG 2"/100FT SCALE

Release:2.3 Nov 15, 1996 Plotmgr 3.12a Cplot 1.60 Fri Mar 7 08:29:17 1997
Updates:1 Pcrplt 2.25 Pdf_cpp 1.8

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd061197/b725b04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 180.250 ft BOTTOM DEPTH: 1103.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CALIPER	FILTER ()	medium (1)			
TTRM	FILTER ()	medium (1)		..	..
GR	FILTER ()	medium (1)		..	..
DIFL IND	FILTER ()	medium (1)		..	..
DIFL FOC	FILTER ()	medium (1)		..	..
SP-SPDH	FILTER ()	medium (1)		..	..
TENSION	FILTER ()	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	9.875	in	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (dfbh#)	USE CALIPER		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (dfbh#)	7.875	in	..	..

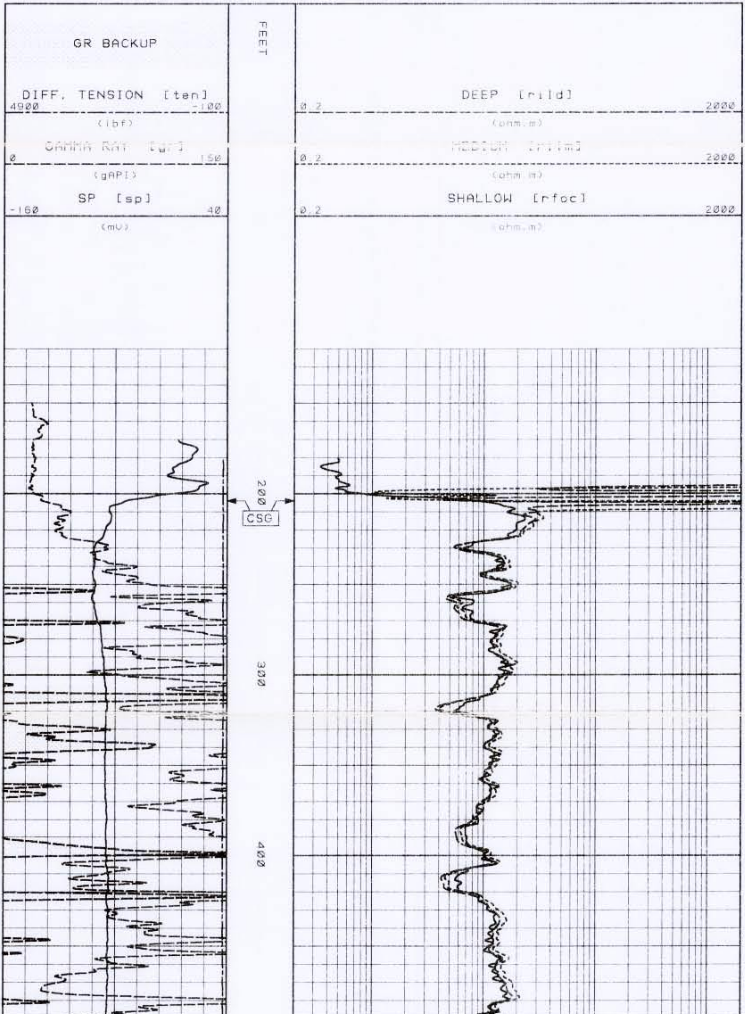
DIFL PROCESSING

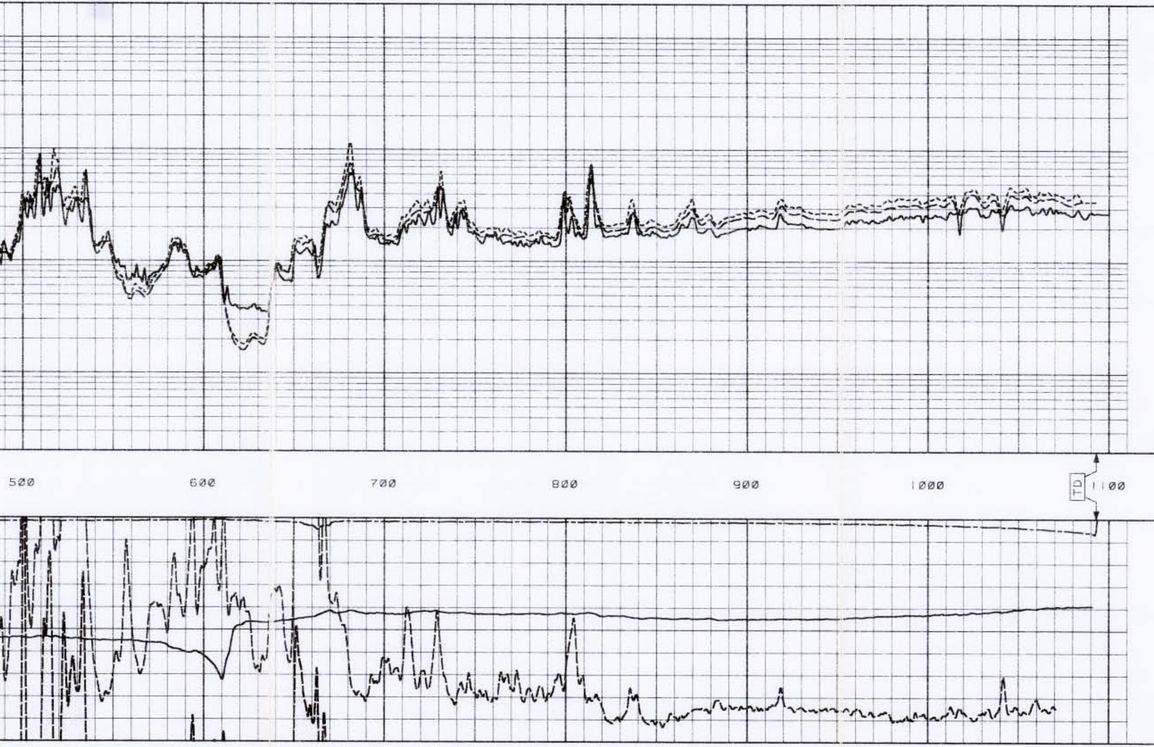
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BOREHOLE MUD COND. CORRECTION	BOREHOLE CORR	OFF		TOP	BOTTOM
	STANDOFF	1.5 IN.		..	..
MUD VALUES SOURCE	RMUD SOURCE	MUD SAMP DERIVED		..	..
MUD VALUES	MUD SAMP TEMP	75.0	degF	..	..
	MUD SAMP RES	1.000	ohm.m	..	..
	MEAN SURF TEMP	75.0	degF	..	..
	TEMP GRADIENT	1.200	0.01 degF/ft	..	..

CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
gr	31.00	rild	11.00	sp	11.00		
rfoc	1.75	rilm	6.50	ten	0.00		

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : difl.log
Data File : /datla/sfwmd06i11:97/b725b04.xtf
Interval : 126.75 - 1103.00 Feet Logged Up
Created : Mar 6 12:55:23 1997





GR BACKUP	FEET	
DIFF. TENSION [ten] 4900 -100 (lbf)		DEEP [rild] 0.2 2000 (ohm.m)
GAMMA RAY [gr] 0 150 (gAPI)		MEDIUM [rilm] 0.2 2000 (ohm.m)
SP [sp] -150 40 (mV)		SHALLOW [rfoc] 0.2 2000 (ohm.m)

MAIN LOG 5"/100FT SCALE

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Release:2.3  Nov 15, 1996     Plotmgr 3.12a     Cplot   1.60     Fri Mar  7 08:29:18 1997
Updates:1                     Pcrplt  2.25      Pdf_cpp 1.8
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PARAMETER AND FILTER SUMMARY REPORT

FILE: /data/sfwmd0611197/b725b04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 180.250 ft BOTTOM DEPTH: 1103.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CALIPER	FILTER ()	medium (1)		TOP	BOTTOM
TTRM	FILTER ()	medium (1)		''	''
GR	FILTER ()	medium (1)		''	''
DIFL IND	FILTER ()	medium (1)		''	''
DIFL FOC	FILTER ()	medium (1)		''	''
SP-SPDH	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BIT SIZE	BIT SIZE	9.875	in	TOP	BOTTOM
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (dfbh#)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (dfbh#)	7.875	in	''	''

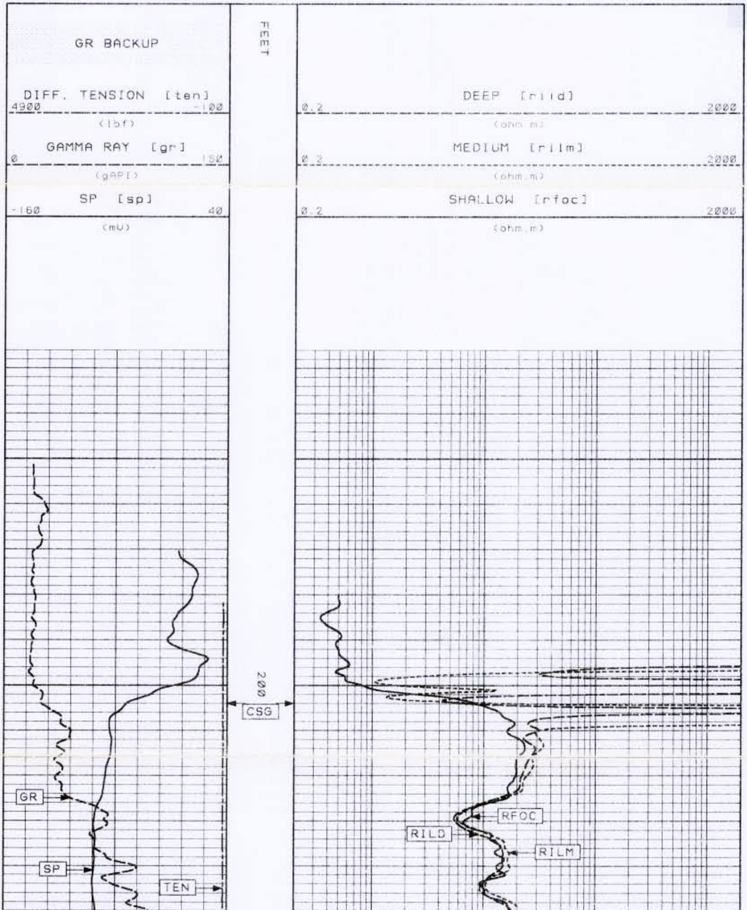
DIFL PROCESSING

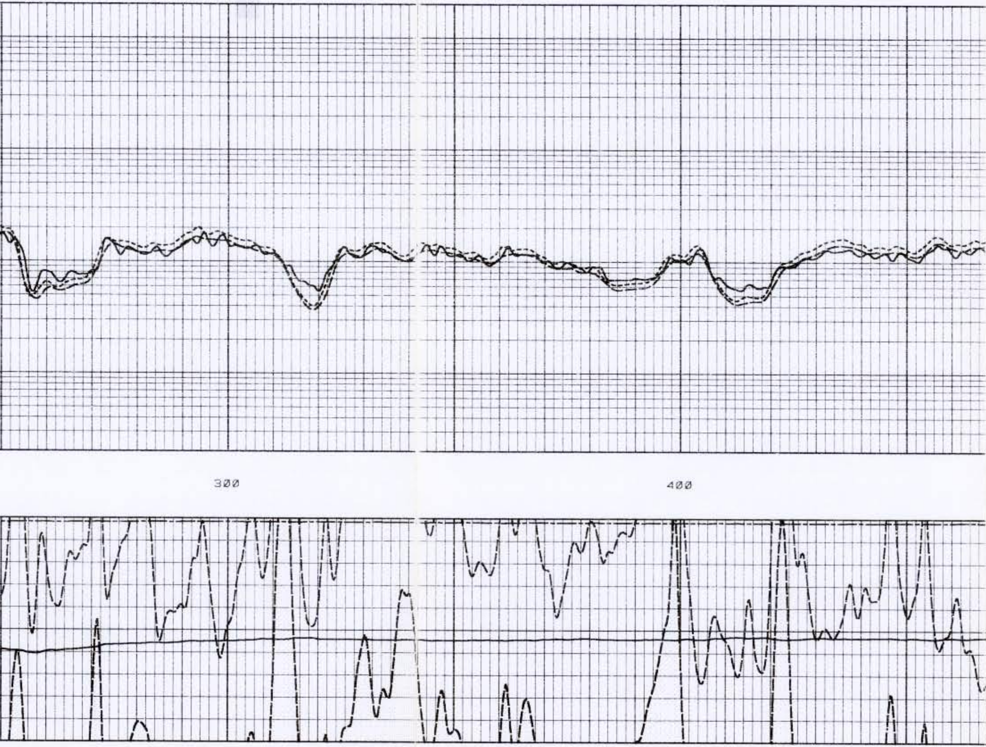
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
BOREHOLE MUD COND. CORRECTION	BOREHOLE CORR	OFF		TOP	BOTTOM
	STANDOFF	1.5 IN.		''	''
MUD VALUES SOURCE	RMUD SOURCE	MUD SAMP DERIVED		''	''
MUD VALUES	MUD SAMP TEMP	75.0	degF	''	''
	MUD SAMP RES	1.000	ohm.m	''	''
	MEAN SURF TEMP	75.0	degF	''	''
	TEMP GRADIENT	1.200	0.01 degF/ft	''	''

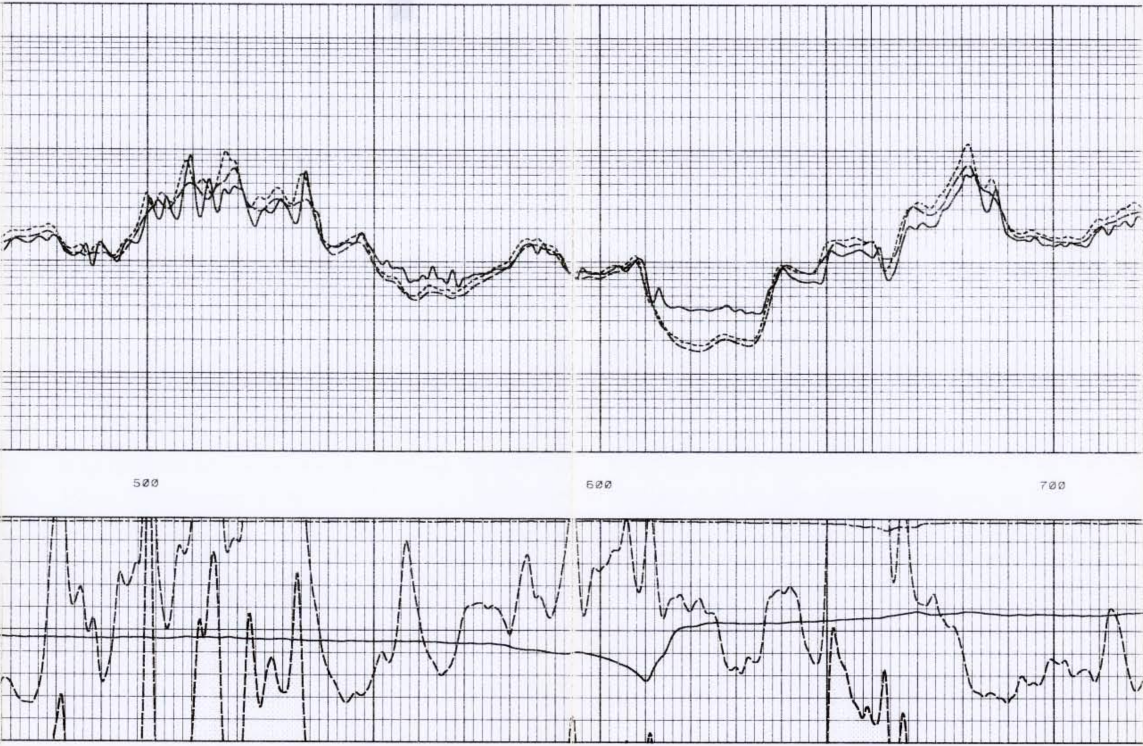
CURVE FIRST READING REPORT

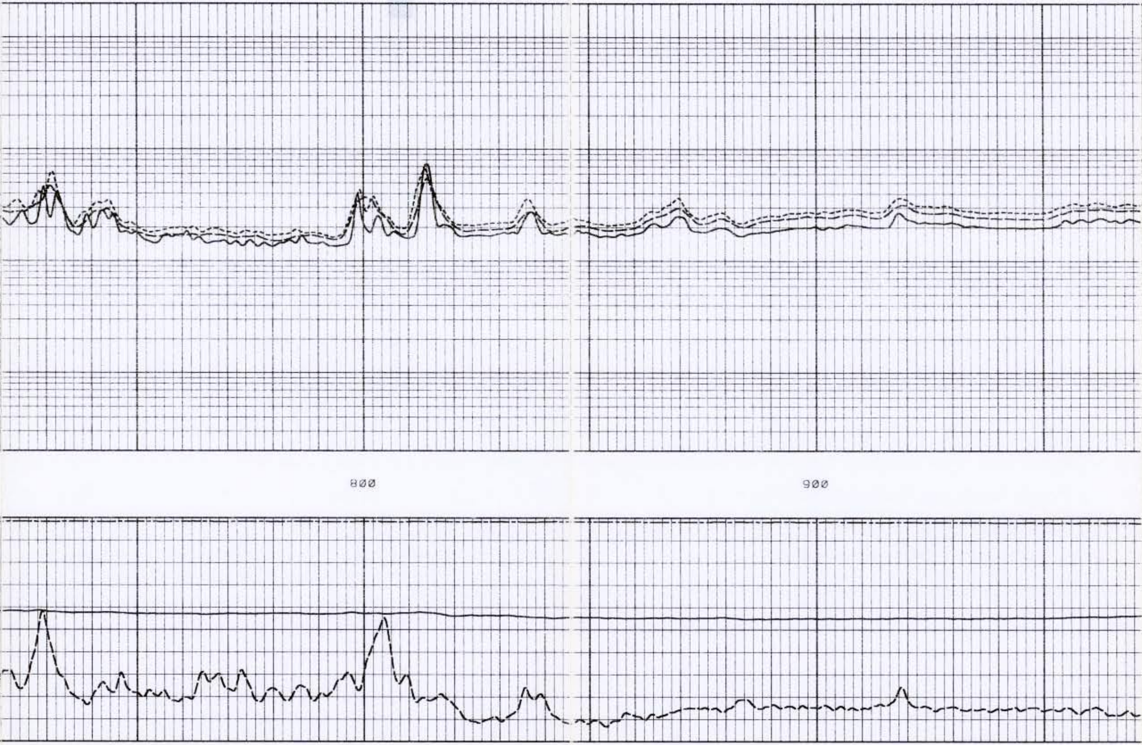
CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
gr	31.00	rild	11.00	sp	11.00		
rfoc	1.75	rilm	6.50	ten	0.00		

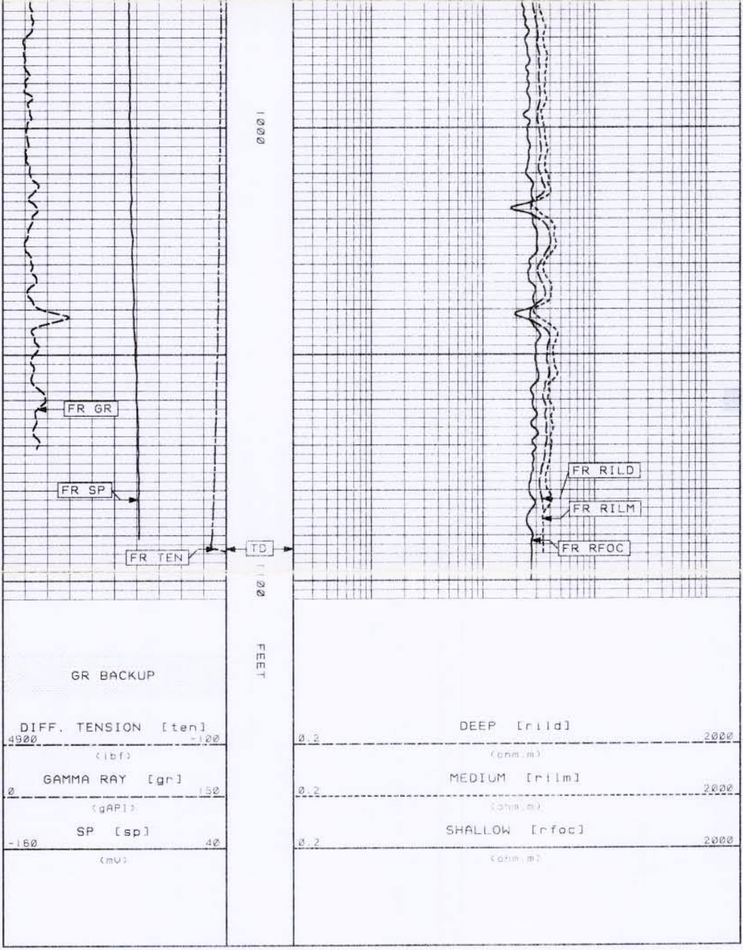
Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : difl.log
Data File : /data/sfwmd06ii197/b725b04.xtf
Interval : 126.75 - 1103.00 Feet Logged Up
Created : Mar 6 12:55:23 1997











REPEAT LOG RUN #1

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd06i:i97/b725b03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 886.000 ft BOTTOM DEPTH: 1093.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CALIPER	FILTER ()	medium (1)		..	..
TTRM	FILTER ()	medium (1)		..	..
GR	FILTER ()	medium (1)		..	..
DIFL IND	FILTER ()	medium (1)		..	..
DIFL FOC	FILTER ()	medium (1)		..	..
SP-SPDH	FILTER ()	medium (1)		..	..
TENSION	FILTER ()	medium (1)		..	..

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	in	..	..
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (dfbh#)	USE CALIPER		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (dfbh#)	7.875	in		

DIFL PROCESSING

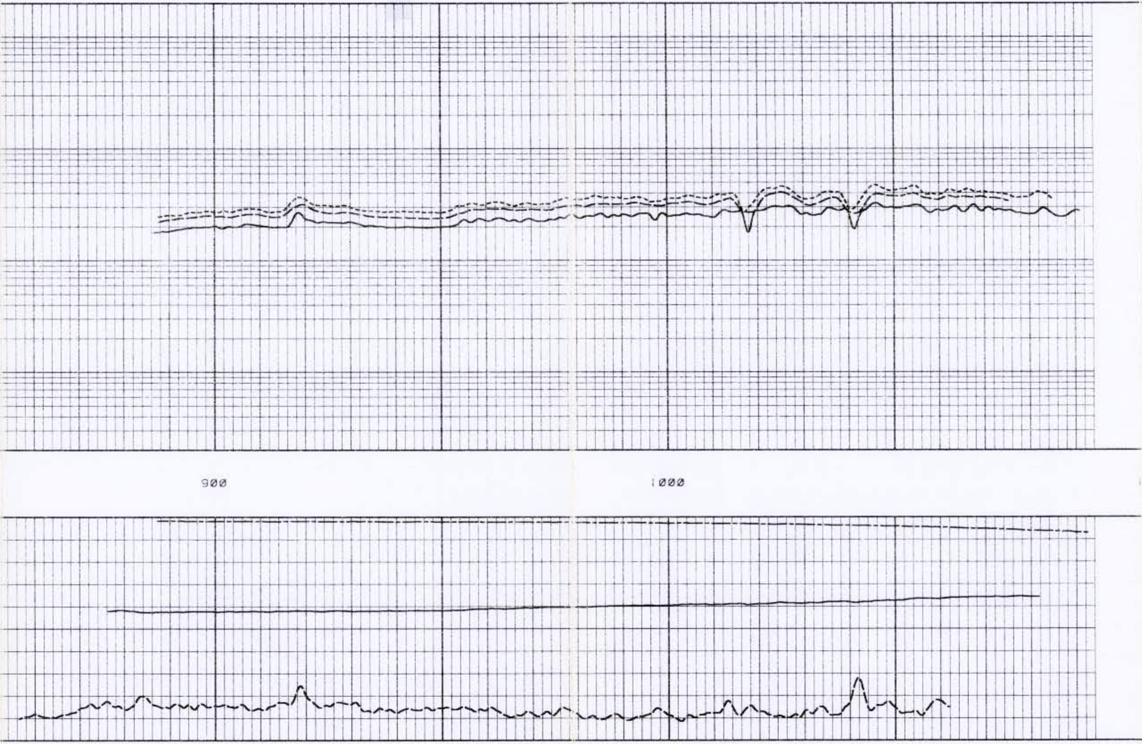
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
BOREHOLE MUD COND. CORRECTION	BOREHOLE CORR	OFF		..	..
	STANDOFF	1.5 IN.			
MUD VALUES SOURCE	RMUD SOURCE	MUD SAMP DERIVED		..	..
MUD VALUES	MUD SAMP TEMP	75.0	degF	..	..
	MUD SAMP RES	1.000	ohm.m	..	..
	MEAN SURF TEMP	75.0	degF	..	..
	TEMP GRADIENT	1.200	0.01 degF/ft	..	..

CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
gr	31.00	rild	11.00	sp	11.00		
rfoc	1.73	rilm	0.50	ten	0.00		

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : difl.log
Data File : /datla/sfwmd06i:i97/b725b03.xtf
Interval : 832.75 - 1094.00 Feet Logged Up
Created : Mar 6 12:47:47 1997

	FEET	
GR BACKUP		
DIFF. TENSION [ten] 4900 -100 (lbf)		DEEP [rild] 0.2 2000 (ohm.m)
GAMMA RAY [gr] 0 150 (gAPI)		MEDIUM [rilm] 0.2 2000 (ohm.m)
SP [sp] -160 40 (mV)		SHALLOW [rfoc] 0.2 2000 (ohm.m)



GR BACKUP				EET				
DIFF. TENSION [ten]	4900	-100	(lbf)		DEEP [rild]	0.2	2000	(ohm.m)
GAMMA RAY [gr]	0	150	(gAPI)		MEDIUM [rilm]	0.2	2000	(ohm.m)
SP [sp]	-160	40	(mV)		SHALLOW [rfoc]	0.2	2000	(ohm.m)

Source File: /datla/sfwmd06iii97/b725b.tpl.bdl

CALIBRATION / VERIFICATION SUMMARY

Source File: /datla/sfwmd06iii97/b725b.tpl

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Mon Feb 10 10:02:47 1997

UNIT #: 3880TB HL6561 CALB JIG #: 4702NK DA0582

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	395.09	1312.16	0.164	64.62	214.62	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Mon Feb 10 10:05:41 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	399.49	1313.36	0.164	65.34	214.82	149.48 140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Thu Mar 06 08:07:46 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	436.36	1359.42	0.164	71.37	222.35	150.98 [illegible]

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Thu Mar 06 13:55:02 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	434.13	1366.84	0.164	71.01	223.57	152.56 140.98 160.98

DIFL PRIMARY CALIBRATION SUMMARY

TOOL #: 1503XA 072845 DATE/TIME PERFORMED: Tue Dec 10 09:22:11 1996

UNIT #: 3880TB HL6561

	LOOP OPEN	LOOP ON	MULT	ADD	LOOP ON	LOOP OPEN	LOOP ON
	(raw)	(raw)			(NO SEC)	(mmho/m)	(mmho/m)
CILD	-1.495	486.65	0.81842	1.72384	400.01	0.500 0.500 0.500	488.90 488.90 488.90
CILM	-4.044	507.77	0.90287	4.15084	462.60	0.500 0.500 0.500	506.75 506.75 506.75
CFOC	1.923	480.56	1.04254	-1.00440		1.000 1.000 1.000	500.00 500.00 500.00

DIFL PRIMARY VERIFICATION SUMMARY

TOOL #: 1503XA 072845 DATE/TIME PERFORMED: Tue Dec 10 09:23:31 1996

UNIT #: 3880TB HL6561

	ZERO	CAL	MULT	ADD	CAL	ZERO	CAL
	(raw)	(raw)			(NO SEC)	(mmho/m)	(mmho/m)
CILD	-0.458	515.76	0.81842	1.72384	423.84	1.361 -1.500 2.500	521.99 463.90 513.90
CILM	-0.839	515.17	0.90287	4.15084	469.28	3.475 -1.500 2.500	514.61 481.75 531.75
CFOC	4.883	480.68	1.04254	-1.00440		4.086 -1.000 3.000	500.13 475.00 525.00

DIFL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1503XA 072845 DATE/TIME PERFORMED: Thu Mar 06 08:49:47 1997

UNIT #: 3880TB HL6561

	ZERO	CAL	MULT	ADD	CAL	ZERO	CAL
	(raw)	(raw)			(NO SEC)	(mmho/m)	(mmho/m)
CILD	-0.092	514.62	0.81842	1.72384	422.90	1.670 -0.639 3.361	520.69 496.99 546.99
CILM	-0.641	536.90	0.90287	4.15084	488.90	3.660 1.475 5.475	537.70 489.61 539.61
CFOC	5.524	489.32	1.04254	-1.00440		4.754 2.086 6.086	509.13 475.13 525.13

DIFL AFTER LOG VERIFICATION SUMMARY

TOOL #: 1503XA 072845

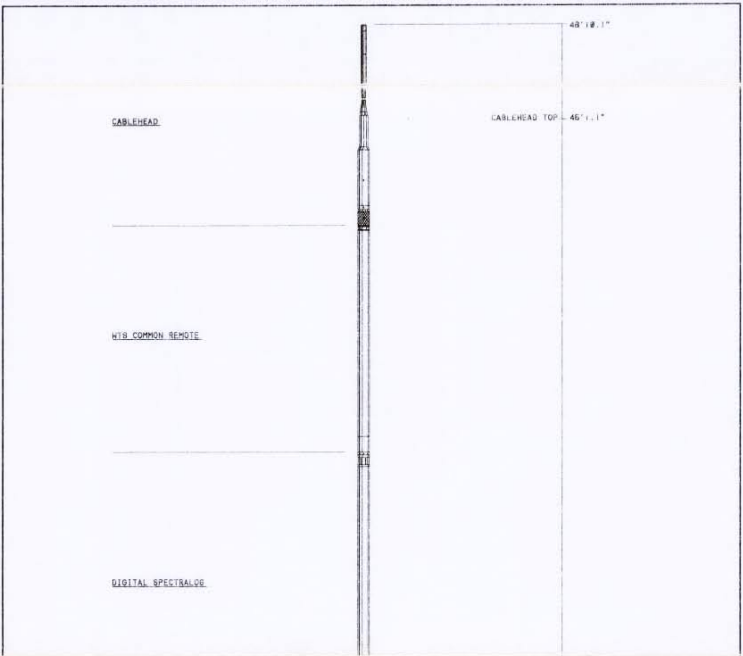
DATE/TIME PERFORMED. Thu Mar 06 13:21:06 1997

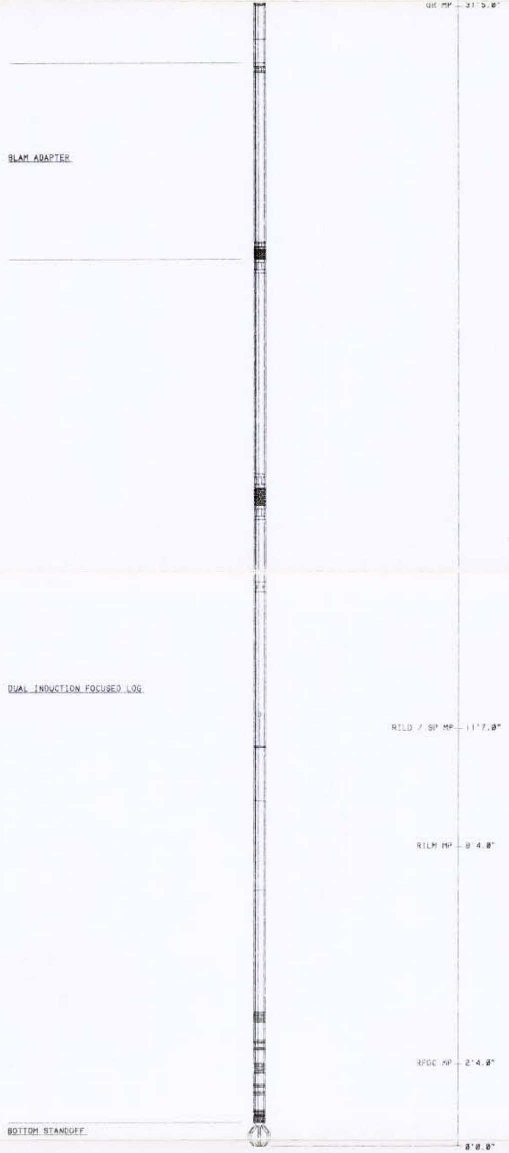
UNIT #: 3880TB HL6561

	ZERO (raw)	CAL (raw)	MULT	ADD	CAL (NO SEC)	ZERO (mmho/m)	CAL (mmho/m)
CILD	0.031	519.32	0.81842	1.72384	425.75	1.773 -0.330 3.670	526.04 495.69 545.69
CILM	-0.687	540.21	0.90287	4.15084	491.89	3.618 1.660 5.660	541.34 512.70 562.70
CFOC	5.585	488.91	1.04254	-1.00440		4.818 2.754 6.754	508.70 484.12 534.12

INSTRUMENT CONFIGURATION

Source File: /datla/sfwmd0611197/difl-tdg





TOTAL LENGTH: 46'10.1"
TOTAL WEIGHT: 650 lbs
MAX DIAMETER: 0'6.30"

WESTERN ATLAS

COMPANY	SOUTH FLORIDA WATER MANAGEMENT DISTRICT	FILE NO:
WELL	LAB-TW	
FIELD	CALOOSAHATCHEE RIVER	API NO:
COUNTY	HENDRY STATE FLORIDA	

LOCATION:
NE/4
SEC 12 TWP 43S RGE 28E

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE 06-MAR-97

WESTERN ATLAS

DIGITAL ACOUSTILOG
GAMMA RAY LOG

FILE NO:	COMPANY	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
API NO:	WELL	LAB-TW
	FIELD	CALOOSAHATCHEE RIVER
	COUNTY	HENDRY STATE FLORIDA

LOCATION:
NE/4
SEC 12 TWP 43S RGE 28E

OTHER SERVICES
DIFL/GR
ZDL/CN/GR
X-Y CALIPER
TEMP/FLOWMETER

PERMANENT DATUM GL ELEVATION 15 FT
LOG MEASURED FROM GL 0 FT ABOVE P.D.
DRILL. MEAS. FROM GL

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE	06-MAR-97		
RUN	1		
SERVICE ORDER	190219		
DEPTH DRILLER	1100 FT		
DEPTH LOGGER	1088 FT		
BOTTOM LOGGED INTERVAL	1085 FT		
TOP LOGGED INTERVAL	204 FT		
CASING - DRILLER	24 IN	@204 FT	@
CASING LOGGER	204 FT		
BIT SIZE	9.875 IN		
TYPE OF FLUID IN HOLE	FORMATION WATER		
DENSITY / VISCOSITY	8.3 LB/G	N/A	
PH / FLUID LOSS	7.2	N/A	
SOURCE OF SAMPLE	FLOWLINE		
RM AT MEAS. TEMP.	3.02 OHMM	@75 DEGF	@
RMF AT MEAS. TEMP.	N/A	@75 DEGF	@
RMC AT MEAS. TEMP.	N/A	@75 DEGF	@
SOURCE OF RMF./ RMC.	CALC.	CALC.	
RM AT BHT	---	@< 100	@
TIME SINCE CIRCULATION	2 HRS.		
MAX. RECORDED TEMP.	< 100 DEGF		
EQUIP. NO. / LOCATION	HL 6561	LAUREL, MS	
RECORDED BY	R. EMMETT		
WITNESSED BY	M. BENNETT		

- FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO
9.875	204	1100

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
24			0	204

REMARKS

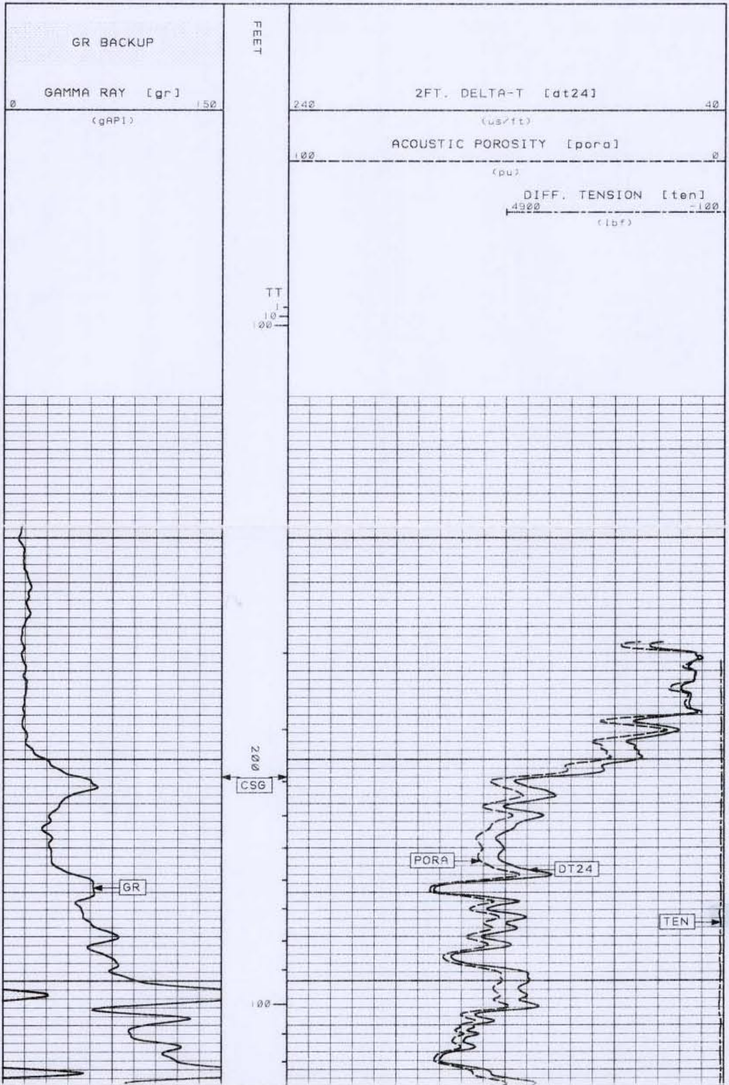
RUN 1:

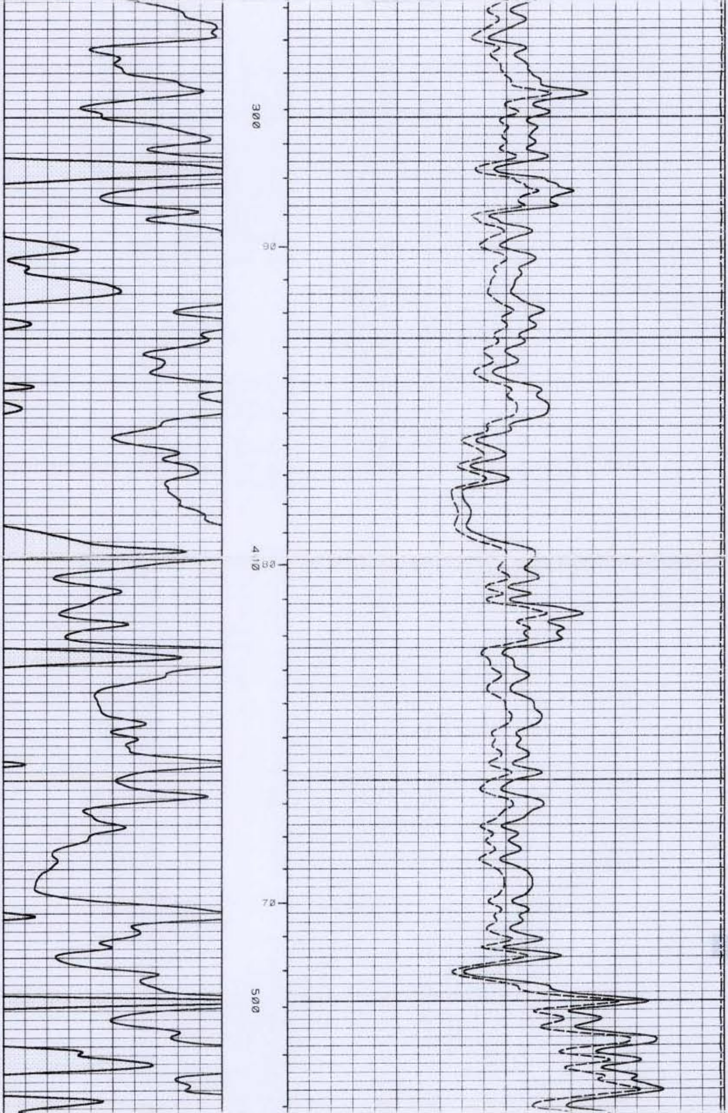
EQUIPMENT DATA

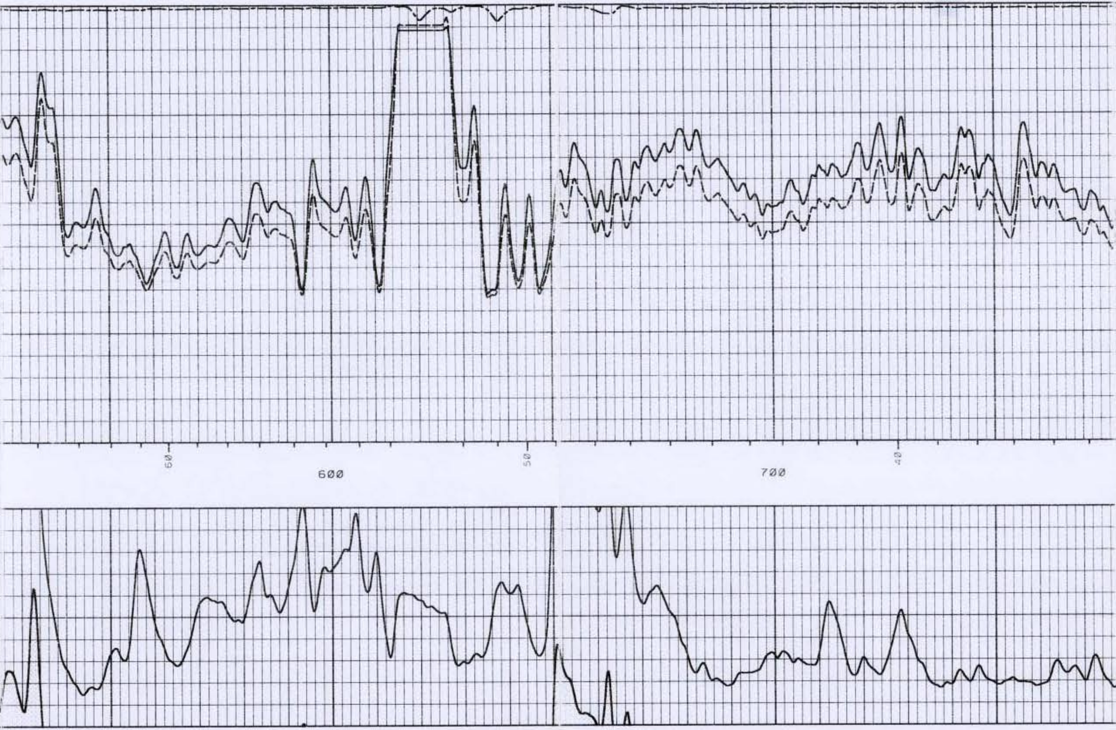
RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	DAL	1667EA/1680MA	172601/172761	CENT.
1	1	GR	1329XA	172724	FREE
1	1	COMR	3510XA	168585	FREE

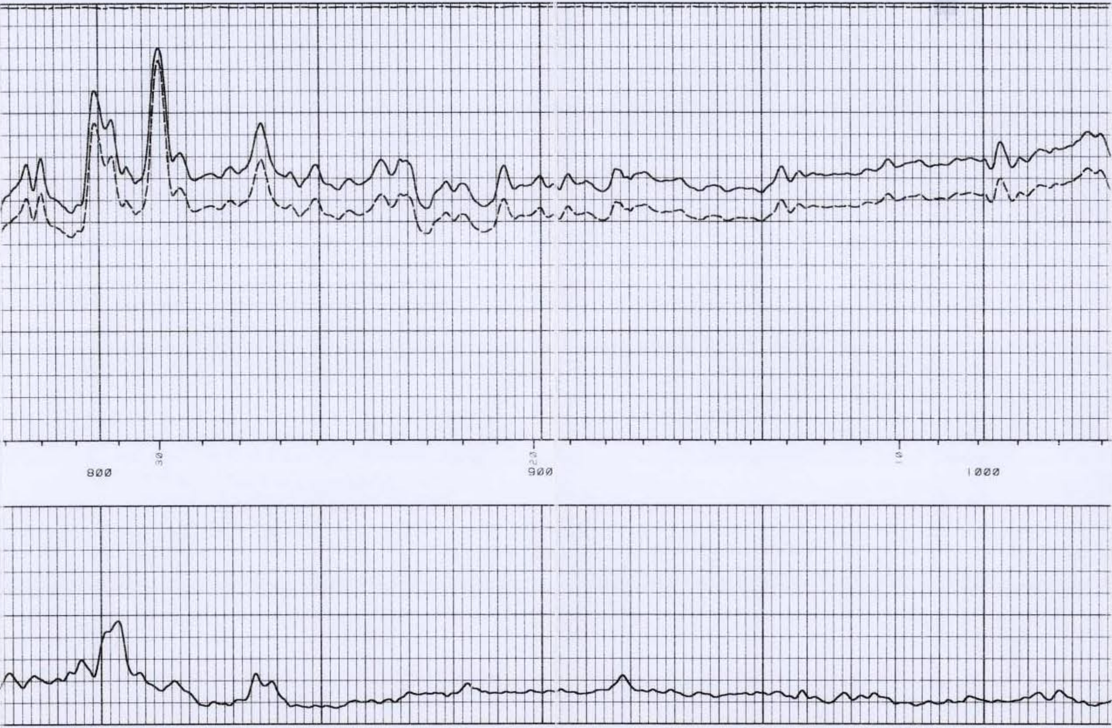
MAIN LOG 5"/100FT SCALE

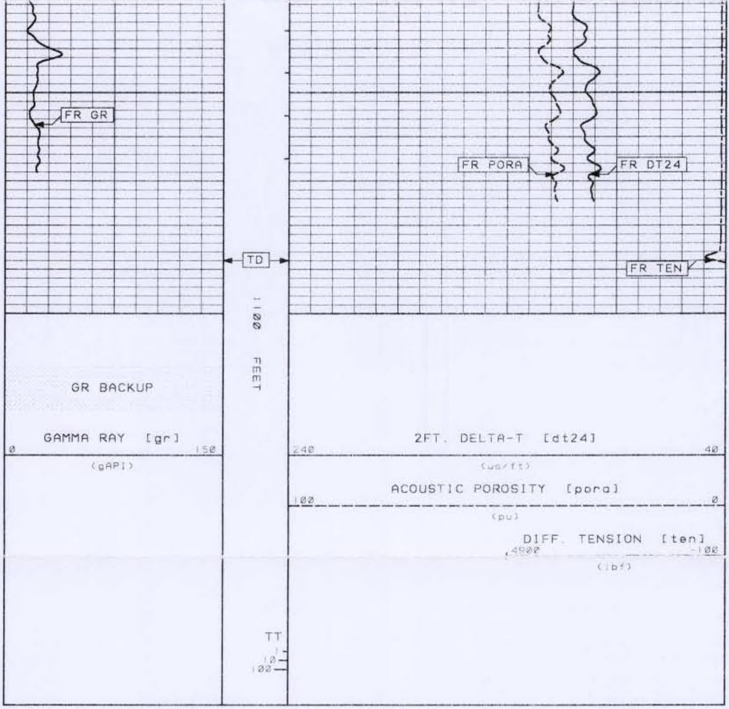
```
Release:2.3  Nov 15, 1996      Plotmgr 3.12a          Cplot    1.60      Fri Mar  7 08:09:43 1997
Updates:1                      Pcrplt  2.25           Pdf_cpp 1.8

                          PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd06ii197/b833f04.prm
LOGGING MODE: DEPTH  DIRECTION: UP
TOP DEPTH:     176.500 ft  BOTTOM DEPTH:    1100.000 ft

                                   SYMMETRIC FILTER
MEASUREMENT TYPE             PARAMETER                    VALUE            UNITS          INTERVAL (ft)
CALIPER                      FILTER ()                    medium (1)                      TOP      BOTTOM
GR                           FILTER ()                    medium (1)                      ..       ..
DT24                         FILTER ()                    light (2)                       ..       ..
TENSION                      FILTER ()                    medium (1)                      ..       ..

                                   ACOUSTIC POROSITY
MEASUREMENT TYPE             PARAMETER                    VALUE            UNITS          INTERVAL (ft)
ACOUSTIC POROSITY            POROSITY TYPE                R-H-G                           TOP      BOTTOM
                             DTmatrix                          47.60       us/ft          ..       ..
                             DTfluid                          190.00       us/ft          ..       ..
                             DTshale                          100.00       us/ft          ..       ..
                             MOD. WYLLIE PARM                   2.25                      ..       ..
                             MOD. R-H-G PARM                    1.75                      ..       ..
DELTA T CURVE SELECTION      CURVE SELECTION              first arrival                   ..       ..

                                ACOUSTIC WAVEFORM FILTER
MEASUREMENT TYPE             PARAMETER                    VALUE            UNITS          INTERVAL (ft)
ACOUSTIC WAVEFORM FILTER     SURFACE WAVE FILTER          ON                              TOP      BOTTOM
                             LOW FREQ CUTOFF                    1500       Hz             ..       ..
                             HIGH FREQ CUTOFF                  20000       Hz             ..       ..

                                 ACOUSTIC PICK CONTROL
MEASUREMENT TYPE             PARAMETER                    VALUE            UNITS          INTERVAL (ft)
DELTA-T REJECTION RANGE      REJECTION DTmin                      40       us/ft          TOP      BOTTOM
                             REJECTION DTmax                     180       us/ft          ..       ..
FIRST ARRIVAL PICK (SUB #2)  SEARCH WINDOW LENGTH (sfal1#)       987       us             ..       ..
                             THRESHOLD FACTOR (sfal1#)          0.30                      ..       ..
                             THRESHOLD MINIMUM (sfal1#)           35                      ..       ..
                             SEARCH WINDOW LENGTH (sfal2#)       987       us             ..       ..
                             THRESHOLD FACTOR (sfal2#)          0.30                      ..       ..
                             THRESHOLD MINIMUM (sfal2#)           35                      ..       ..
                             SEARCH WINDOW LENGTH (sfal3#)       987       us             ..       ..
                             THRESHOLD FACTOR (sfal3#)          0.30                      ..       ..
                             THRESHOLD MINIMUM (sfal3#)           35                      ..       ..
                             SEARCH WINDOW LENGTH (sfal4#)       987       us             ..       ..
                             THRESHOLD FACTOR (sfal4#)          0.30                      ..       ..
                             THRESHOLD MINIMUM (sfal4#)           35                      ..       ..
                             E3 THRESHOLD                 OFF                             ..       ..

                                ACOUSTIC QUALITY CONTROL
MEASUREMENT TYPE             PARAMETER                    VALUE            UNITS          INTERVAL (ft)
CYCLE SKIP LIMIT             CYCLE SKIP LIMIT                    100       us             TOP      BOTTOM

                                 ACOUSTIC X CORRELATION
MEASUREMENT TYPE             PARAMETER                    VALUE            UNITS          INTERVAL (ft)
XCORR WINDOW POSITION        USE CALIPER                  CALIPER                         TOP      BOTTOM
                             WINPOS (wpos#)                      836       us             ..       ..
XCORR DELTA-T                Xcorr CWlength                      150       us             ..       ..
                             Xcorr DTmin                          30       us/ft          ..       ..
                             Xcorr DTmax                         180       us/ft          ..       ..

                               CURVE FIRST READING REPORT
   CURVE FR      (ft)      CURVE FR      (ft)      CURVE FR      (ft)      CURVE FR      (ft)
    dt24        19.50       pora        19.50       tt          19.50
    gr          30.75       ten          0.00

Company       : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well          : LAB-TW
Field         : WILDCAT
Presentation  : b833f.log
Data File     : /datla/sfwmd06ii197/b833f04.xtf
Interval      : 119.50 - 1100.00 Feet        Logged Up
Created       : Mar  6 15:09:18 1997
```











VDL PRESENTATION

Release:2.3 Nov 15, 1996
Updates:1

Plotmgr 3.12a
Pcrplt 2.25

Cplot 1.60
Pdf_cpp 1.8

Fri Mar 7 08:09:43 1997

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd06iii97/b833f04.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 176.500 ft BOTTOM DEPTH: 1100.000 ft

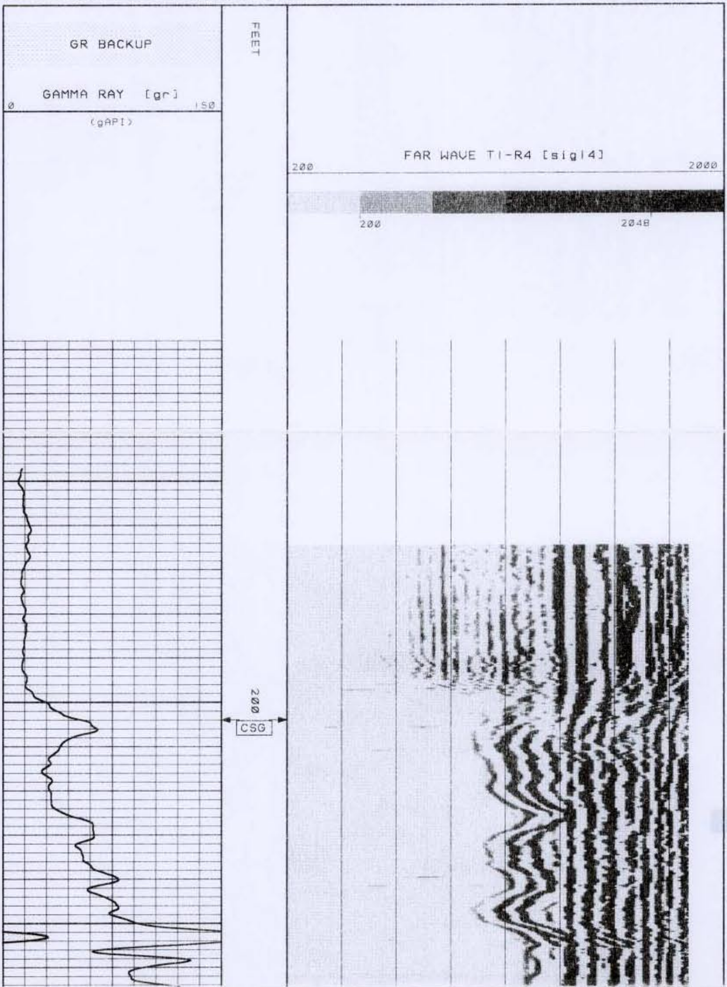
SYMMETRIC FILTER

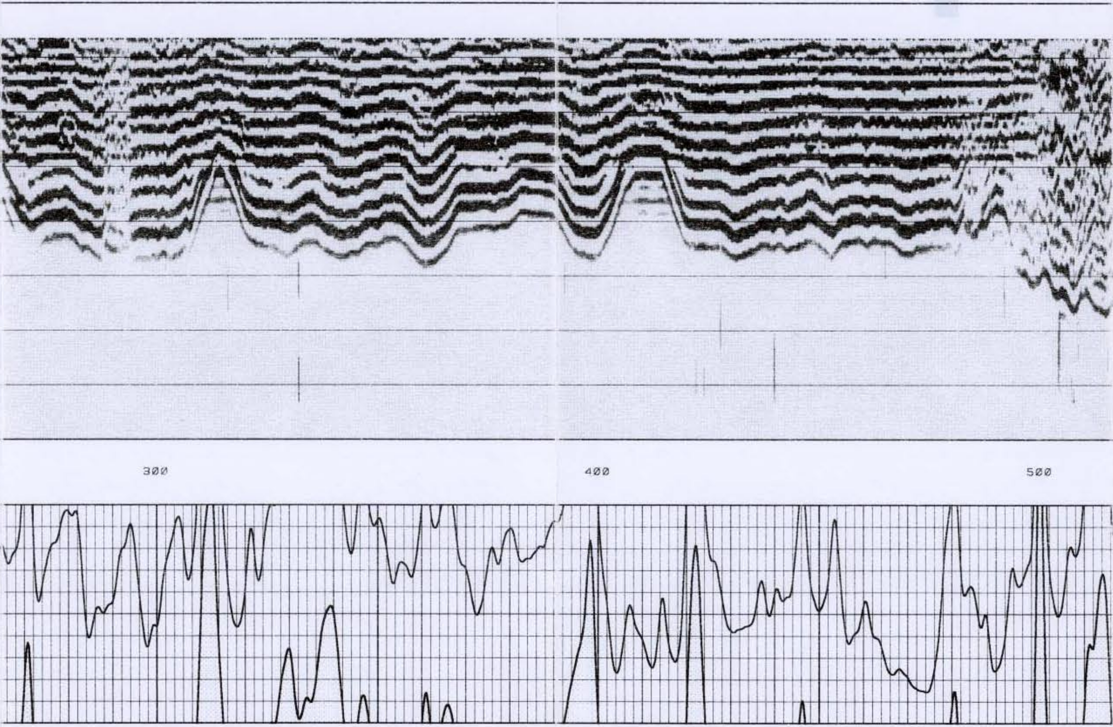
MEASUREMENT TYPE	**PARAMETER**	**VALUE**	**UNITS**	**INTERVAL (ft)**	
GR	FILTER ()	medium (1)		TOP	BOTTOM

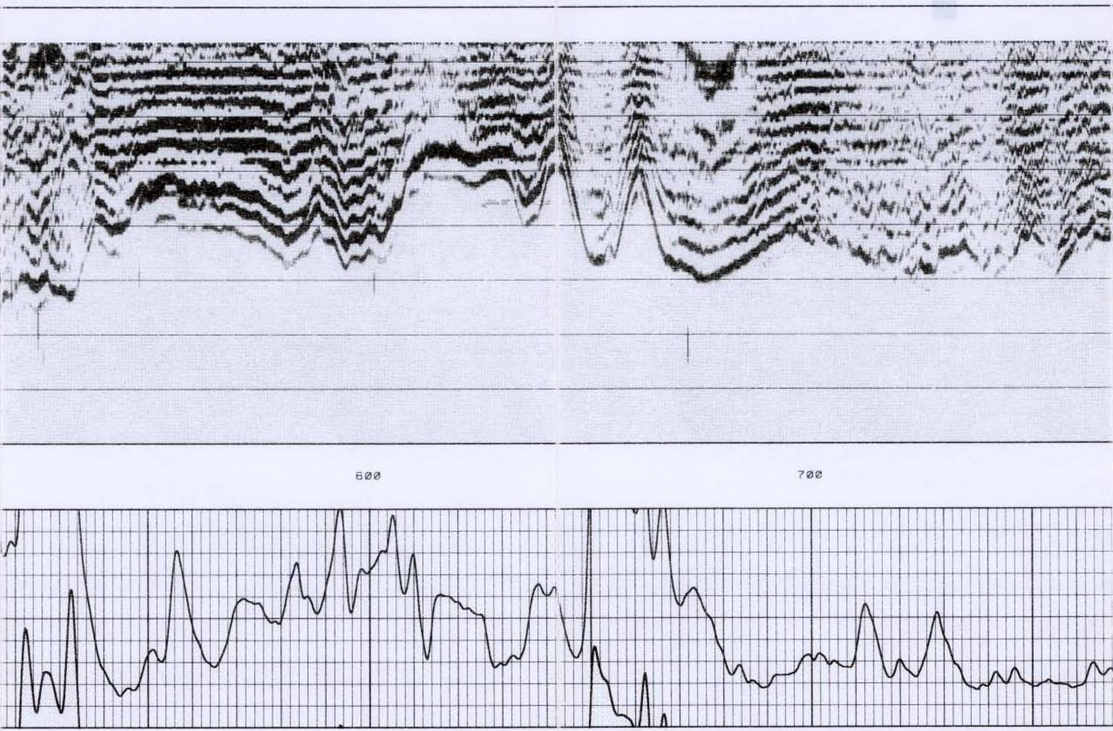
CURVE FIRST READING REPORT

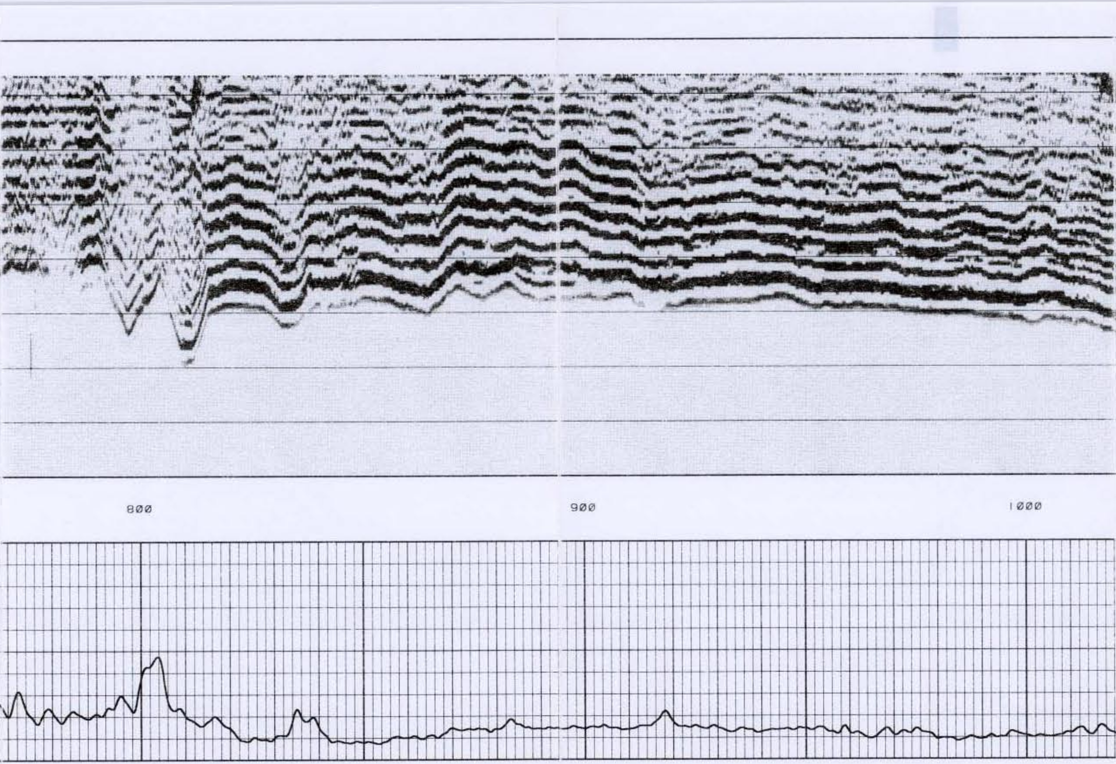
CURVE FR	**(ft)**	**CURVE FR**	**(ft)**	**CURVE FR**	**(ft)**	**CURVE FR**	**(ft)**
gr	30.75						

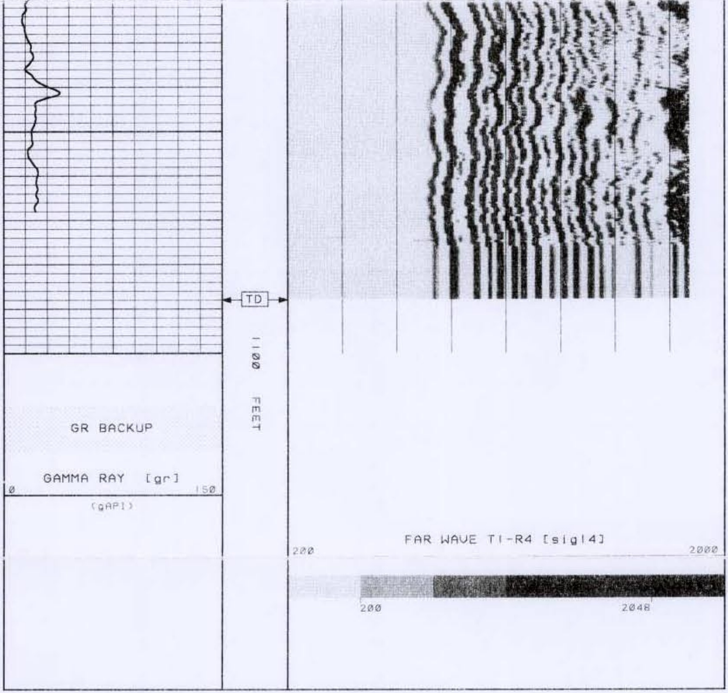
Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : dal2mimgl.log
Data File : /datla/sfwmd06iii97/b833f04.xtf
Interval : 119.50 - 1100.00 Feet Logged Up
Created : Mar 6 15:09:18 1997











REPEAT LOG RUN #1

Release:2.3 Nov 15, 1996 Plotmgr 3.12a Cplot 1.60 Fri Mar 7 08:09:44 1997
Updates:1 Pcrplt 2.25 Pdf_cpp 1.8

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd06iii97/b833f03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 896.000 ft BOTTOM DEPTH: 1099.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	**PARAMETER**	**VALUE**	**UNITS**	**INTERVAL (ft)**	
CALIPER	FILTER ()	medium (1)		TOP	BOTTOM
GR	FILTER ()	medium (1)		''	''
DT24	FILTER ()	light (2)		''	''
TENSION	FILTER ()	medium (1)		''	''

ACOUSTIC POROSITY

MEASUREMENT TYPE	**PARAMETER**	**VALUE**	**UNITS**	**INTERVAL (ft)**

ACOUSTIC POROSITY	POROSITY TYPE	R-H-G		TOP	BOTTOM
	DTmatrix	47.60	us/ft	"	"
	DTfluid	190.00	us/ft	"	"
	DTshale	100.00	us/ft	"	"
	MOD. WYLLIE PARM	2.25		"	"
	MOD. R-H-G PARM	1.75		"	"
DELTA T CURVE SELECTION	CURVE SELECTION	first arrival		"	"

ACOUSTIC WAVEFORM FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
ACOUSTIC WAVEFORM FILTER	SURFACE WAVE FILTER	ON		TOP	BOTTOM
	LOW FREQ CUTOFF	1500	Hz	"	"
	HIGH FREQ CUTOFF	20000	Hz	"	"

ACOUSTIC PICK CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
DELTA-T REJECTION RANGE	REJECTION DTmin	40	us/ft	TOP	BOTTOM
	REJECTION DTmax	180	us/ft	"	"
FIRST ARRIVAL PICK (SUB #2)	SEARCH WINDOW LENGTH (sfal1#)	987	us	"	"
	THRESHOLD FACTOR (sfal1#)	0.30		"	"
	THRESHOLD MINIMUM (sfal1#)	35		"	"
	SEARCH WINDOW LENGTH (sfal2#)	987	us	"	"
	THRESHOLD FACTOR (sfal2#)	0.30		"	"
	THRESHOLD MINIMUM (sfal2#)	35		"	"
	SEARCH WINDOW LENGTH (sfal3#)	987	us	"	"
	THRESHOLD FACTOR (sfal3#)	0.30		"	"
	THRESHOLD MINIMUM (sfal3#)	35		"	"
	SEARCH WINDOW LENGTH (sfal4#)	987	us	"	"
	THRESHOLD FACTOR (sfal4#)	0.30		"	"
	THRESHOLD MINIMUM (sfal4#)	35		"	"
	E3 THRESHOLD	OFF		"	"

ACOUSTIC QUALITY CONTROL

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CYCLE SKIP LIMIT	CYCLE SKIP LIMIT	100	us	TOP	BOTTOM

ACOUSTIC X CORRELATION

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
XCORR WINDOW POSITION	USE CALIPER	CALIPER		TOP	BOTTOM
	WINPOS (wpos#)	1618	us	"	"
XCORR DELTA-T	Xcorr CWlength	150	us	"	"
	Xcorr DTmin	30	us/ft	"	"
	Xcorr DTmax	180	us/ft	"	"

CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
dt24	19.50	pora	19.50	tt	19.50		
gr	30.75	ten	0.00				

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : b833f.log
Data File : /datla/sfwmd0611197/b833f03.xtf
Interval : 839.50 - 1099.00 Feet Logged Up
Created : Mar 6 14:59:24 1997

GR BACKUP

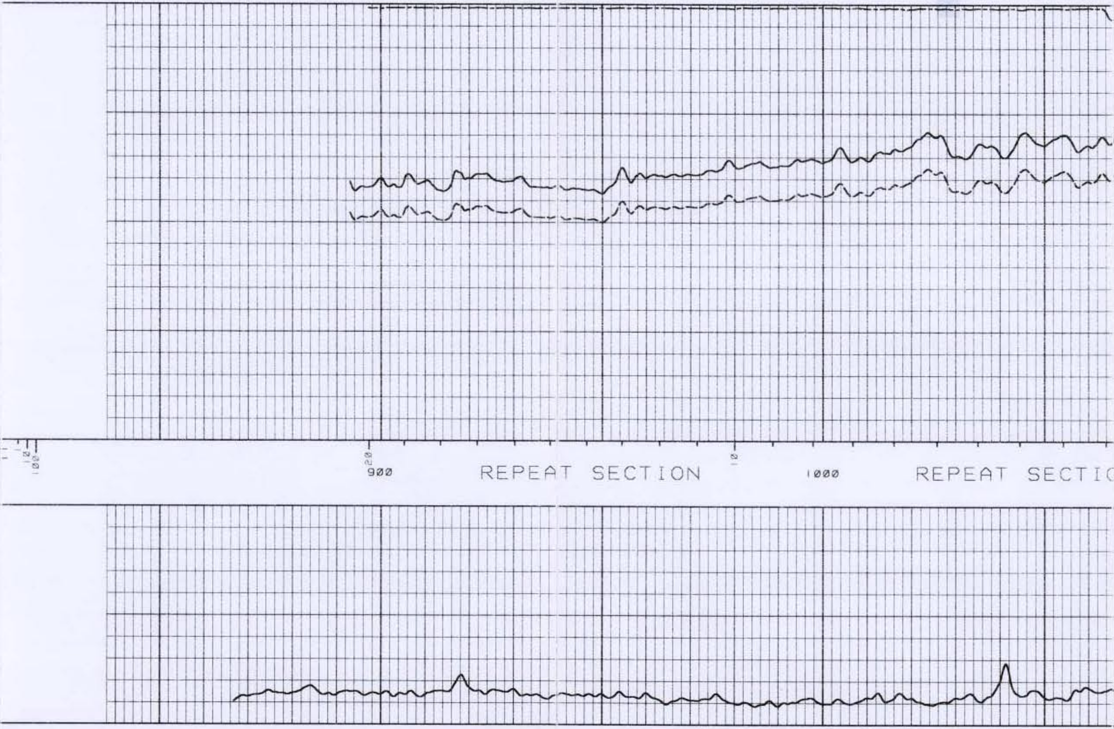
GAMMA RAY [gr]
0 150
(gAPI)

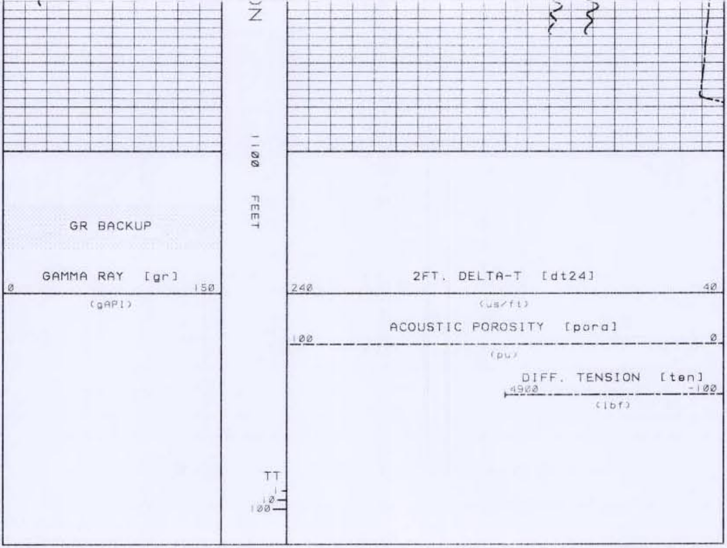
FEET

2FT. DELTA-T [dt24]
240 40
(us/ft)

ACOUSTIC POROSITY [pora]
100 0
(pu)

DIFF. TENSION [ten]
4900 -100
(lbf)





CALIBRATION / VERIFICATION SUMMARY

Source File: /datla/sfwmd06iii97/b833f.tpl

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Mon Feb 10 10:02:47 1997

UNIT #: 3880TB HL6561 CALB JIG #: 4702NK DA0582

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	395.09	1312.16	0.164	64.62	214.62	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Mon Feb 10 10:05:41 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)

GR	399.49	1313.50	0.164	65.34	214.82	149.48 140.00 150.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172724

DATE/TIME PERFORMED: Thu Mar 06 08:07:46 1997

UNIT #: 3880TB HL6561

VERI JIG #: 4702NK DA0582

	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	436.36	1359.42	0.164	71.37	222.35	150.98 130.48 159.48

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172724

DATE/TIME PERFORMED: Thu Mar 06 16:29:33 1997

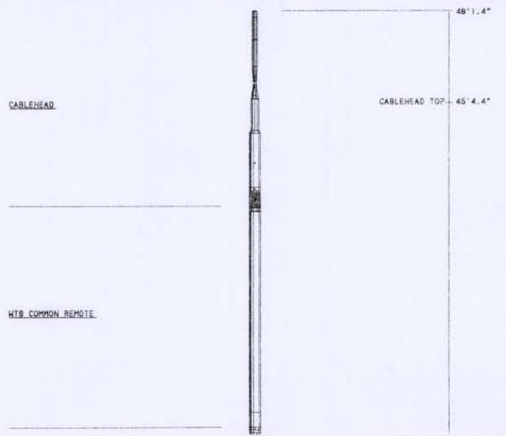
UNIT #: 3880TB HL6561

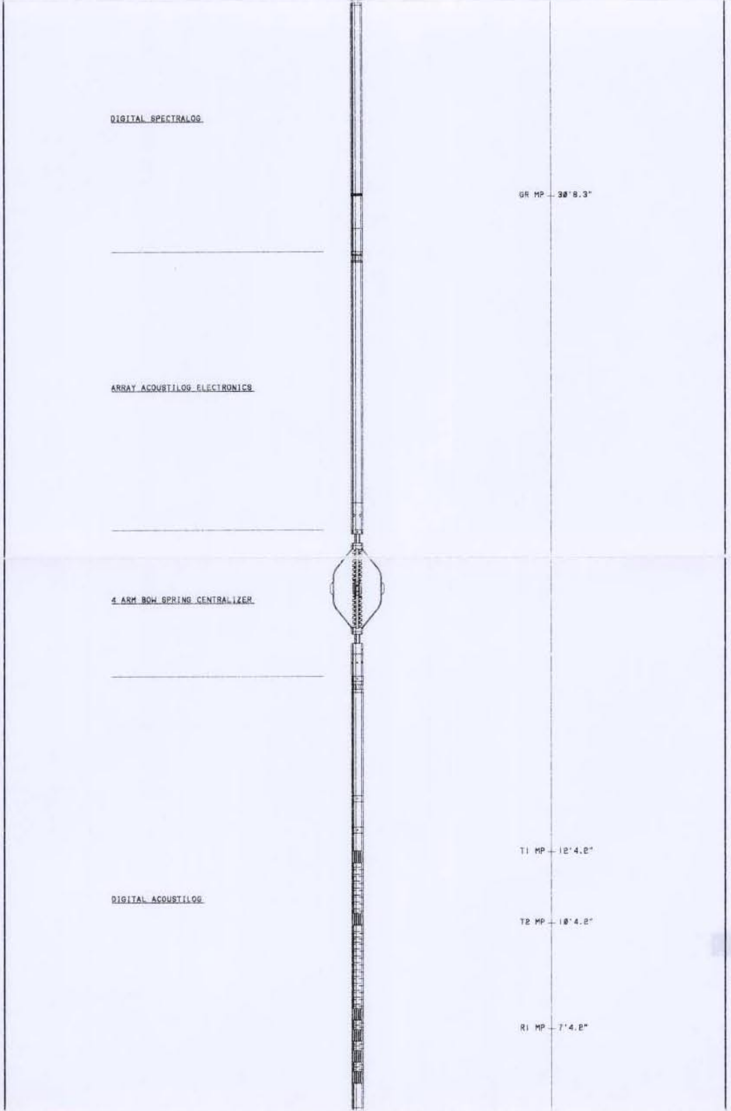
VERI JIG #: 4702NK DA0582

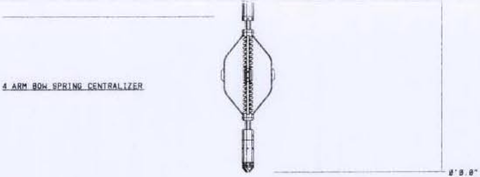
	BACKGROUND (cts/s)	CALBRTR ON (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	115.93	1062.07	0.164	18.96	173.72	154.75 140.98 168.98

INSTRUMENT CONFIGURATION

Source File: /datla/sfwmd0611197/dal-tdg







TOTAL LENGTH: 48' 1.4"
TOTAL WEIGHT: 717 lbs
MAX DIAMETER: 0'3.63"

WESTERN ATLAS

ECLIPS

COMPANY SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL LAB-TW
FIELD CALOOSAHATCHEE RIVER
COUNTY HENDRY STATE FLORIDA

FILE NO:
API NO:

LOCATION:
NE/4
SEC 12 TWP 43S RGE 28E

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE 06-MAR-97

WESTERN ATLAS

COMPENSATED Z-DENSILOG℠
COMPENSATED DENSILOG℠
GAMMA RAY LOG

FILE NO:

API NO:

COMPANY	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL	LAB-TW
FIELD	CALOOSAHATCHEE RIVER
COUNTY	HENDRY
STATE	FLORIDA

LOCATION:
NE/4
SEC 12 TWP 43S RGE 28E

OTHER SERVICES
DIFL/GR
DAL/GR
X-Y CALIPER
TEMP/FLOWMETER

PERMANENT DATUM GL ELEVATION 15 FT
LOG MEASURED FROM GL 0 FT ABOVE P.D.
DRILL. MEAS. FROM GL

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE	06-MAR-97			
RUN	1			
SERVICE ORDER	190219			
DEPTH DRILLER	1100 FT			
DEPTH LOGGER	1086 FT			
BOTTOM LOGGED INTERVAL	1084 FT			
TOP LOGGED INTERVAL	204 FT			
CASING - DRILLER	24 IN	@204 FT		@
CASING LOGGER	204 FT			
BIT SIZE	9.875 IN			
TYPE OF FLUID IN HOLE	FW			
DENSITY / VISCOSITY	8.3 LB/G	N/A		
PH / FLUID LOSS	7.2	N/A		
SOURCE OF SAMPLE	FLOWLINE			
RM AT MEAS. TEMP.	3.02 OHMM	@75 DEGF		@
RMF AT MEAS. TEMP.	N/A	@75 DEGF		@
RMC AT MEAS. TEMP.	N/A	@75 DEGF		@
SOURCE OF RMF / RMC.	CALC.	CALC.		
RM AT BHT	—	@< 100		@
TIME SINCE CIRCULATION	2 HRS.			
MAX. RECORDED TEMP.	< 100 DEGF			
EQUIP. NO. / LOCATION	HL 6561	LAUREL, MS		
RECORDED BY	R. EMMETT			
WITNESSED BY	M. BENNETT			

- FOLD HERE

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BOREHOLE RECORD

BIT SIZE	FROM	TO
9.875	204	1100

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
24			0	204

REMARKS

RUN 1: PORZ RECORDED ON A LIMESTONE MATRIX (2.71 G/CC).
CNCF RECORDED ON LIMESTONE MATRIX WITH CALIPER CORRECTION.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	ZDL	2228MA	152993	PAD
1	1	GR	1329XA	172724	DECENT.
1	1	COMR	3510XA	168585	FREE
1	1	CN	2438XA	153099	DECENT.

MAIN LOG LIMESTONE MATRIX PRESENTATION

Release:2.3 Nov 15, 1996
Updates:1

Plotmgr 3.12a
Pcrplt 2.25

Cplot 1.60
Pdf_cpp 1.8

Thu Mar 6 18:52:54 1997

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd0611197/b854b03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 188.000 ft BOTTOM DEPTH: 1090.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
GR	FILTER ()	medium (1)		..	..
CN	FILTER ()	medium (1)		..	..
ZDL	FILTER ()	medium (1)		..	..
SPEED	FILTER ()	medium (1)		..	..
TENSION	FILTER ()	medium (1)			

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.0000	in	..	..
BIT SIZE	BIT SIZE	9.875	in	..	..
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh#)	USE CALIPER		..	..
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh#)	7.875	in		

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CN CHI-SMOOTH FILTER	CN CHISM	ON		..	..
CN CASING & CEMENT CORRECTION	CASING THICKNESS	0.000	in	..	..
	CEMENT THICKNESS	0.000	in		
CN MATRIX	MATRIX	LIMESTONE		..	..
CN SALINITY CORRECTION	SALINITY	0	ppm	..	..

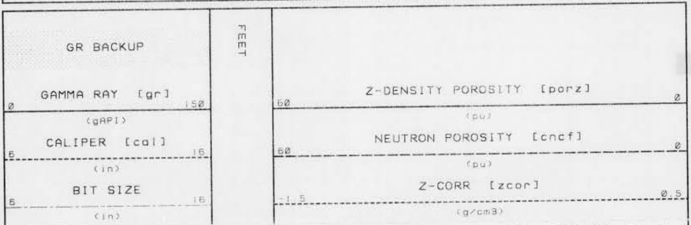
ZDL PROCESSING

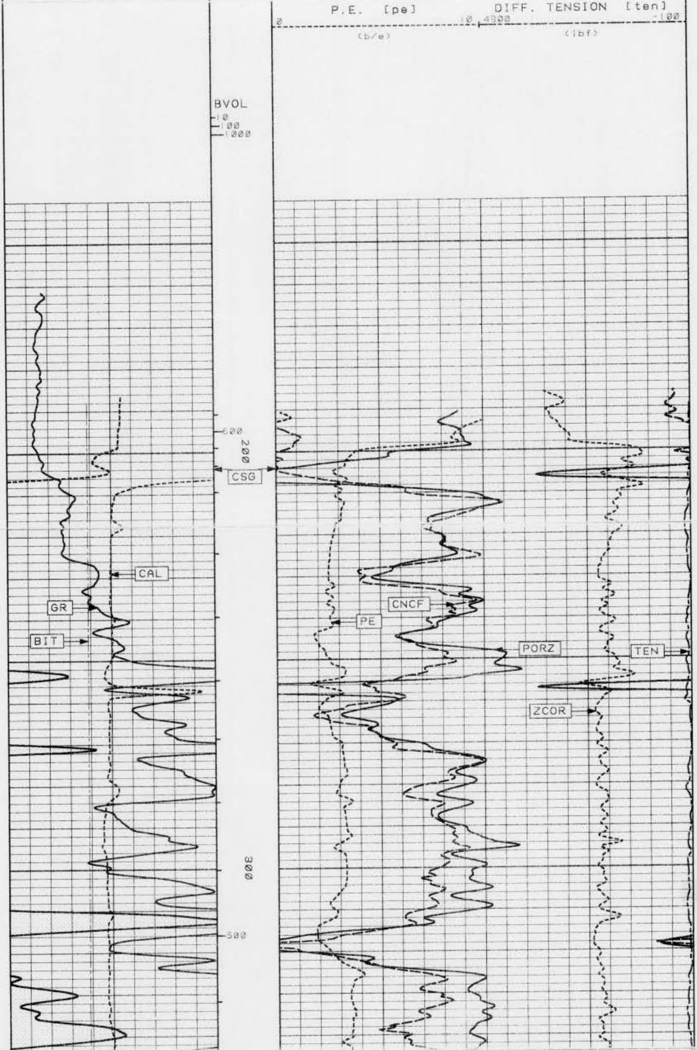
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
ZDL CHI-SMOOTH FILTER	DEN CHISM	ON		..	..
	PE CHISM	ON		..	..
DENSITY POROSITY	RHOmatrix	2.710	g/cm3	..	..
	RHOfluid	1.000	g/cm3		
ZDL	ZDL TRACKING	ON		..	..

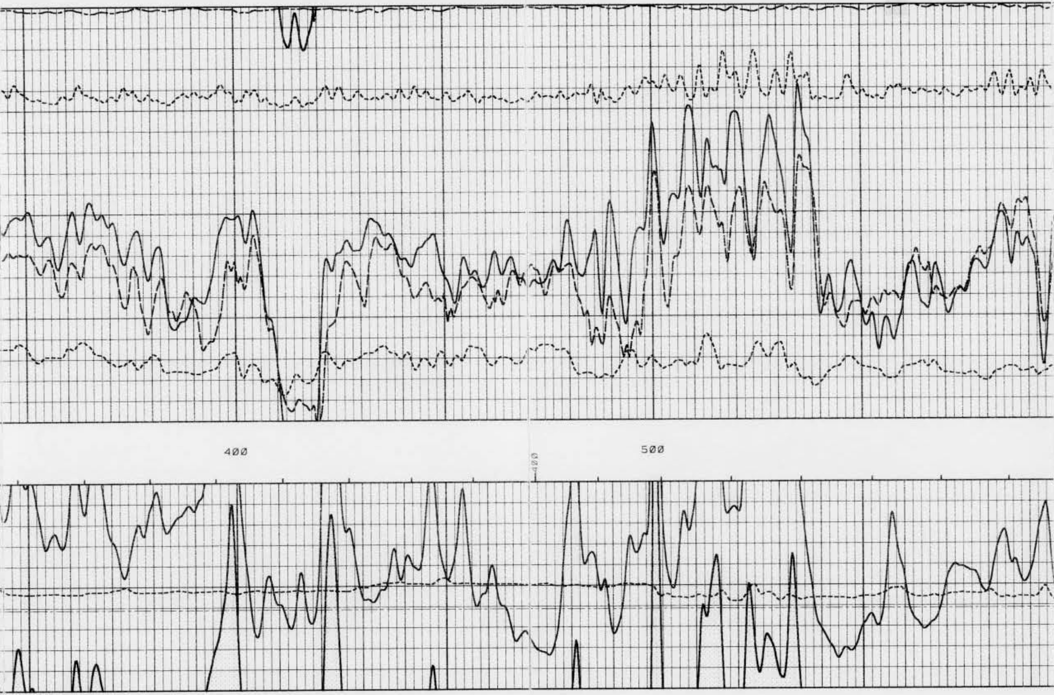
CURVE FIRST READING REPORT

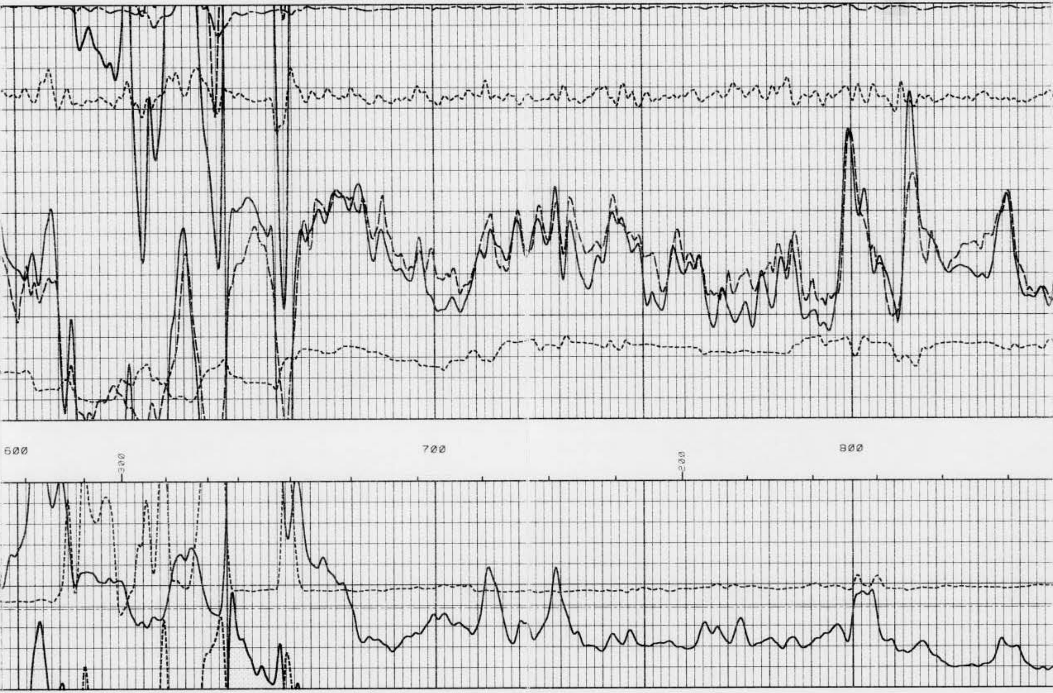
CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
bit	0.00	cncf	12.50	porz	5.25		
bvol	3.50	gr	28.00	ten	0.00		
cal	3.25	pe	5.50	zcor	3.75		

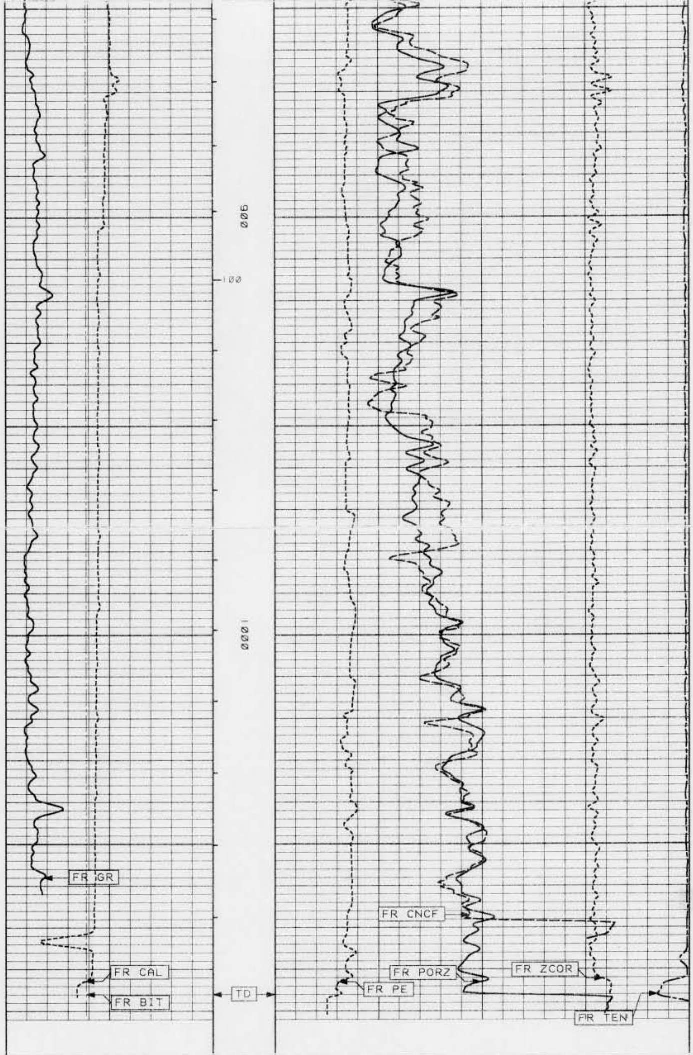
Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : zdl-cn.log
Data File : /datla/sfwmd0611197/b854b03.xtf
Interval : 141.50 - 1091.00 Feet Logged Up
Created : Mar 6 18:10:23 1997

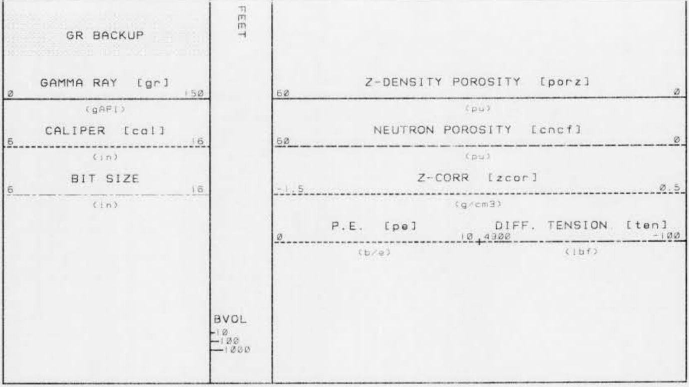












BULK DENSITY PRESENTATION

Release:2.3 Nov 15, 1996 Plotmgr 3.12a Cplot 1.60 Thu Mar 6 20:30:41 1997
Updates:1 Pcrplt 2.25 Pdf_cpp 1.8

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd061197/b854b03.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 188.000 ft BOTTOM DEPTH: 1090.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
GR	FILTER ()	medium (1)			
ZDL	FILTER ()	medium (1)		''	''
SPEED	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.0000	in	TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	in	''	''

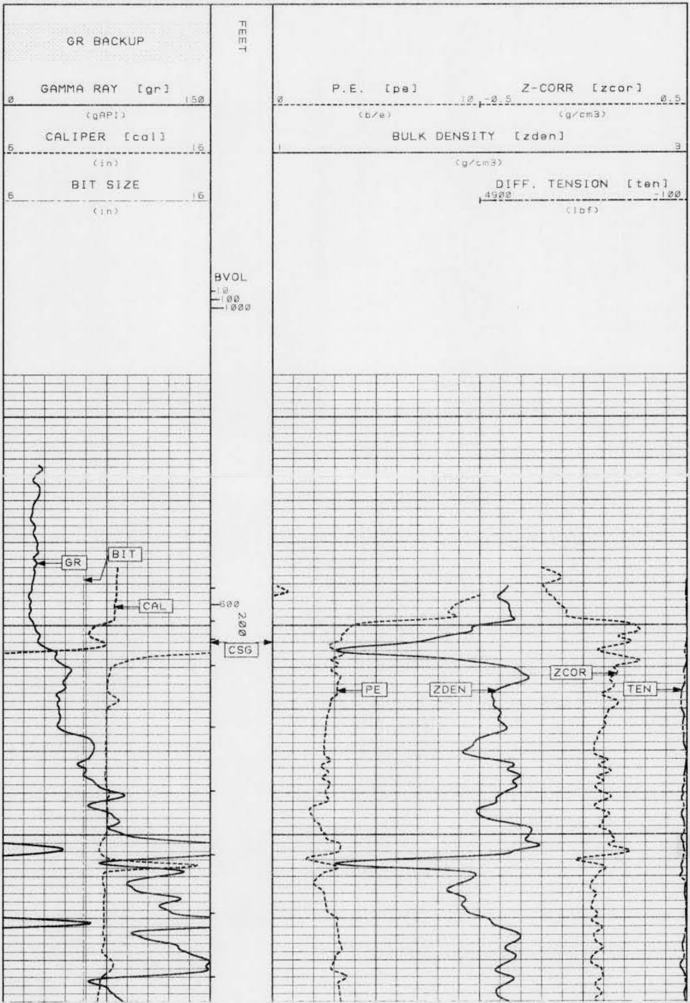
ZDL PROCESSING

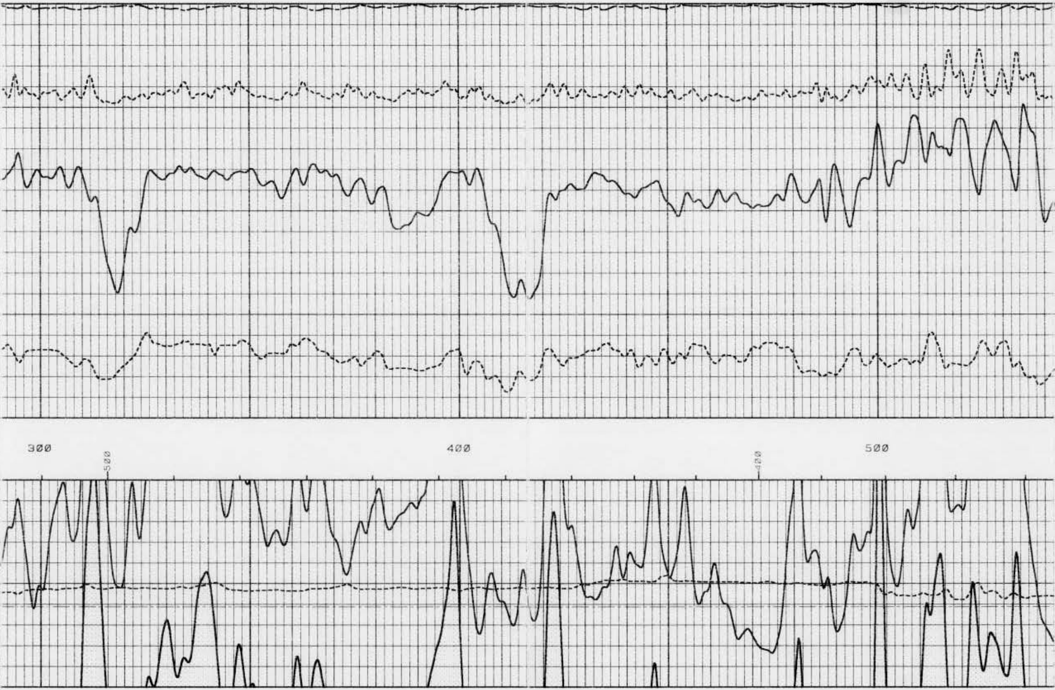
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
ZDL CHI-SMOOTH FILTER	DEN CHISM	ON		TOP	BOTTOM
	PE CHISM	ON		''	''
ZDL	ZDL TRACKING	ON		''	''

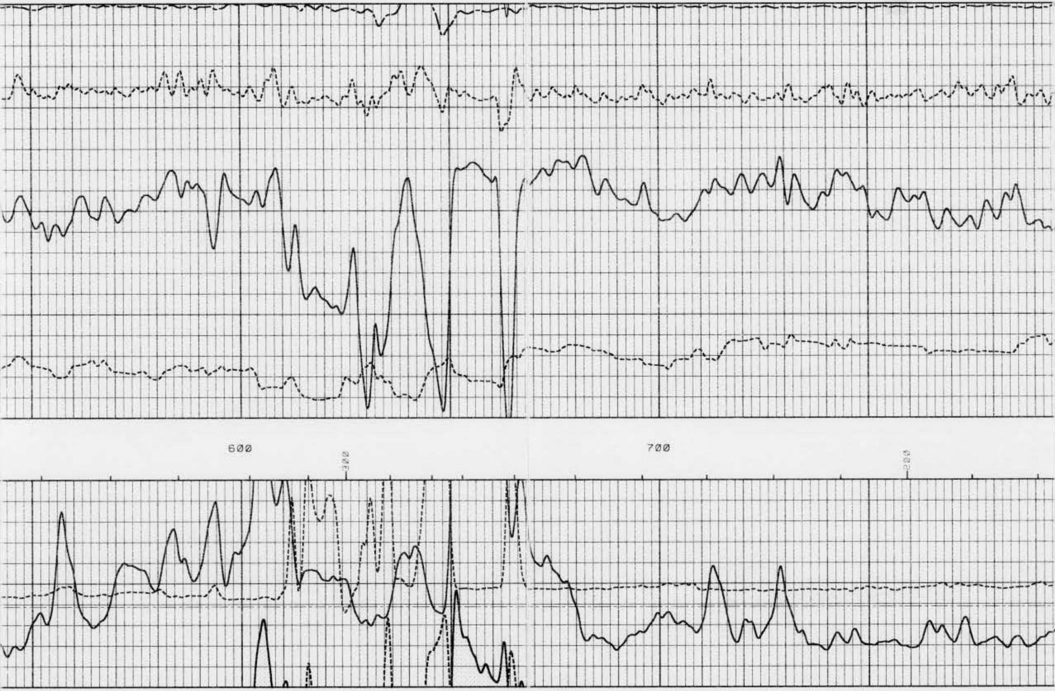
CURVE FIRST READING REPORT

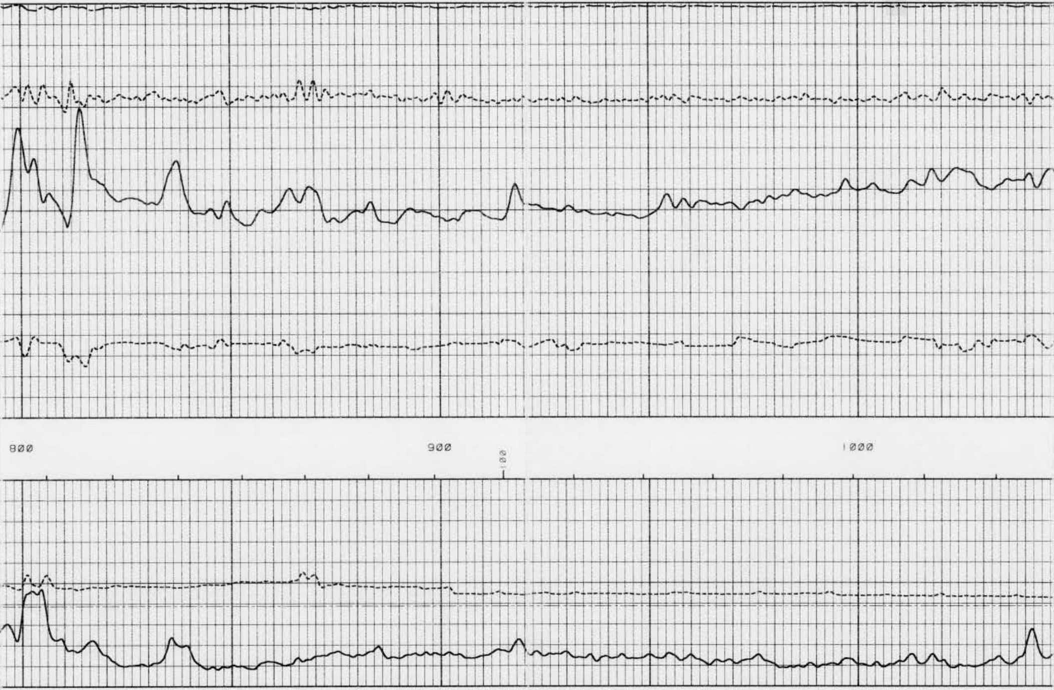
CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
bit	0.00	cal	3.25	pe	5.50	zcor	3.75
bvol	3.50	gr	28.00	ten	0.00	zden	5.25

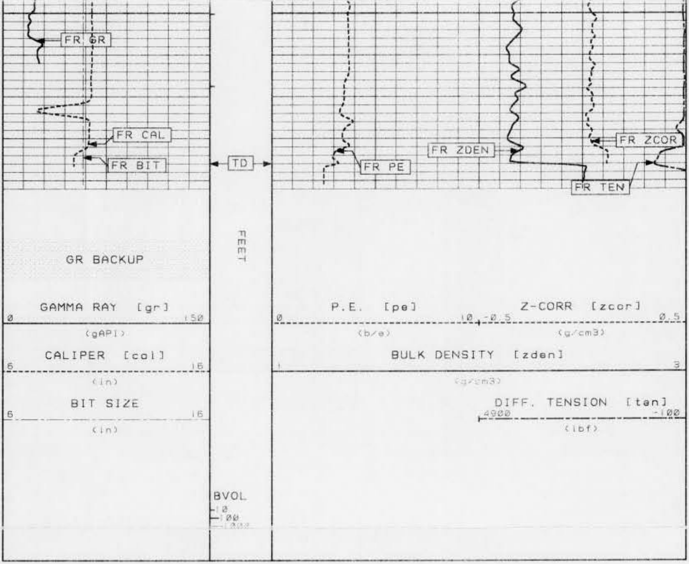
Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : zdl.log
Data File : /datla/sfwmd061197/b854b03.xtf
Interval : 141.50 - 1091.00 Feet Logged Up
Created : Mar 6 18:10:23 1997











REPEAT LOG RUN #1

Release:2.3 Nov 15, 1996 Plotmgr 3.12a Cplot 1.50 Thu Mar 6 18:02:35 1997
Updates:1 Pcrplt 2.25 Pdf_cpp 1.8

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd061197/b854b01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 894.000 ft BOTTOM DEPTH: 1088.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
CN	FILTER ()	medium (1)		''	''
ZDL	FILTER ()	medium (1)		''	''
SPEED	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	''

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.0000	in	TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	in	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh#)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh#)	7.875	in	''	''

CN PROCESSING

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
CN CHI-SMOOTH FILTER	CN CHISM	ON			
CN CASING & CEMENT CORRECTION	CASING THICKNESS	0.000	in	..	..
	CEMENT THICKNESS	0.000	in	..	..
CN MATRIX	MATRIX	LIMESTONE		..	..
CN SALINITY CORRECTION	SALINITY	0	ppm	..	..

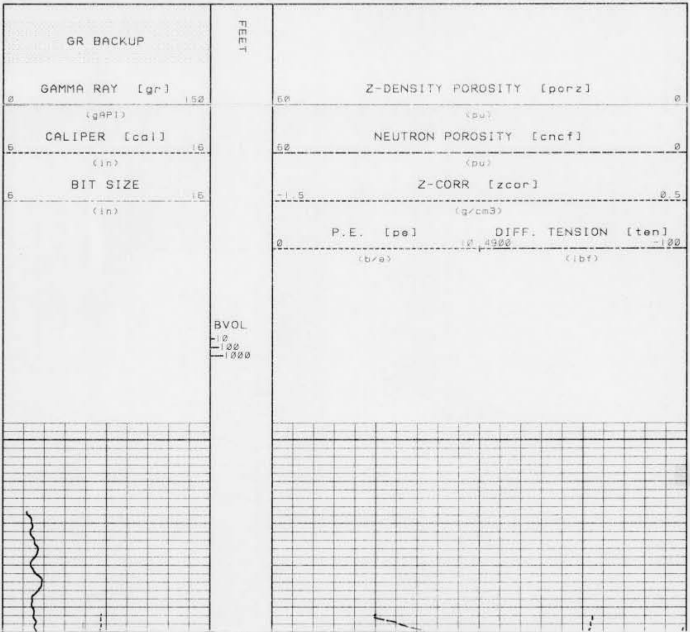
ZDL PROCESSING

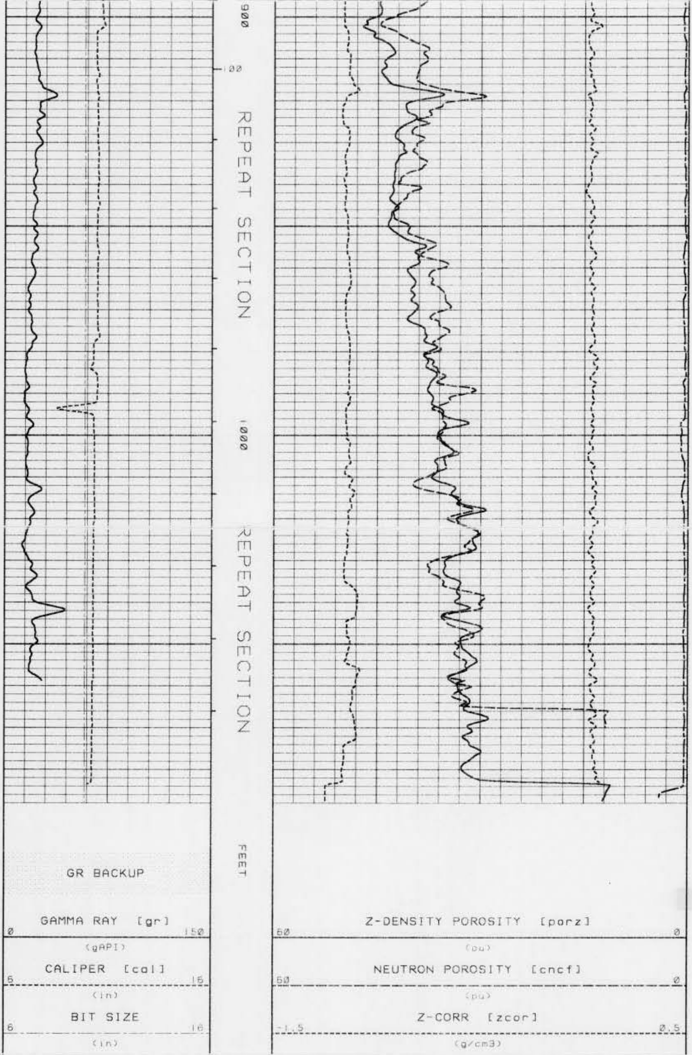
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
ZDL CHI-SMOOTH FILTER	DEN CHISM	ON			
	PE CHISM	ON		..	..
DENSITY POROSITY	RHOmatrix	2.710	g/cm3	..	..
	RHOfluid	1.000	g/cm3	..	..
ZDL	ZDL TRACKING	ON		..	..

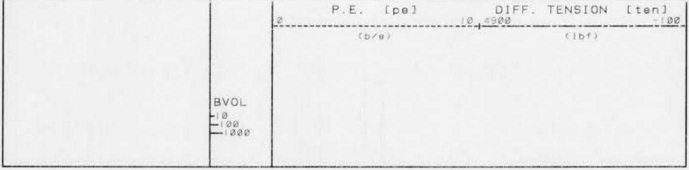
CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
bit	0.00	cncf	12.50	porz	5.25		
bvol	3.50	gr	28.00	ten	0.00		
cal	3.25	pe	5.50	zcor	3.75		

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : zdl-cn.log
Data File : /datia/sfwmd05iii97/b854b01.xtf
Interval : 846.50 - 1088.00 Feet Logged Up
Created : Mar 5 17:46:09 1997







SECOND REPEAT LOG RUN #1

Release:2.3 Nov 15, 1996	Plotmgr 3.12a	Cplot 1.60	Thu Mar 6 18:35:43 1997
Updates:1	Pcrplt 2.25	Pdf_cpp 1.8	

PARAMETER AND FILTER SUMMARY REPORT

FILE: /datla/sfwmd06iii97/b854b02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 837.750 ft BOTTOM DEPTH: 1093.500 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
				TOP	BOTTOM
GR	FILTER ()	medium (1)		TOP	BOTTOM
CN	FILTER ()	medium (1)		''	''
ZDL	FILTER ()	medium (1)		''	''
SPEED	FILTER ()	medium (1)		''	''
TENSION	FILTER ()	medium (1)		''	

BOREHOLE & CEMENT

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CASING - BOREHOLE & CEMENT VOLUME	CASING O.D.	0.0000	in	TOP	BOTTOM
BIT SIZE	BIT SIZE	9.875	in	''	''
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (cnbh#)	USE CALIPER		''	''
BOREHOLE CORR DIAMETER	FIXED DIAMETER (cnbh#)	7.875	in	''	''

CN PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CN CHI-SMOOTH FILTER	CN CHISM	ON		TOP	BOTTOM
CN CASING & CEMENT CORRECTION	CASING THICKNESS	0.000	in	''	''
	CEMENT THICKNESS	0.000	in	''	''
CN MATRIX	MATRIX	LIMESTONE		''	''
CN SALINITY CORRECTION	SALINITY	0	ppm	''	''

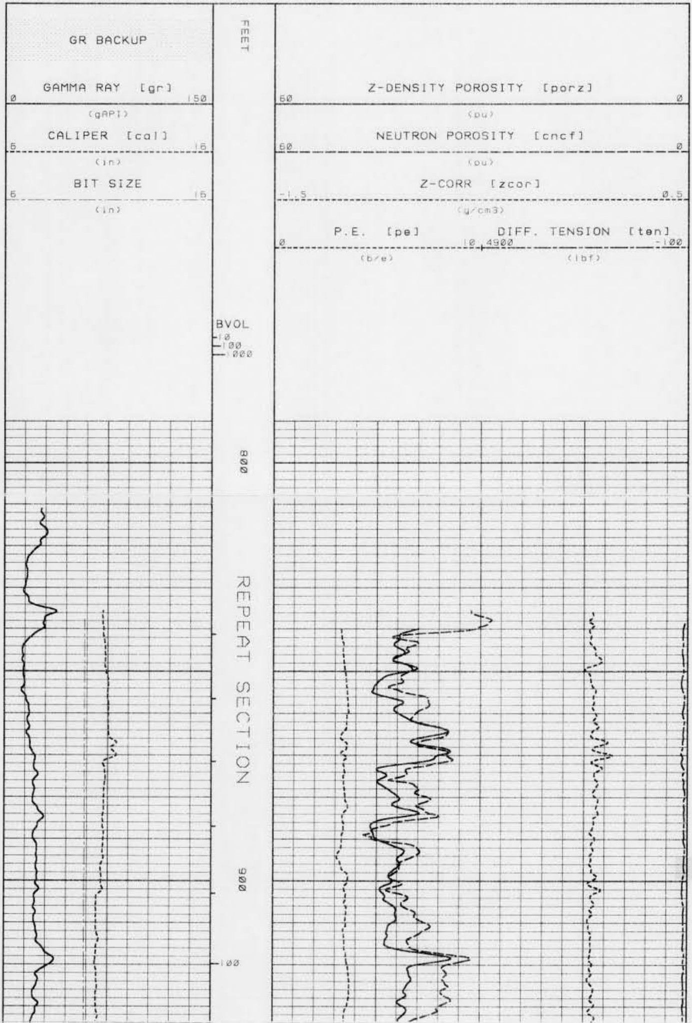
ZDL PROCESSING

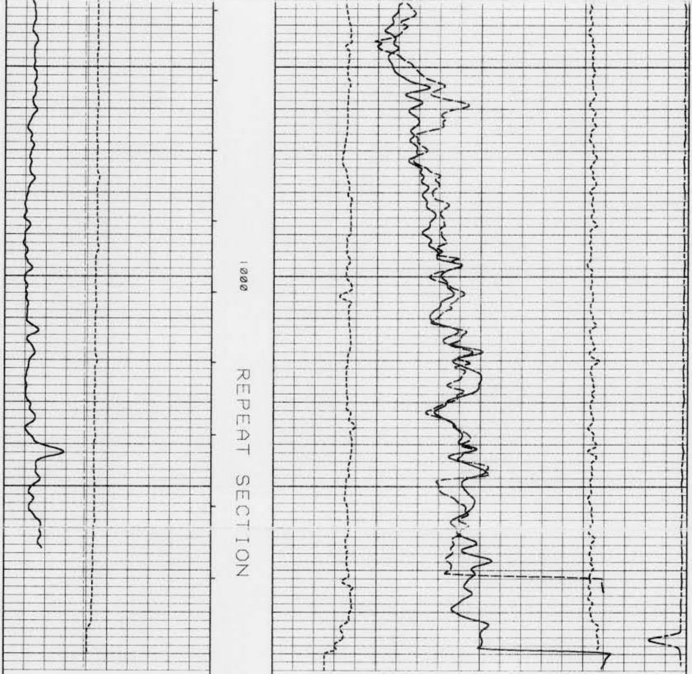
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
ZDL CHI-SMOOTH FILTER	DEN CHISM	ON		TOP	BOTTOM
	PE CHISM	ON		''	''
DENSITY POROSITY	RHOmatrix	2.710	g/cm3	''	''
	RHOfluid	1.000	g/cm3	''	''
ZDL	ZDL TRACKING	ON		''	''

CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
bit	0.00	cncf	12.50	porz	5.25		
bvol	3.50	gr	28.00	ten	0.00		
cal	3.25	pe	5.50	zcor	3.75		

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : WILDCAT
Presentation : zdl-cn.log
Data File : /datla/sfwmd06iii97/b854b02.xtf
Interval : 790.50 1094.00 Feet Logged Up
Created : Mar 6 17:56:25 1997





FEET

GR BACKUP

GAMMA RAY [gr]
0 150
(gAPI)

CALIPER [cal]
6 16
(in)

BIT SIZE
6 16
(in)

Z-DENSITY POROSITY [porz]
60 0
(pu)

NEUTRON POROSITY [cncf]
60 0
(pu)

Z-CORR [zcor]
-1.5 0.5
(g/cm3)

P.E. [pe] DIFF. TENSION [ten]
0 10 4900 -100
(b/e) (lbf)

BVOL
10
100

Source File: /data/sfwmd06iii97/b054b.tpl.bdl

CALIBRATION / VERIFICATION SUMMARY

Source File: /data/sfwmd05ili97/b854b.tpl

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Mon Feb 10 10:02:47 1997

UNIT #: 3880TB HL6561 CALB JIG #: 4702NK DA0582

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	CALBRTR
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	395.09	1312.16	0.164	64.62	214.62	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Mon Feb 10 10:05:41 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	399.49	1313.36	0.164	65.34	214.82	149.48 140.00 160.00

GR BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Thu Mar 06 08:07:46 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	436.36	1359.42	0.164	71.37	222.35	150.98 139.48 159.48

GR AFTER LOG VERIFICATION SUMMARY

TOOL #: 1329XA 172724 DATE/TIME PERFORMED: Thu Mar 06 19:10:02 1997

UNIT #: 3880TB HL6561 VERI JIG #: 4702NK DA0582

	BACKGROUND	CALBRTR ON	MULT	BACKGROUND	CALBRTR ON	DIFF.
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	434.13	1366.84	0.164	71.01	223.57	152.56 140.98 160.98

CN PRIMARY CALIBRATION SUMMARY

TOOL #: 2438XA 153099 DATE/TIME PERFORMED: Mon Feb 10 11:40:04 1997

UNIT #: 3880TB HL6561 CALIBRATOR #: 2437XB 114695 SOURCE #: 4717XS 064862

	UPHOLE (cts/s)	SCALER	SCALED (cts/s)	MEASURED SSN/LSN	NOMINAL SSN/LSN	CORRECTION FACTOR	POROSITY (pu)
LSN	82.61	4.00	330.42				
SSN	176.02	16.00	2816.25				
RATIO				8.5232 7.6336 9.0989	8.3100	0.9750	
CN							25.725

CN PRIMARY VERIFICATION SUMMARY

TOOL #: 2438XA 153099 DATE/TIME PERFORMED: Mon Feb 10 11:48:32 1997

UNIT #: 3880TB HL6561 ICE BLOCK #: 4717ND D00263

	UPHOLE (cts/s)	SCALER	SCALED (cts/s)	MEASURED SSN/LSN	CORRECTION FACTOR	CORRECTED SSN/LSN	POROSITY (pu)
LSN	76.36	4.00	305.46				
SSN	143.86	16.00	2301.78				
RATIO				7.55955	0.97498	7.37044	
CN							20.202

CN BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2438XA 153099 DATE/TIME PERFORMED: Thu Mar 06 17:07:47 1997

UNIT #: 3880TB HL6561 ICE BLOCK #: 4717ND D00263

	UPHOLE (cts/s)	SCALER	SCALED (cts/s)	MEASURED SSN/LSN	CORRECTION FACTOR	CORRECTED SSN/LSN	POROSITY (pu)
LSN	79.41	4.00	317.64				
SSN	152.28	16.00	2436.44				
RATIO				7.69813	0.97498	7.50556	
CN							20.981 18.202 22.202

CN AFTER LOG VERIFICATION SUMMARY

TOOL #: 2438XA 153099 DATE/TIME PERFORMED: Thu Mar 06 19:09:37 1997

UNIT #: 3880TB HL6561 ICE BLOCK #: 4717ND D00263

	UPHOLE (cts/s)	SCALER	SCALED (cts/s)	MEASURED SSN/LSN	CORRECTION FACTOR	CORRECTED SSN/LSN	POROSITY (pu)
LSN	77.76	4.00	311.02				
SSN	151.69	16.00	2427.02				
RATIO				7.83006	0.97498	7.63419	
CN							21.735 18.981 22.981

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Thu Mar 06 17:14:06 1997

UNIT #: 3880TB HL6561

	SMALL RING (raw)	LARGE RING (raw)	MULT	ADD	SMALL RING (in)	LARGE RING (in)
CALIPER	983.5	2321.5	0.00598	1.11958	7.000	15.000

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Thu Mar 06 17:36:12 1997

UNIT #: 3880TB HL6561

	I.D. (raw)	MULT	ADD	I.D. (in)
CALIPER	3440.7	0.00598	1.11958	21.692

CAL AFTER LOG VERIFICATION SUMMARY

TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Thu Mar 06 18:40:20 1997

UNIT #: 3880TB HL6561

	I.D. (raw)	MULT	ADD	I.D. (in)
CALIPER	3461.0	0.00598	1.11958	21.813 21.192 22.192

ZDL PRIMARY CALIBRATION SUMMARY

TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Tue Jan 28 16:30:12 1997

UNIT #: 3880TB HL6561 CALB. BLOCK SET: 2225XA 943048 CS SOURCE #: 4703NT 000677

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
MG BLOCK (LO PE)	9704.0	4048.7	4894.9	0.695 0.635 0.725	1.690	0.008	2.270
AL BLOCK	4805.3	398.9	508.6		2.692	-0.014	
AL+SHIM (CORR)	6727.1	699.7	881.4		2.604	0.165	
MG+SHIM (HI PE)		1905.5	2453.6	0.283 0.270 0.310			10.710
RATIO MG/AL	2.02 1.97 2.07	10.15 9.40 10.40	9.63 8.75 9.75				

BACKGROUND (cts/s)	CS PEAK CHANNEL #	AM PEAK CHANNEL #
1302.1	229.6 225.0 235.0	24.2 21.0 25.0

ZDL PRIMARY VERIFICATION SUMMARY

TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Tue Jan 28 16:53:11 1997

UNIT #: 3880TB HL6561 VERI. JIG #: 4704NA 201302

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
FIELD BLOCK	8915.2	1511.6	4683.1	0.177	1.899	0.040	16.394

ZDL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Thu Mar 06 17:04:32 1997

UNIT #: 3880TB HL6561 VERI. JIG #: 4704NA 201302

	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
FIELD BLOCK	9120.4	1504.1	4642.5	0.177	1.927	0.065	16.361
				0.157 0.197	1.874 1.924	0.015 0.065	

ZDL AFTER LOG VERIFICATION SUMMARY

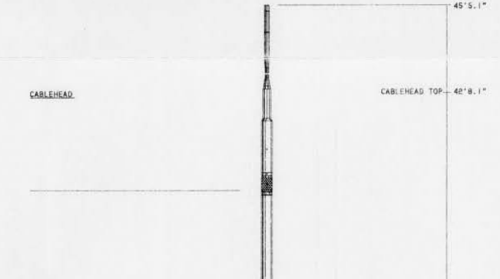
TOOL #: 2228MA 152993 DATE/TIME PERFORMED: Thu Mar 06 19:10:04 1997

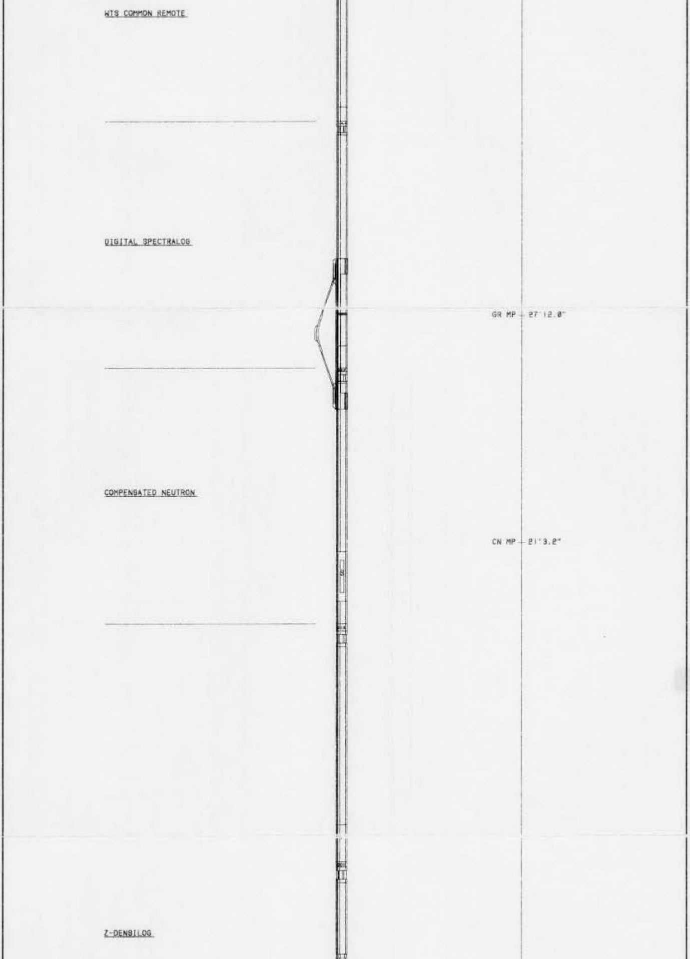
UNIT #: 3880TB HL6561 VERI. JIG #: 4704NA 201302

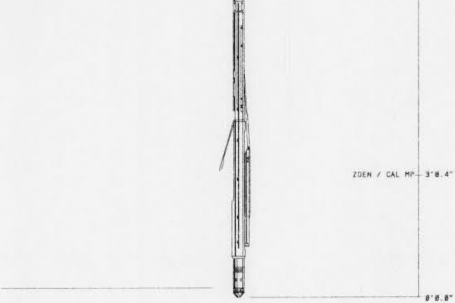
	SSD-NDTC (cts/s)	HRD1-NDTC (cts/s)	HRD2-NDTC (cts/s)	SHR	DEN (g/cm3)	CORR (g/cm3)	PE (b/e)
FIELD BLOCK	9047.6	1516.0	4706.3	0.177	1.910	0.053	16.378
				0.157 0.197	1.902 1.952	0.040 0.090	

INSTRUMENT CONFIGURATION

Source File: /datla/sfwmd05iii97/zdlcn-tdg







TOTAL LENGTH: 45'5.1"
TOTAL WEIGHT: 1371 lbs
MAX DIAMETER: 0'4.88"

WESTERN ATLAS

COMPANY SOUTH FLORIDA WATER MANAGEMENT DISTRICT WELL LAB-TW FIELD CALOOSAHATCHEE RIVER COUNTY HENDRY STATE FLORIDA		FILE NO: API NO:
LOCATION: NE/4 SEC 12 TWP 43S RGE 28E	ELEVATIONS KB 25 FT DF 24 FT GL 15 FT	
	DATE 06-MAR-97	

WESTERN ATLAS

DIFFERENTIAL TEMPERATURE LOG
SPINNER
X-Y CALIPER
GAMMA RAY LOG

FILE NO:

API NO:

COMPANY	SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL	LAB-TW
FIELD	CALOOSAHATCHEE RIVER
COUNTY	HENDRY
STATE	FLORIDA

LOCATION:

NE/4

SEC 12 TWP 43S RGE 28E

OTHER SERVICES
DIFL/GR
ZDL/CN/GR
DAL/GR

PERMANENT DATUM GL ELEVATION 15 FT
LOG MEASURED FROM GL 0 FT ABOVE P.D.
DRILL. MEAS. FROM GL

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE	07-MAR-97			
RUN	1			
SERVICE ORDER	190219			
DEPTH DRILLER	1100 FT			
DEPTH LOGGER	1046 FT			
BOTTOM LOGGED INTERVAL	1046 FT			
TOP LOGGED INTERVAL	204 FT			
CASING - DRILLER	24 IN	@204 FT		@
CASING LOGGER	204 FT			
BIT SIZE	9.875 IN			
TYPE OF FLUID IN HOLE	FW			
DENSITY / VISCOSITY	8.3 LB/G			
PH / FLUID LOSS	7.2			
SOURCE OF SAMPLE	FLOWLINE			
RM AT MEAS. TEMP.	3.02 OHMM	@75 DEGF		@
RMF AT MEAS. TEMP.	N/A	@75 DEGF		@
RMC AT MEAS. TEMP.	N/A	@75 DEGF		@
SOURCE OF RMF./ RMC.	CALC.	CALC.		
RM AT BHT	2.80 OHMM	@81 DEGF		@
TIME SINCE CIRCULATION	2 HRS.			
MAX. RECORDED TEMP.	81 DEGF			
EQUIP. NO. / LOCATION	HL 6561	LAUREL, MS		
RECORDED BY	R. EMMETT			
WITNESSED BY	M. BENNETT			

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
9.875	204	1100

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
24			0	204

REMARKS

RUN 1: RUN 2 LOGGED BELOW DRILL PIPE FROM 650' TO 1046'.
LOG SPLICED AT 626'.
WELL WAS FLOWING 300 GAL/MIN WHILE LOGGING.
X-Y CALIPER AND G/R WERE MERGED FROM PREVIOUS LOG.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	TEMP	8221XA	151381	CENT.
1	1	SPNR	8258XA	176976	CENT.
1	1	PCM	8248XA	113647	FREE
1	1	CENT.	8260XA	123456	CENT.
1	1	X-Y CAL	4203XA	047589	X-Y
1	1	GR	1329XA	172724	FREE

MAIN LOG 5"/100FT SCALE

Release:2.3 Nov 15, 1996 Updates:1
Plotmgr 3.12a Pcrplt 2.25
Cplot 1.60 Pdf_cpp 1.8
Mon Mar 10 21:41:21 1997

CURVE FIRST READING REPORT

CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)	CURVE FR	(ft)
ccl	10.50	gr	1.00	spnr	0.00	ten	0.00
dtem	0.00	spd	0.00	temp	5.25		

Company : SOUTH FLORIDA WATER MANAGEMENT DISTRICT
Well : LAB-TW
Field : CALOOSAHATCHEE RIVER
Presentation : b380b.log
Data File : /datla/sfwmd06iii97/b380bs.xtf
Interval : 157.75 - 1050.50 Feet Logged Down
Created : Mar 7 11:18:17 1997

GR BACKUP

FEET

GAMMA RAY [gr]
0 250
(gAPI)

CALIPER 1-3 [c13]
0 30
(in)

CALIPER 2-4 [c24]
0 30
(in)

SPEED [spd]
0 200
(ft/min)

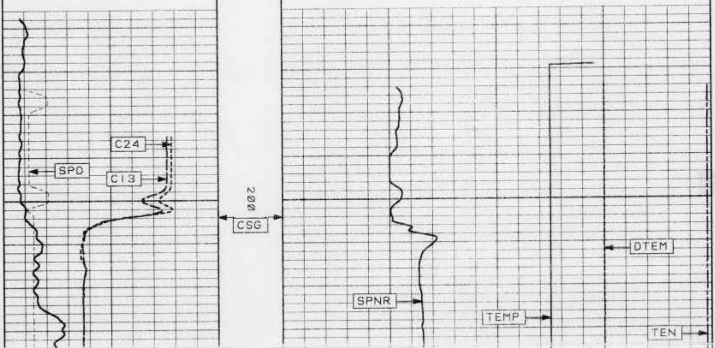
CCL

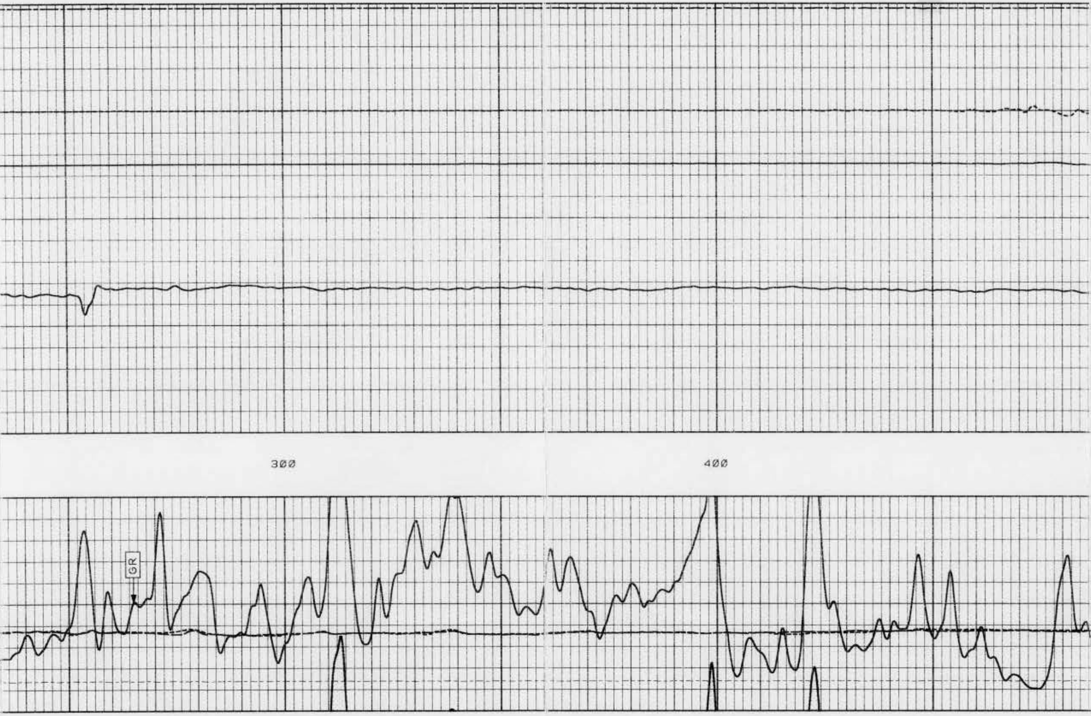
CSF RPS [spnr]
-25 25
(1/s)

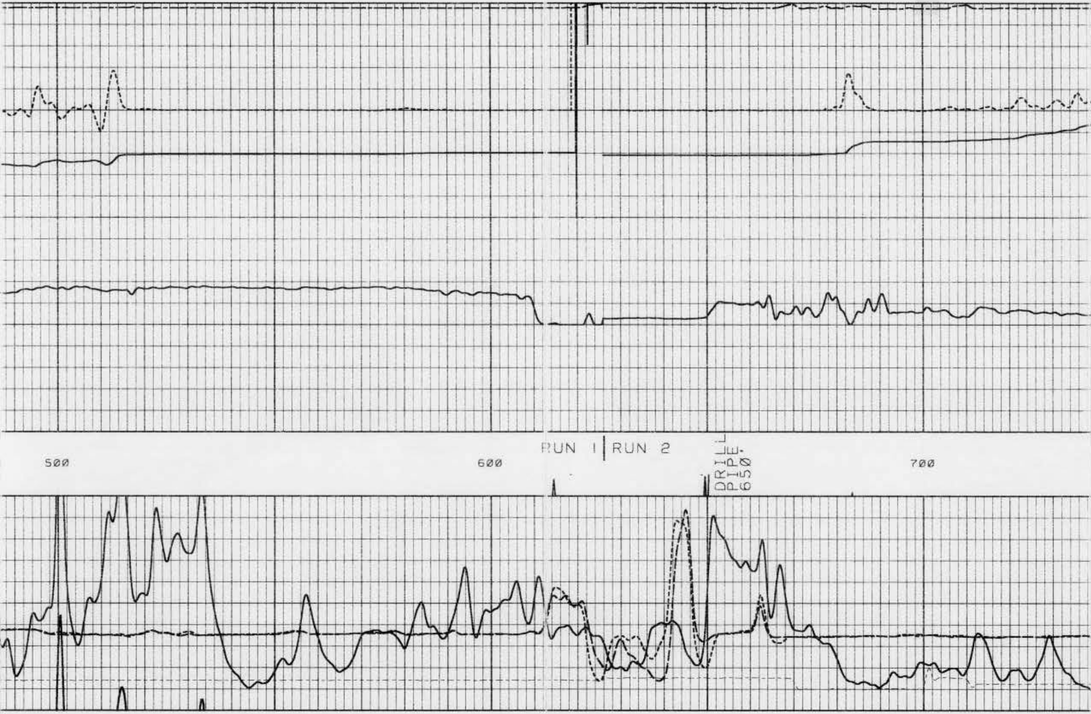
DIFF. TENSION [ten]
4900 -100
(lbf)

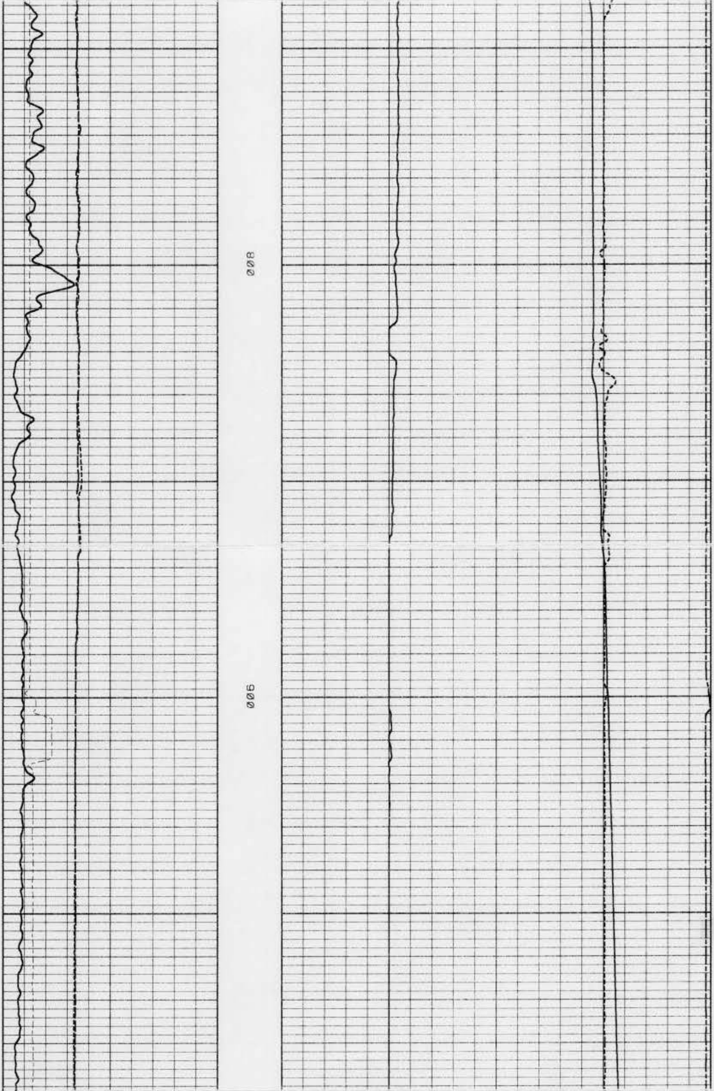
TEMPERATURE [temp]
75 85
(degF/ft)

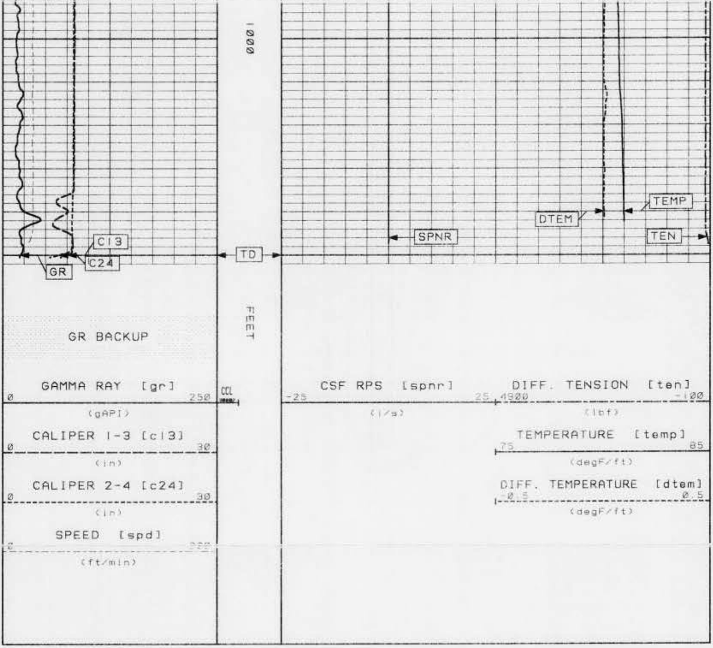
DIFF. TEMPERATURE [dtem]
-0.5 0.5
(degF/ft)











CALIBRATION / VERIFICATION SUMMARY

Source File: /datla/sfwmd06i1197/b732c.tpl

4CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 4203XA 047589

DATE/TIME PERFORMED: Thu Mar 06 19:31:56 1997

UNIT #: 3880T8 HL6561

	SMALL RING (raw)	LARGE RING (raw)	MULT	ADD	SMALL RING (in)	LARGE RING (in)
C13	580.7	1077.6	0.01610	-2.348	7.00	15.00
C24	680.7	1129.3	0.01783	-5.138	7.00	15.00

4CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 4203XA 047589 DATE/TIME PERFORMED: Thu Mar 06 19:52:37 1997

UNIT #: 3880TB HL6561

	I.D. (raw)	MULT	ADD	I.D. (in)
C13	1560.8	0.01610	-2.348	22.78
C24	1621.5	0.01783	-5.138	23.78

4CAL AFTER LOG VERIFICATION SUMMARY

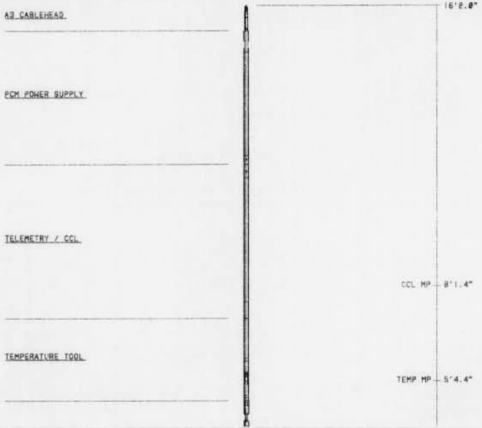
TOOL #: 4203XA 047589 DATE/TIME PERFORMED: Fri Mar 07 11:46:56 1997

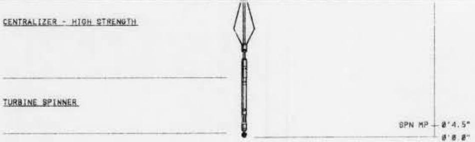
UNIT #: 3880TB HL6561

	I.D. (raw)	MULT	ADD	I.D. (in)
C13	1566.2	0.01610	-2.348	22.86 22.28 23.28
C24	1607.1	0.01783	-5.138	23.52 23.28 24.28

INSTRUMENT CONFIGURATION

Source File: /data/sfwmd06iii97/tempspnr-tdg





TOTAL LENGTH: 16'2.0"
TOTAL WEIGHT: 74 lbs
MAX DIAMETER: 0'1.70"

WESTERN ATLAS

COMPANY SOUTH FLORIDA WATER MANAGEMENT DISTRICT
WELL LAB-TW
FIELD CALOOSAHATCHEE RIVER
COUNTY HENDRY STATE FLORIDA

FILE NO:
API NO:

LOCATION:
NE/4
SEC 12 TWP 43S RGE 28E

ELEVATIONS
KB 25 FT
DF 24 FT
GL 15 FT

DATE 07-MAR-97