YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

DUAL INDUCTION LL3/SP LOG

Company	WATER RESOURCE SLTS.
Well	IW #1
Field	NCWRF
County	COLLIER
State	FL

Company	WATER RESOURCE SOLUTIONS, INC.		
Well	IW #1		
Field	NCWRF		
County	COLLIER	State	FLORIDA
Location	NCWRF-IW1 SE 1/4 S27 T48S R25E	Other Services	SEE COMMENTS
Permanent Datum	PAD	Elevation	15'
Log Measured From	GROUND LEVEL	Elevation	K.B. N/A D.F. 20.5' G.L. 15'
Drilling Measured From	PAD		

Date	21-MAR-2003		
Run Number	SEVEN		
Depth Driller	3250'		
Depth Logger	3250'		
Bottom Logged Interval	3250'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	96 DEG F		
Estimated Cement Top	N/A		
Time Well Ready	0900		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT MYERS		
Recorded By	LEE		
Witnessed By	T. NELSON	T. TUBBERT	N. KUGLER

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	59.5"	SURFACE	415'				
TWO	12.25"	CASING	1450'				
THREE	12.25"	CASING	2500'				
SEVEN	12.25"	CASING	3250'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	60"	.375 W.T.	SURFACE	8'
Prot. String	48"	.375 W.T.	SURFACE	410'
Production String	34"	.375 W.T.	SURFACE	1300'
Liner				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

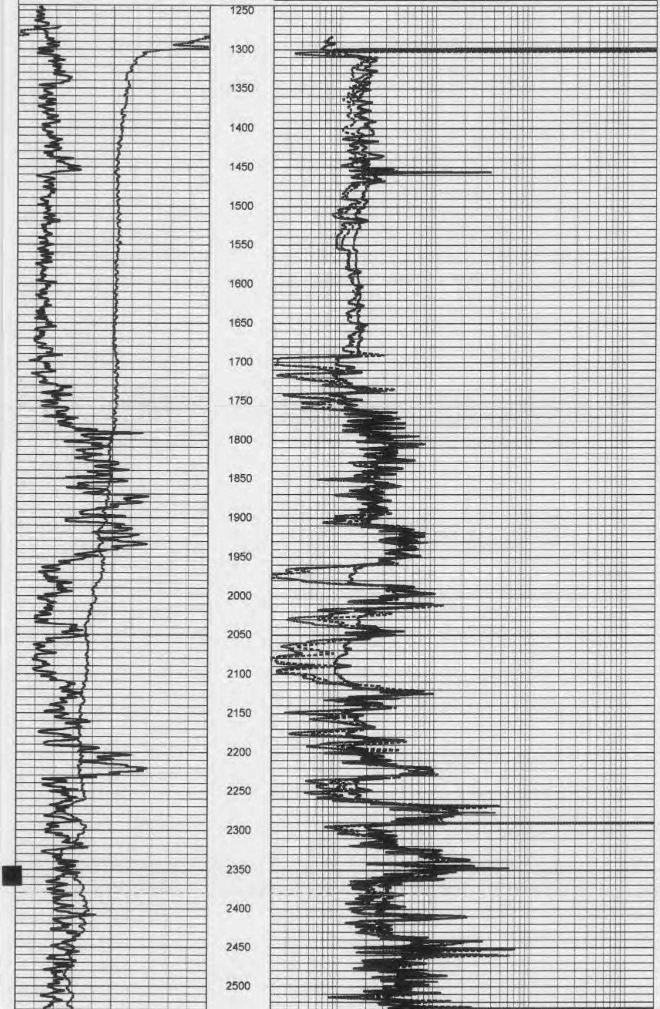
HRT
XYC/GR
BHC/SONIC/VDL
FLOWMETER

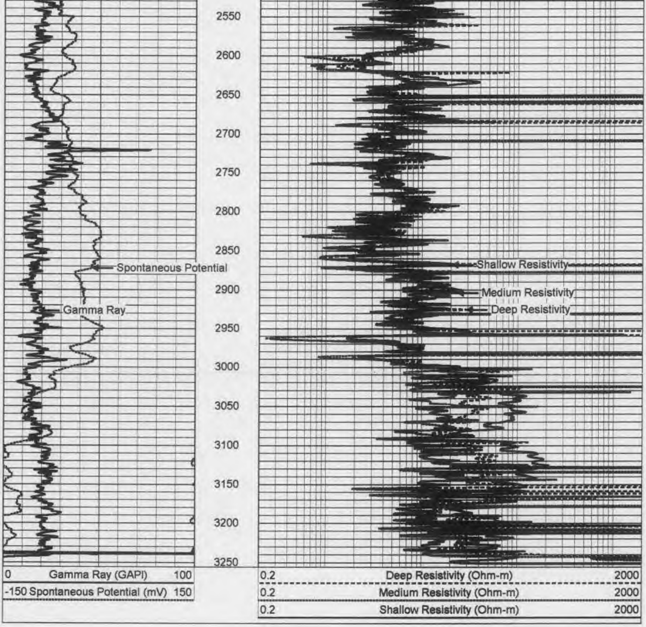
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File:	ncolliw1.db
Dataset Pathname:	run7/DILMP
Presentation Format:	dil
Dataset Creation:	Sat Mar 22 08:19:21 2003
Charted by:	Depth in Feet scaled 1:1200

0	Gamma Ray (GAPI)	100
-150	Spontaneous Potential (mV)	150
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

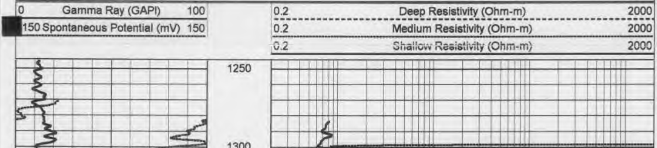


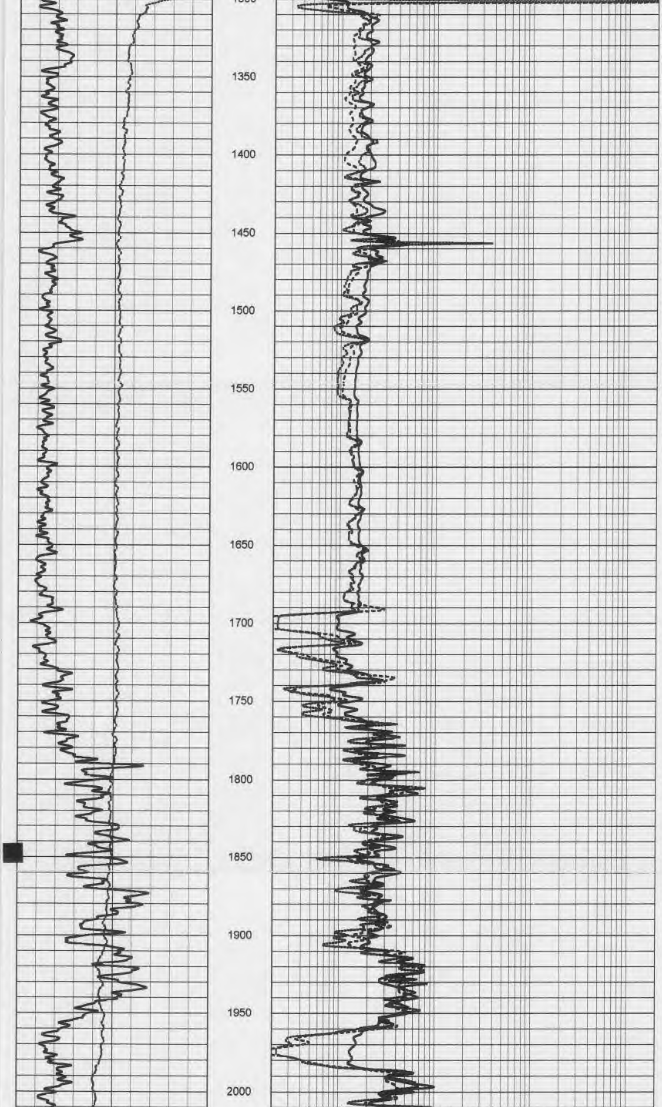


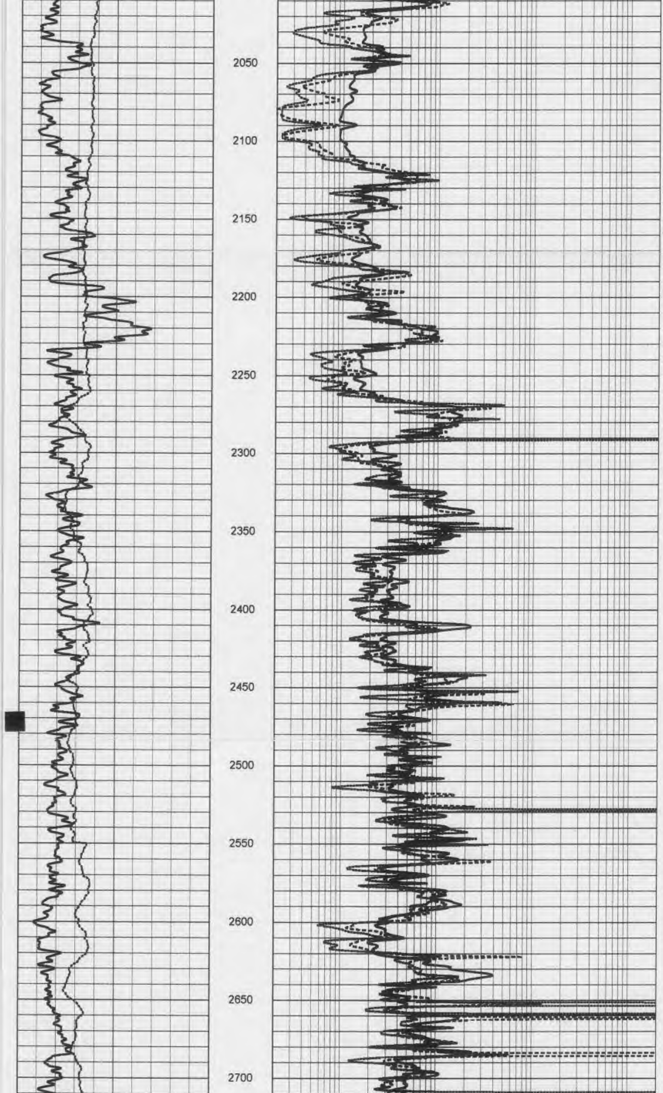
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

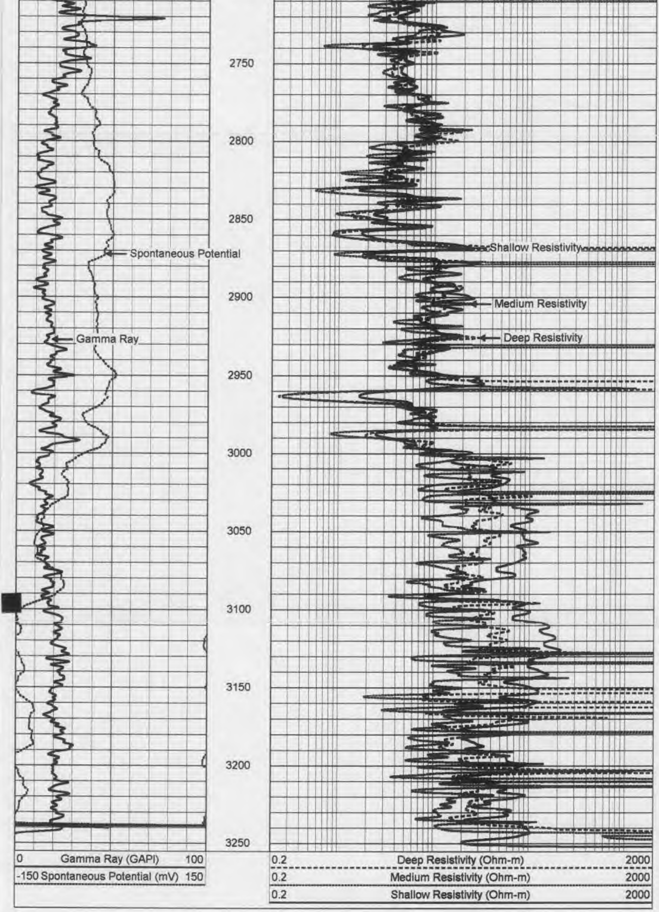
MAIN PASS

Database File:	ncolliw1.db
Dataset Pathname:	run7/DILMP
Presentation Format:	dil
Dataset Creation:	Sat Mar 22 08:19:21 2003
Charted by:	Depth in Feet scaled 1:600





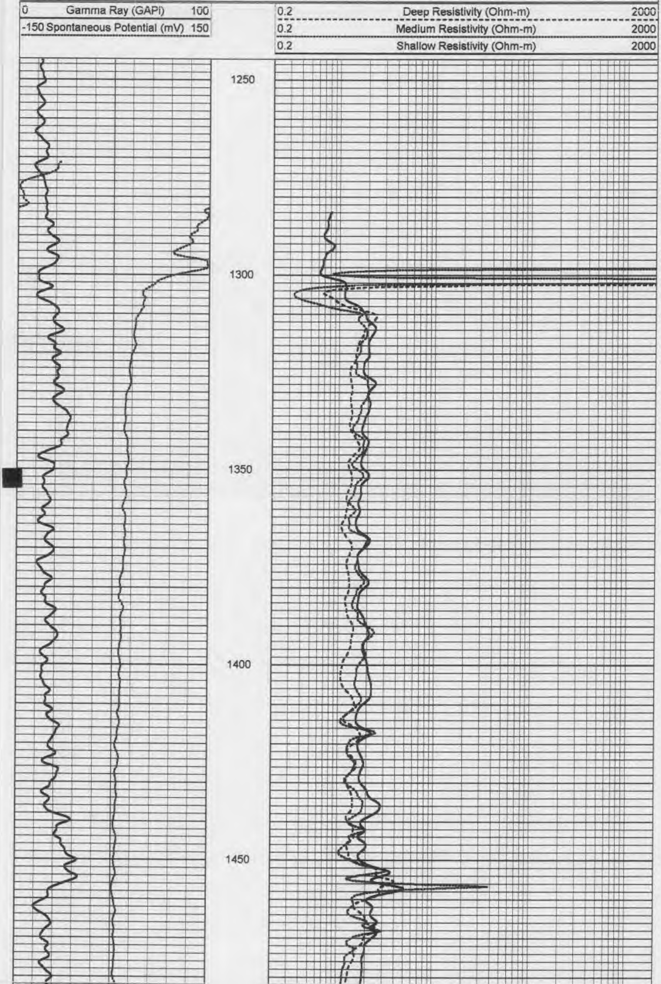


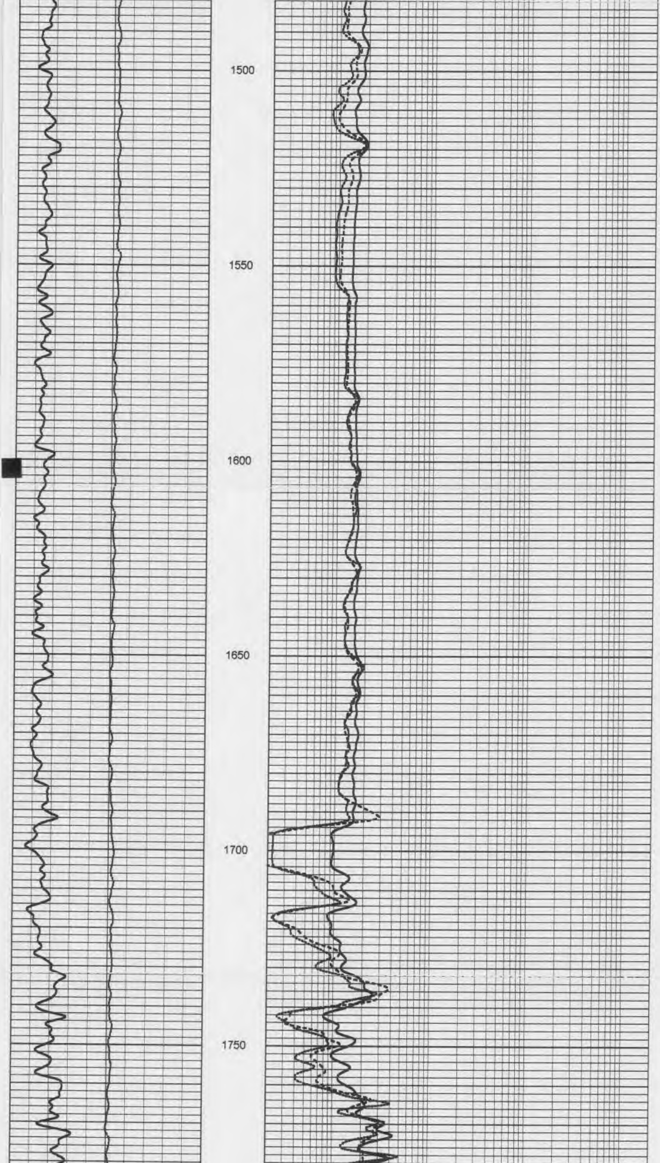


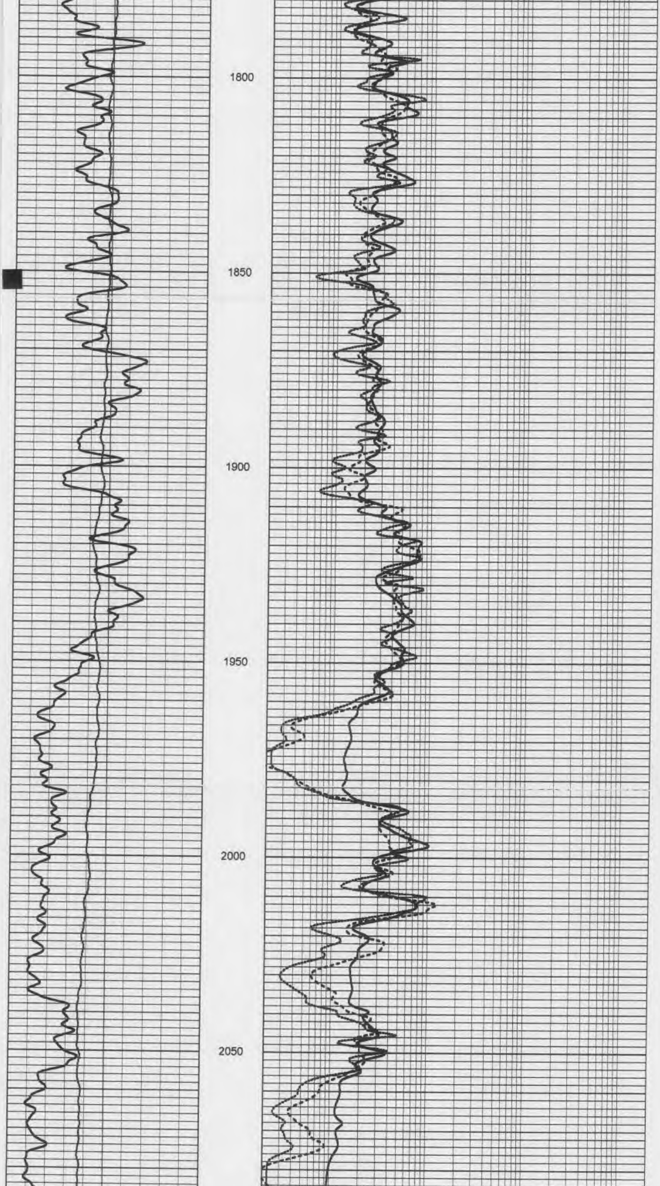
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

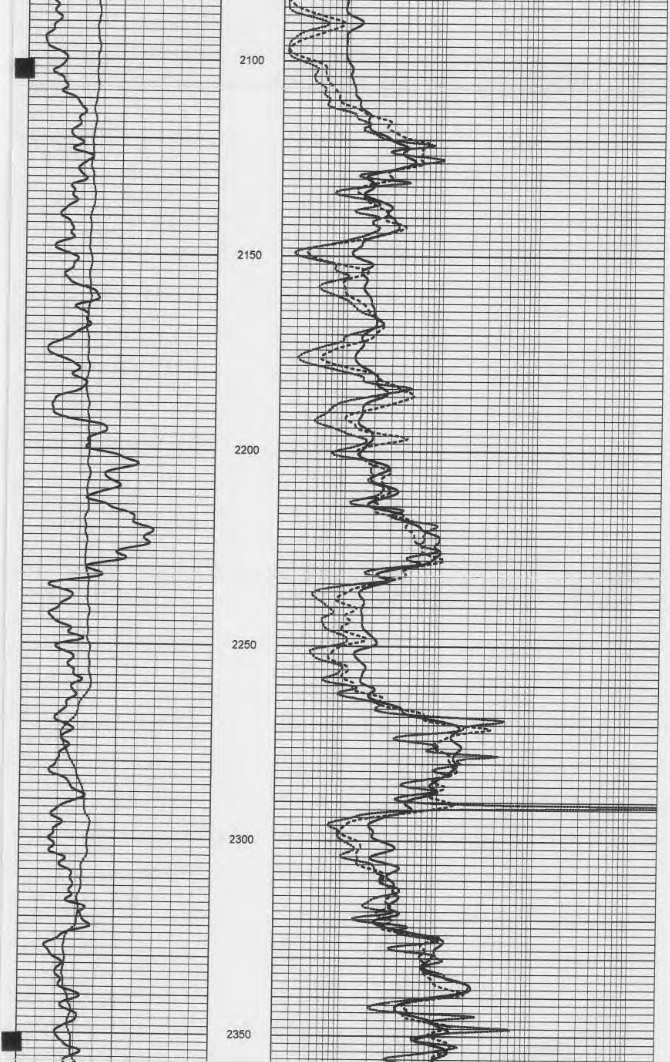
MAIN PASS

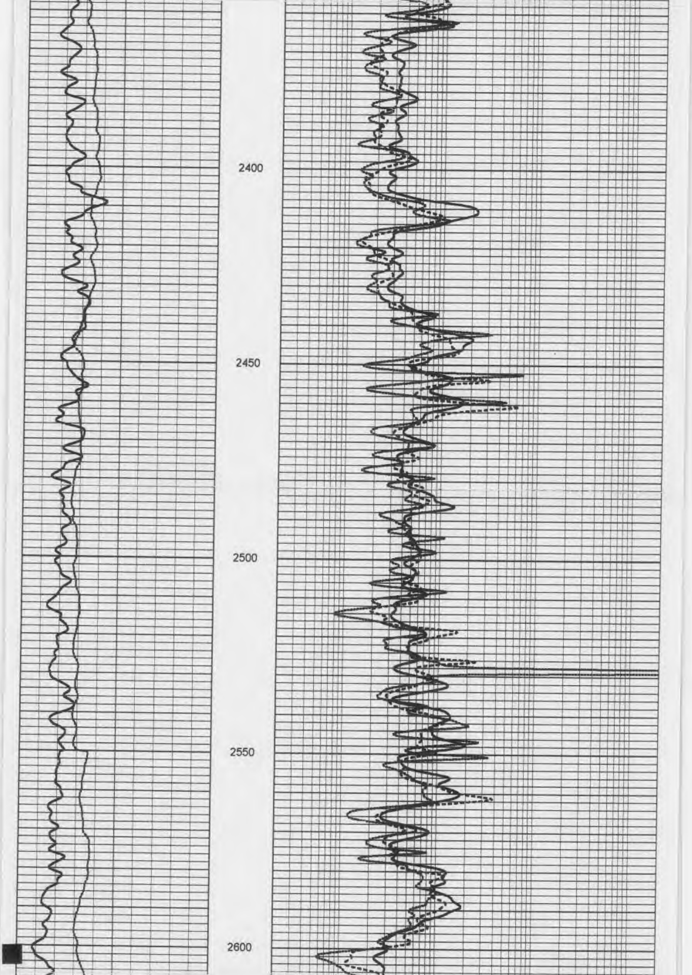
Database File: ncolliw1.db
Dataset Pathname: run7/DILMP
Presentation Format: dil
Dataset Creation: Sat Mar 22 08:19:21 2003
Charted by: Depth in Feet scaled 1:240

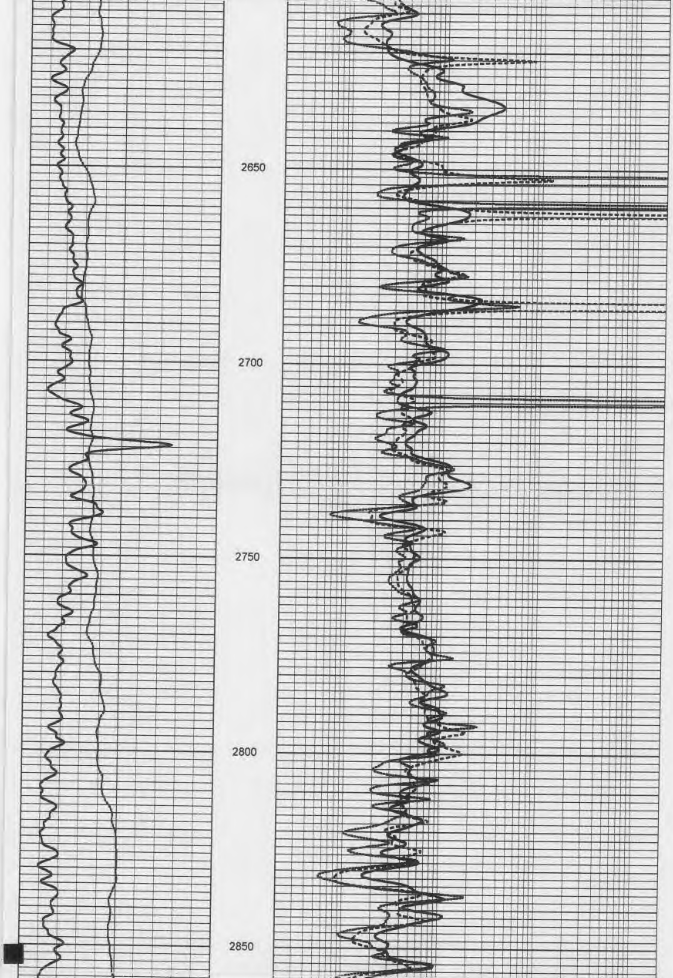


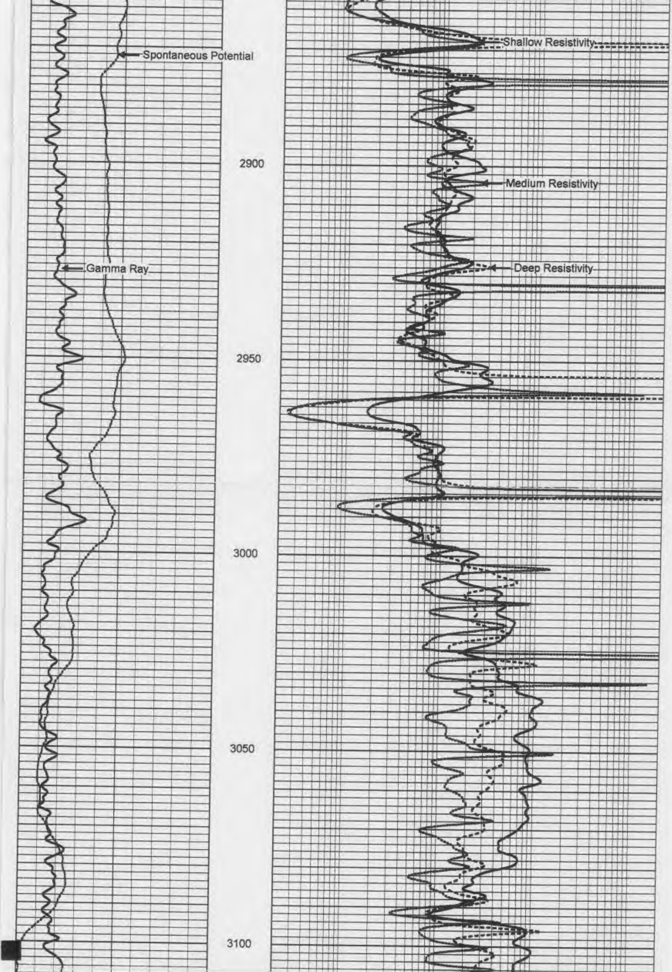


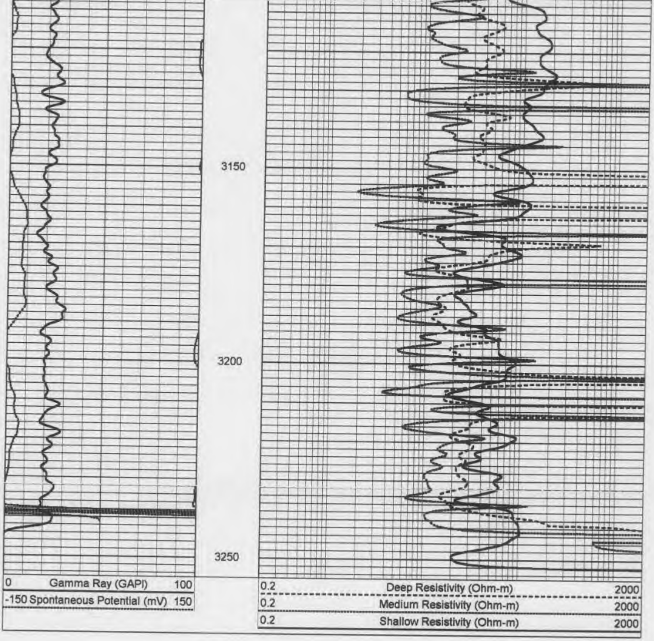








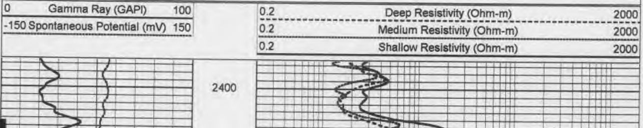


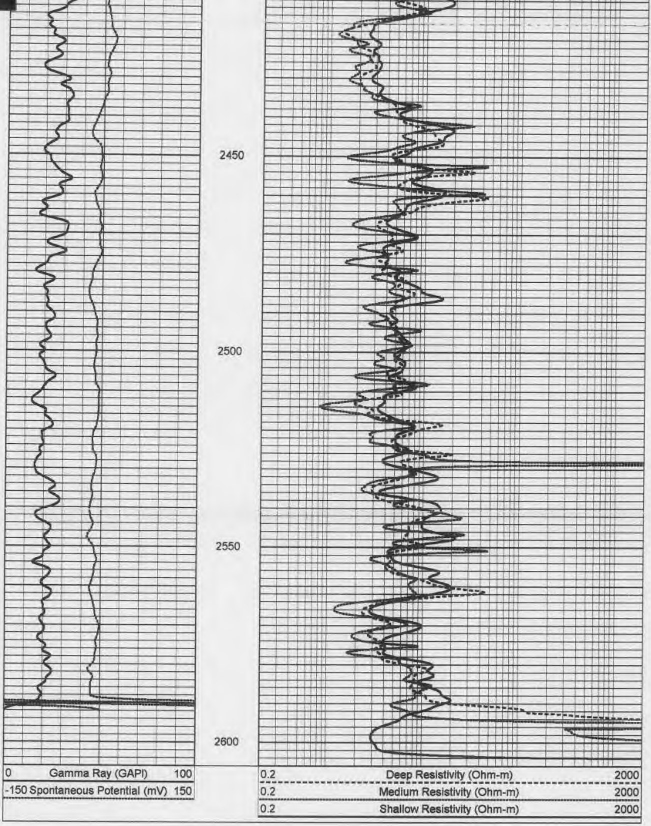


YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: ncolliw1.db
Dataset Pathname: run7/DIL
Presentation Format: dil
Dataset Creation: Fri Mar 21 15:03:20 2003 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





Dual Induction Calibration Report

Serial-Model:	1010-C
Surface Cal Performed:	Fri Oct 26 16:18:18 2001
Downhole Cal Performed:	Fri Mar 21 14:37:00 2003
After Survey Verification Performed:	Fri Mar 21 15:09:05 2003

Surface Calibration

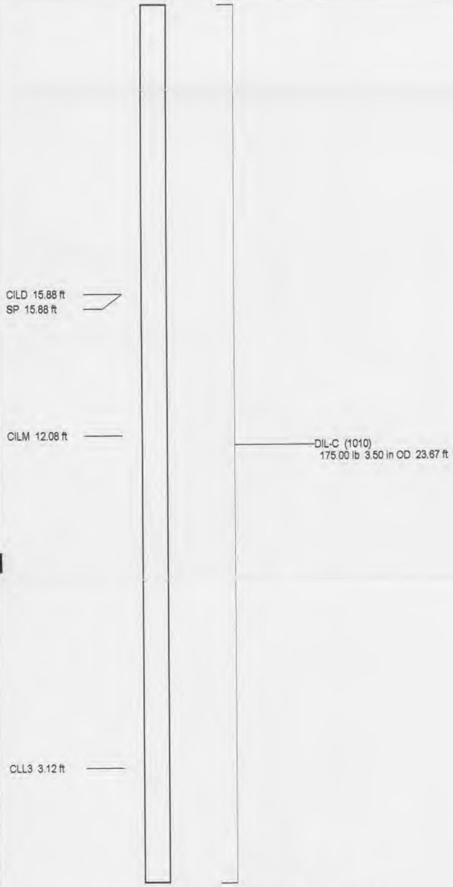
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.005	0.647	V	0.000	400.000	mmho-m	613.288	3.302
Medium	0.010	0.714	V	0.000	464.000	mmho-m	658.368	-6.281
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.009	0.641	V	8.610	397.880	mmho-m	615.374	3.164
Medium	0.007	0.710	V	-1.120	462.890	mmho-m	659.668	-5.714

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	8.617	400.191	mmho-m	8.729	396.680	mmho-m	0.991	0.192
Medium	3.733	469.730	mmho-m	-1.696	461.400	mmho-m	0.994	-5.406
Shallow	0.037	0.424		3.000	88.900	mmho-m	221.926	-5.203

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	9.665	399.554	mmho-m	8.617	400.191	mmho-m	0.991	0.192
Medium	4.476	468.167	mmho-m	3.733	469.730	mmho-m	0.994	-5.406
Shallow	3.467	89.501	mmho-m	3.000	88.900	mmho-m	0.998	-0.462



Dataset:	run7/DIL2
Total Length:	23.67 ft
Total Weight:	175.00 lb
O.D.	3.50 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER
GAMMA RAY
LOG

Company WATER RESOURCE SLTS.
Well IW #1
Field NCWRF
County COLLIER
State FL

Company	WATER RESOURCE SOLUTIONS, INC.
Well	IW #1
Field	NCWRF
County	COLLIER
State	FLORIDA

Location NCWRF IW1
SE 1/4 S27 T48S R25E

Other Services
SEE COMMENTS

Permanent Datum	PAD	Elevation	15'
Log Measured From	GROUND LEVEL		
Drilling Measured From	PAD		

Elevation
K.B. N/A
D.F. 20.5'
G.L. 15'

Date	21-MAR-2003		
Run Number	SEVEN		
Depth Driller	3250'		
Depth Logger	3250'		
Bottom Logged Interval	3250'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	96 DEG F		
Estimated Cement Top	N/A		
Time Well Ready	0900		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT MYERS		
Recorded By	LEE		
Witnessed By	T. NELSON		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	59.5"	SURFACE	415'				
TWO	12.25"	CASING	1450'				
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Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	60"	.375 W.T.	SURFACE	8'
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Liner				

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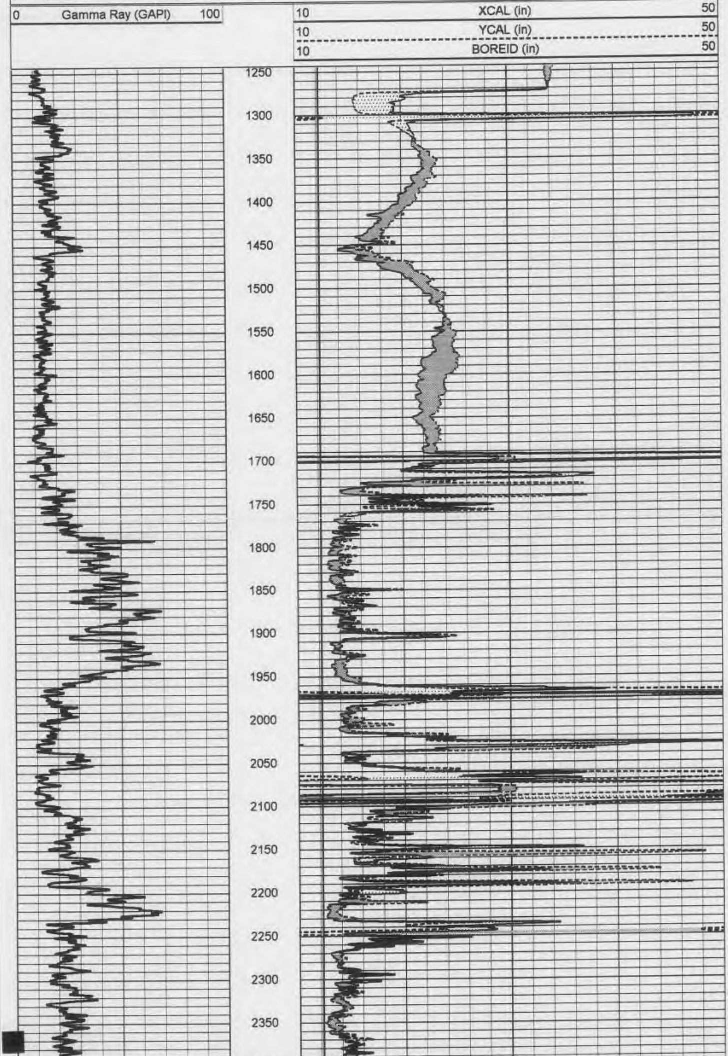
Comments

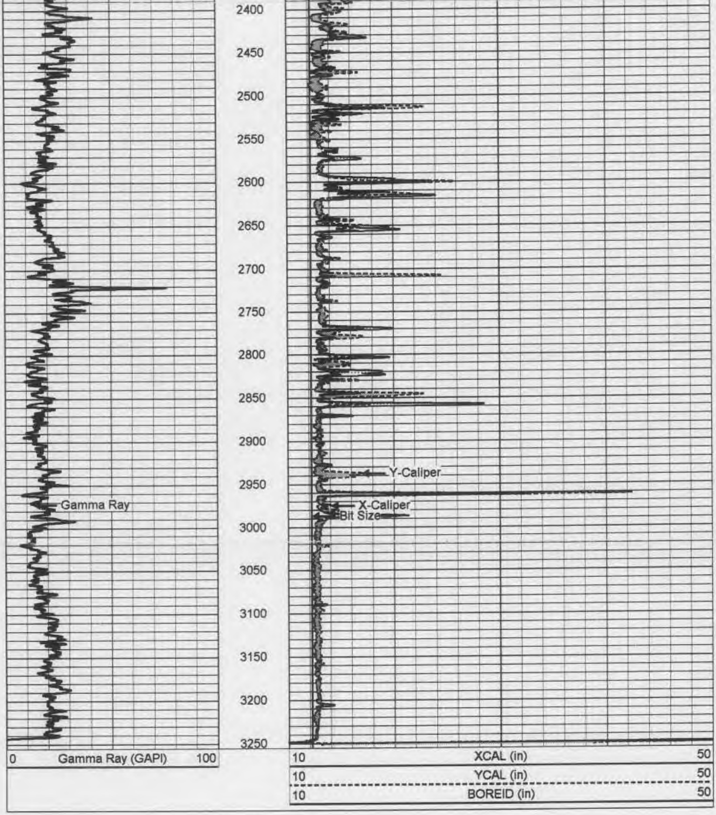
HRT
DIL/LL3/SP
BHC/SONIC/VDL
FLOWMETER

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ncolliw1.db
Dataset Pathname: run7/XYCMP
Presentation Format: grxyc
Dataset Creation: Sat Mar 22 08:04:29 2003
Charted by: Depth in Feet scaled 1:1200

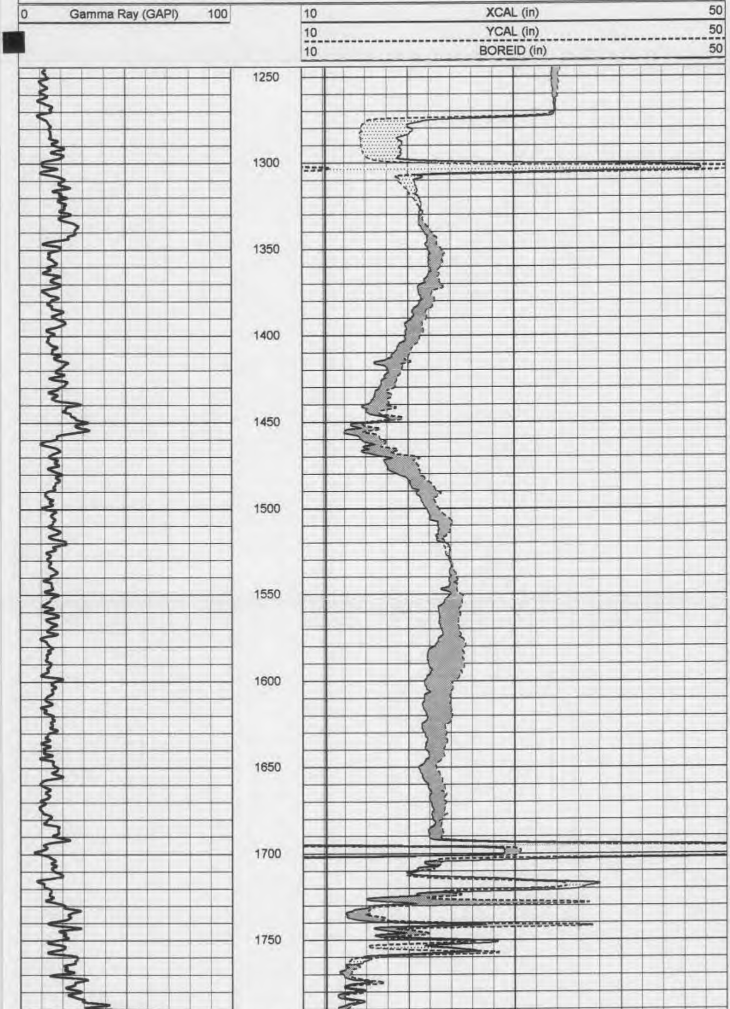


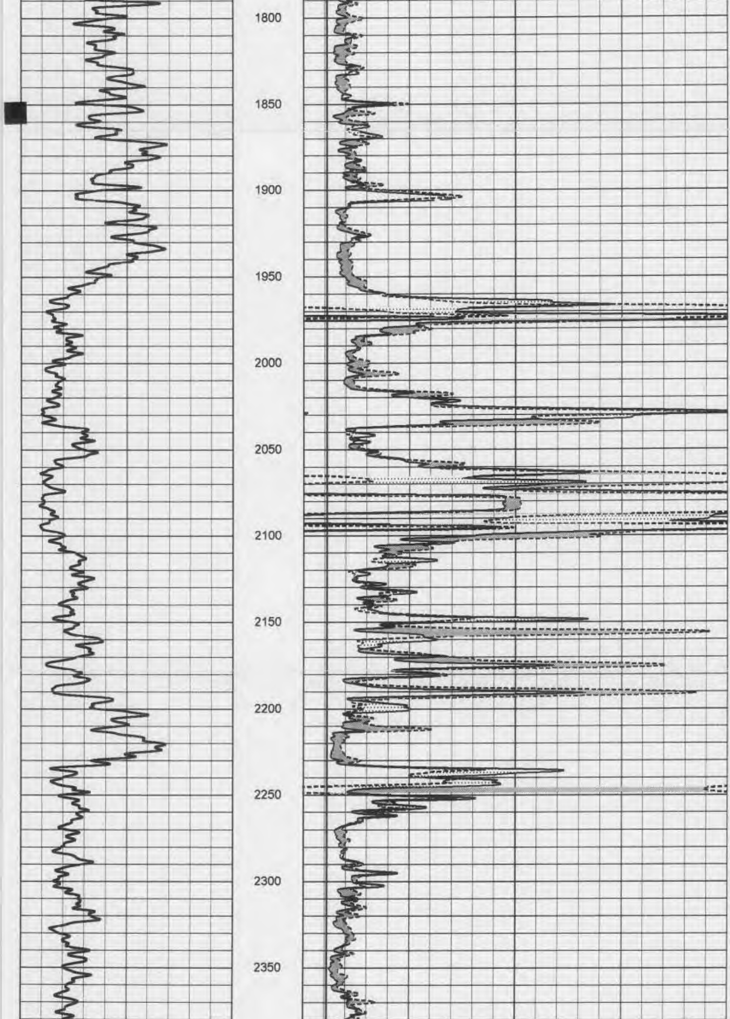


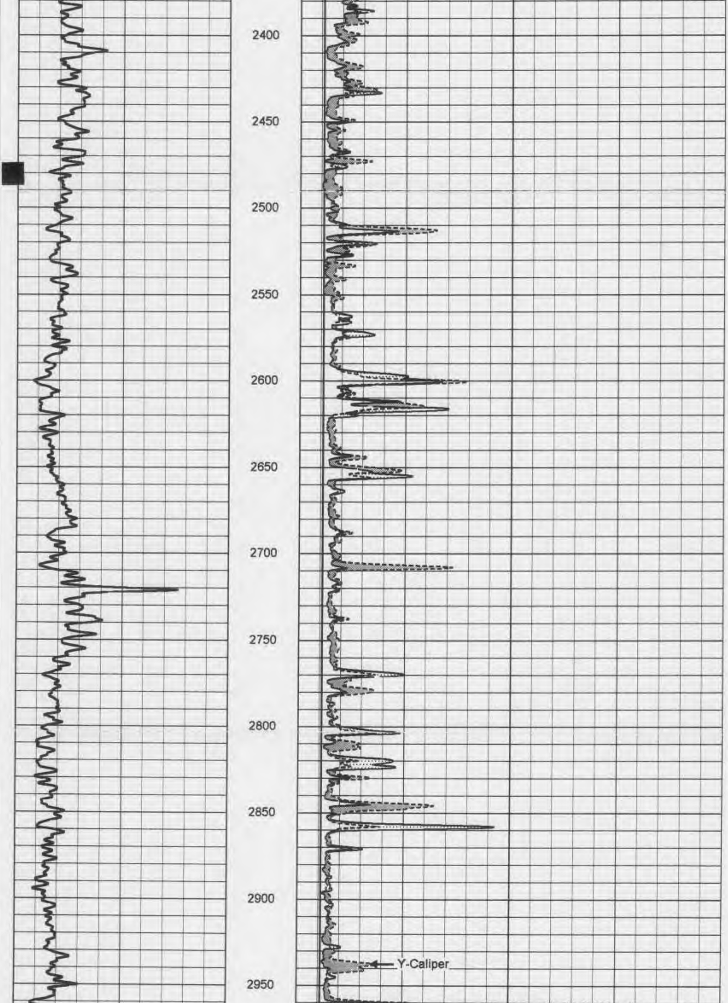
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

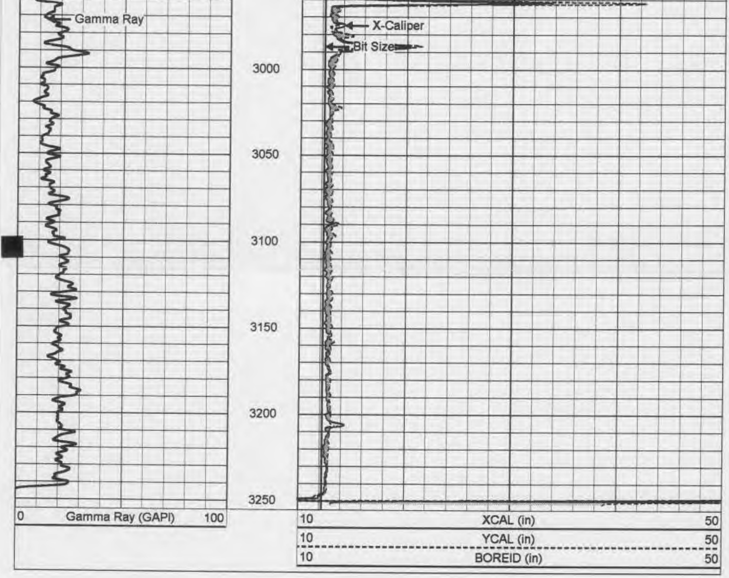
MAIN PASS

Database File:	ncolliw1.db
Dataset Pathname:	run7/XYCMP
Presentation Format:	grxyc
Dataset Creation:	Sat Mar 22 08:04:29 2003
Charted by:	Depth in Feet scaled 1:600





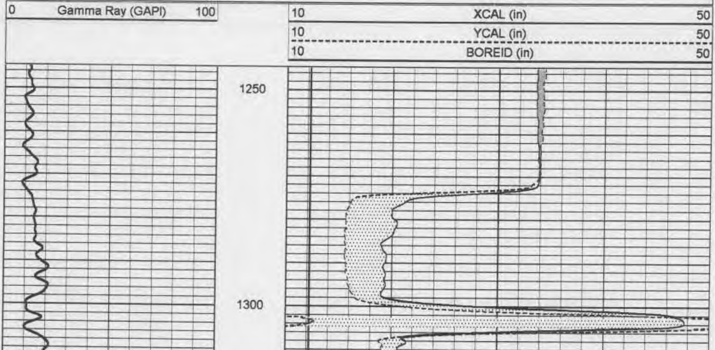


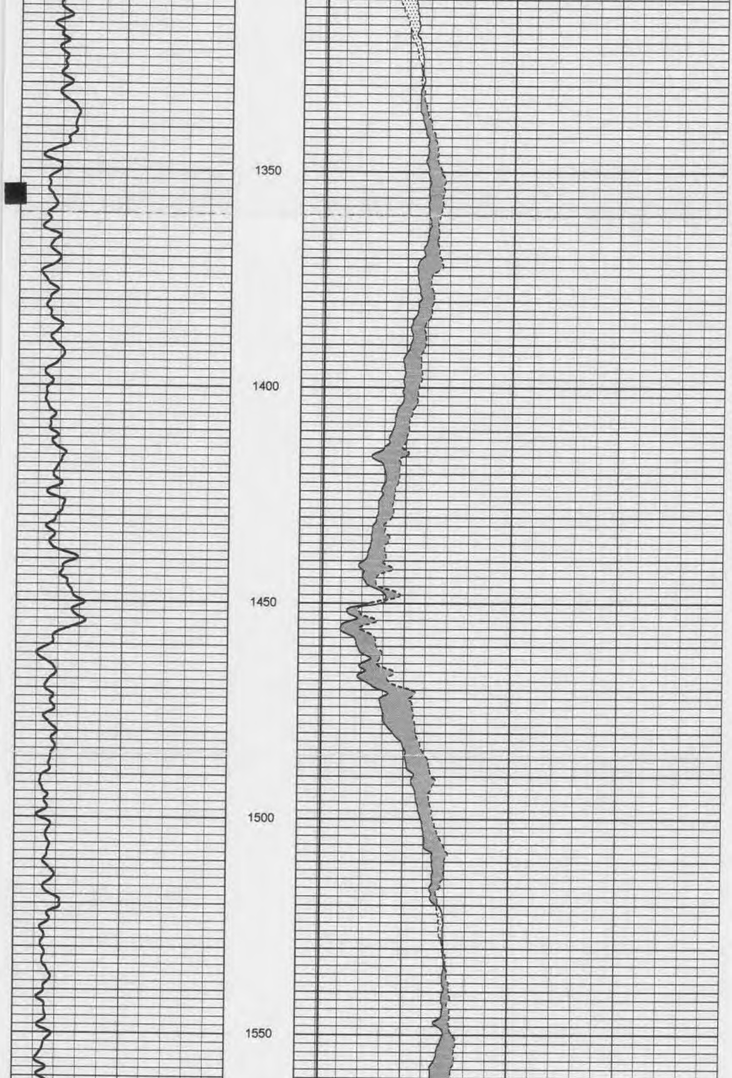


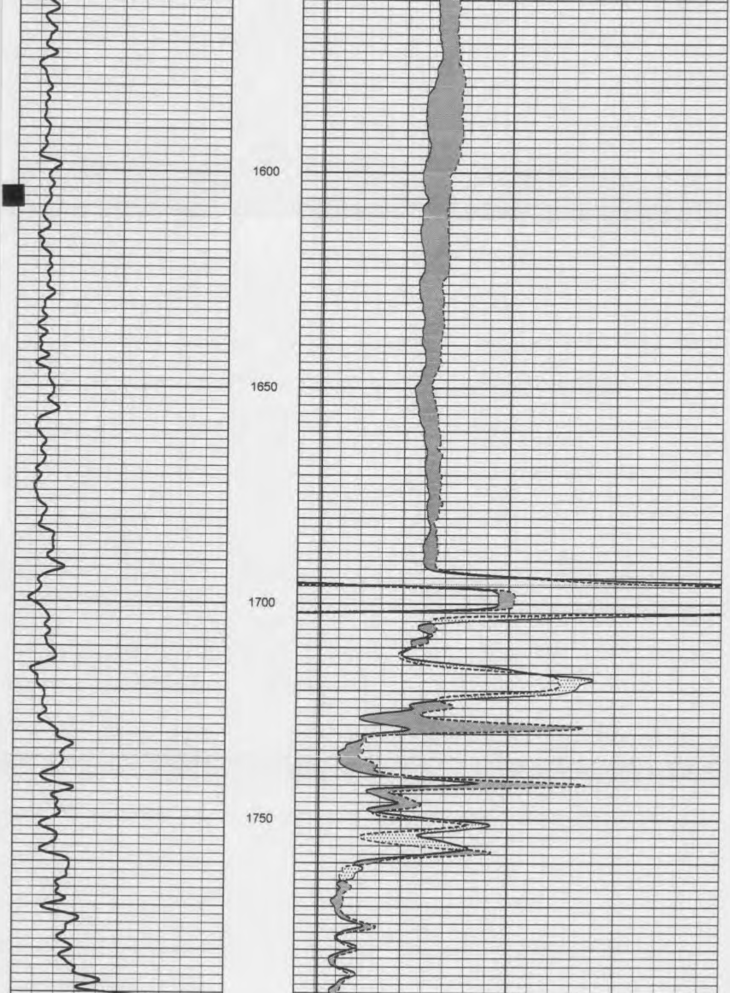
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

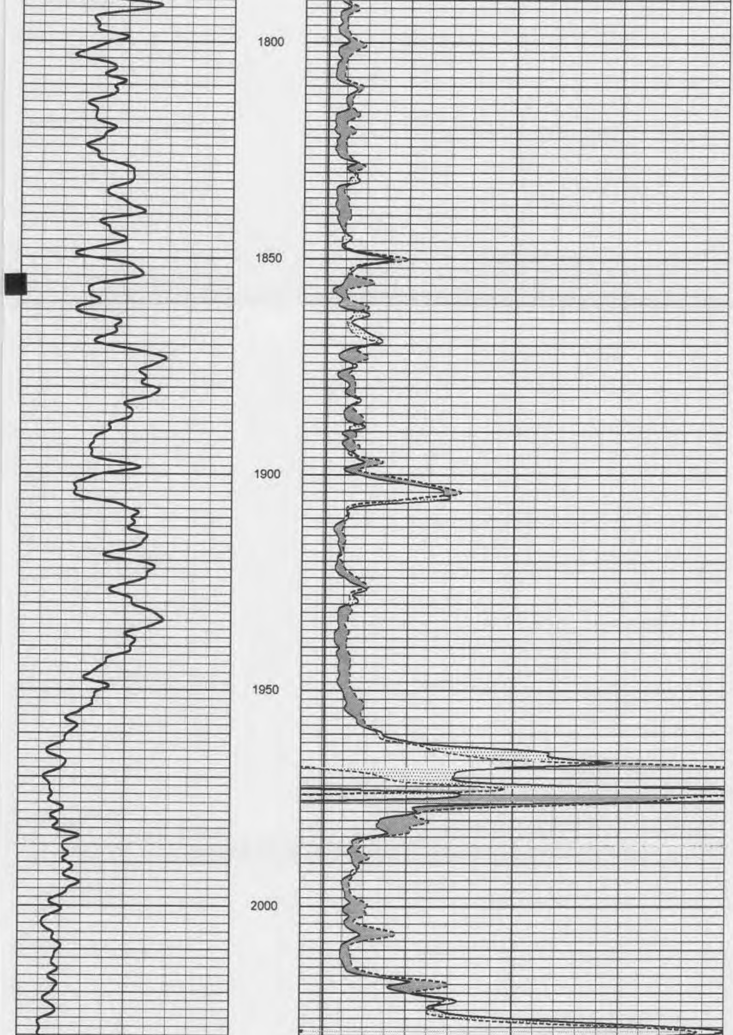
MAIN PASS

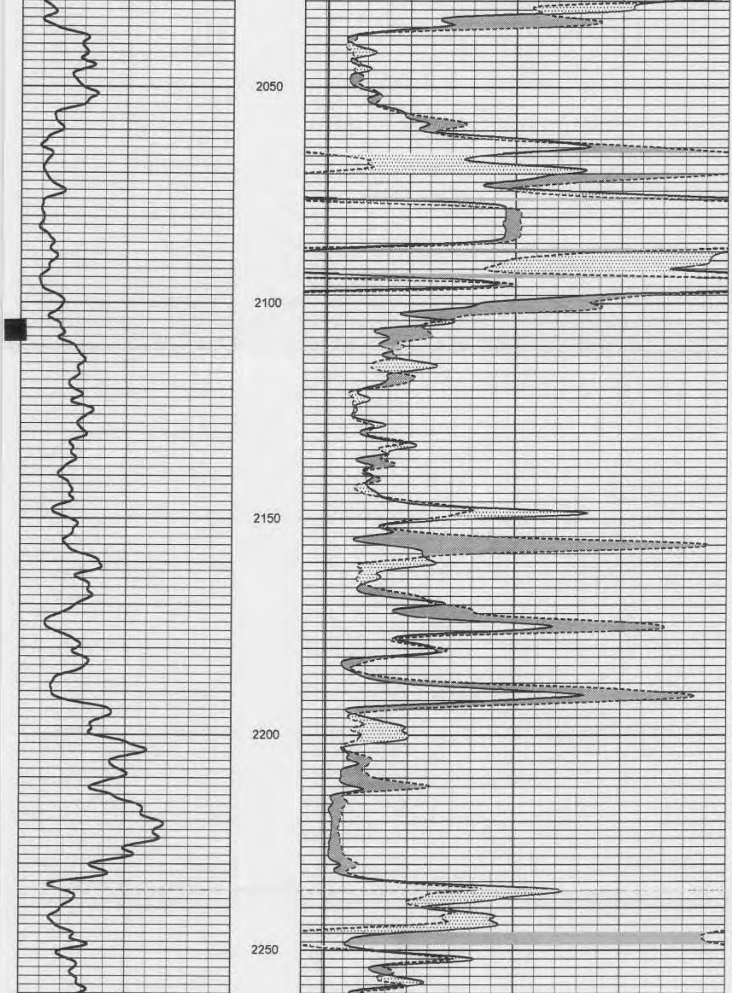
Database File: ncolliw1.db
Dataset Pathname: run7/XYCMP
Presentation Format: grxyc
Dataset Creation: Sat Mar 22 08:04:29 2003
Charted by: Depth in Feet scaled 1:240

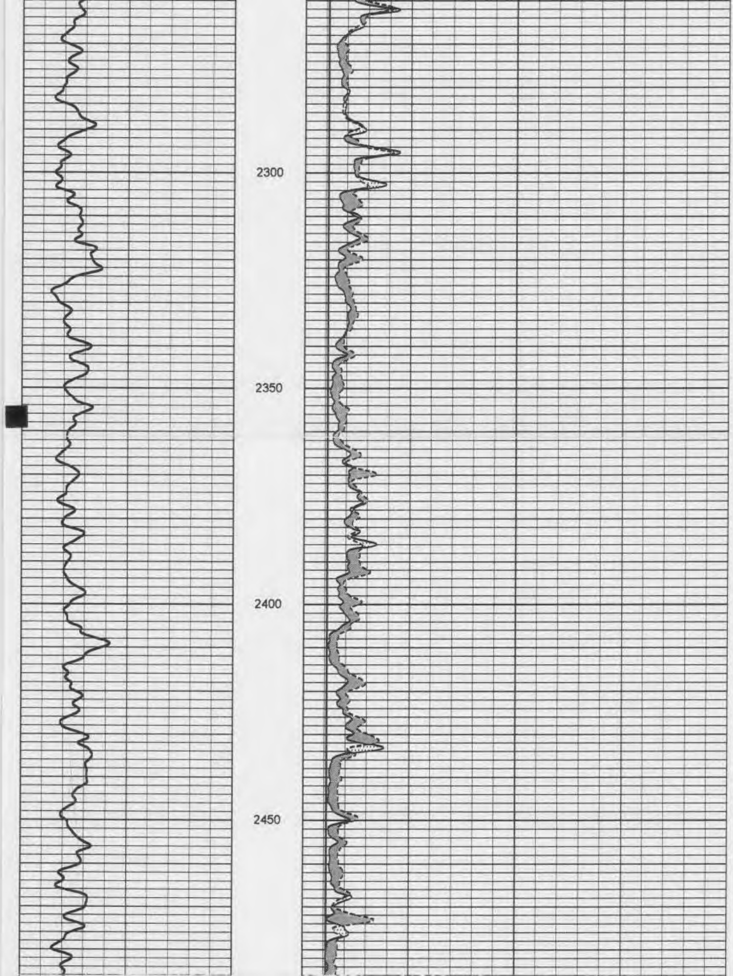


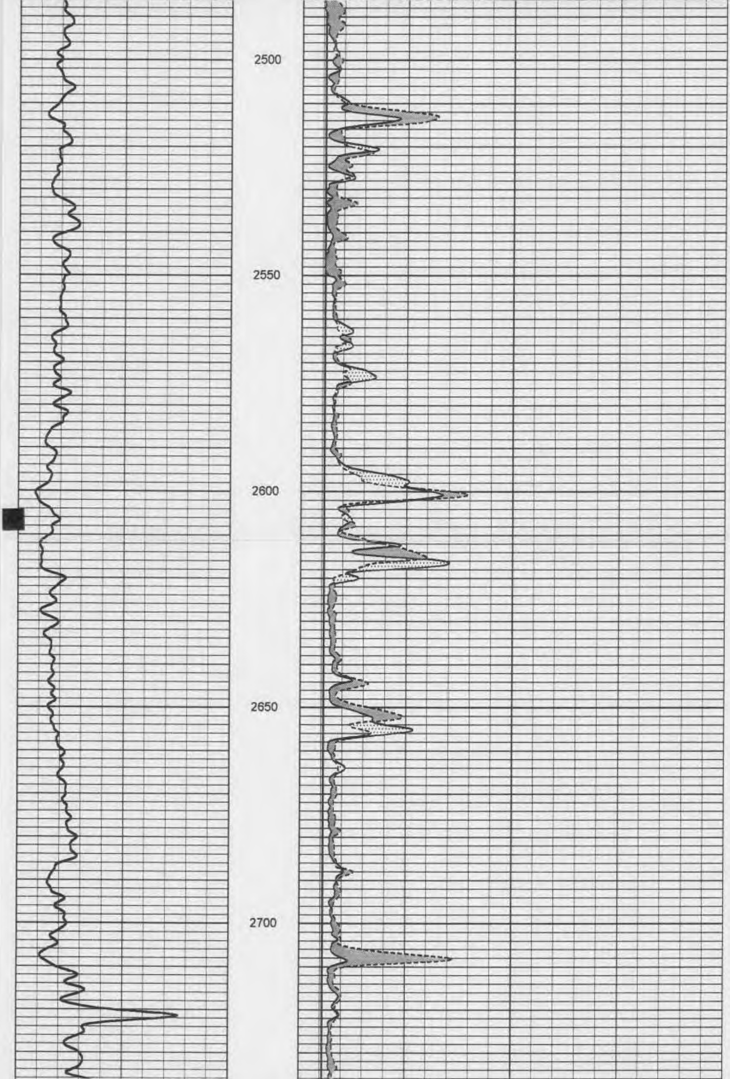


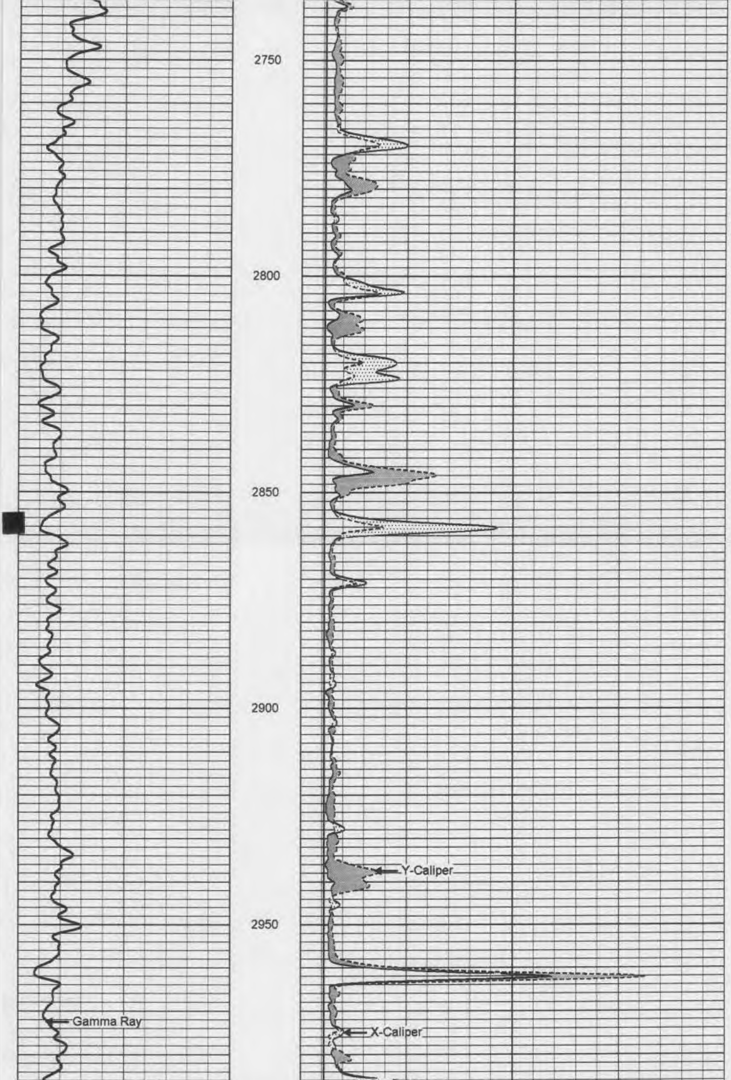


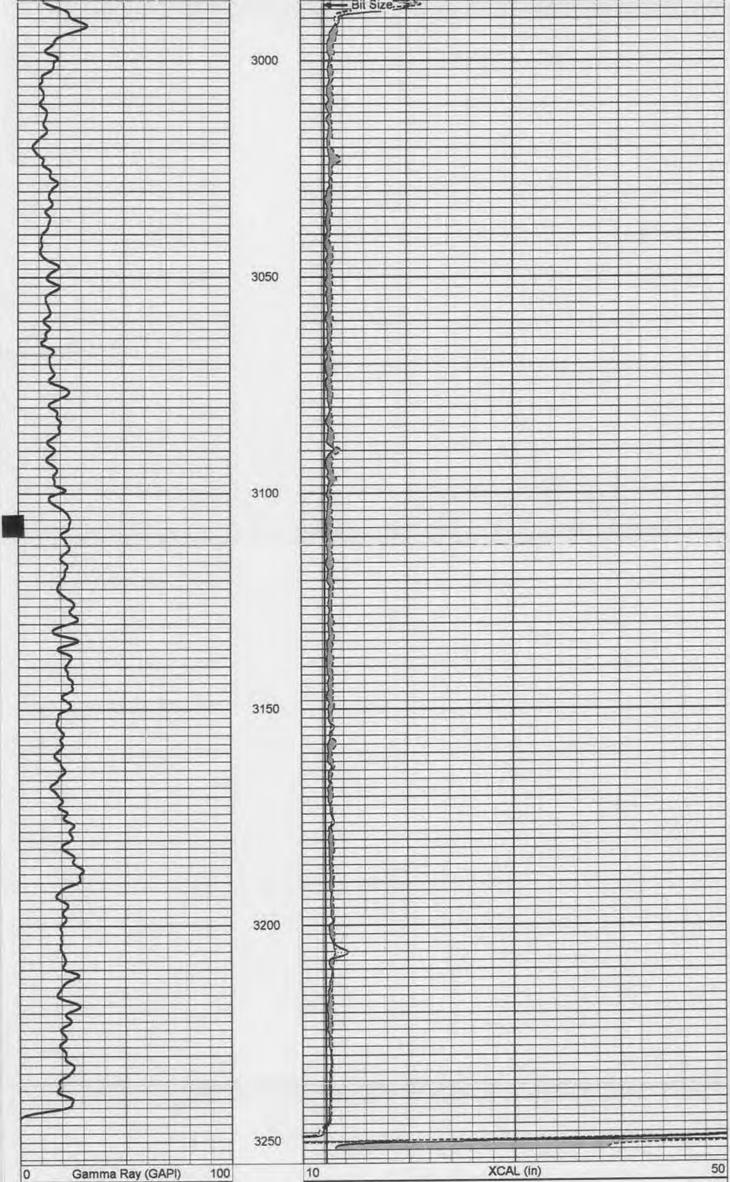












10	YCAL (in)	50
10	BOREID (in)	50

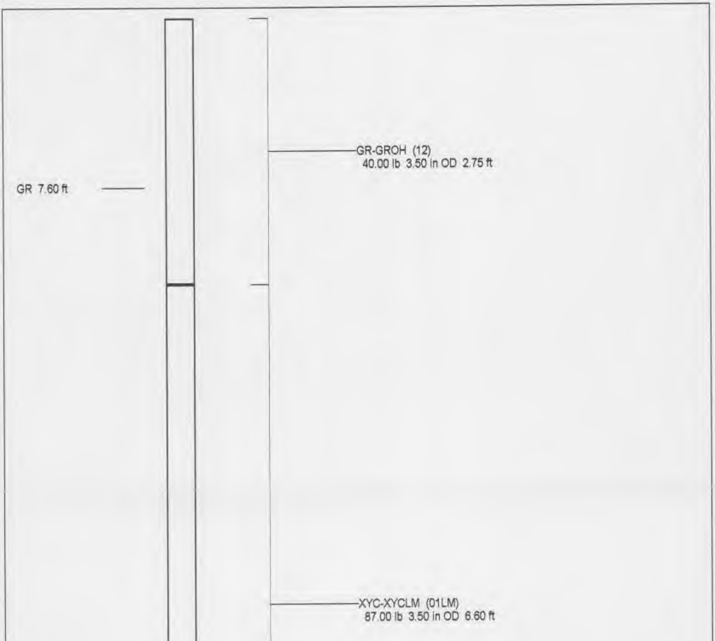
XY Caliper Calibration Report

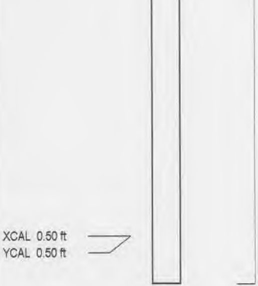
Serial Number/Model: 01LM-XYCLM
Performed: Fri Mar 21 11:02:43 2003

Ring			X Caliper		Y Caliper	
1:	10	in	359.96	cps	443.844	cps
2:	20	in	457.457	cps	530.43	cps
3:	30	in	568.468	cps	631.732	cps
4:	40	in	681.582	cps	729.73	cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	12	
Tool Model:	GROH	
Performed:	Thu Aug 08 15:02:41 2002	
Calibrator Value:	120	GAPI
Background Reading:	25.8369	cps
Calibrator Reading:	136.303	cps
Sensitivity:	1.08631	GAPI/cps





Dataset: run7/XYC2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

BOREHOLE COMPENSATED SONIC/VDL LOG

Company WATER RESOURCE SLTS.
Well IW #1
Field NCWRF
County COLLIER
State FL

Company	WATER RESOURCE SOLUTIONS, INC.		
Well	IW #1		
Field	NCWRF		
County	COLLIER	State	FLORIDA
Location	NCWRF IW1 SE 1/4 S27 T48S R25E	Other Services	SEE COMMENTS
Permanent Datum	PAD	Elevation	15'
Log Measured From	GROUND LEVEL	Elevation	K.B. N/A D.F. 20.5' G.L. 15'
Drilling Measured From	PAD		

Date	21-MAR-2003		
Run Number	SEVEN		
Depth Driller	3250'		
Depth Logger	3250'		
Bottom Logged Interval	3250'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	96 DEG F		
Estimated Cement Top	N/A		
Time Well Ready	0900		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT MYERS		
Recorded By	LEE		
Witnessed By	T. NELSON	T. TUBBERT	N. KUGLER

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
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Liner				

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Comments

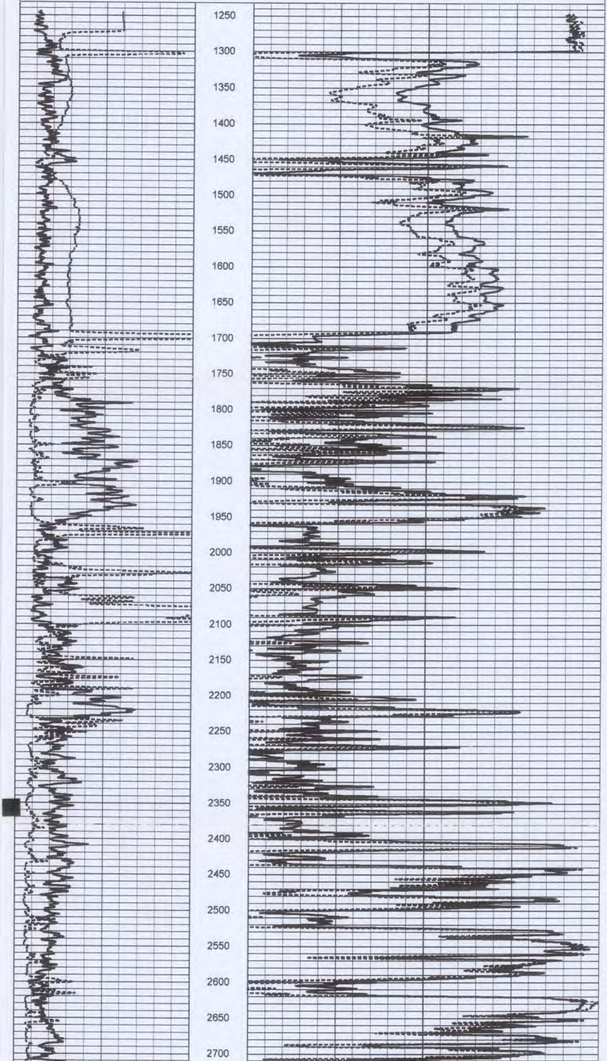
HRT
XYC/GR
DIL/LL3/SP
FLOWMETER

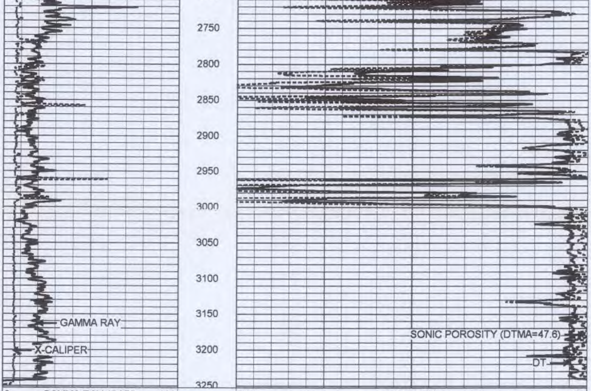
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File:	ncolliw1.db
Dataset Pathname:	run7/BHCMP
Presentation Format:	son_por
Dataset Creation:	Sat Mar 22 08:29:09 2003
Charted by:	Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	50	100	SONIC POROSITY (DTMA=47.6) (pu)	0





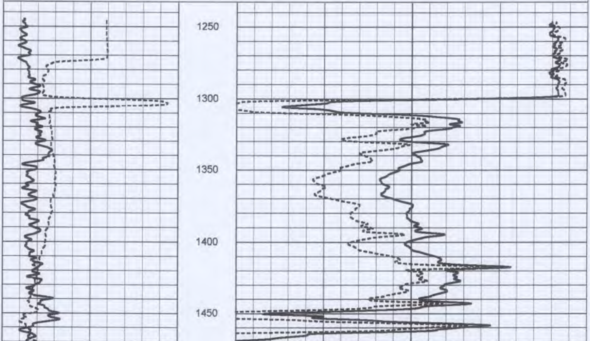
0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	50	100	SONIC POROSITY (DTMA=47.6) (pu)	0

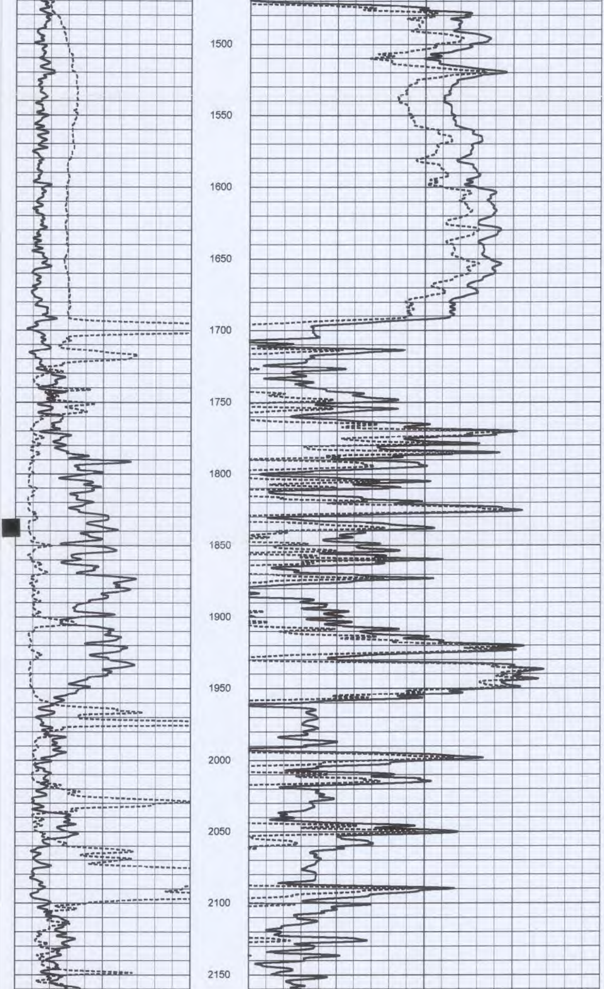
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

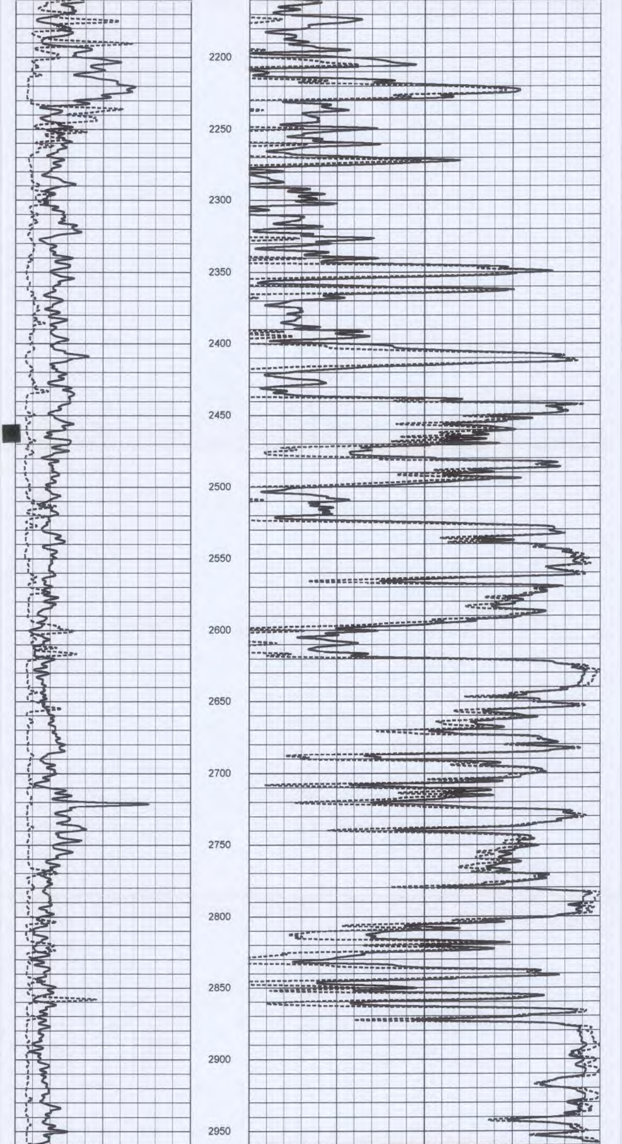
MAIN PASS

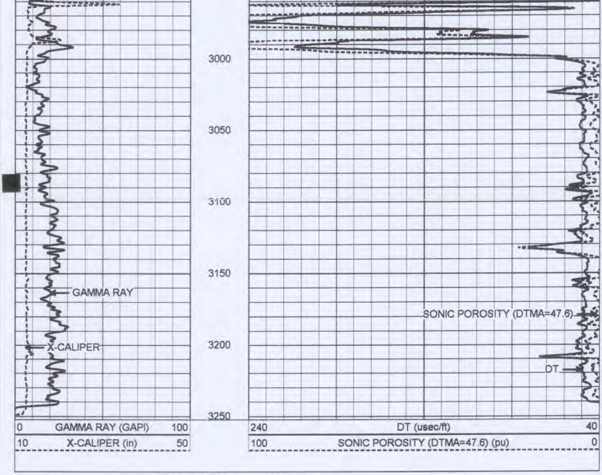
Database File: ncolliw1.db
Dataset Pathname: run7/BHCMP
Presentation Format: son_por
Dataset Creation: Sat Mar 22 08:29:09 2003
Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	50	100	SONIC POROSITY (DTMA=47.6) (pu)	0





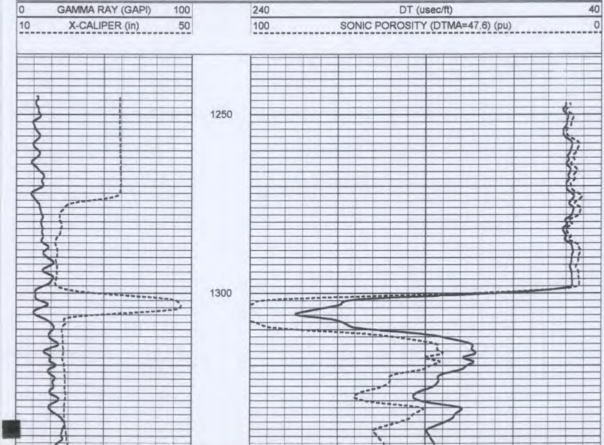


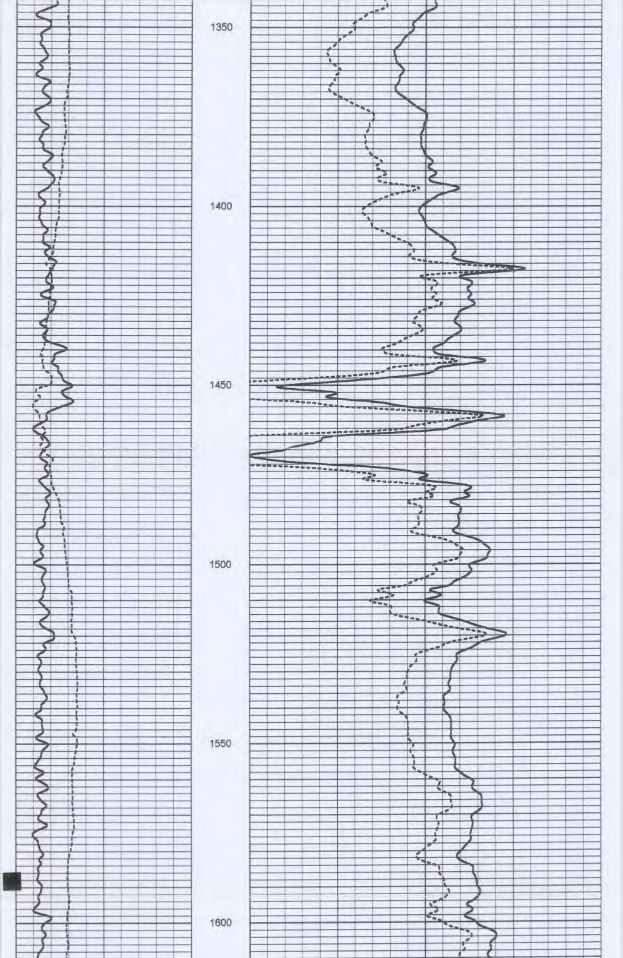


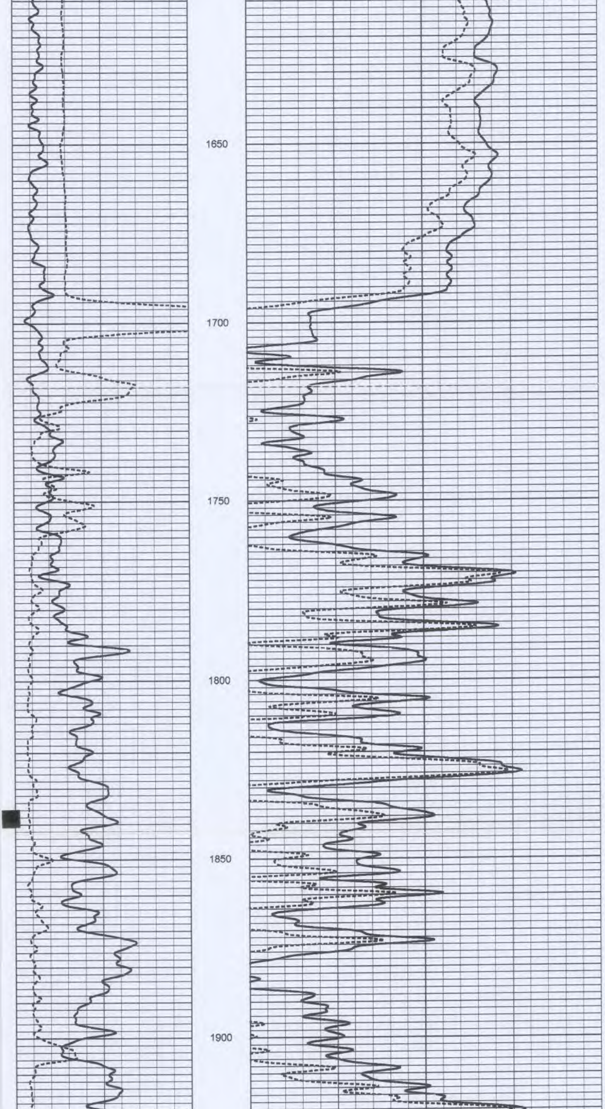
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

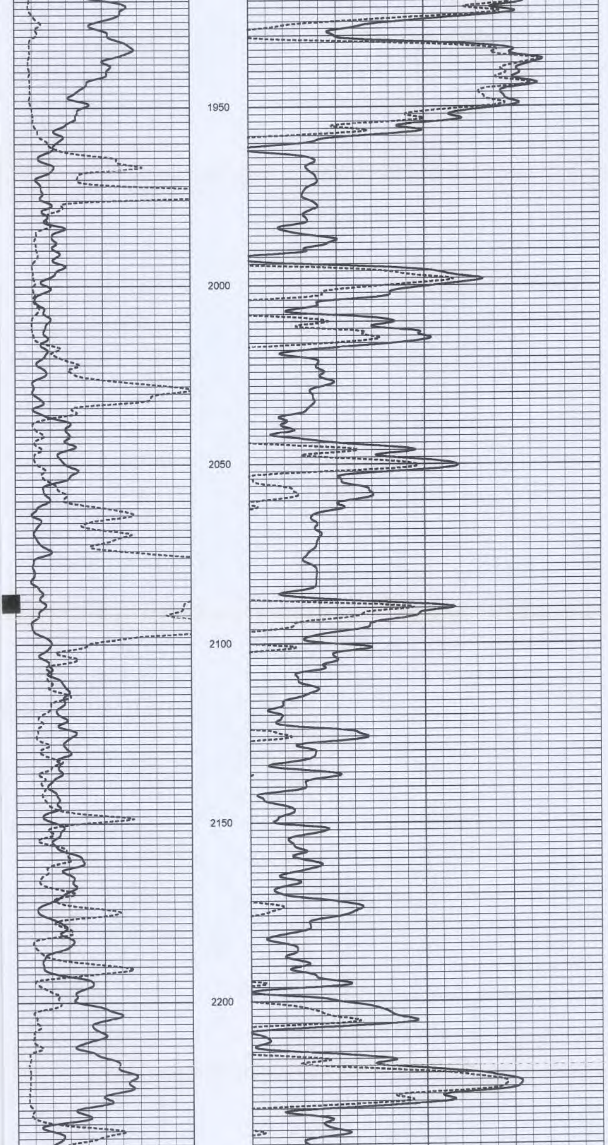
MAIN PASS

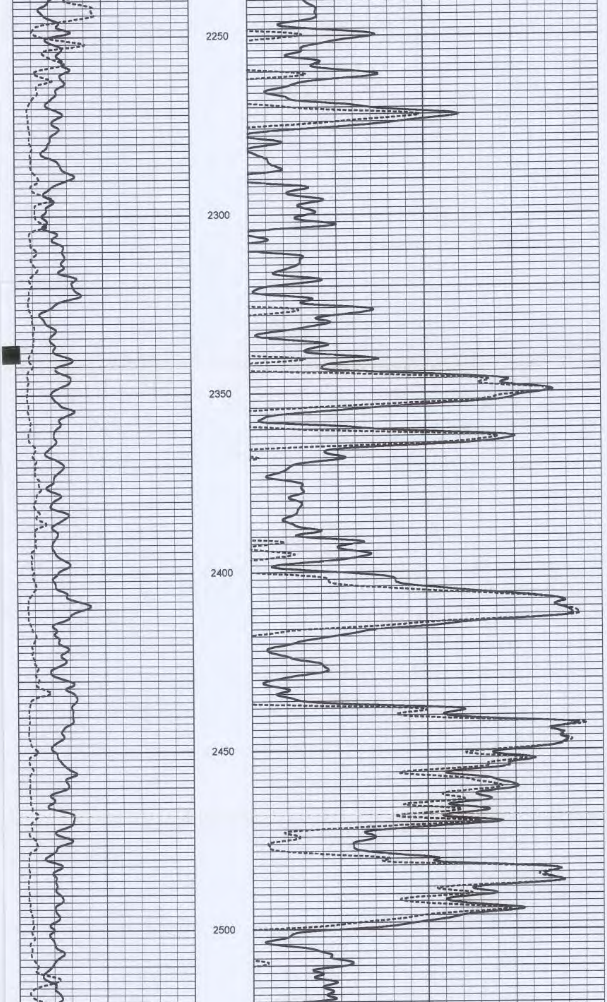
Database File: ncolliw1.db
Dataset Pathname: run7/BHCMP
Presentation Format: son_por
Dataset Creation: Sat Mar 22 08:29:09 2003
Charted by: Depth in Feet scaled 1:240

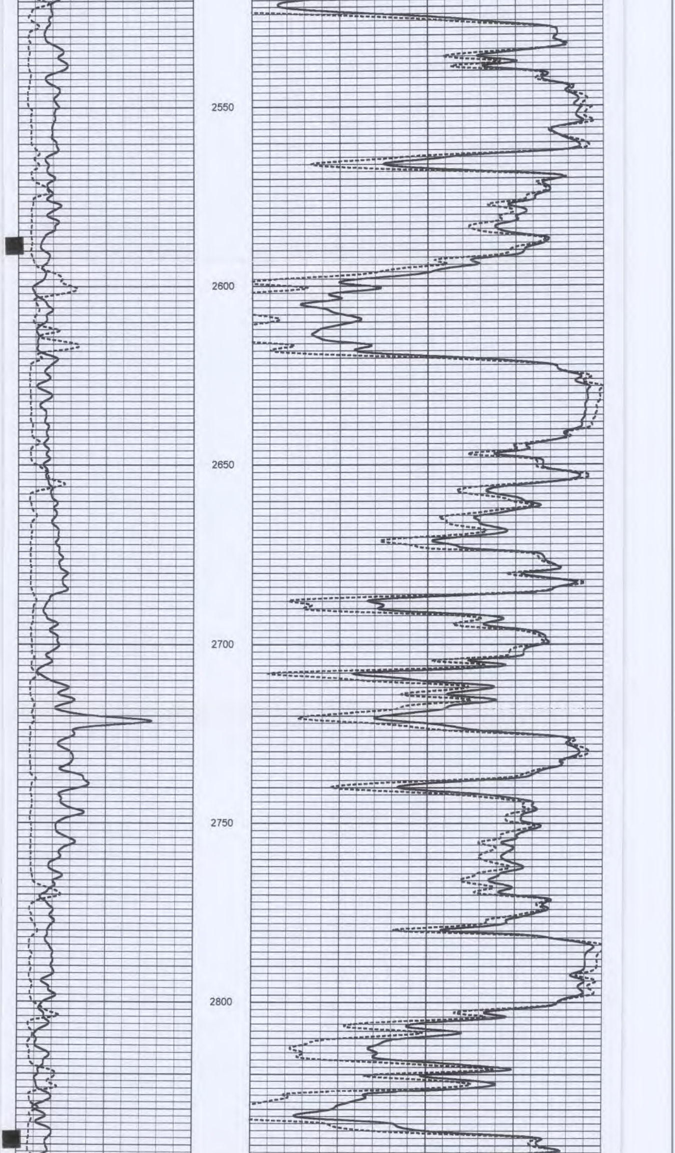


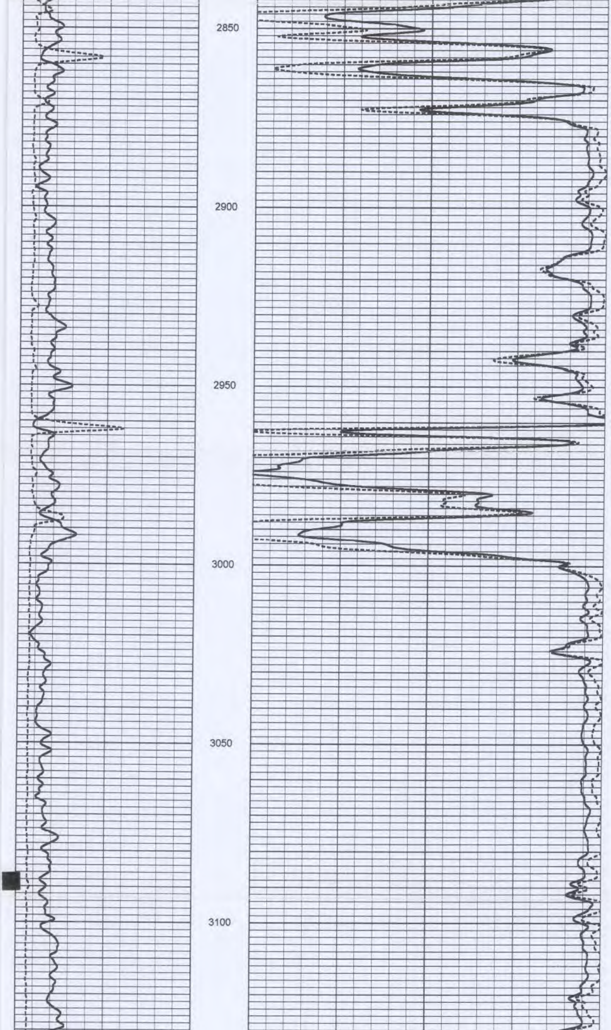


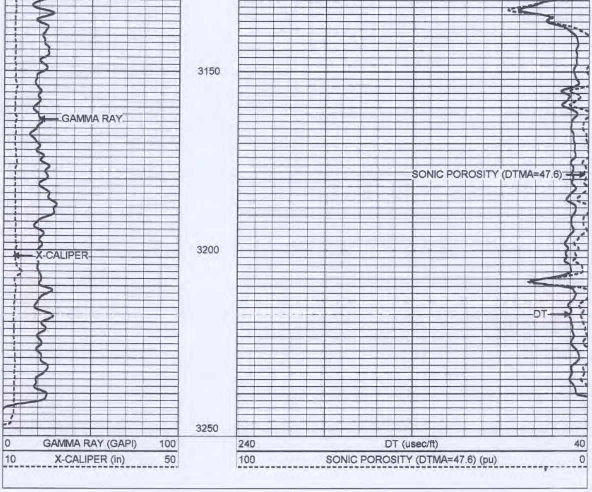












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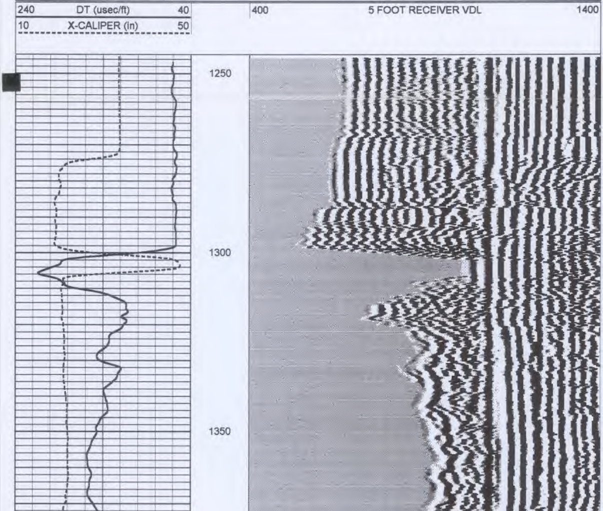
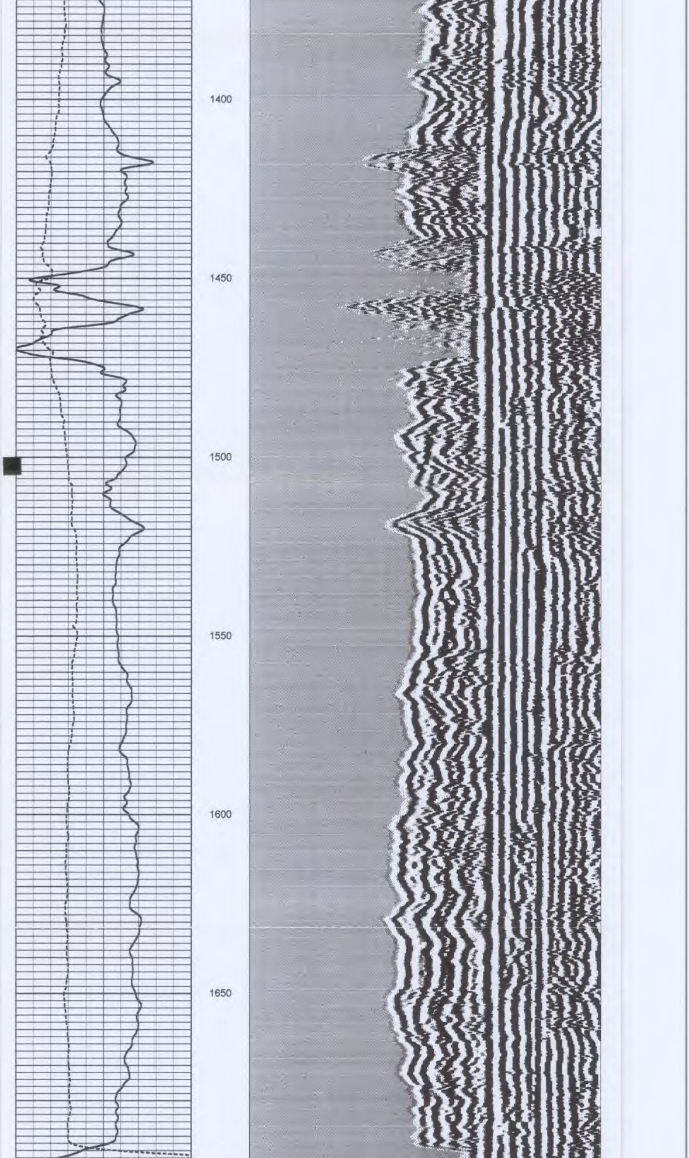
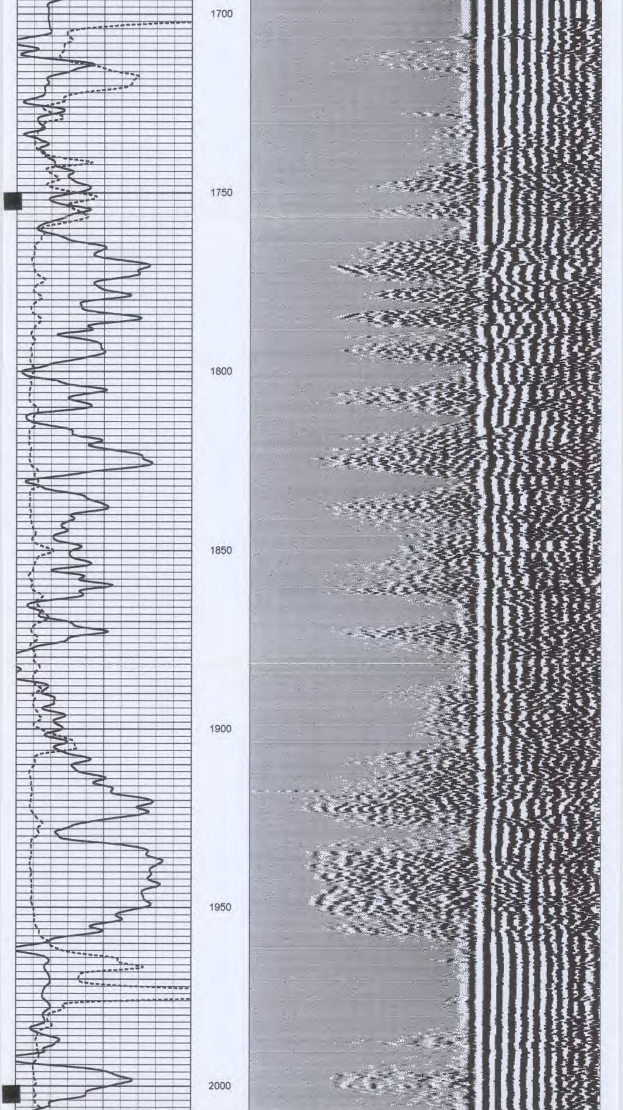
GEOPHYSICAL LOGGING DIVISION

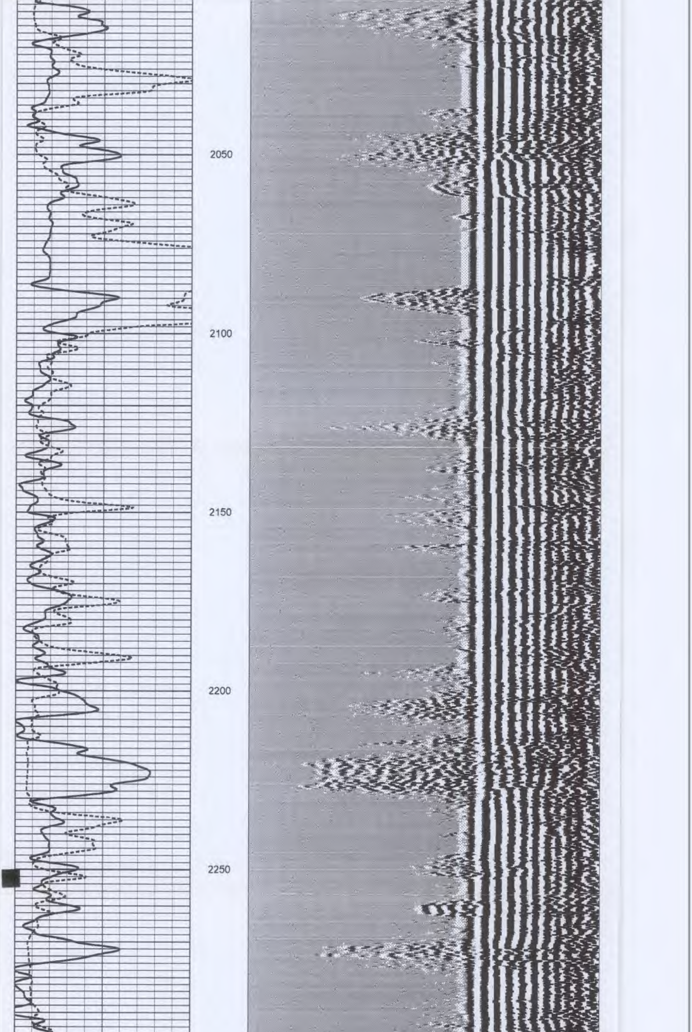
MAIN PASS

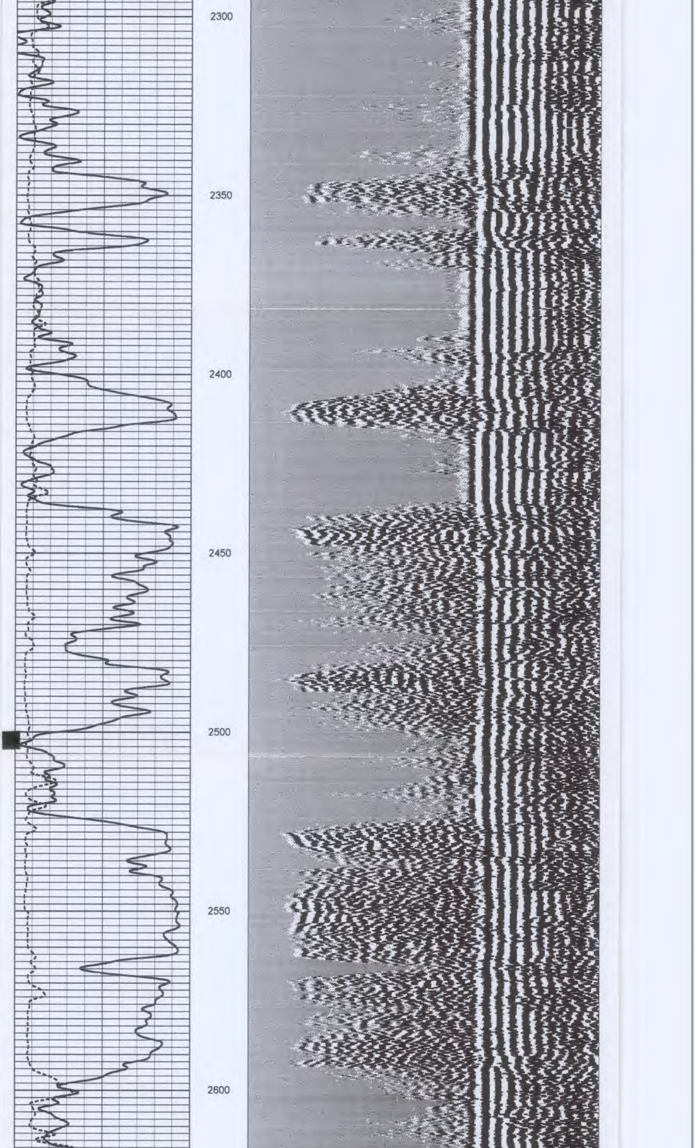
Database File: ncolliw1.db
Dataset Pathname: run7/BHCMP
Presentation Format: son_vdl
Dataset Creation: Sat Mar 22 08:29:09 2003
Charted by: Depth in Feet scaled 1:240

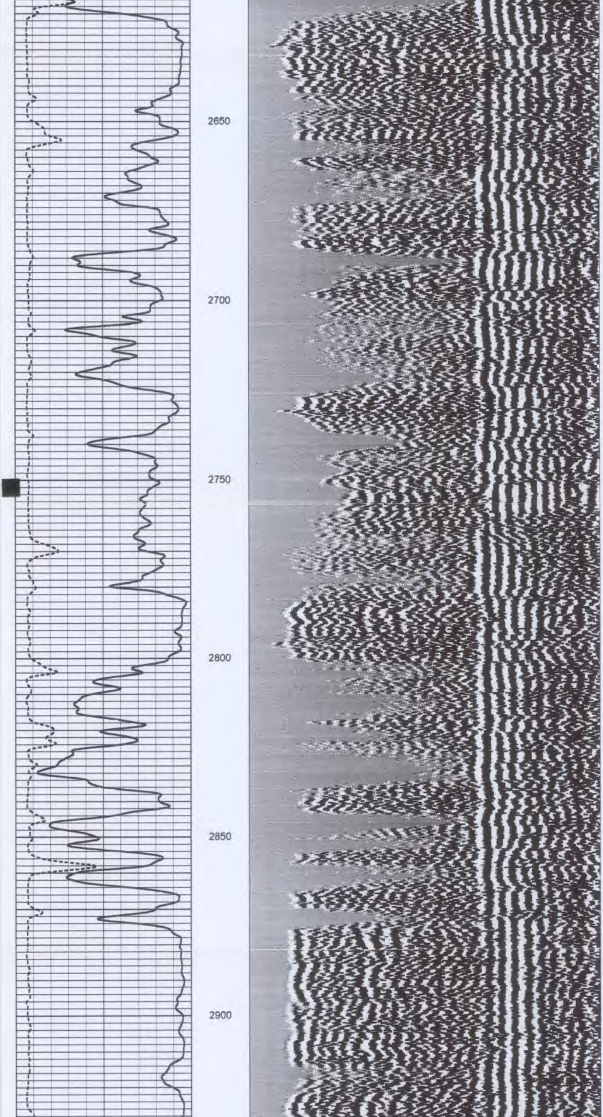


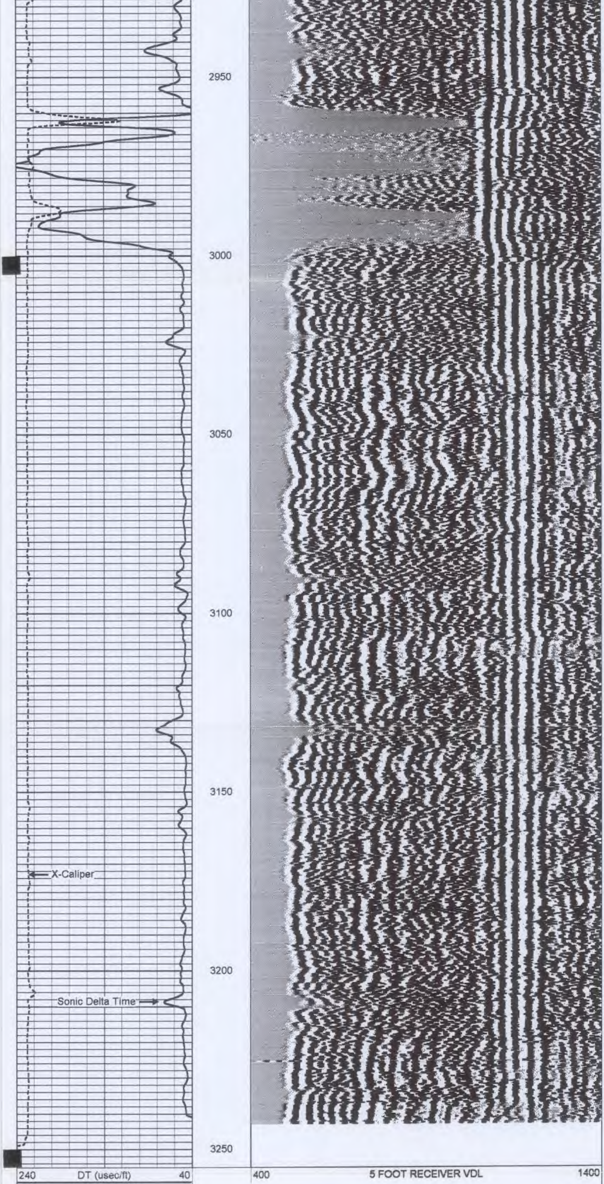












10 X-CALIPER (in) 50

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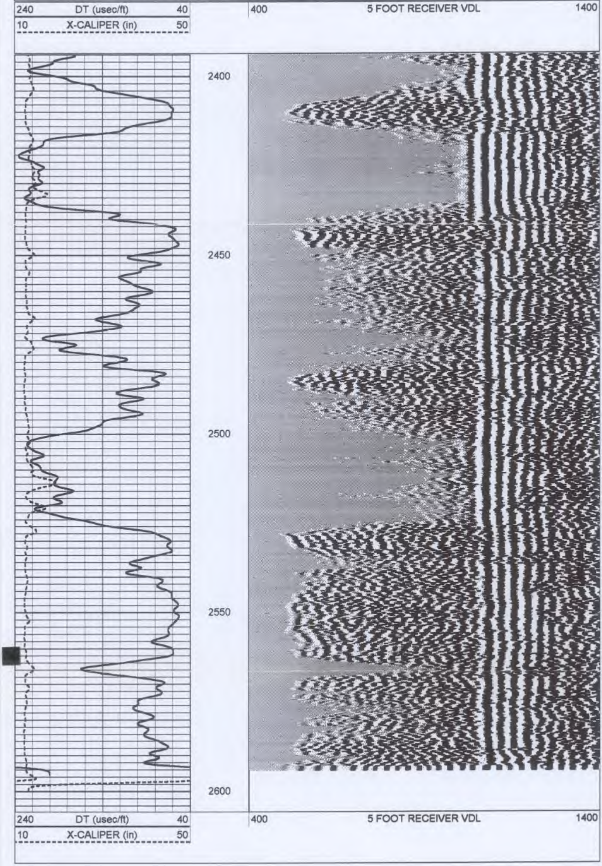
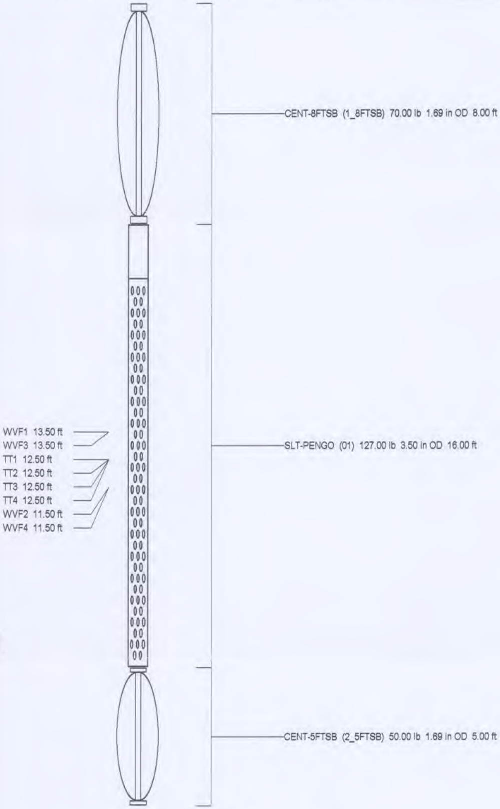
REPEAT PASS

Database File:	ncolliw1.db
Dataset Pathname:	run7/BHC
Presentation Format:	son_vdl
Dataset Creation:	Fri Mar 21 16:20:58 2003 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240




CENT-8FTSB (1_8FTSB) 70.00 lb 1.69 in OD 8.00 ft
WVF1 13.50 ft
WVF3 13.50 ft
TT1 12.50 ft
TT2 12.50 ft
TT3 12.50 ft
TT4 12.50 ft
WVF2 11.50 ft
WVF4 11.50 ft
SLT-PENGO (01) 127.00 lb 3.50 in OD 16.00 ft
CENT-5FTSB (2_5FTSB) 50.00 lb 1.69 in OD 5.00 ft

Dataset:	run7/BHC2
Total Length:	29.00 ft
Total Weight:	247.00 lb
O.D.	3.50 in

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FLOWMETER LOG

Company WATER RESOURCE SLTS.
Well IW #1
Field NCWRF
County COLLIER
State FL

Company	WATER RESOURCE SOLUTIONS, INC.		
Well	IW #1		
Field	NCWRF		
County	COLLIER	State	FLORIDA
Location	NCWRF-IW1 SE 1/4 S27 T48S R25E	Other Services	SEE COMMENTS

				Elevation
Permanent Datum	PAD	Elevation	15'	K.B. N/A
Log Measured From	GROUND LEVEL			D.F. 20.5'
Drilling Measured From	PAD			G.L. 15'

Date	23-MAR-2003		
Run Number	EIGHT		
Depth Driller	3250'		
Depth Logger	2964'		
Bottom Logged Interval	2964'		
Top Log Interval	2534'		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	N/A		
Max. Recorded Temp.	N/A		
Estimated Cement Top	N/A		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	0900		
Equipment Number	103		
Location	FT MYERS		
Recorded By	DENISON		
Witnessed By	N. KUGLER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	59.5"	SURFACE	415'				
TWO	12.25"	CASING	1450'				
THREE	12.25"	CASING	2500'				
SEVEN	12.25"	CASING	3250'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	60"	.375 W.T.	SURFACE	8'
Prot. String	48"	.375 W.T.	SURFACE	410'
Production String	34"	.375 W.T.	SURFACE	1300'
Liner				

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

DRILLPIPE SET AT 2539'

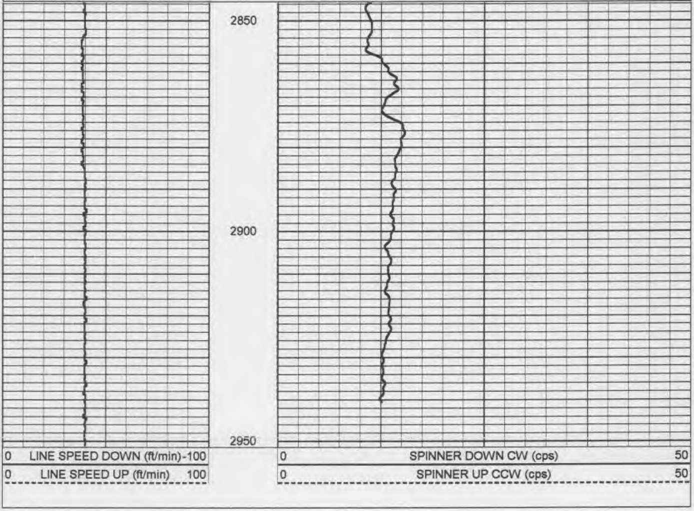
DYNAMIC FLOWRATE = APPROX. 200 GPM

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

DOWN CALS @ 40 FPM

Database File:	ncolliw1.db
Dataset Pathname:	run8/pass3
Presentation Format:	flowcals
Dataset Creation:	Sun Mar 23 08:00:48 2003 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240

0	LINE SPEED DOWN (ft/min)	-100	0	SPINNER DOWN CW (cps)	50
0	LINE SPEED UP (ft/min)	100	0	SPINNER UP CCW (cps)	50



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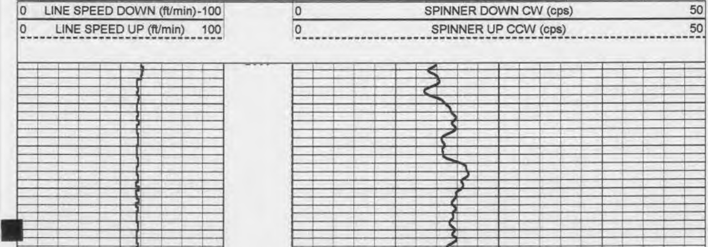
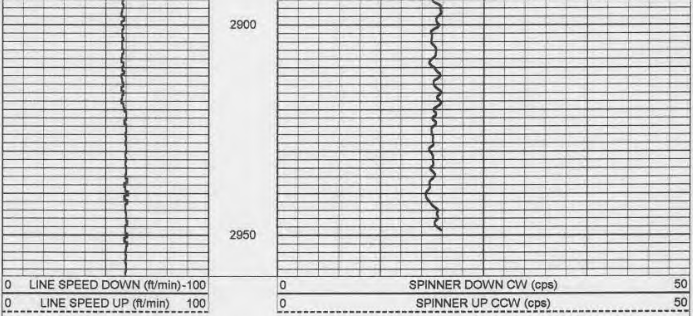
DOWN CAL @ 60 FPM

Database File: ncolliw1.db
Dataset Pathname: run8/pass4
Presentation Format: flowcals
Dataset Creation: Sun Mar 23 08:06:04 2003 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





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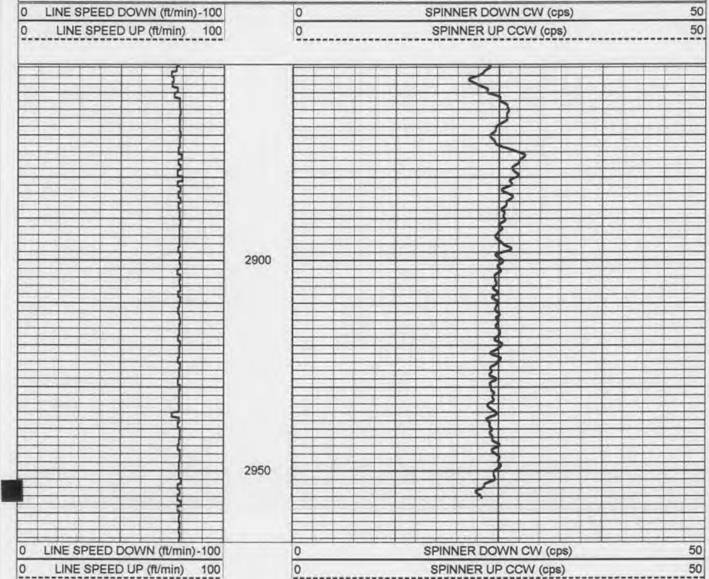
DOWN CAL @ 80 FPM

Database File: ncolliw1.db
Dataset Pathname: run8/pass5
Presentation Format: flowcals
Dataset Creation: Sun Mar 23 08:10:35 2003 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



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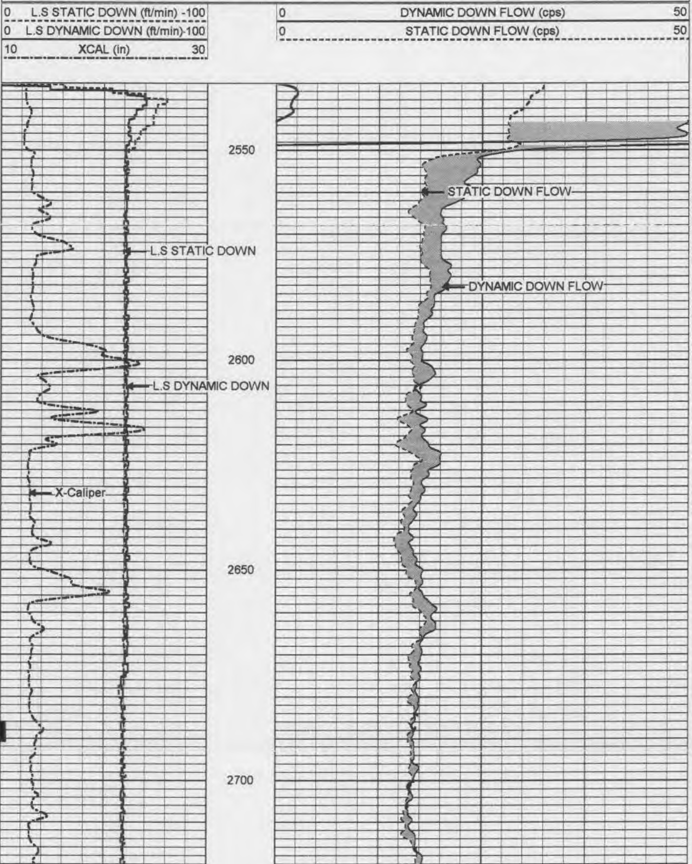
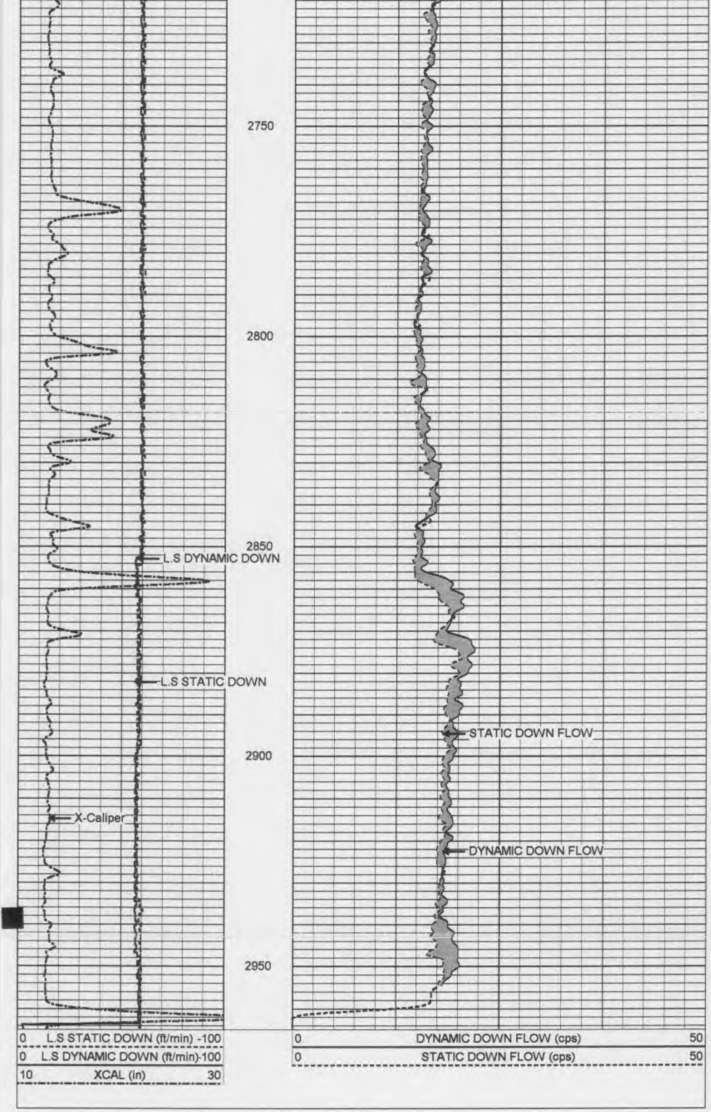
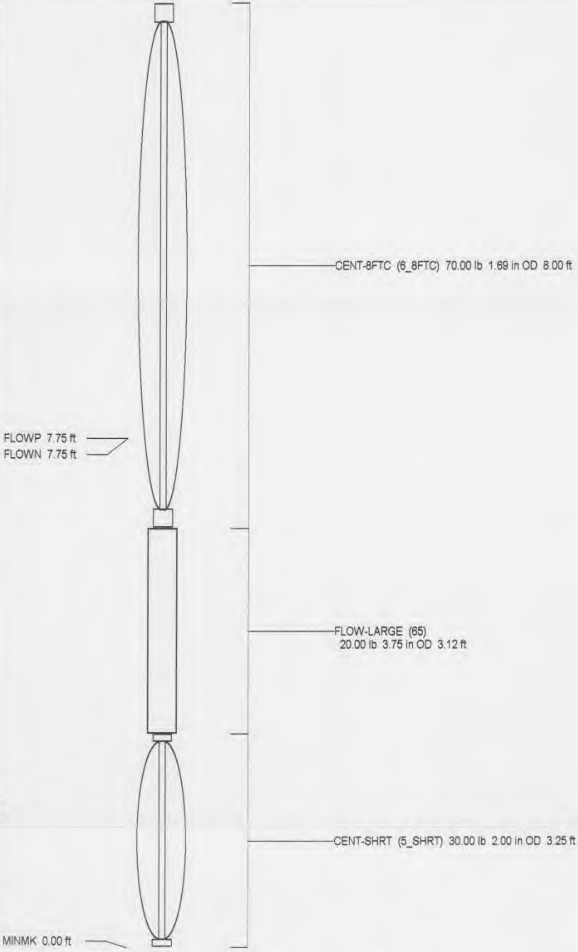
GEOPHYSICAL LOGGING DIVISION

DOWN MERGED @ 60 FPM

Database File:	ncolliw1.db
Dataset Pathname:	run8/pass7
Presentation Format:	fm_dnmg
Dataset Creation:	Sun Mar 23 11:25:23 2003 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240






CENT-8FTC (6_8FTC) 70.00 lb 1.69 in OD 8.00 ft
FLOWP 7.75 ft
FLOWN 7.75 ft
FLOW-LARGE (65)
20.00 lb 3.75 in OD 3.12 ft
CENT-SHRT (5_SHRT) 30.00 lb 2.00 in OD 3.25 ft
MINMK 0.00 ft

Dataset:	run8/pass7
Total Length:	14.38 ft
Total Weight:	120.00 lb
O.D.	3.75 in