FLORIDA
GEOPHYSICAL LOGGING, INC.

X-Y CALIPER
GAMMA RAY
LOG

Company WATER RESOURCE SLTNS.
Well IW-1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company	WATER RESOURCE SOLUTIONS INC.		
Well	IW-1		
Field	PUNTA GORDA W.W.T.P.		
Country	CHARLOTTE	State/Prv FL	
Location	NW 1/4, NE 1/4 : S7, T41S, R24E		Other Services NONE
Permanent Datum	PAD	Elevation 3'	Elevation K.B. 27' D.F. 27' G.L. 24'
Log Measured From	PAD		
Drilling Measured From	PAD		

Date	8/18/00		
Run Number	ONE		
Depth Driller	507'		
Depth Logger	507'		
Bottom Logged Interval	507'		
Top Log Interval	25'		
Open Hole Size	46.5"		
Type Fluid	MUD		
Density / Viscosity	NA		
Max. Recorded Temp	NA		
Estimated Cement Top	NA		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	1830		
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	46.5"	SURFACE	507'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String				
Production String				
Liner				

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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

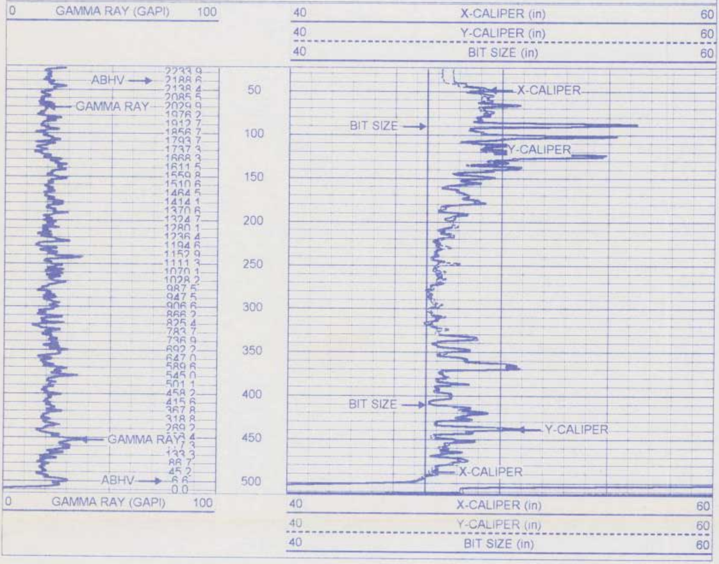
ANNULAR HOLE VOLUME
CALCULATED FOR 38" CASING

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: pass3.5
Presentation Format: grxyc.prs
Dataset Creation: Mon Aug 21 08:41:55 2000 by Calc VER. 5.4

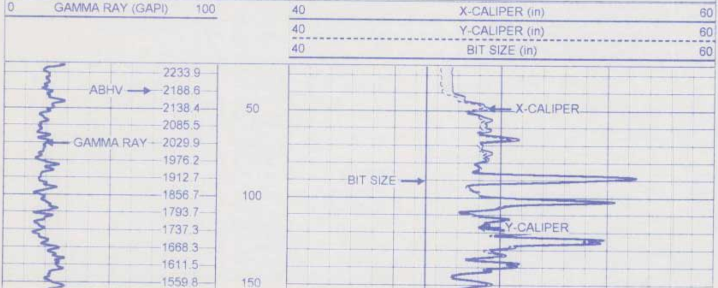
Charted by: Depth in Feet scaled 1:1200

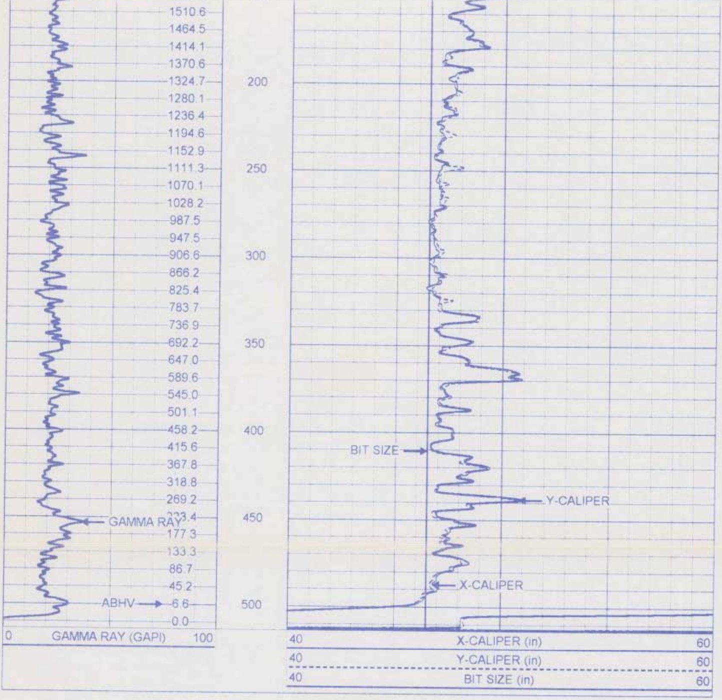


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	pass3.5
Presentation Format:	grxyc.prs
Dataset Creation:	Mon Aug 21 08:41:55 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:600

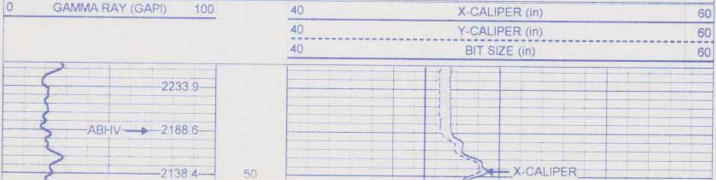


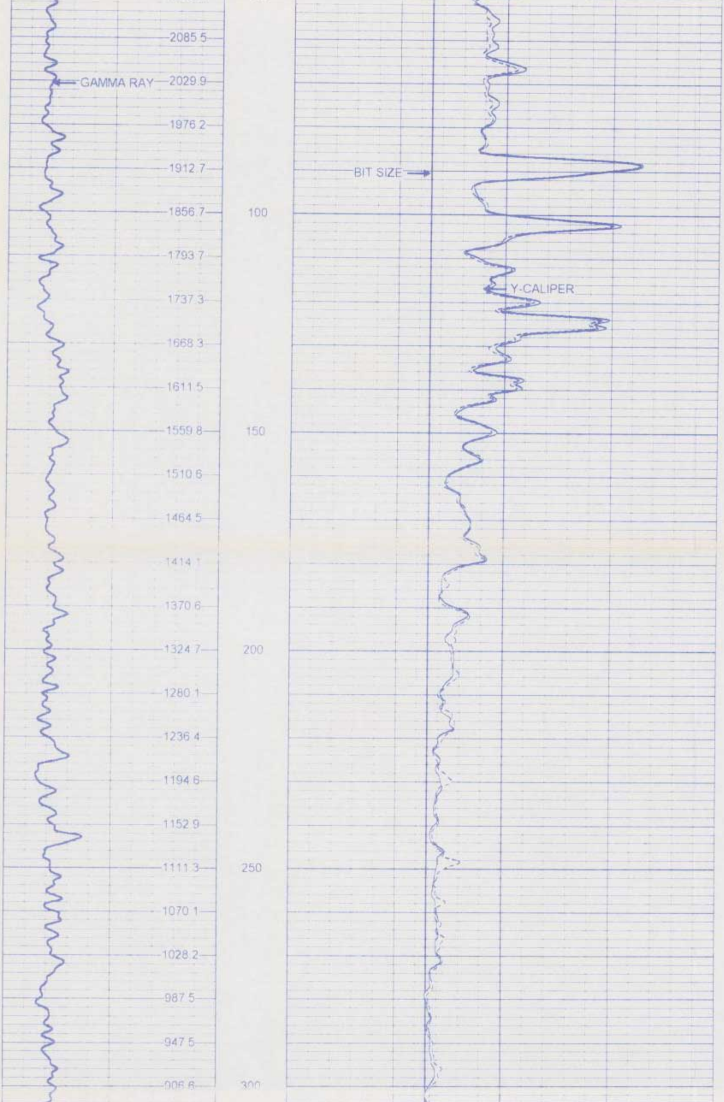


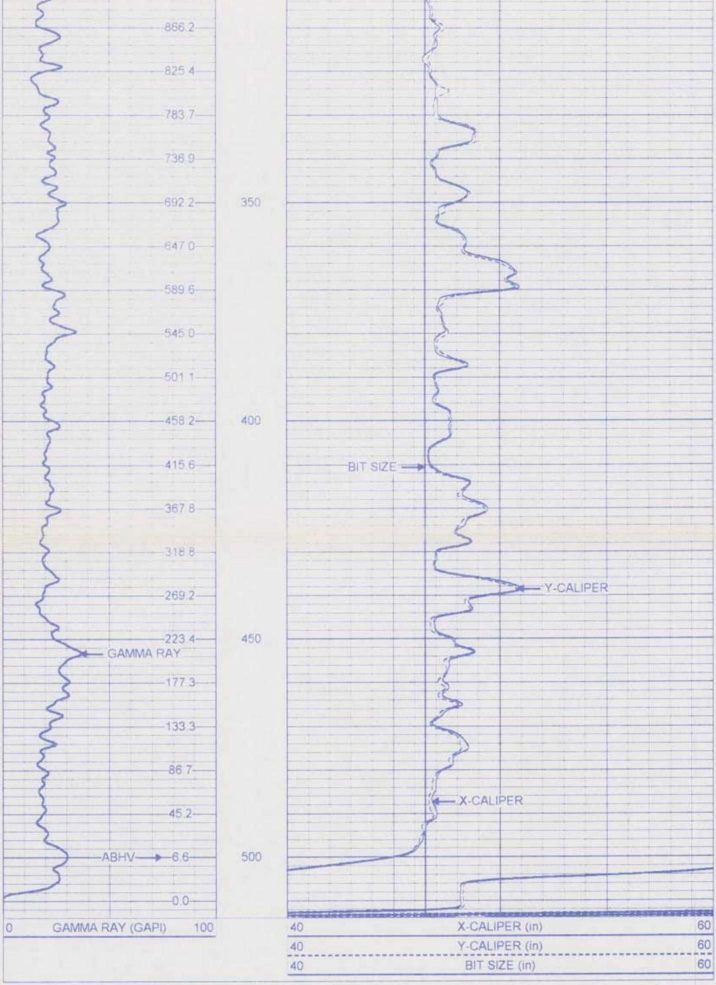
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	pass3.5
Presentation Format:	grxyc.prs
Dataset Creation:	Mon Aug 21 08:41:55 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:240



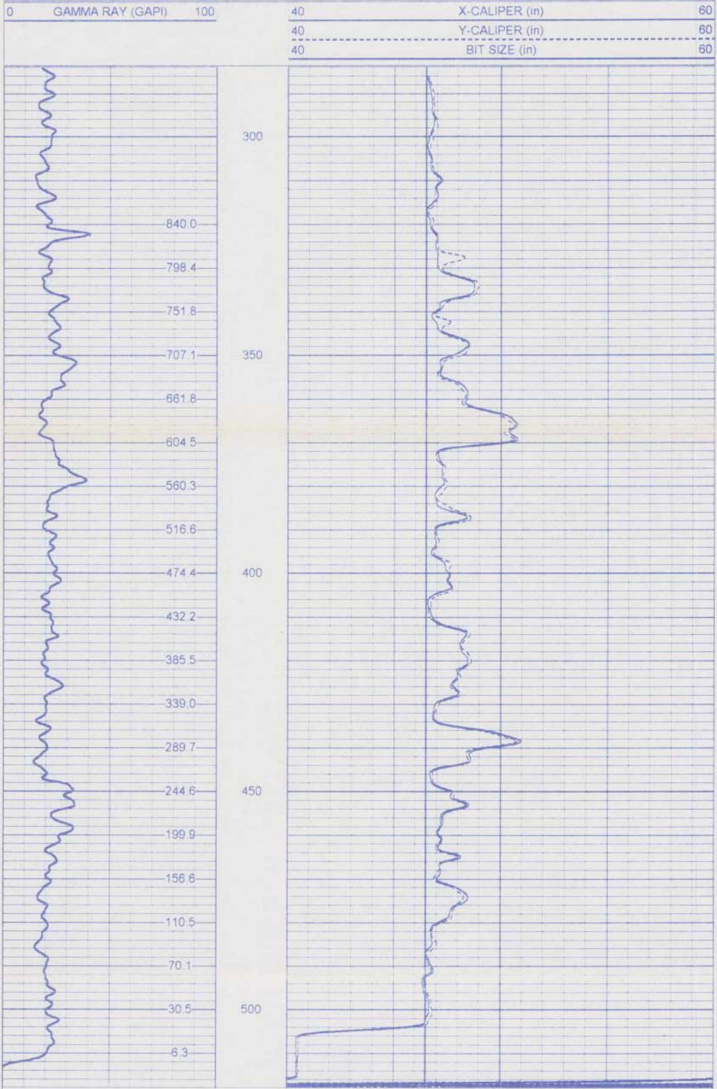




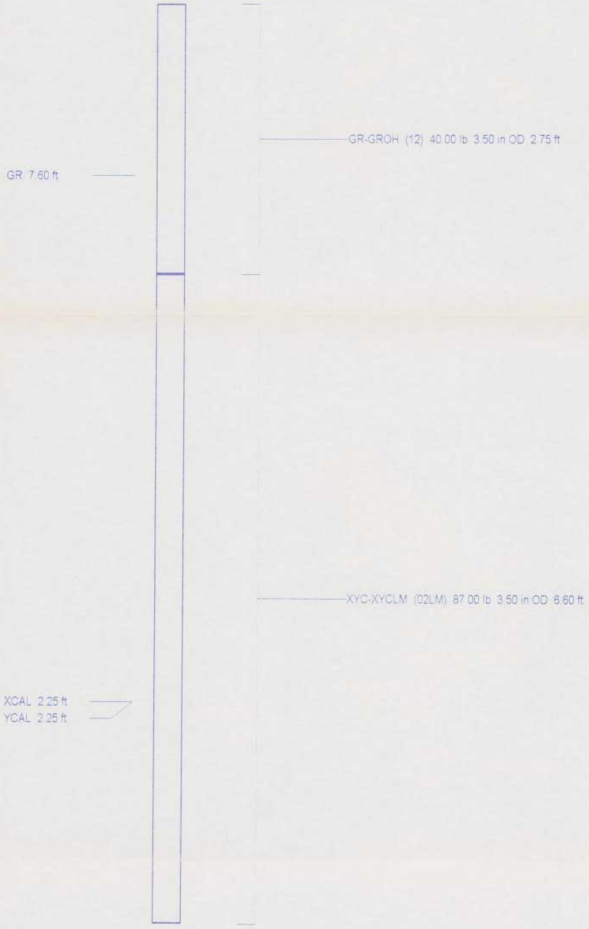
FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

Database File: puntaiw1.db
Dataset Pathname: pass2.2
Presentation Format: gnxyc.prs
Dataset Creation: Mon Aug 21 08:45:31 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:240



0	GAMMA RAY (GAPI)	100
40	X-CALIPER (in)	60
40	Y-CALIPER (in)	60
40	BIT SIZE (in)	60


GR-GROH (12) 40.00 lb 3.50 in OD 2.75 ft
GR 7.60 ft
XYC-XYCLM (02LM) 87.00 lb 3.50 in OD 6.60 ft
XCAL 2.25 ft
YCAL 2.25 ft

Dataset	run1/pass3.5
Total Length	9.35 ft
Total Weight	127.00 lb
O.D.	3.50 in

XY Caliper Calibration Report

Serial Number/Model:	02LM-XYCLM
Performed:	Fri Aug 18 18:25:37 2000

Ring			X Caliper		Y Caliper	
1:	40	in	1145.55	cps	1163.26	cps
2:	47.25	in	1279.08	cps	1271.12	cps
3:	56.5	in	1392.09	cps	1382.48	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	12	
Tool Model:	GROH	
Performed:	Fri Aug 18 11:57:46 2000	
Calibrator Value:	120	GAPI
Background Reading:	36.8246	cps
Calibrator Reading:	157.057	cps
Sensitivity:	0.998066	GAPI/cps

FLORIDA
GEOPHYSICAL LOGGING, INC.

X-Y CALIPER
GAMMA RAY
LOG

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company WATER RESOURCE SOLUTIONS INC.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE State/Prv FLORIDA

Location
NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation
Log Measured From	PAD			K.B. 27'
Drilling Measured From	PAD			D.F. 27'
				G.L. 24'

Date	10/4/00		
Run Number	NINE		
Depth Driller	2505'		
Depth Logger	2507'		
Bottom Logged Interval	2507'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	106		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1030		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON		
Witnessed By	F. PROCTA		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				
THREE	36.5"	CASING	1716'				
FOUR	12.25"	CASING	2505'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String	30"	375	SURFACE	1710'
Liner				

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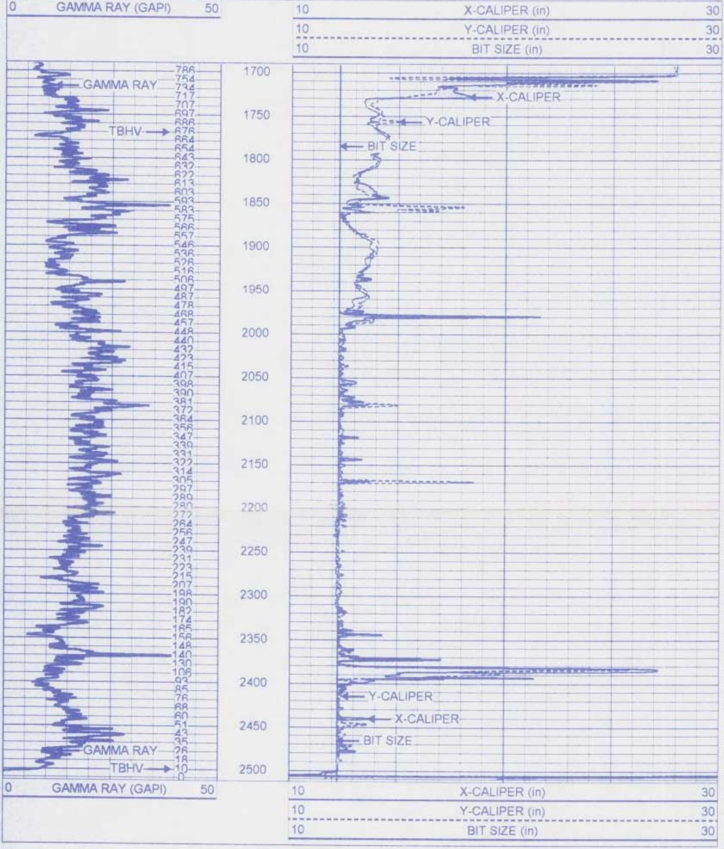
Comments

TEMPERATURE SURVEY
DUAL INDUCTION LL3/SP
BOREHOLE COMPENSATED SONIC
VIDEO

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

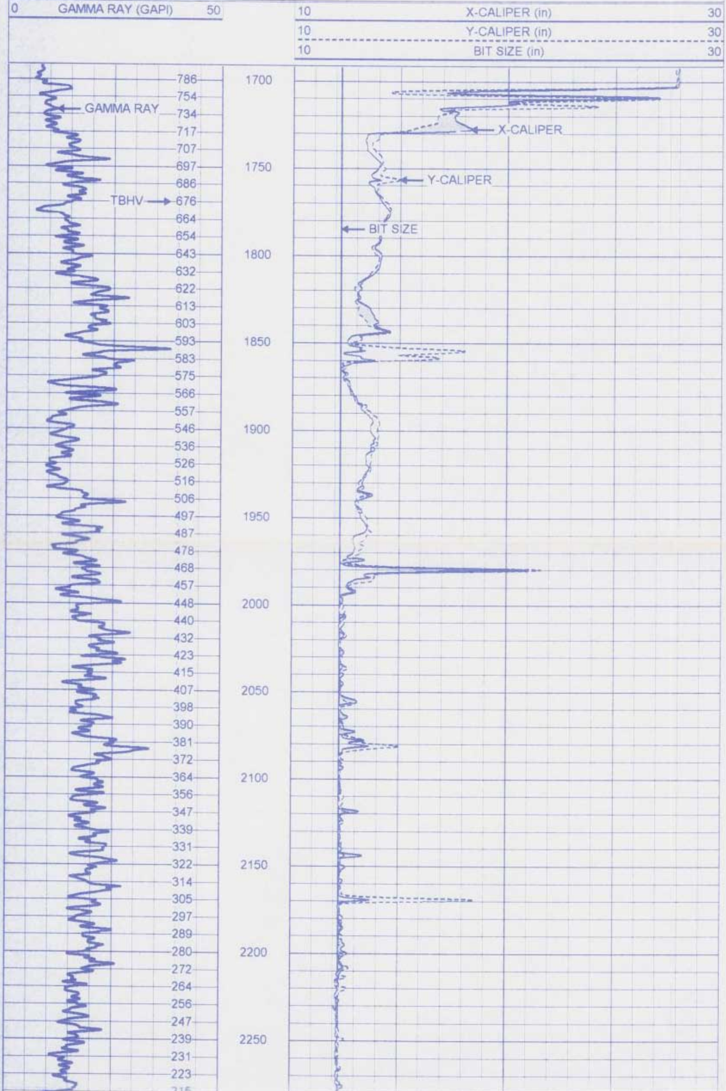
Database File:	puntaiw1.db
Dataset Pathname:	run9/pass4
Presentation Format:	grxyc.prs
Dataset Creation:	Wed Oct 04 10:58:53 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:1200

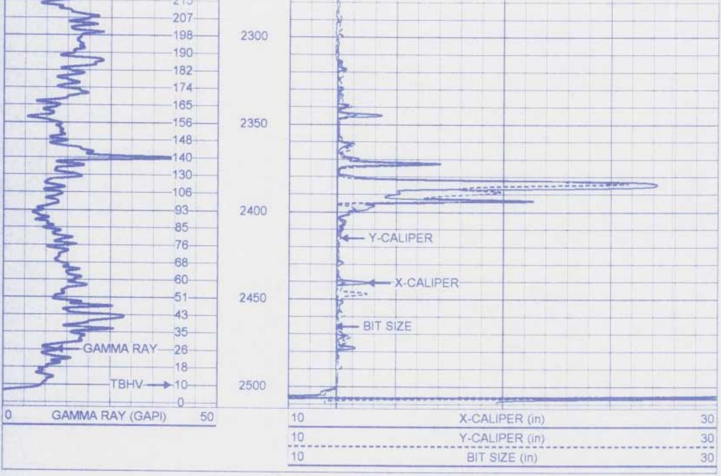


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run9/pass4
Presentation Format: grxyc.prs
Dataset Creation: Wed Oct 04 10:58:53 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:600

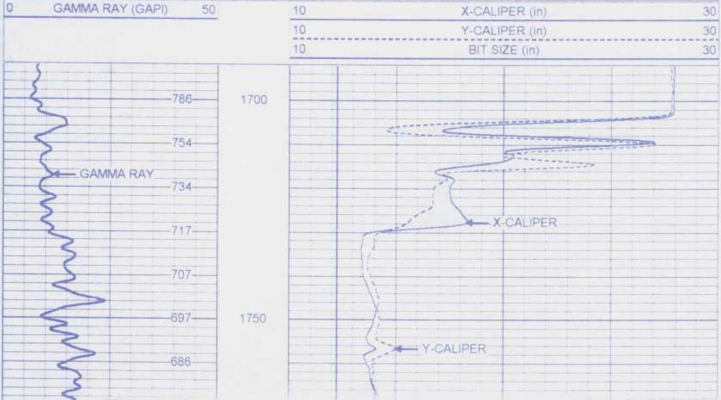


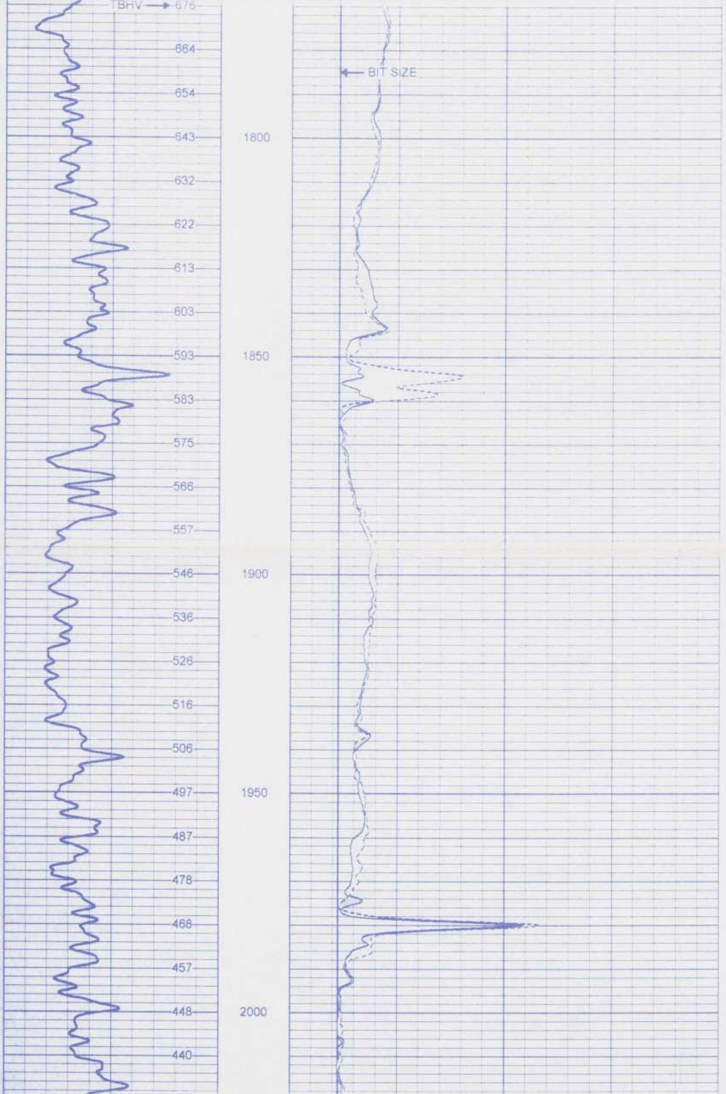


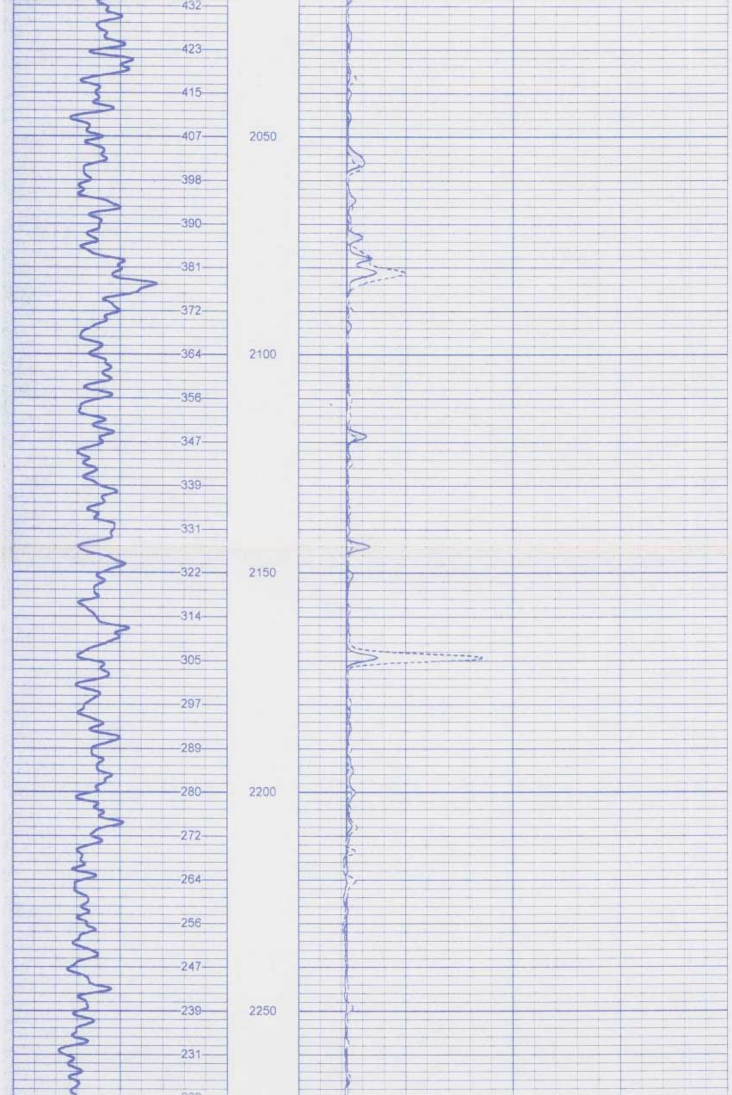
FLORIDA
GEOPHYSICAL LOGGING, INC.

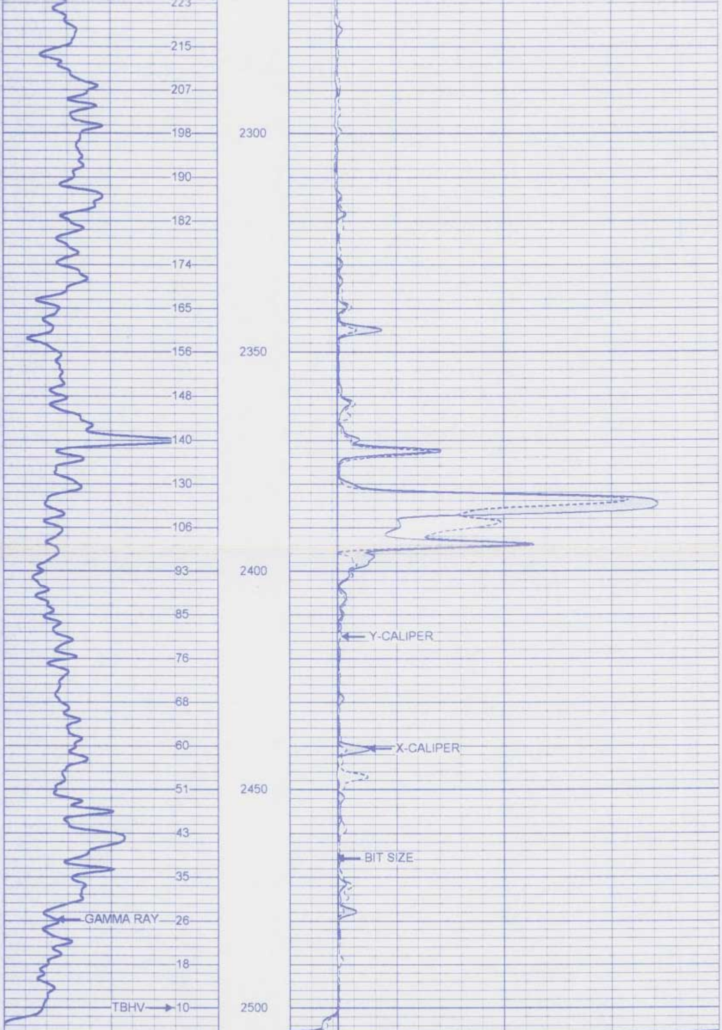
MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run9/pass4
Presentation Format: grxyc.prs
Dataset Creation: Wed Oct 04 10:58:53 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:240





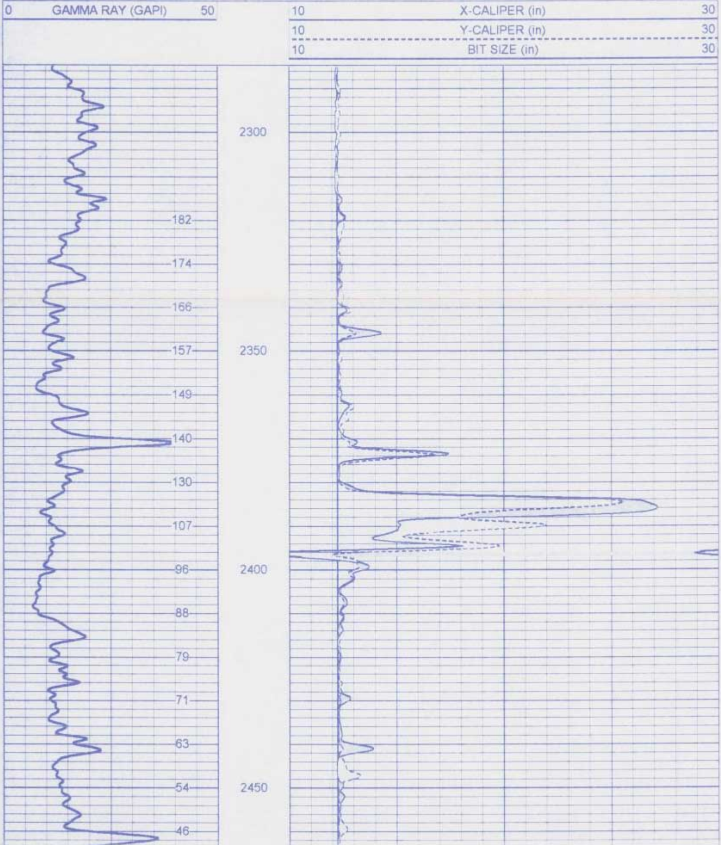


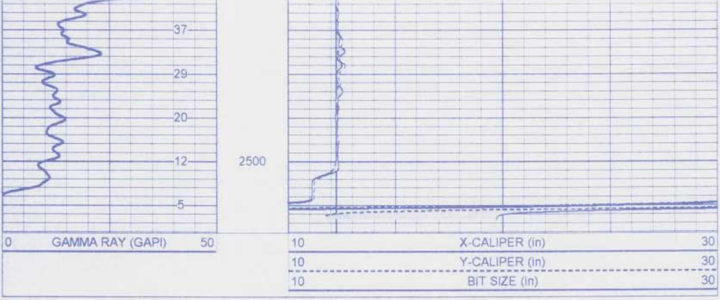


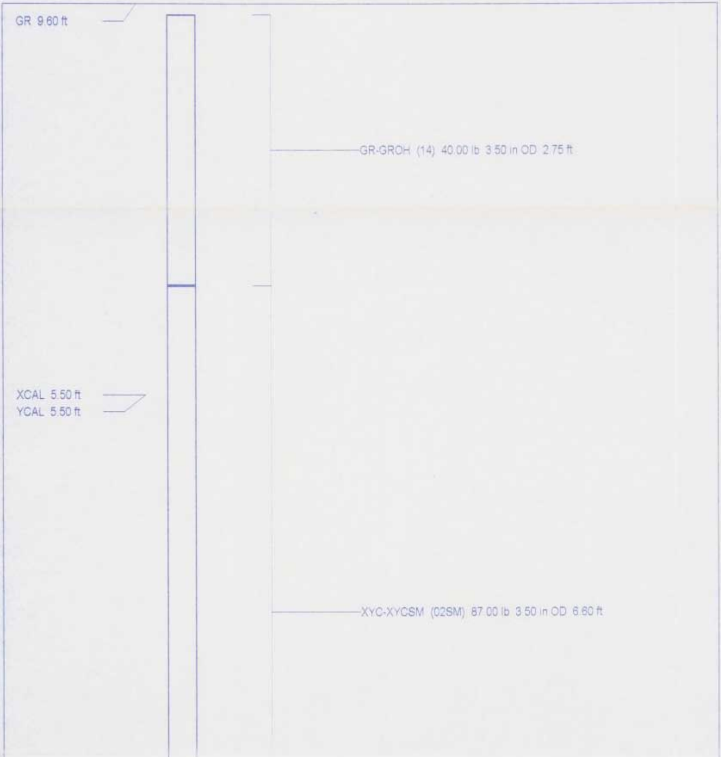
FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

Database File:	puntaiw1.db
Dataset Pathname:	run9/pass3.1
Presentation Format:	grxyc.prs
Dataset Creation:	Wed Oct 04 10:55:34 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:240






GR 9.60 ft
GR-GROH (14) 40.00 lb 3.50 in OD 2.75 ft
XCAL 5.50 ft
YCAL 5.50 ft
XYC-XYCSM (02SM) 87.00 lb 3.50 in OD 6.60 ft

Dataset: run9/pass4
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

XY Caliper Calibration Report

Serial Number/Model: 02SM-XYCSM
Performed: Wed Oct 04 09:52:38 2000

Ring			X Caliper		Y Caliper	
1:	5.81	in	707.808	cps	784.685	cps
2:	13.4	in	913.513	cps	959.259	cps
3:	28	in	1397.5	cps	1386.49	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number: 14
Tool Model: GROH
Performed: Fri Sep 01 10:52:17 2000

Calibrator Value: 120 GAPI

Background Reading: 21.4476 cps
Calibrator Reading: 133.923 cps

Sensitivity: 1.0669 GAPI/cps

FLORIDA
GEOPHYSICAL LOGGING, INC.

BOREHOLE COMPENSATED SONIC LOG

Company	WATER RESOURCE SLTNS.
Well	IW-1
Field	PUNTA GORDA W.W.T.P.
Country	CHARLOTTE
State/Prv	FL

Company	WATER RESOURCE SOLUTIONS INC.
Well	IW-1
Field	PUNTA GORDA W.W.T.P.
Country	CHARLOTTE State/Prv FL
Location	NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services SEE COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation
Log Measured From	PAD			K.B. 27'
Drilling Measured From	PAD			D.F. 27'
				G.L. 24'

Date	8/26/00		
Run Number	THREE		
Depth Driller	1730'		
Depth Logger	1729'		
Bottom Logged Interval	1729'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1430		
Equipment Number	103		
Location	FT MYERS		
Recorded By	DENISON		
Witnessed By	M. PEARCE		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	.375	SURFACE	42'
Prot. String	38"	.375	SURFACE	500'
Production String				
Liner				

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Comments

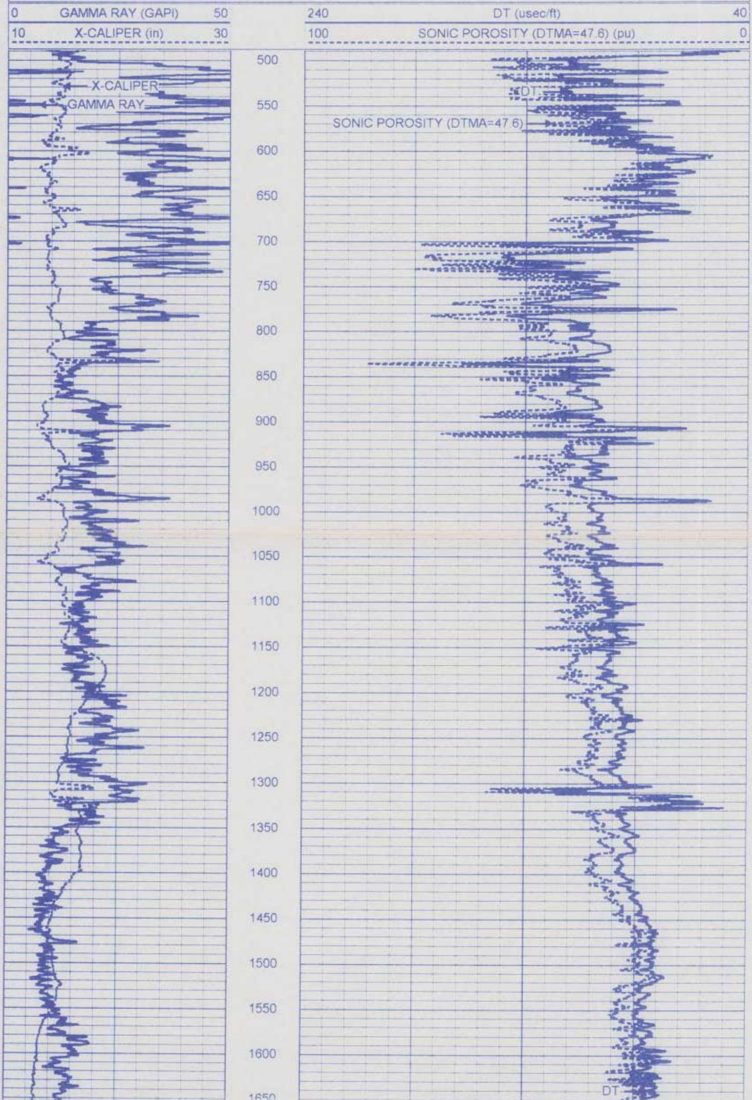
TEMPERATURE
X-Y CALIPER/GAMMA RAY
DUAL INDUCTION/LL3/SP

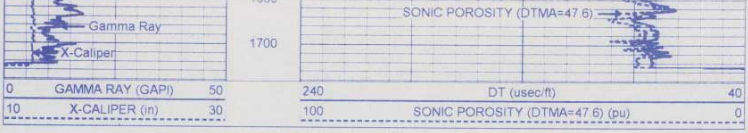
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run3/pass10
Presentation Format:	son_por.prs

Dataset Creation: Sat Aug 26 14:45:29 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:1200

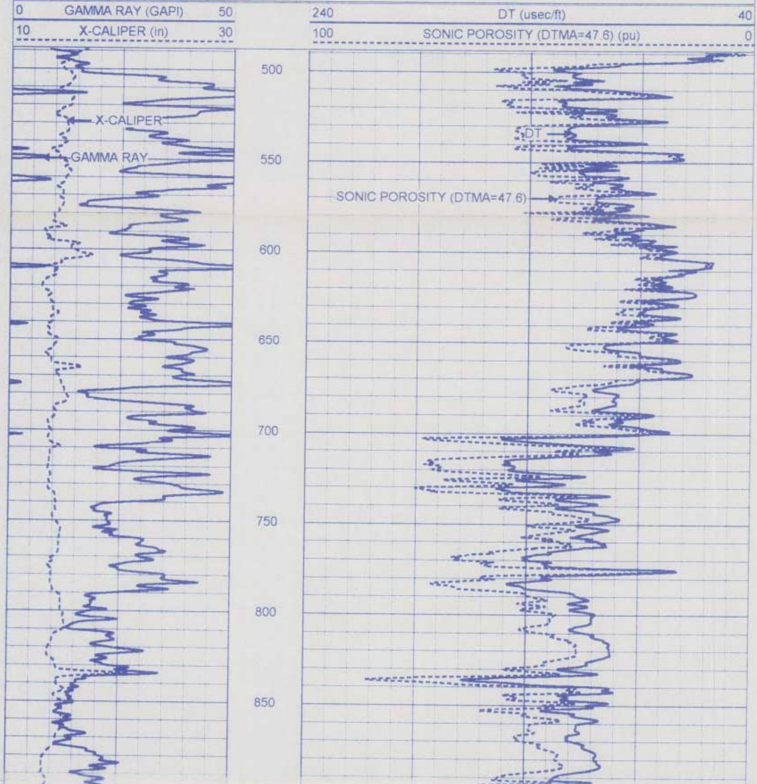


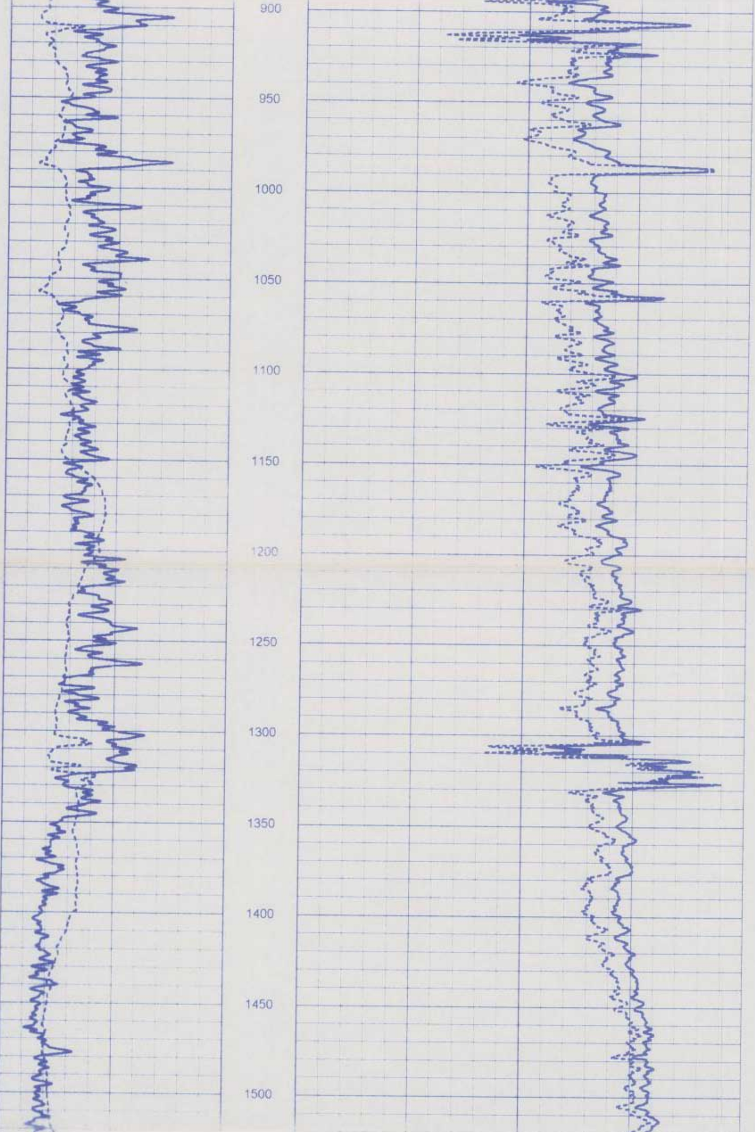


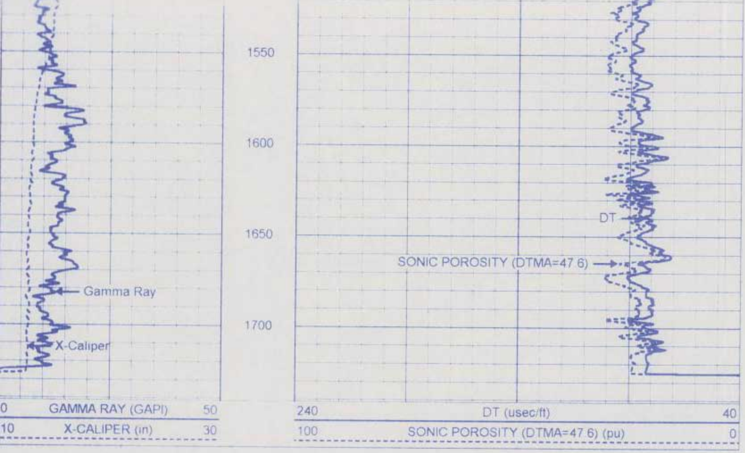
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run3/pass10
Presentation Format: son_por.prs
Dataset Creation: Sat Aug 26 14:45:29 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:600



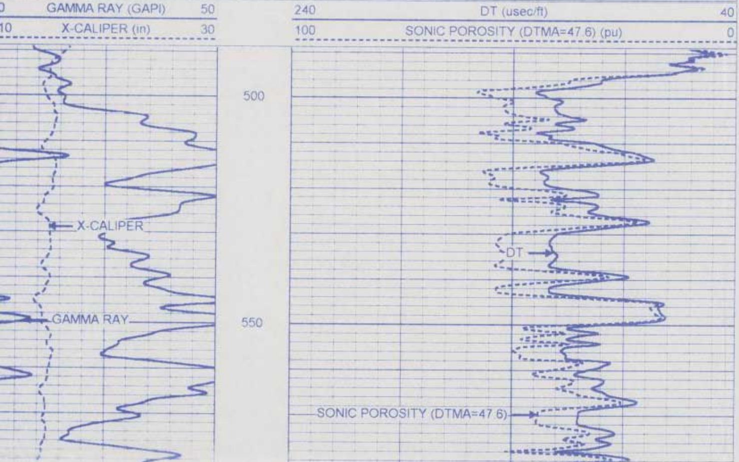


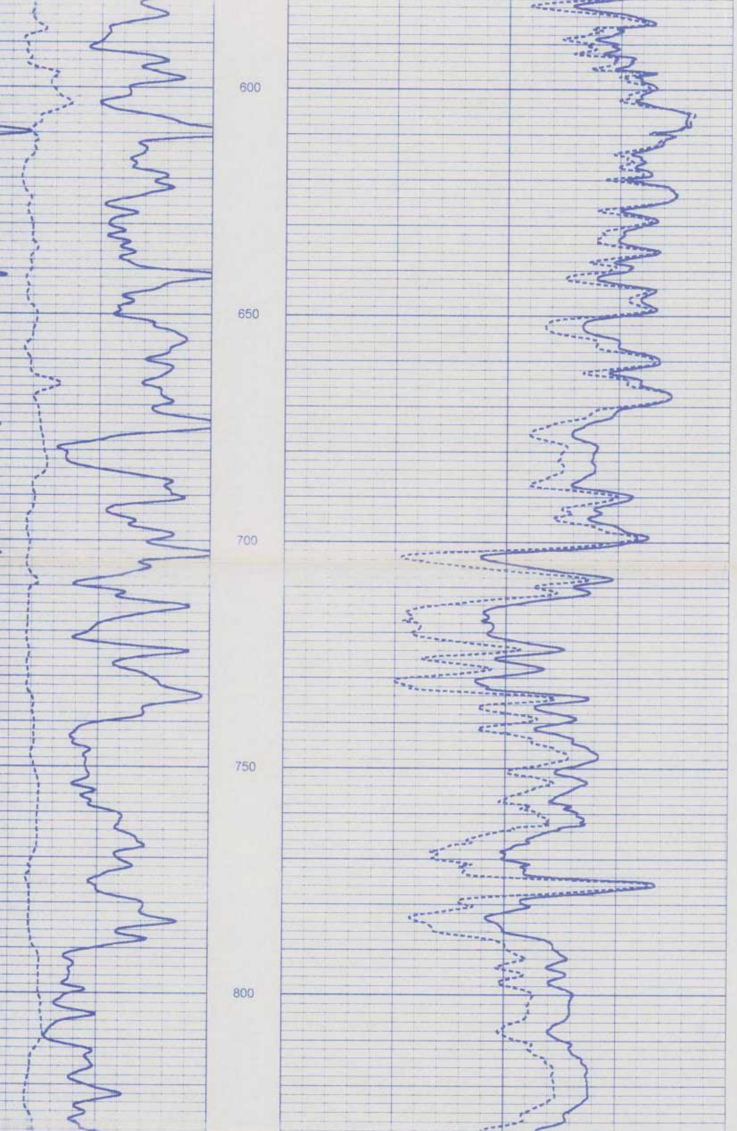


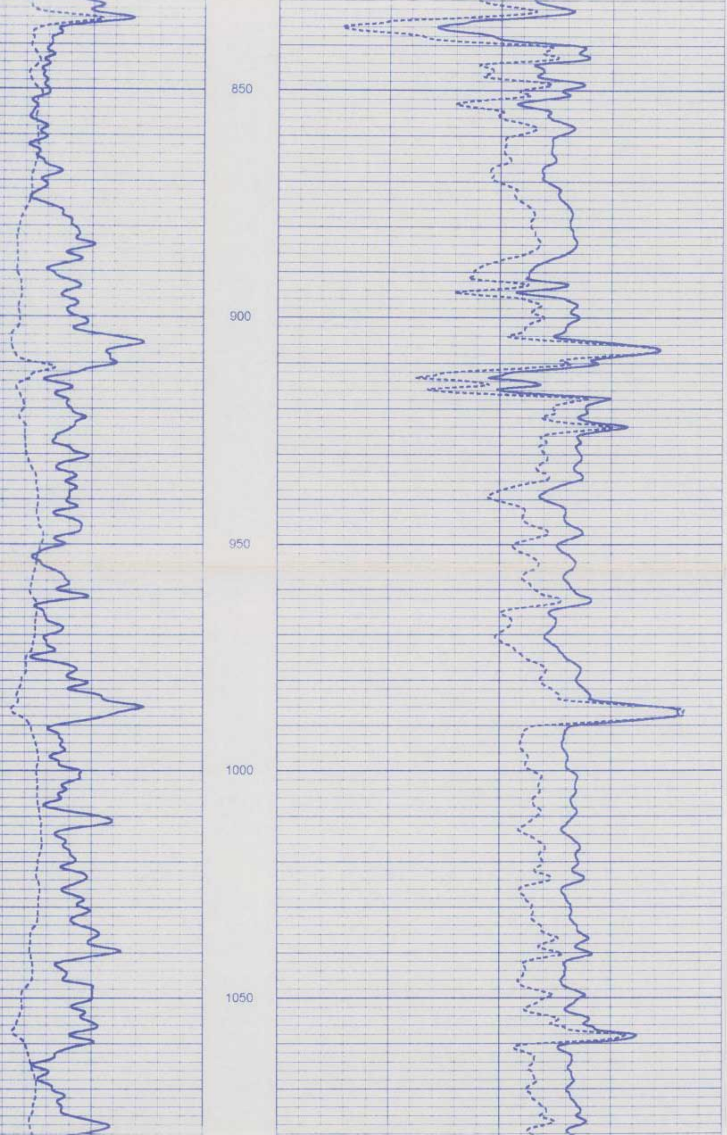
FLORIDA
GEOPHYSICAL LOGGING, INC

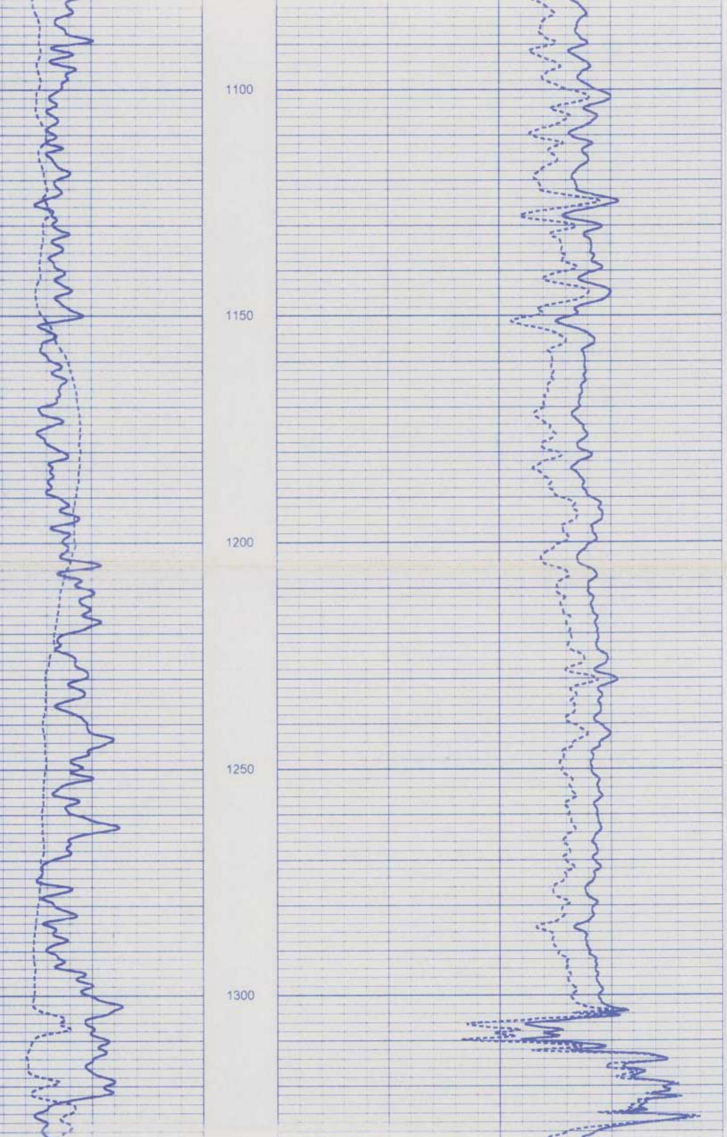
MAIN PASS

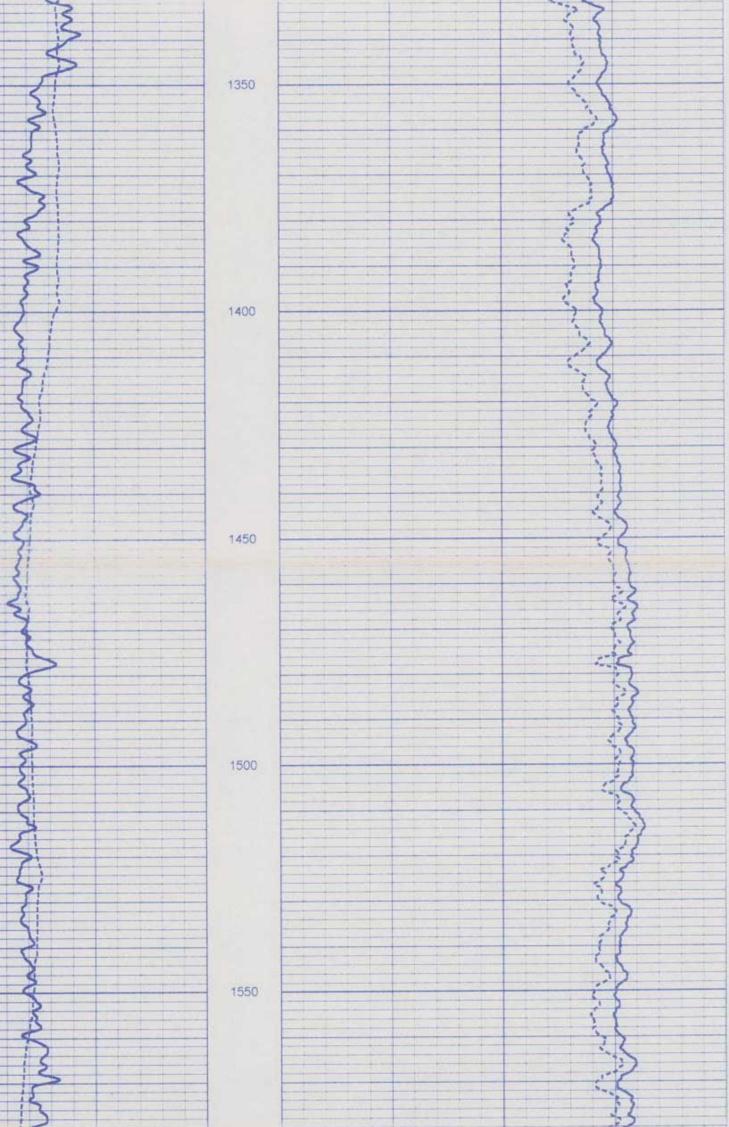
Database File	puntaiw1.db
Dataset Pathname	run3/pass10
Presentation Format	son_por.prs
Dataset Creation:	Sat Aug 26 14:45:29 2000 by Log VER_5.4
Charted by	Depth in Feet scaled 1:240

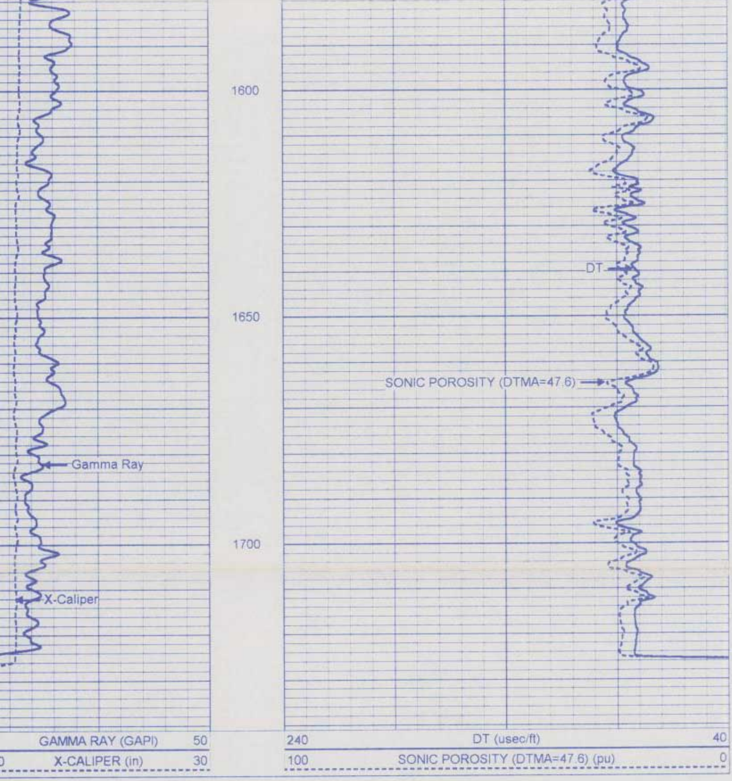










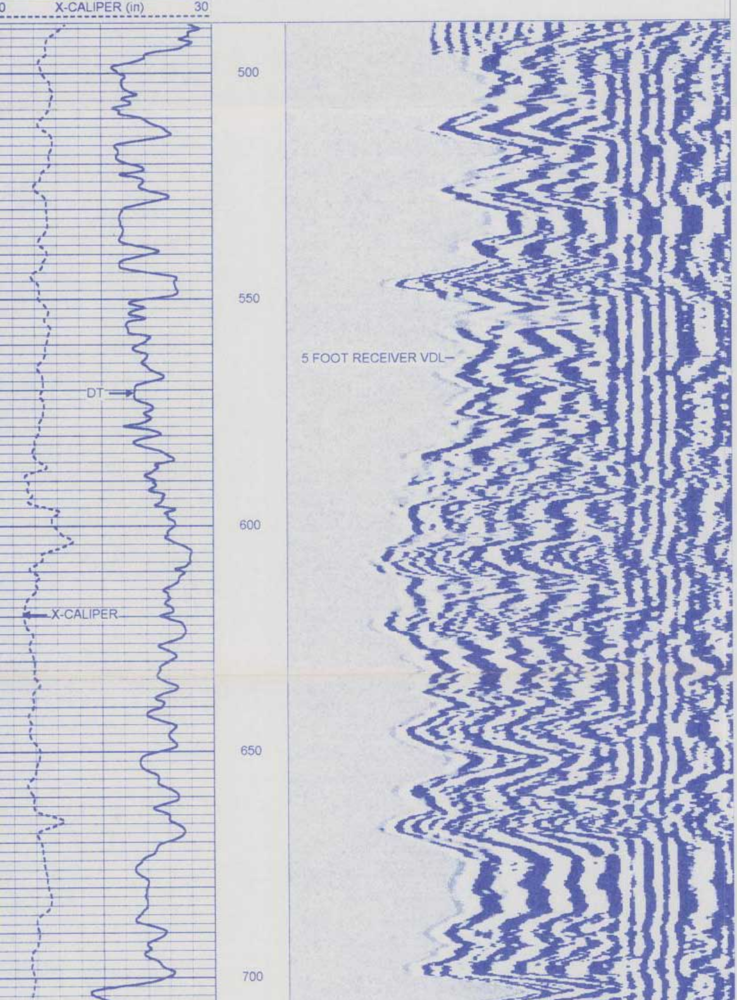


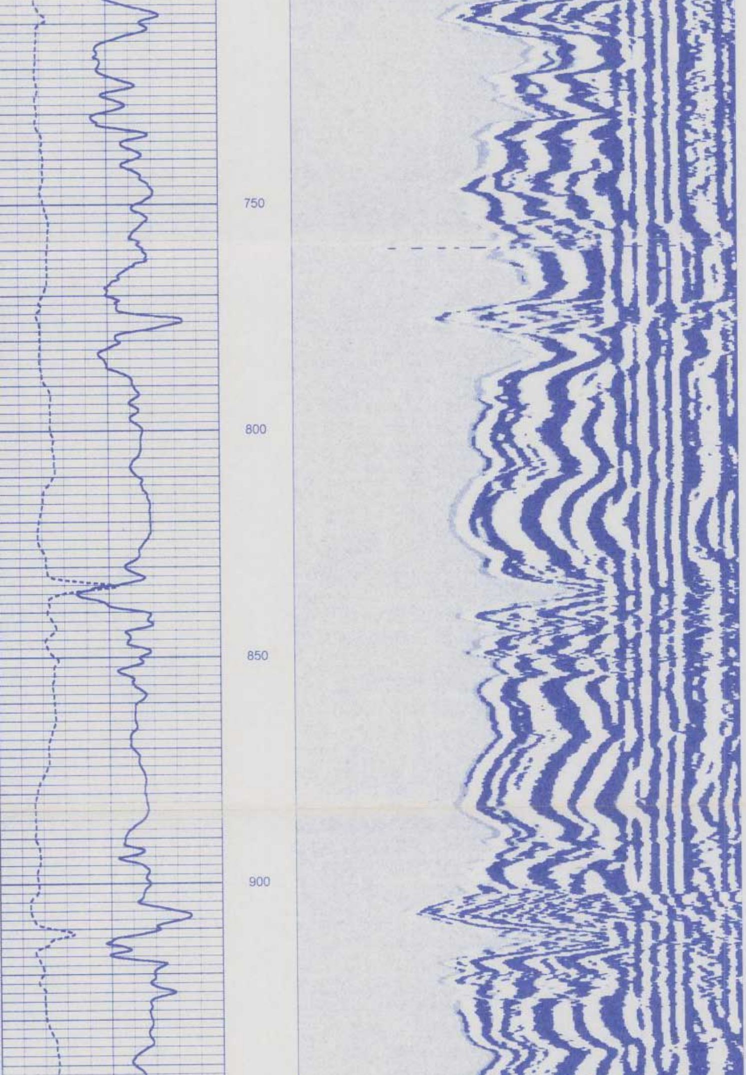
FLORIDA
GEOPHYSICAL LOGGING, INC.

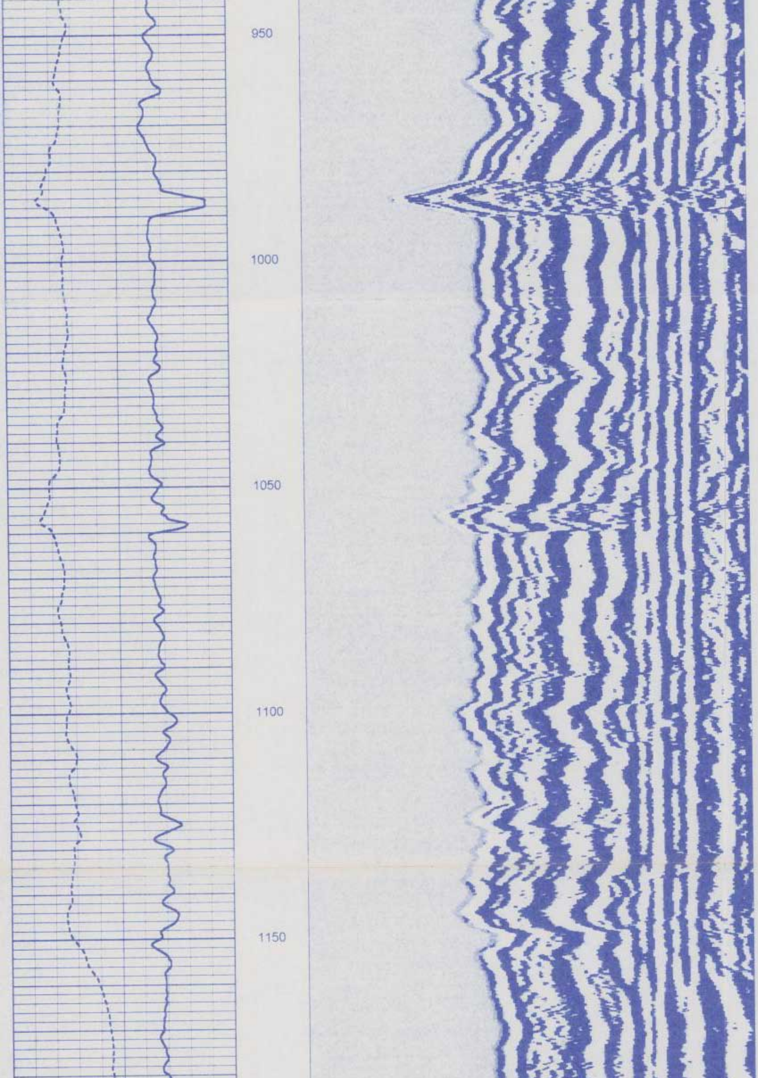
MAIN PASS

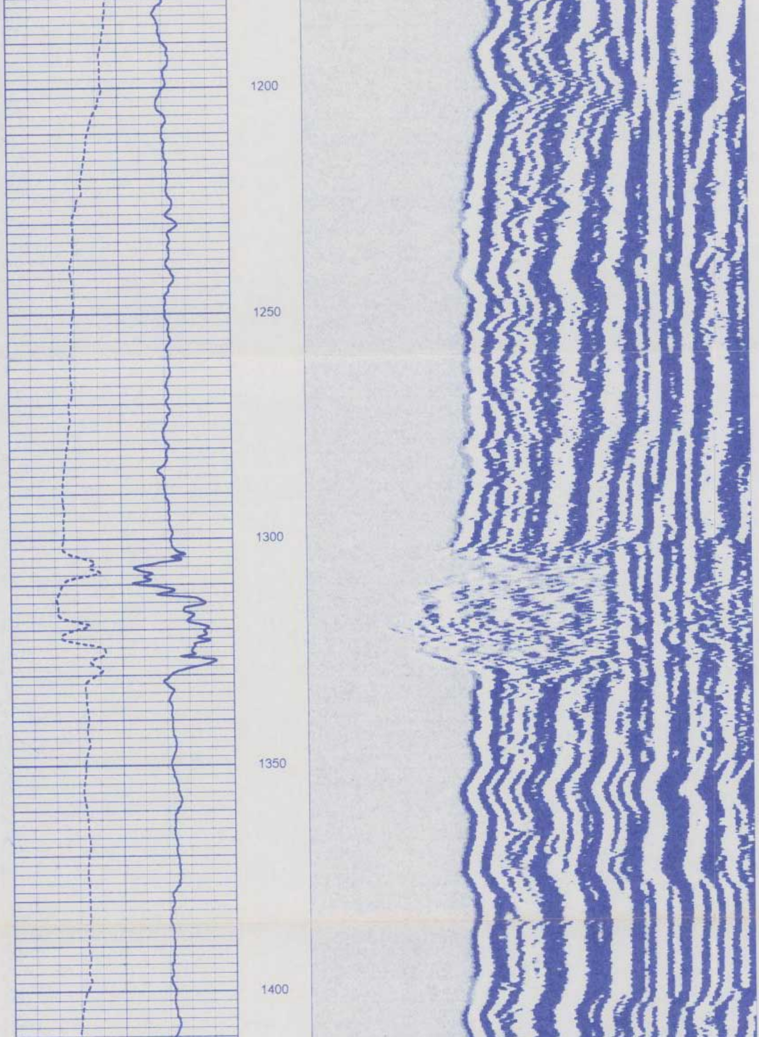
Database File:	puntaiw1.db
Dataset Pathname:	run3/pass10
Presentation Format:	son_vdl.prs
Dataset Creation:	Sat Aug 26 14:45:29 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240

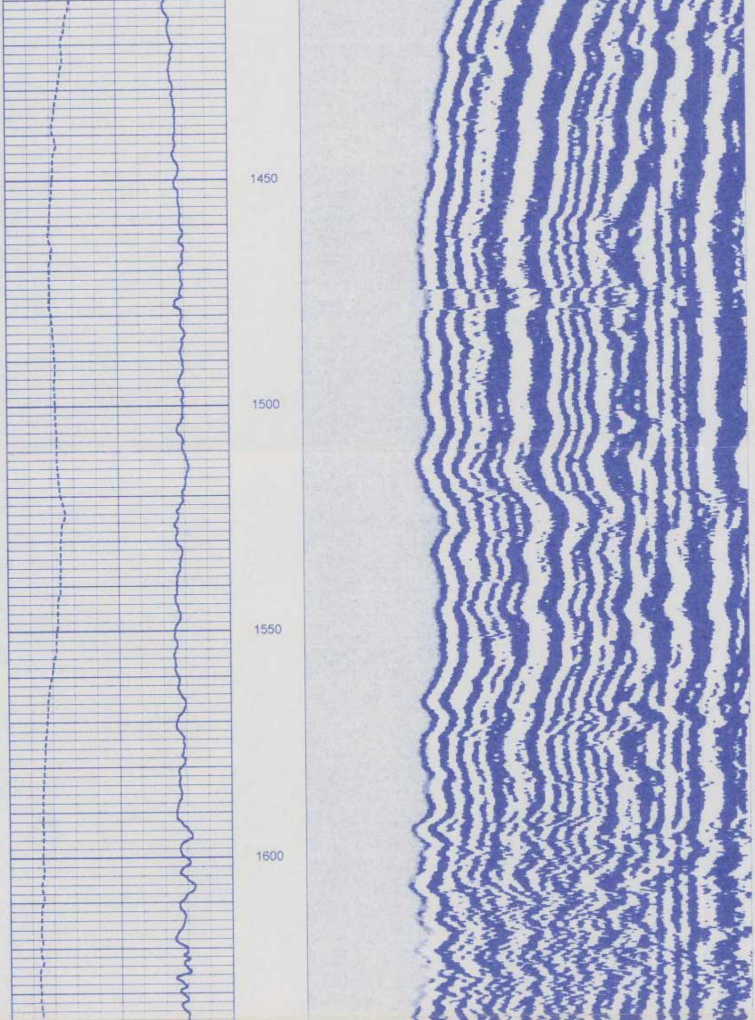
40 DT (usec/ft) 40 400 5 FOOT RECEIVER VDL 1400

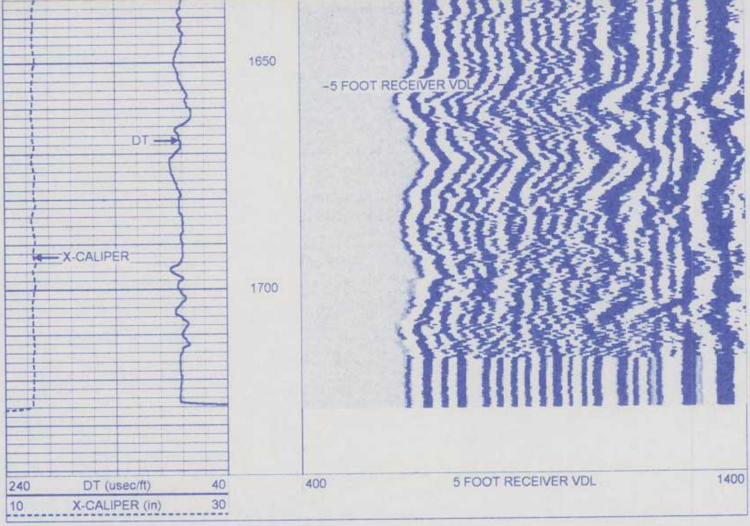








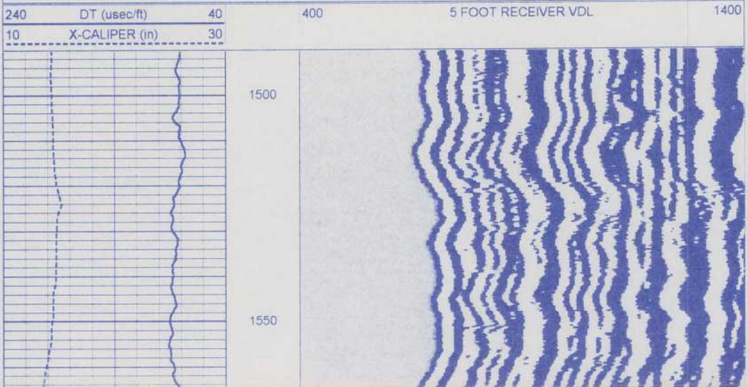


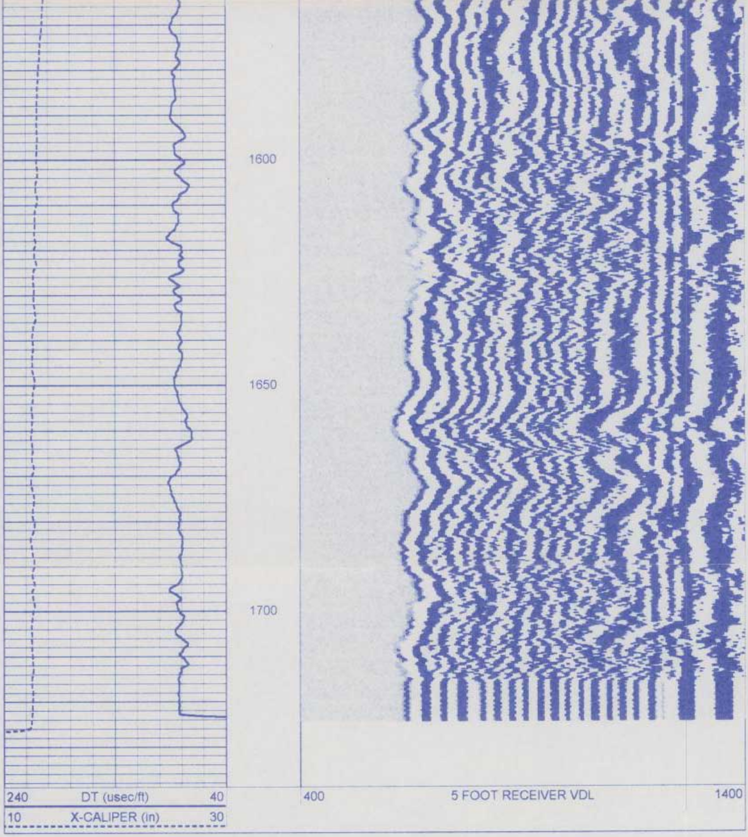


FLORIDA
GEOPHYSICAL LOGGING, INC.

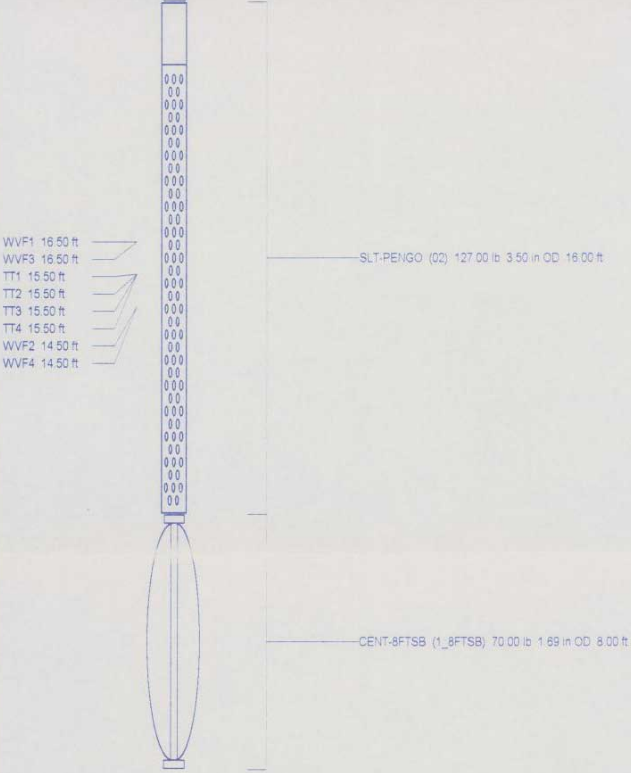
REPEAT PASS

Database File:	puntaiw1.db
Dataset Pathname:	run3/pass9
Presentation Format:	son_vdl.prs
Dataset Creation:	Sat Aug 26 14:25:03 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240





CENT-8FTC (6_8FTC) 70.00 lb 1.69 in OD 8.00 ft



Dataset:	run3/pass10
Total Length:	32.00 ft
Total Weight:	267.00 lb
O.D.:	3.50 in

FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE LOG

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company WATER RESOURCE SOLUTIONS INC.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE State/Prv FLORIDA
Location NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE COMMENTS

Permanent Datum	PAD	Elevation 24'	
Log Measured From	PAD		
Drilling Measured From	PAD		

Elevation
K.B. 27'
D.F. 27'
G.L. 24'

Date	8/26/00		
Run Number	THREE		
Depth Driller	1730'		
Depth Logger	1729'		
Bottom Logged Interval	1729'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	87 DEG F		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1100		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON		
Witnessed By	M. PEARCE		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String				
Liner				

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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

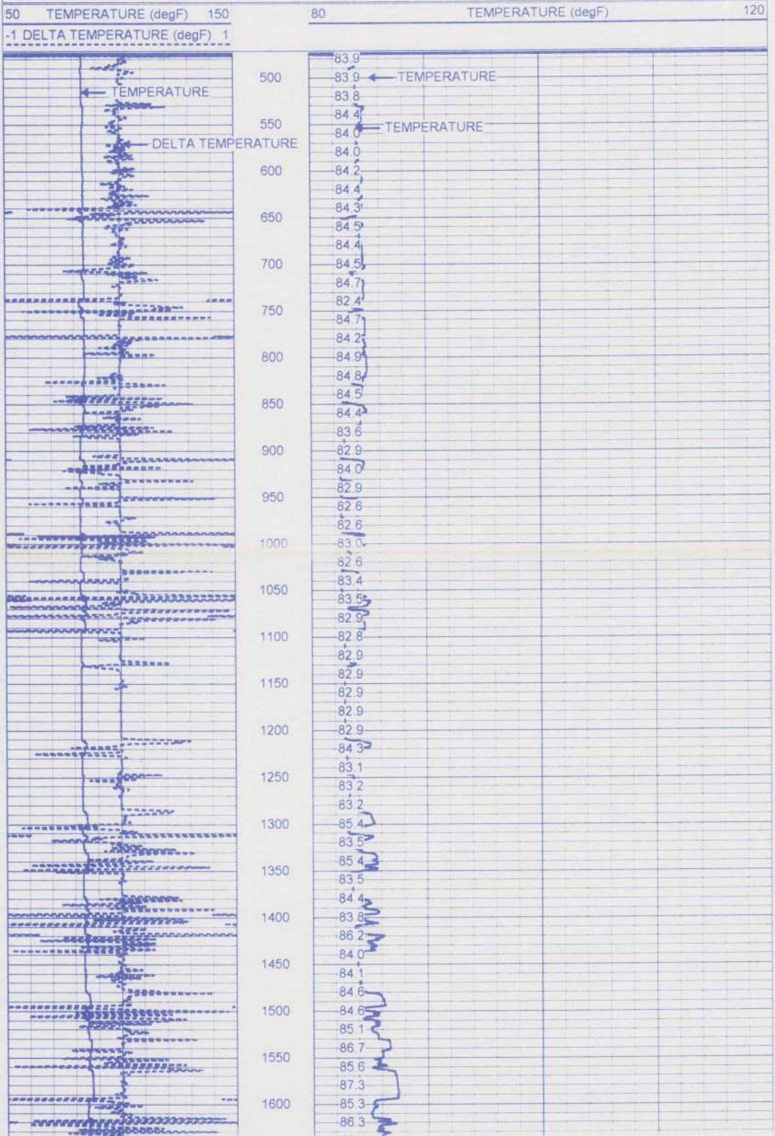
X-Y CALIPER/GAMMA RAY
DUAL INDUCTION/LL3/SP
BOREHOLE COMPENSATED SONIC

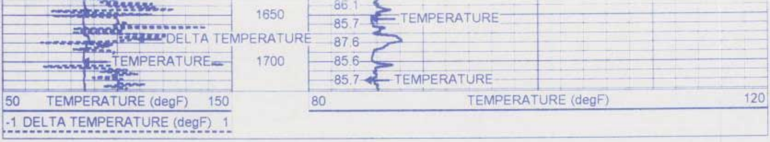
FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE SURVEY

Database File: puntaiw1.db
Dataset Pathname: run3/pass1
Presentation Format: temp.prs

Dataset Creation: Sat Aug 26 10:18:41 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:1200

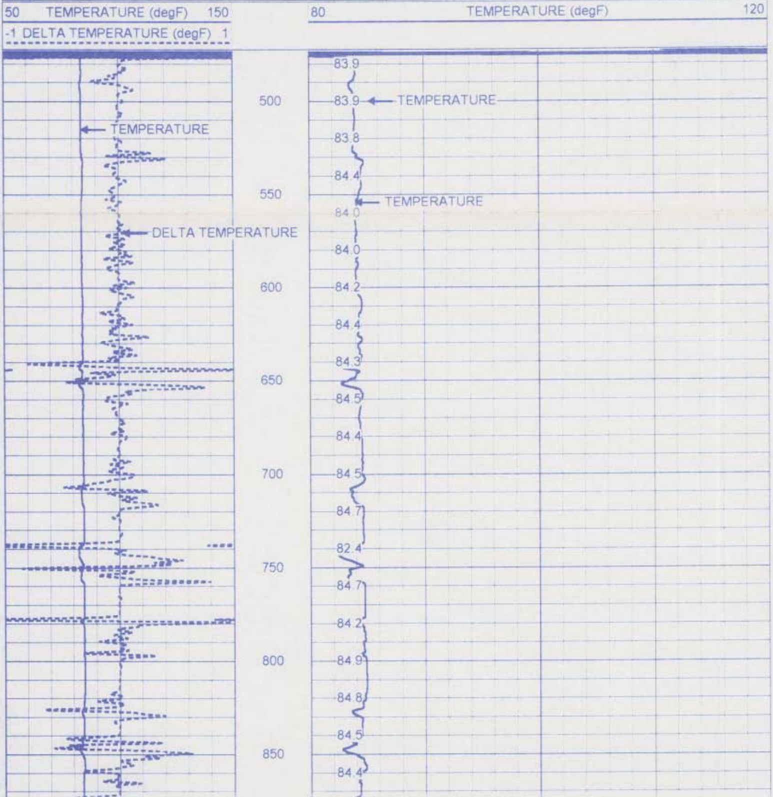


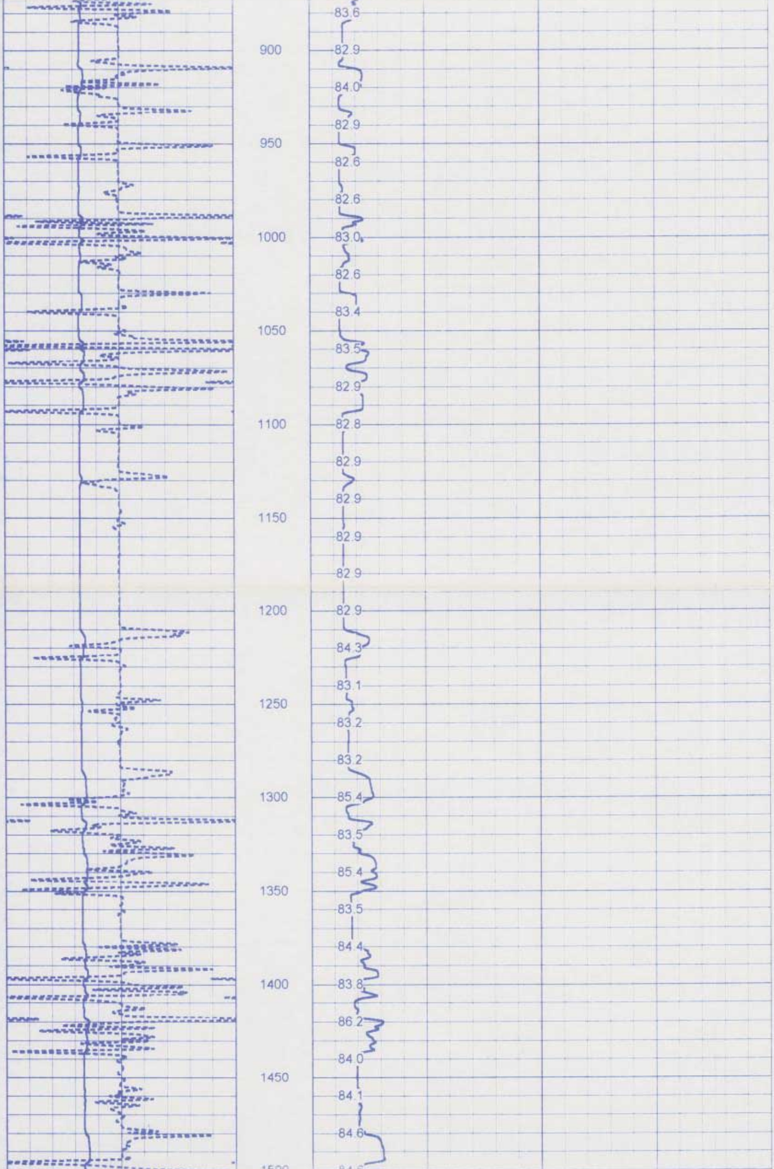


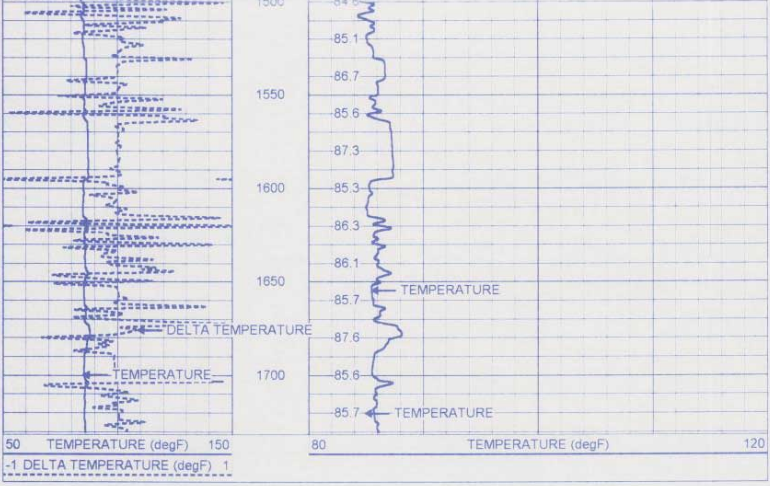
FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE SURVEY

Database File:	puntaiw1.db
Dataset Pathname:	run3/pass1
Presentation Format:	temp.prs
Dataset Creation:	Sat Aug 26 10:18:41 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:600



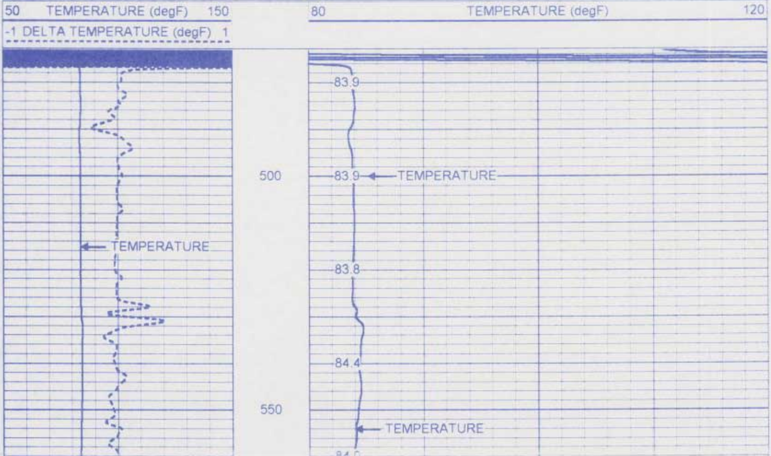


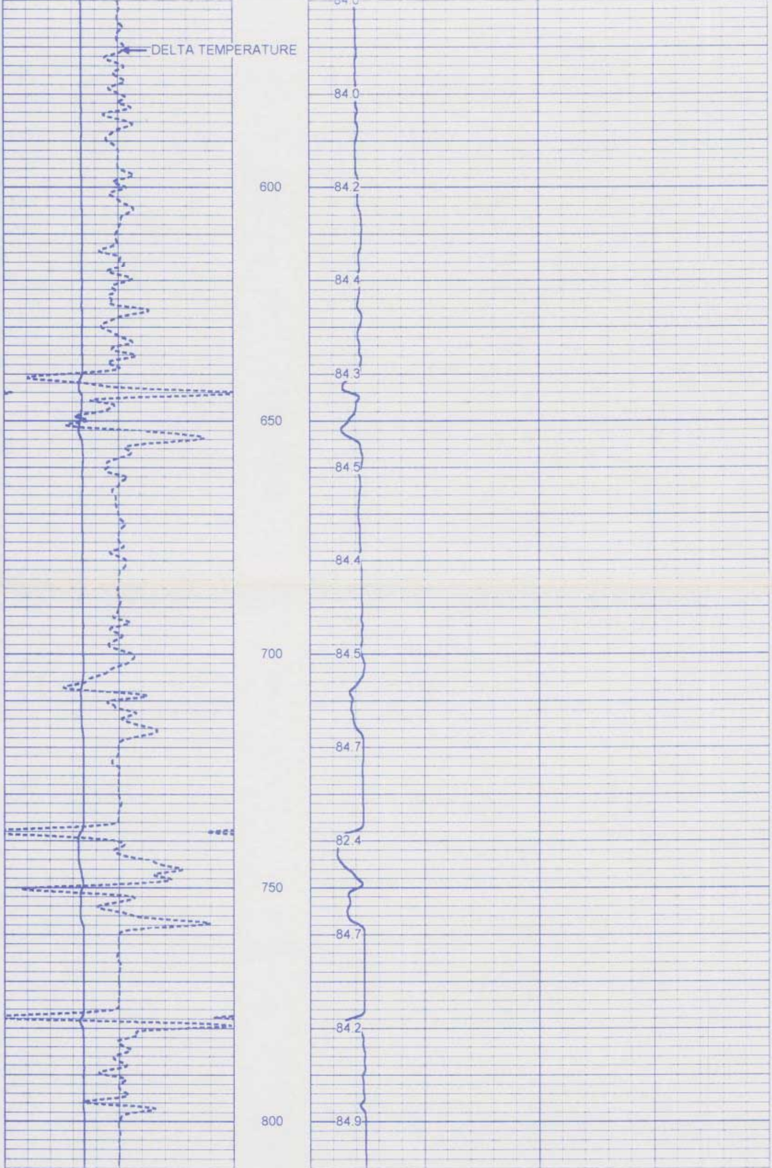


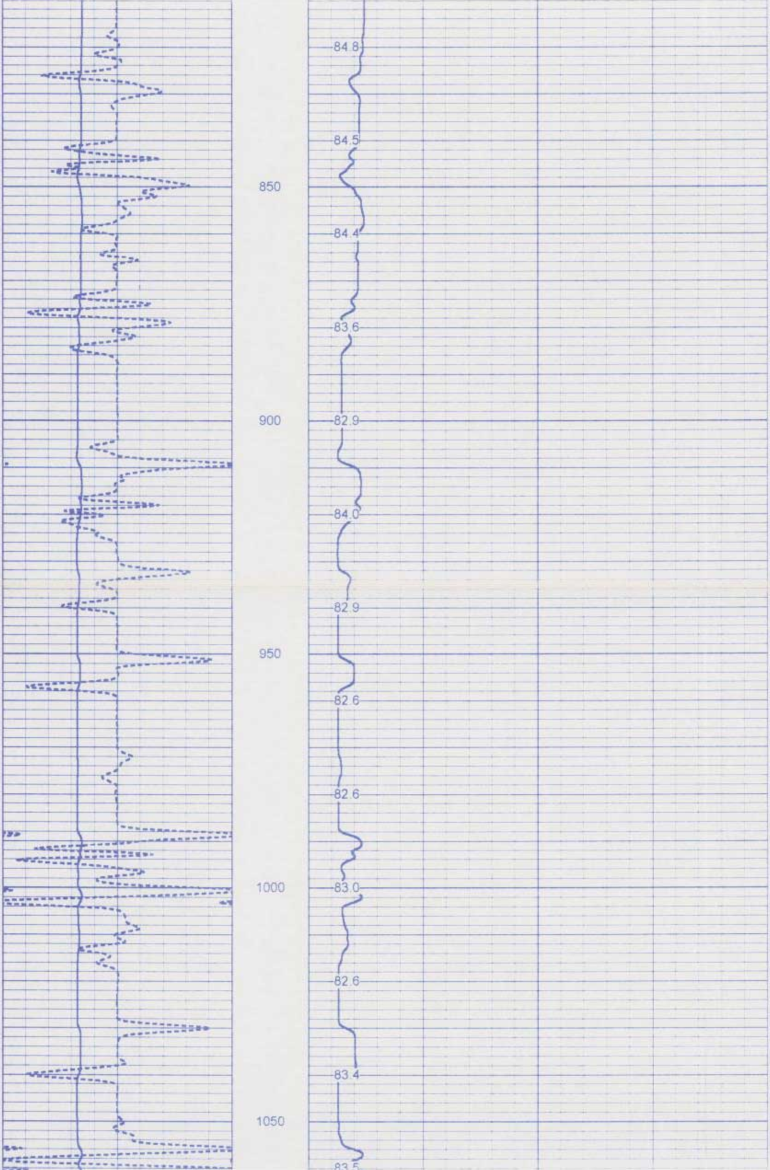
FLORIDA
GEOPHYSICAL LOGGING, INC.

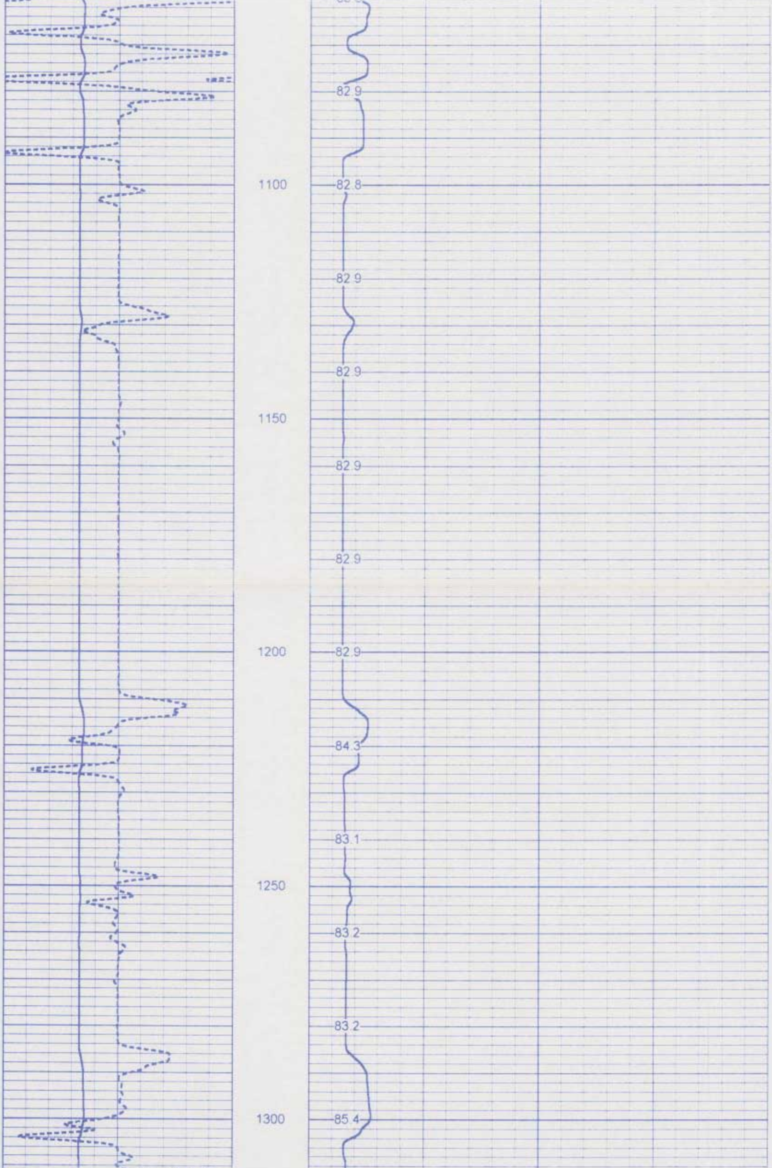
TEMPERATURE SURVEY

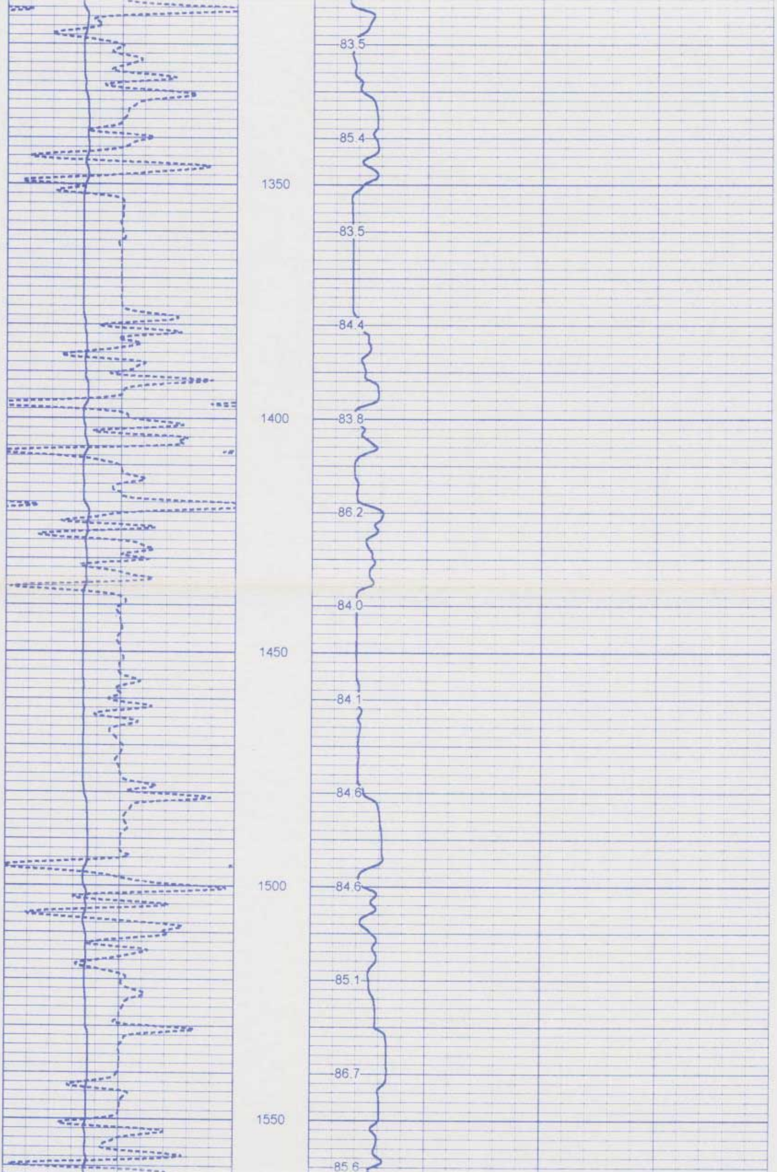
Database File:	puntaiw1.db
Dataset Pathname:	run3/pass1
Presentation Format:	temp.prs
Dataset Creation:	Sat Aug 26 10:18:41 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240

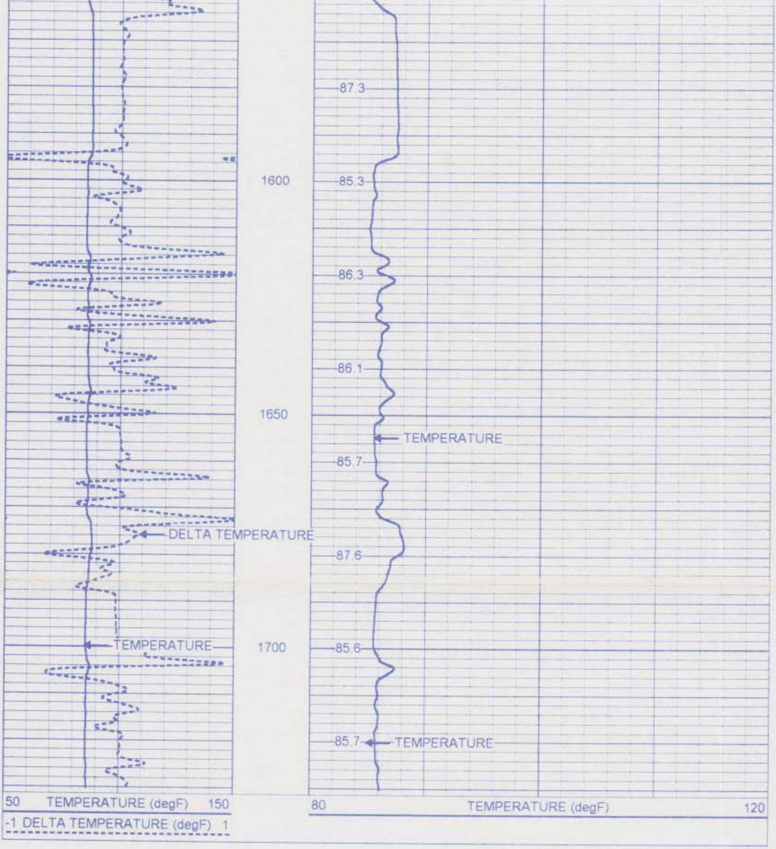


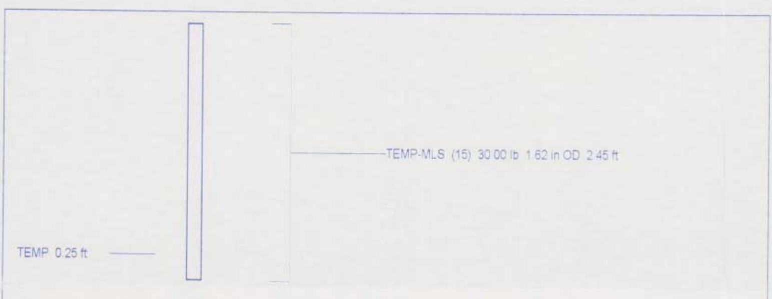












Dataset	run3/pass1
Total Length	2.45 ft
Total Weight	30.00 lb
O.D	1.62 in

Temperature Calibration Report

Serial Number:	15
Tool Model:	MLS
Performed:	Thu Aug 24 15:18:23 2000

Point #	Reading		Reference	
1	289.494	cps	34	degF
2	723.262	cps	159	degF
3		cps		degF

FLORIDA
GEOPHYSICAL LOGGING, INC.

DUAL INDUCTION
LL3/SP
LOG

Company WATER RESOURCE SLTNS.
Well IW-1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company	WATER RESOURCE SOLUTIONS INC.		
Well	IW-1		
Field	PUNTA GORDA W.W.T.P.		
Country	CHARLOTTE	State/Prv	FL
Location	NW 1/4, NE 1/4 : S7, T41S, R24E	Other Services	SEE COMMENTS

				Elevation
Permanent Datum	PAD	Elevation	24'	K.B. 27'
Log Measured From	PAD			D.F. 27'
Drilling Measured From	PAD			G.L. 24'

Date	8/26/00		
Run Number	THREE		
Depth Driller	1730'		
Depth Logger	1729'		
Bottom Logged Interval	1729'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1230		
Equipment Number	103		
Location	FT MYERS		
Recorded By	DENISON		
Witnessed By	M. PEARCE		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String				
Liner				

<<< Fold Here >>>

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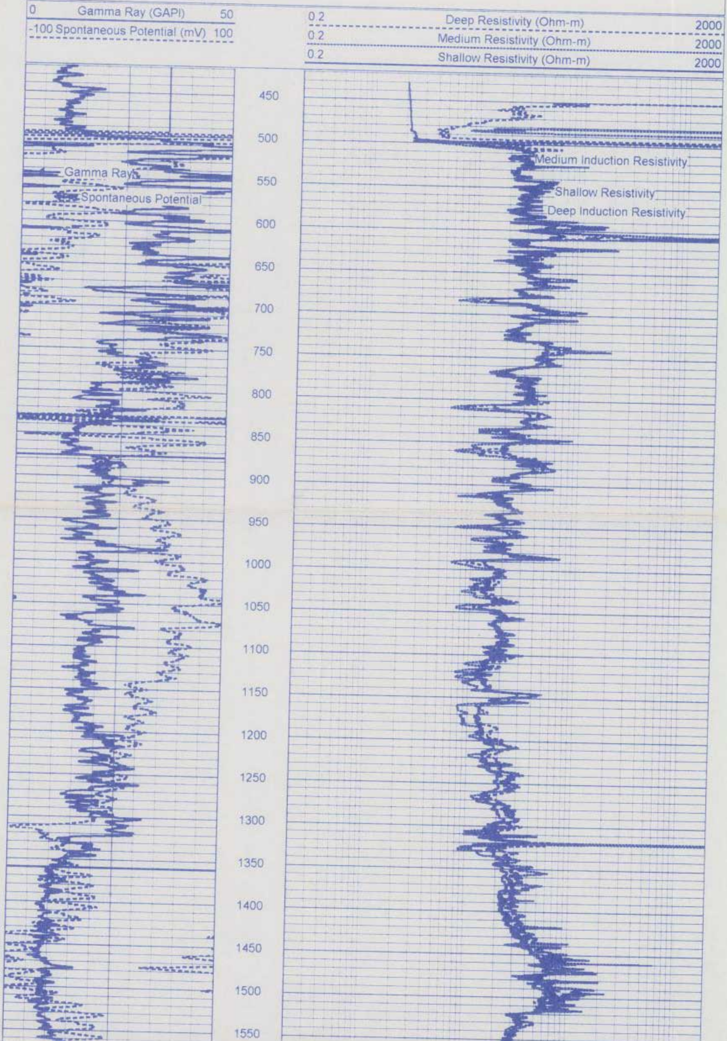
Comments

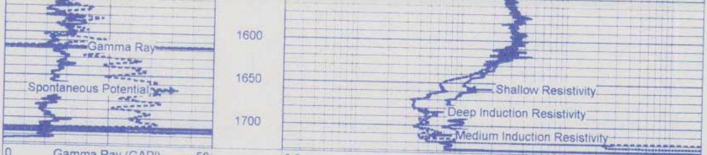
TEMPERATURE
X-Y CALIPER/GAMMA RAY
BOREHOLE COMPENSATED SONIC

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run3/pass7.2
Presentation Format: dil.prs
Dataset Creation: Mon Aug 28 09:45:52 2000
Charted by: Depth in Feet scaled 1:1200





0 Gamma Ray (GAPI) 50
-100 Spontaneous Potential (mV) 100

0.2 Deep Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000

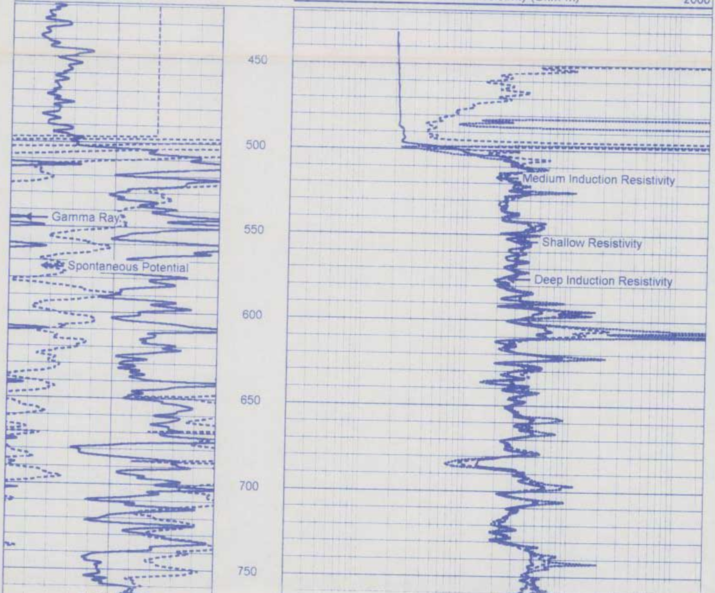
FLORIDA
GEOPHYSICAL LOGGING, INC.

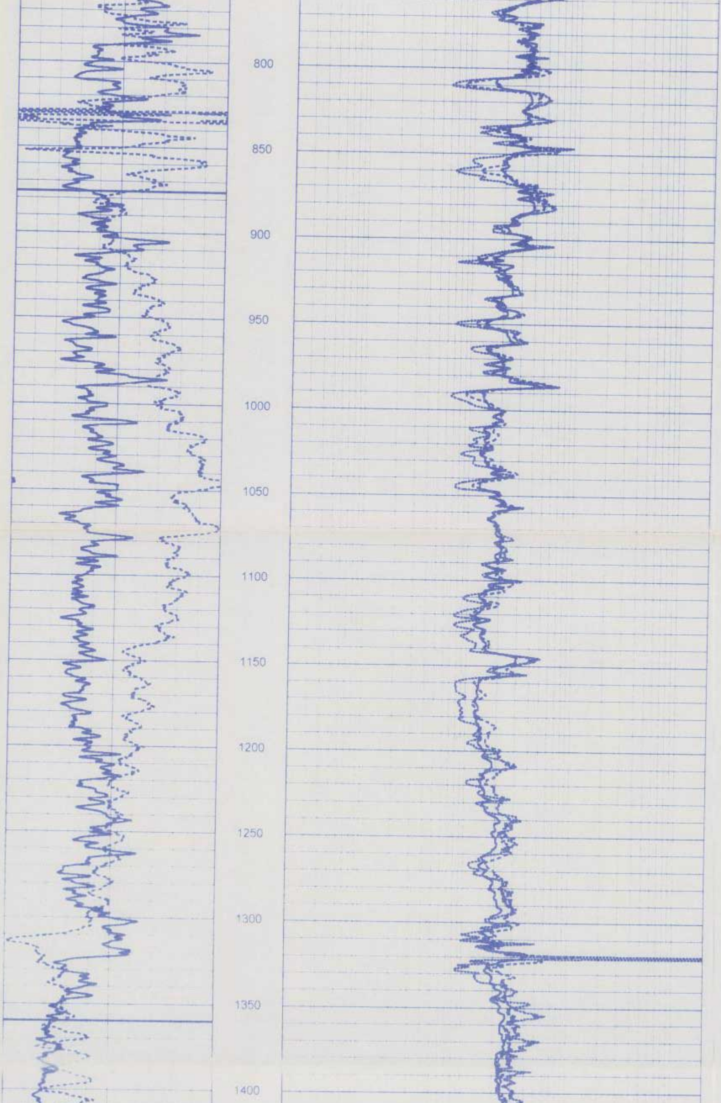
MAIN PASS

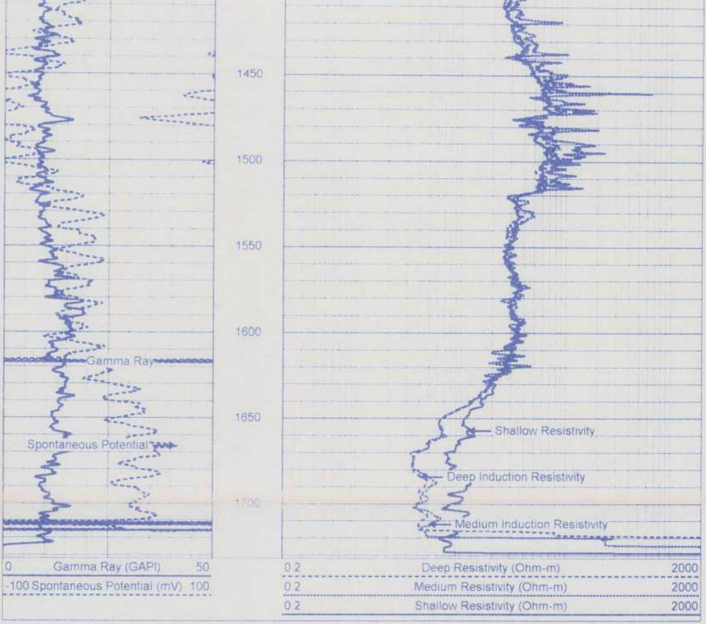
Database File:	puntaiw1.db
Dataset Pathname:	run3/pass7.2
Presentation Format:	dil.prs
Dataset Creation:	Mon Aug 28 09:45:52 2000
Charted by:	Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 50
-100 Spontaneous Potential (mV) 100

0.2 Deep Resistivity (Ohm-m) 2000
0.2 Medium Resistivity (Ohm-m) 2000
0.2 Shallow Resistivity (Ohm-m) 2000



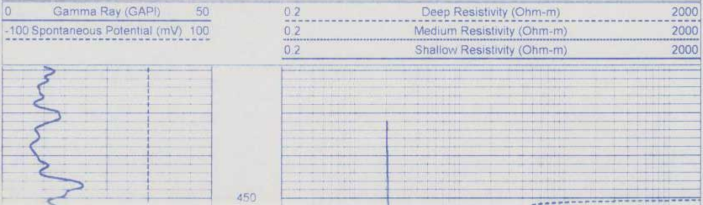


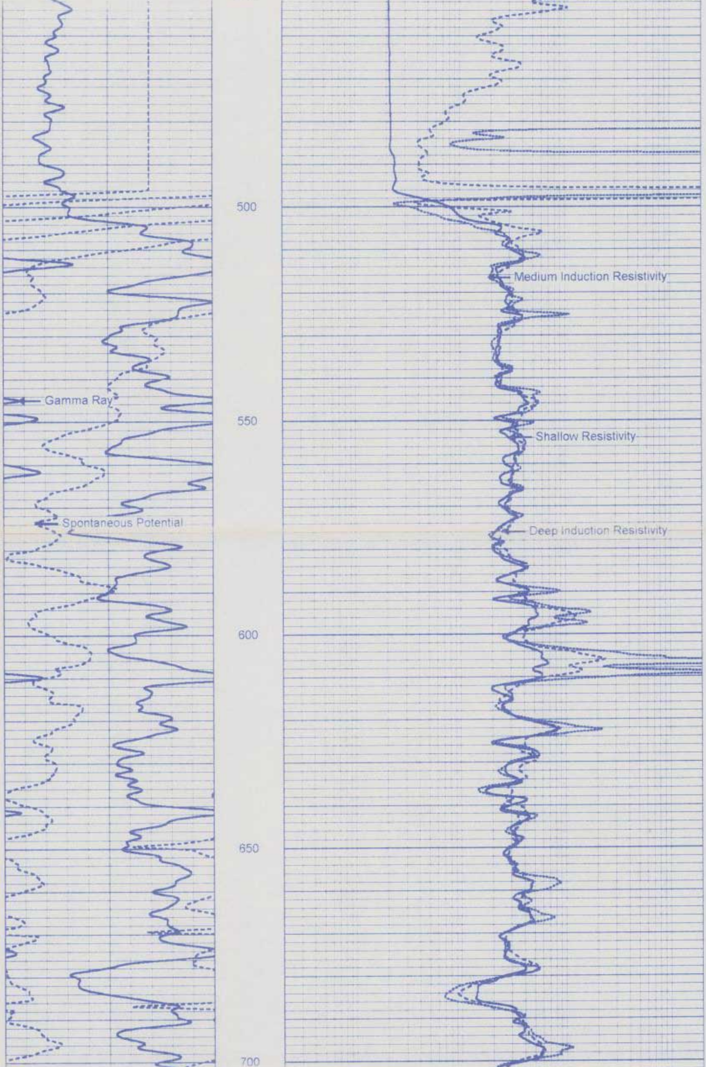


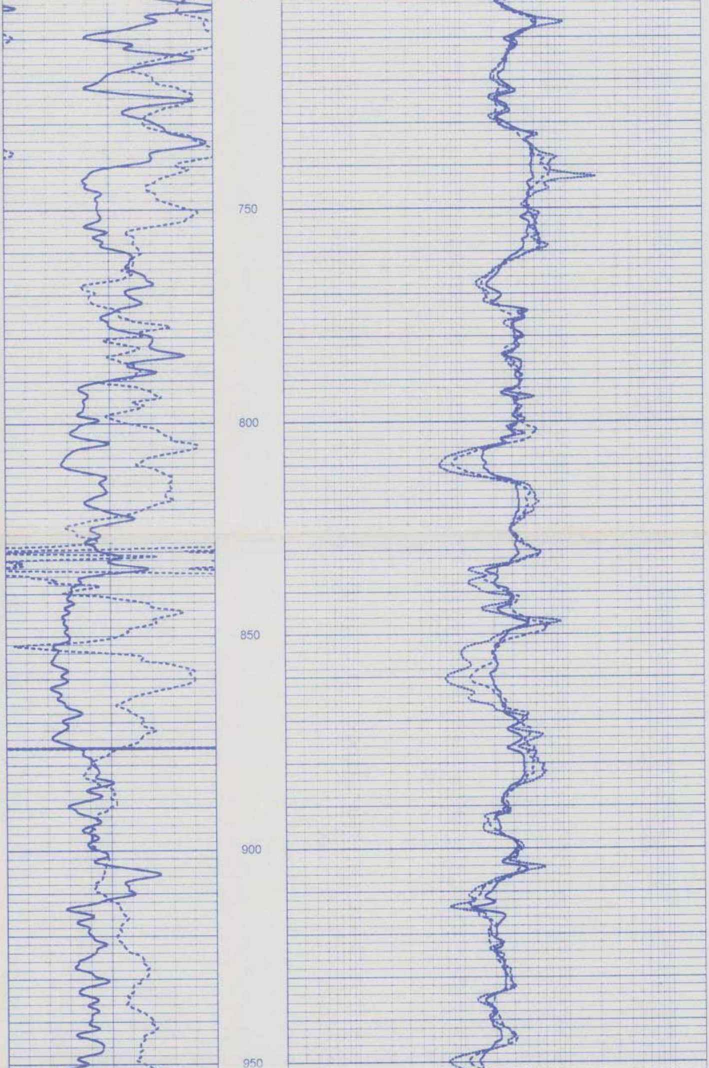
FLORIDA
GEOPHYSICAL LOGGING, INC.

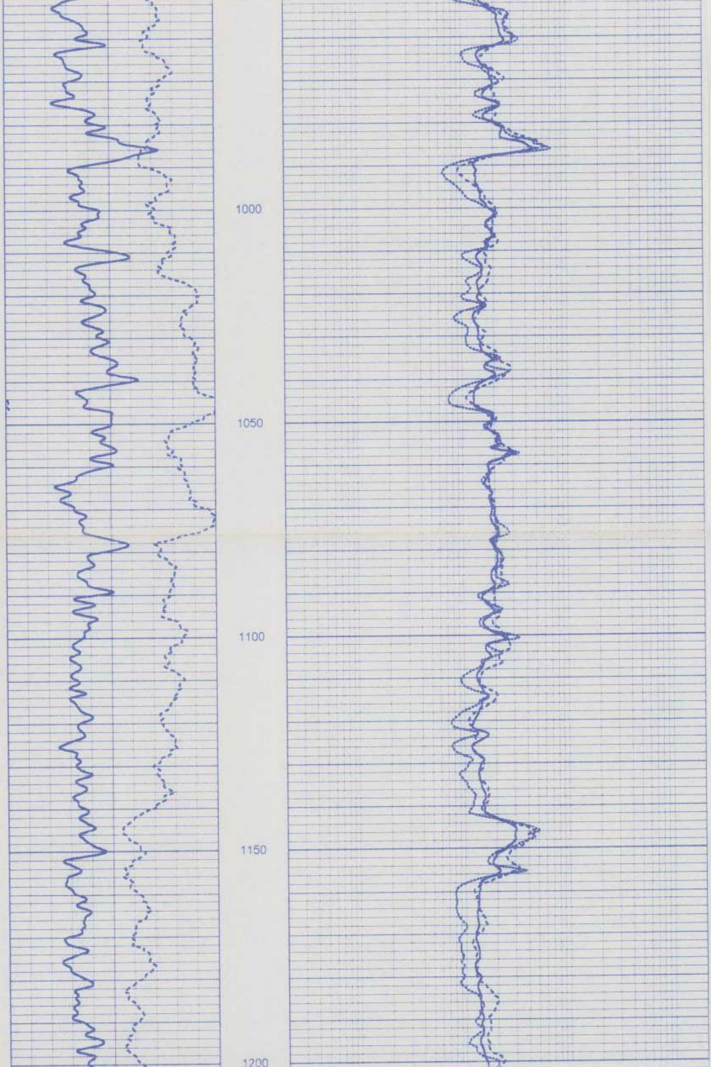
MAIN PASS

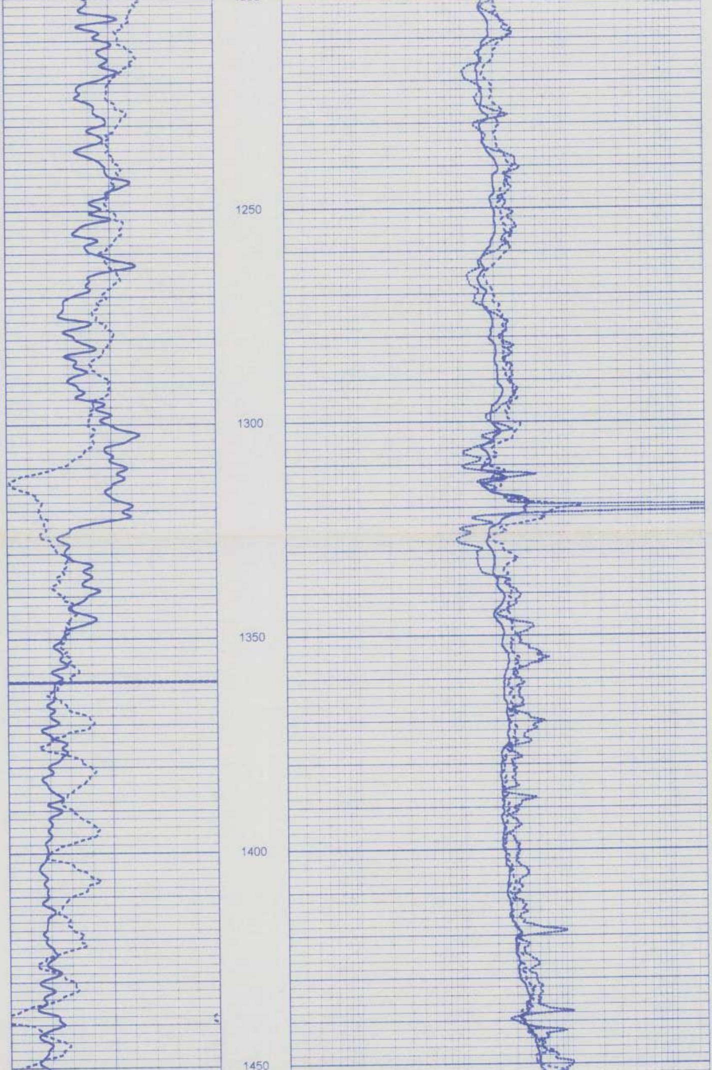
Database File: puntaiw1.db
Dataset Pathname: run3/pass7.2
Presentation Format: dil.prs
Dataset Creation: Mon Aug 28 09:45:52 2000
Charted by: Depth in Feet scaled 1:240

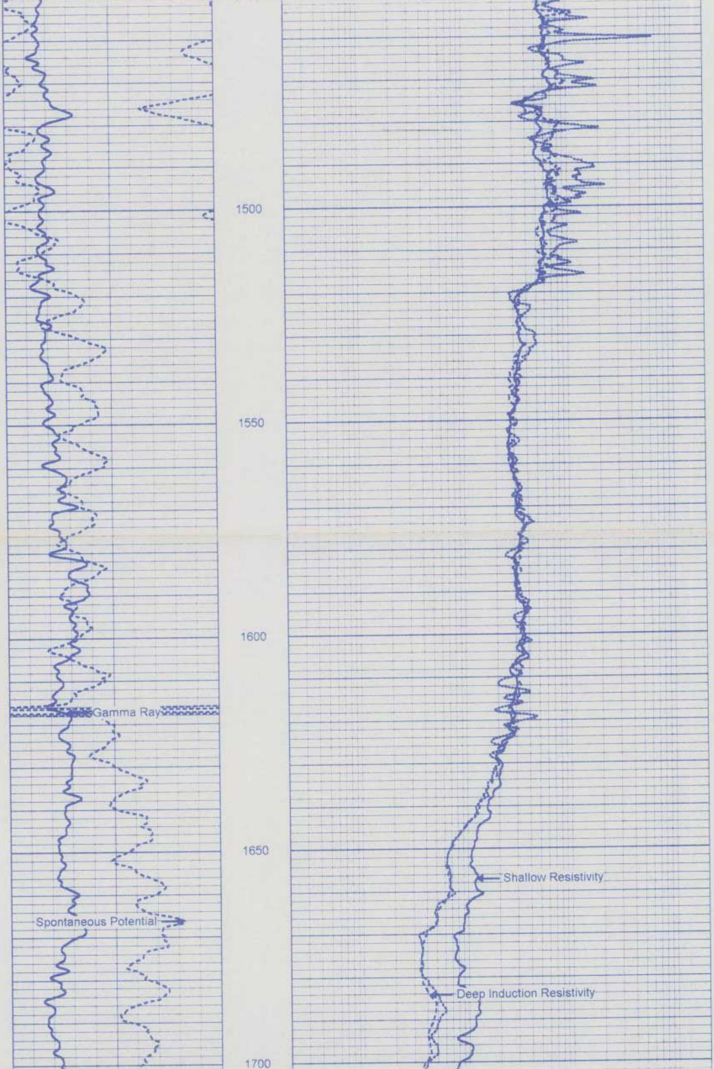


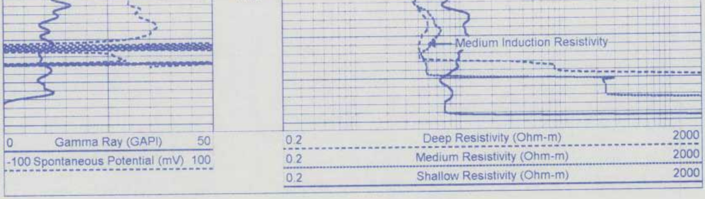








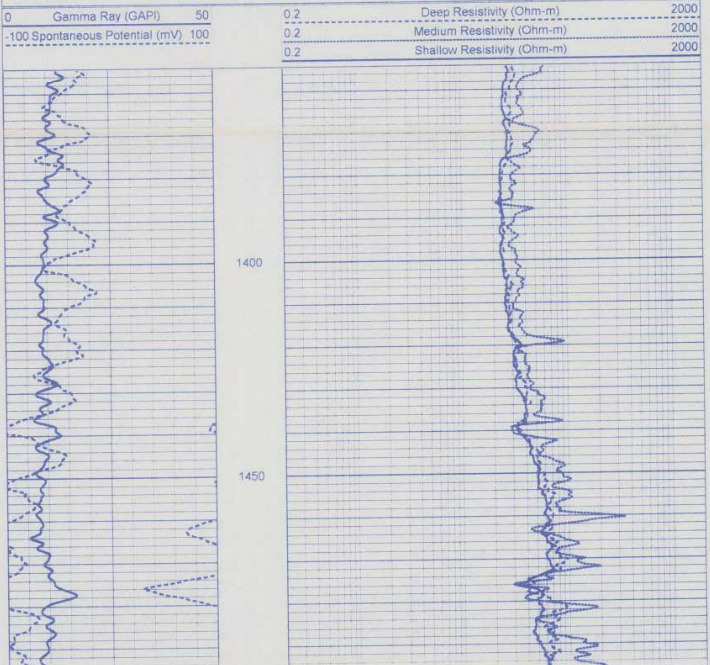


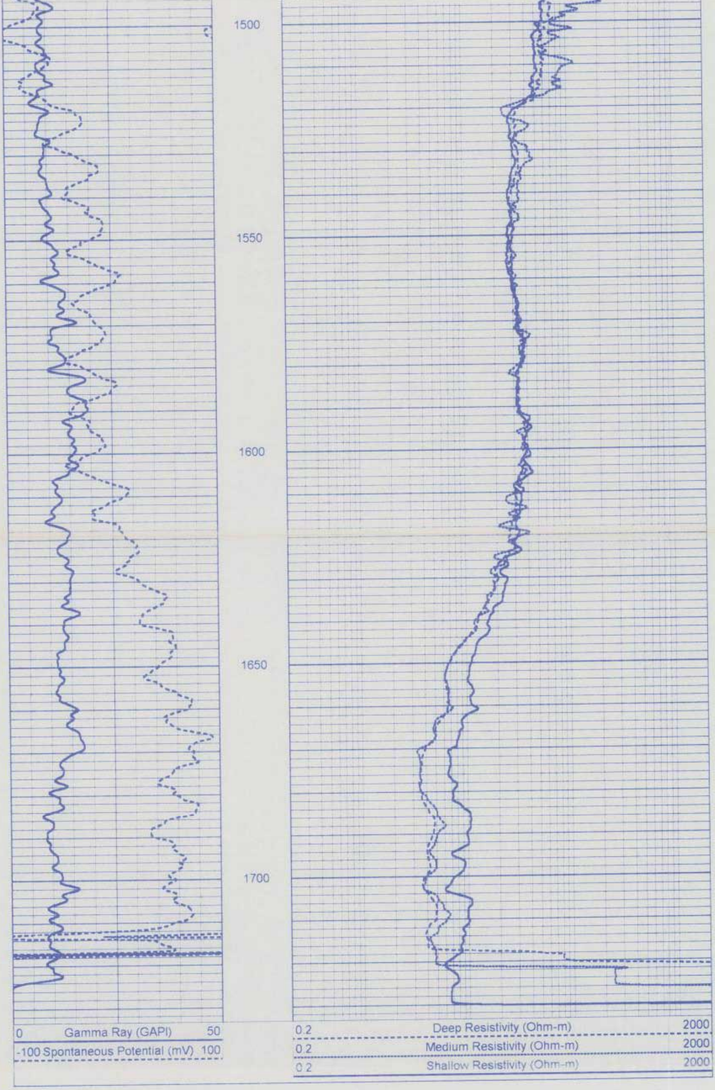


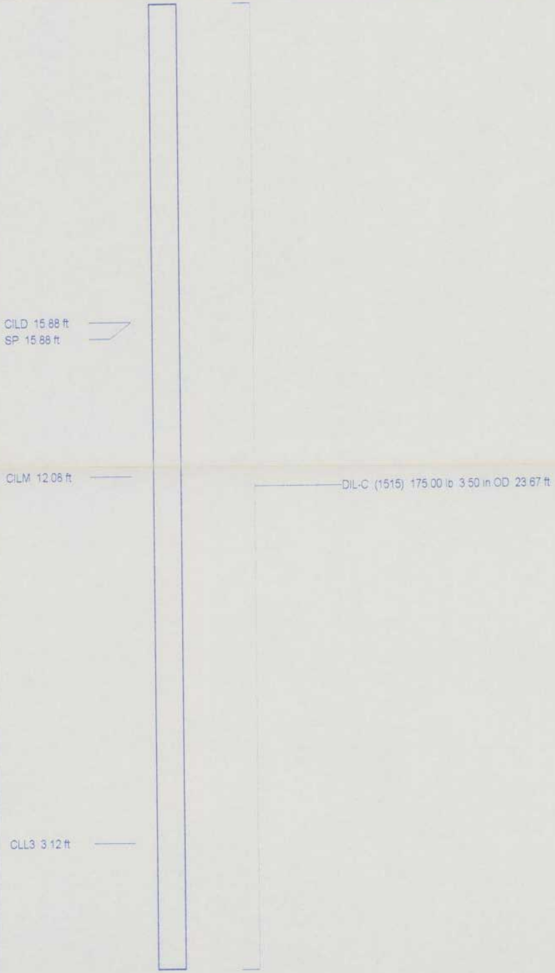
FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

Database File: puntaiw1.db
Dataset Pathname: run3/pass6.1
Presentation Format: dil.prs
Dataset Creation: Mon Aug 28 09:20:33 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:240







Dataset	run3/pass7
Total Length	23.67 ft
Total Weight	175.00 lb
O.D.	3.50 in

Dual Induction Calibration Report

Serial-Model:	1515-C
Surface Cal Performed:	Thu Apr 29 11:37:18 1999
Downhole Cal Performed:	Sat Aug 26 12:39:46 2000
After Survey Verification Performed:	Sat Aug 26 13:30:31 2000

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.015	0.619	V	0.000	400.000	mmho-m	631.155	9.361
Medium	-0.002	0.702	V	0.000	464.000	mmho-m	659.362	1.066
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.641	V	17.610	410.860	mmho-m	625.371	9.755
Medium	0.009	0.727	V	6.460	481.190	mmho-m	660.842	0.708

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	19.635	435.660	mmho-m	17.289	414.176	mmho-m	0.954	-1.443
Medium	9.260	506.526	mmho-m	6.805	480.472	mmho-m	0.953	-2.015
Shallow	0.031	0.423		5.400	182.730	mmho-m	452.501	-8.500

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	19.026	435.795	mmho-m	19.635	435.660	mmho-m	0.954	-1.443
Medium	8.769	506.897	mmho-m	9.260	506.526	mmho-m	0.953	-2.015
Shallow	5.563	182.550	mmho-m	5.400	182.730	mmho-m	1.002	-0.174

FLORIDA
GEOPHYSICAL LOGGING, INC.

X-Y CALIPER
GAMMA RAY
LOG

Company WATER RESOURCE SLTNS.
Well IW-1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company WATER RESOURCE SOLUTIONS INC.
Well IW-1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE State/Prv FL
Location

NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE
COMMENTS

Permanent Datum	PAD	Elevation 24'	Elevation K.B. 27' D.F. 27' G.L. 24'
Log Measured From	PAD		
Drilling Measured From	PAD		

Date	8/26/00		
Run Number	THREE		
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Depth Logger	1729'		
Bottom Logged Interval	1729'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	NA		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1100		
Equipment Number	103		
Location	FT MYERS		
Recorded By	DENISON		
Witnessed By	M. PEARCE		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String				
Liner				

<<< Fold Here >>>

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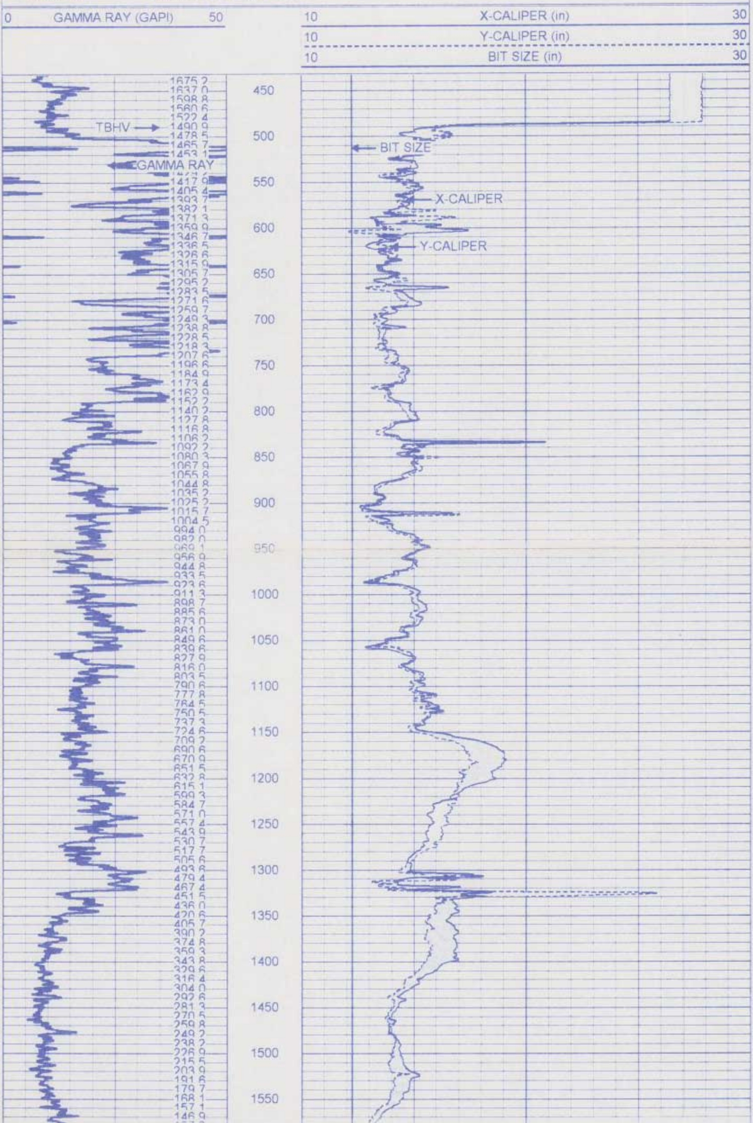
Comments

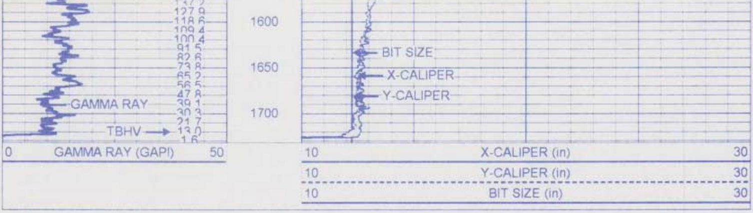
TEMPERATURE
DUAL INDUCTION/LL3/SP
BOREHOLE COMPENSATED SONIC

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run3/pass3
Presentation Format: grxyc.prs
Dataset Creation: Sat Aug 26 11:15:20 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:1200

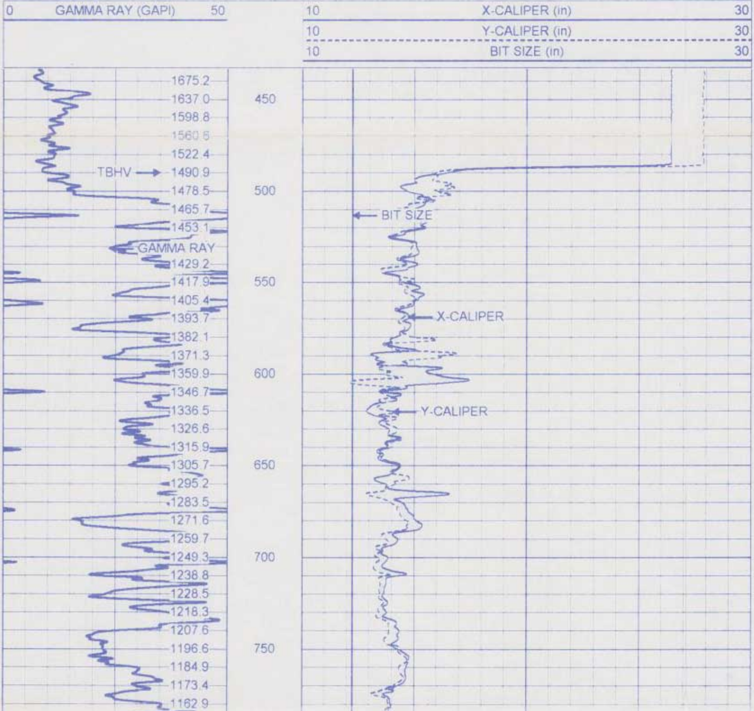


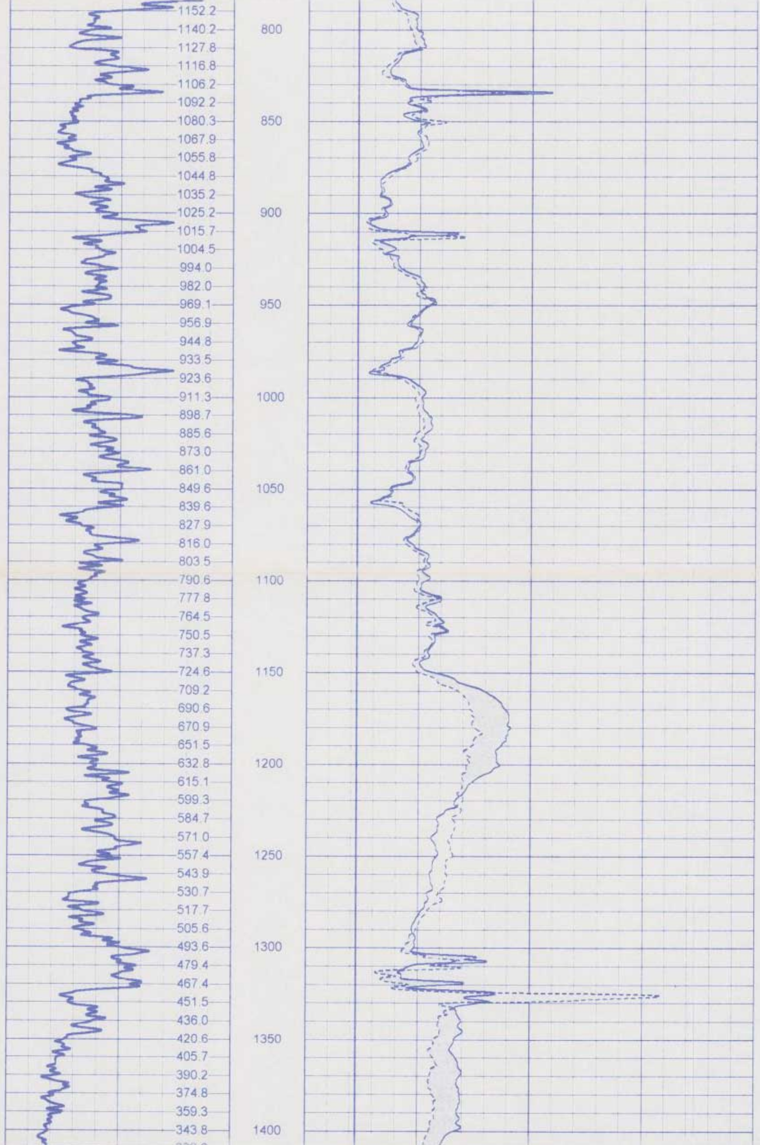


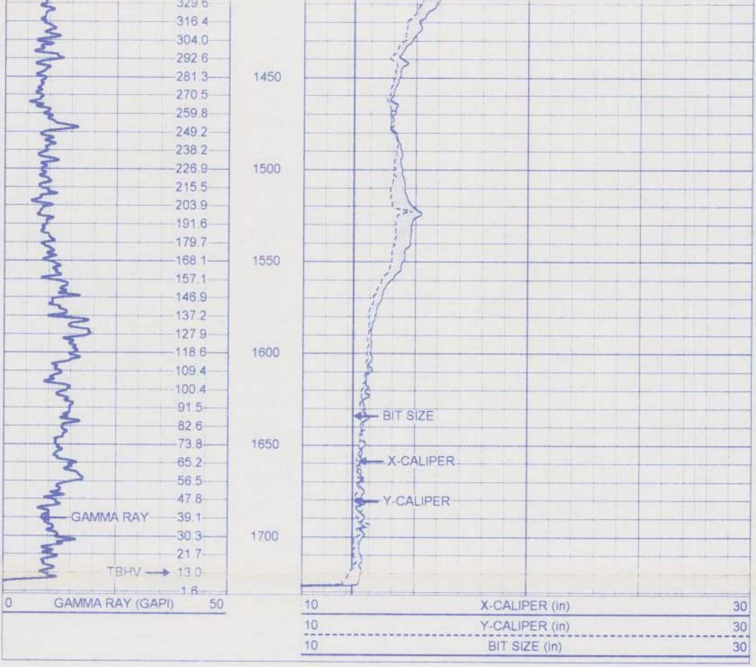
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run3/pass3
Presentation Format:	grxyc.prs
Dataset Creation:	Sat Aug 26 11:15:20 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:600



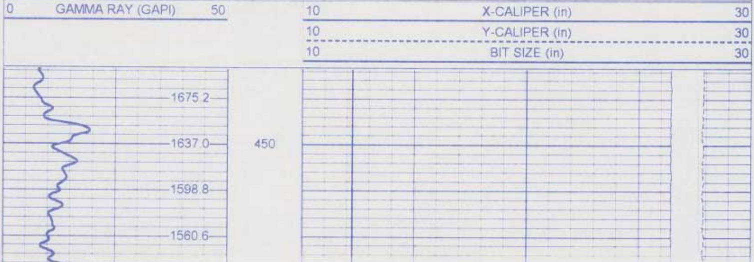


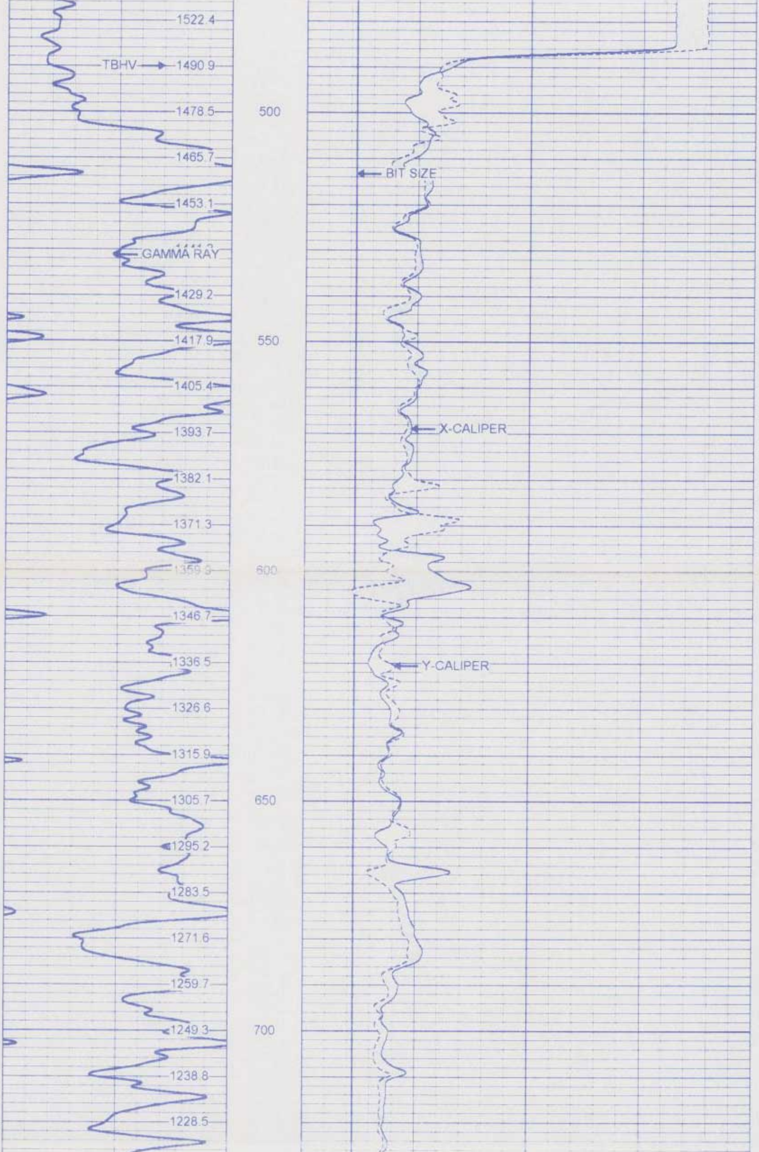


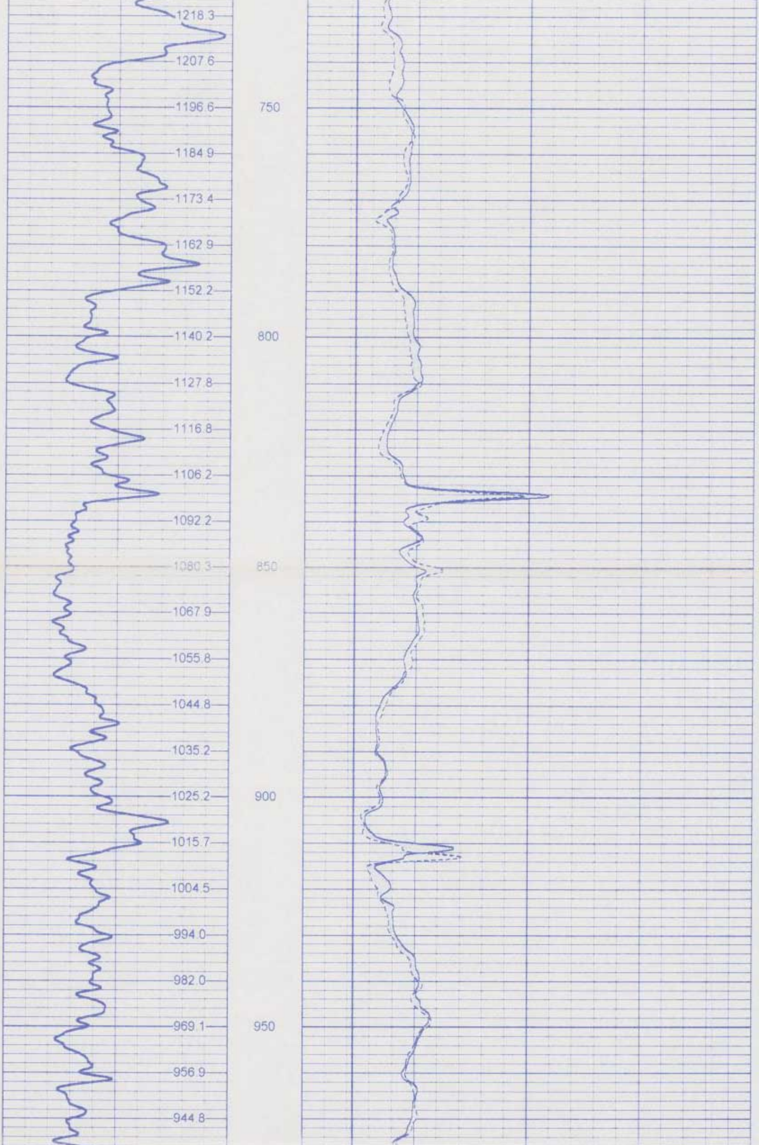
FLORIDA
GEOPHYSICAL LOGGING, INC.

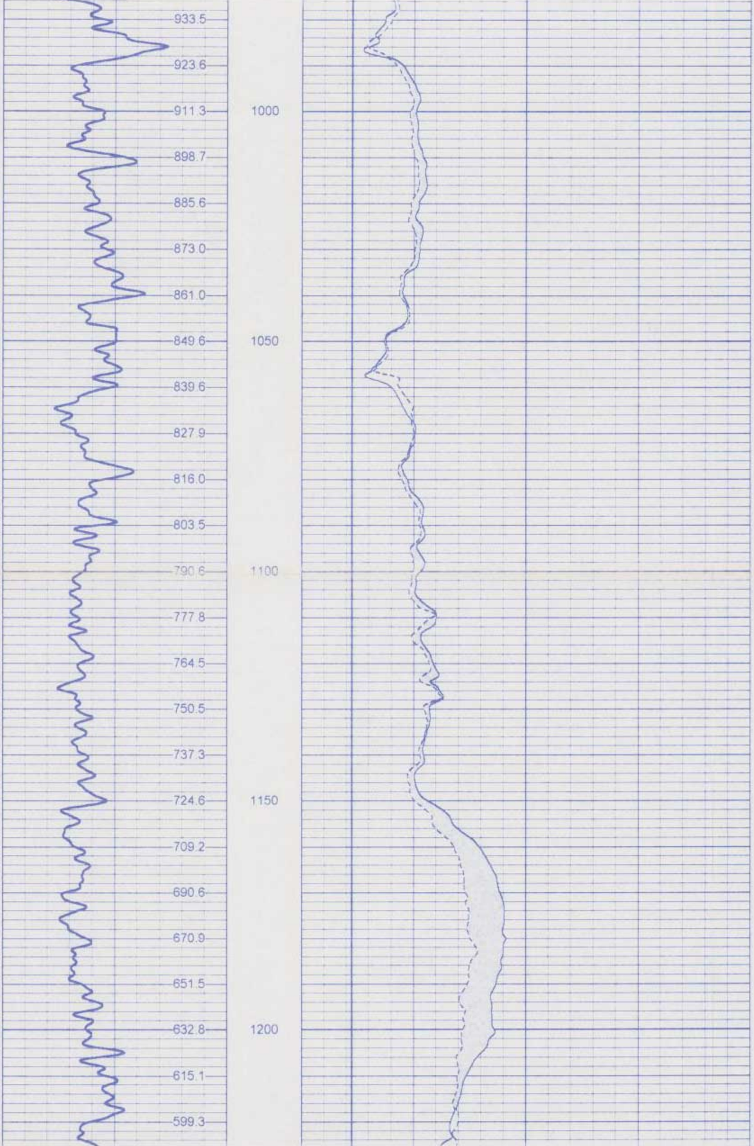
MAIN PASS

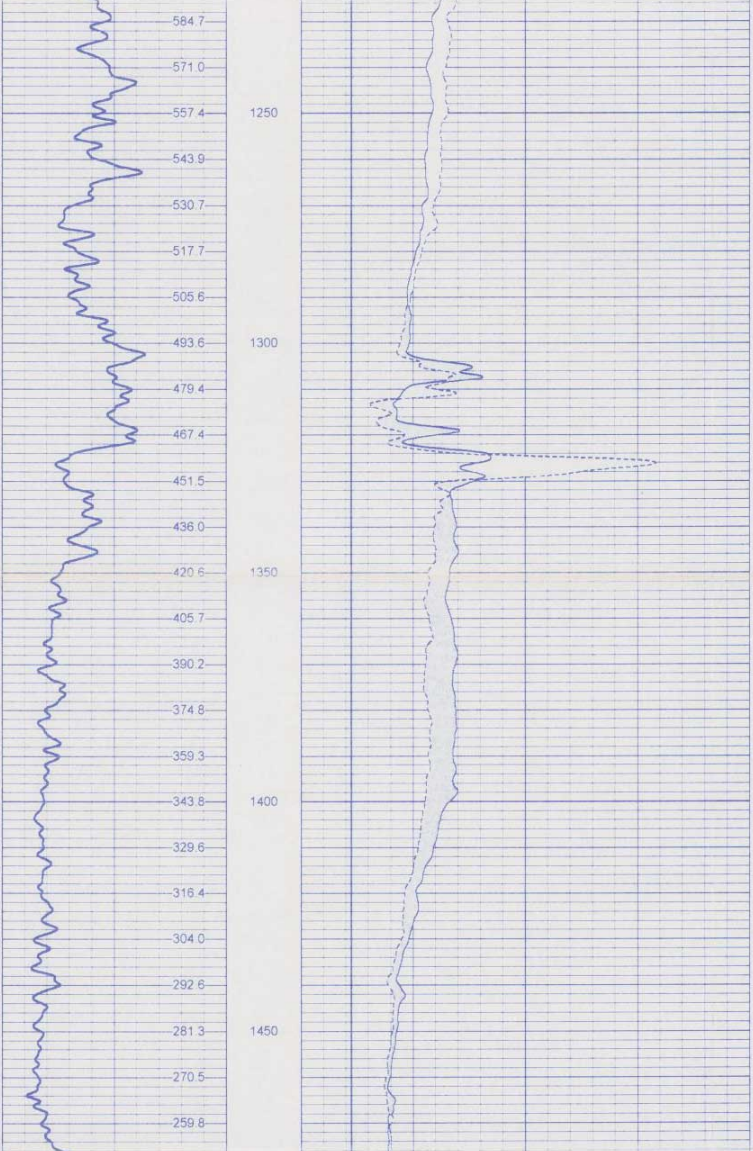
Database File: puntaiw1.db
Dataset Pathname: run3/pass3
Presentation Format: grxyc.prs
Dataset Creation: Sat Aug 26 11:15:20 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:240

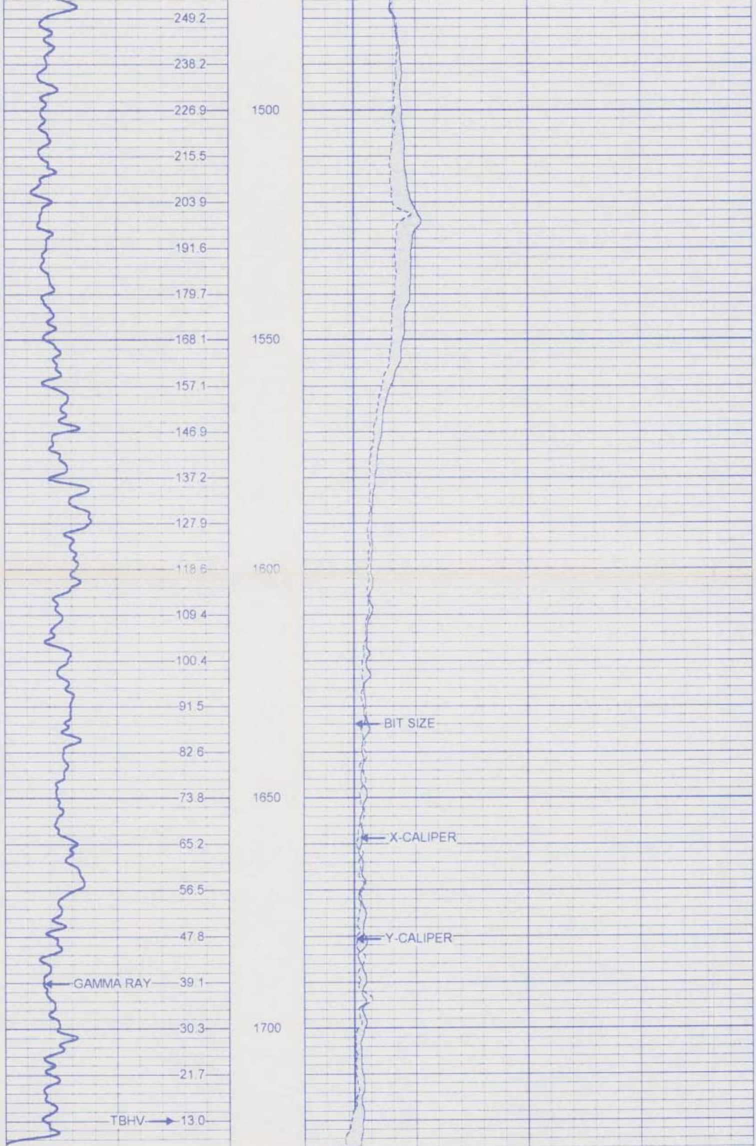


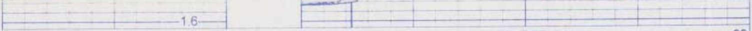












0 GAMMA RAY (GAPI) 50

10 X-CALIPER (in) 30

10 Y-CALIPER (in) 30

10 BIT SIZE (in) 30

FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

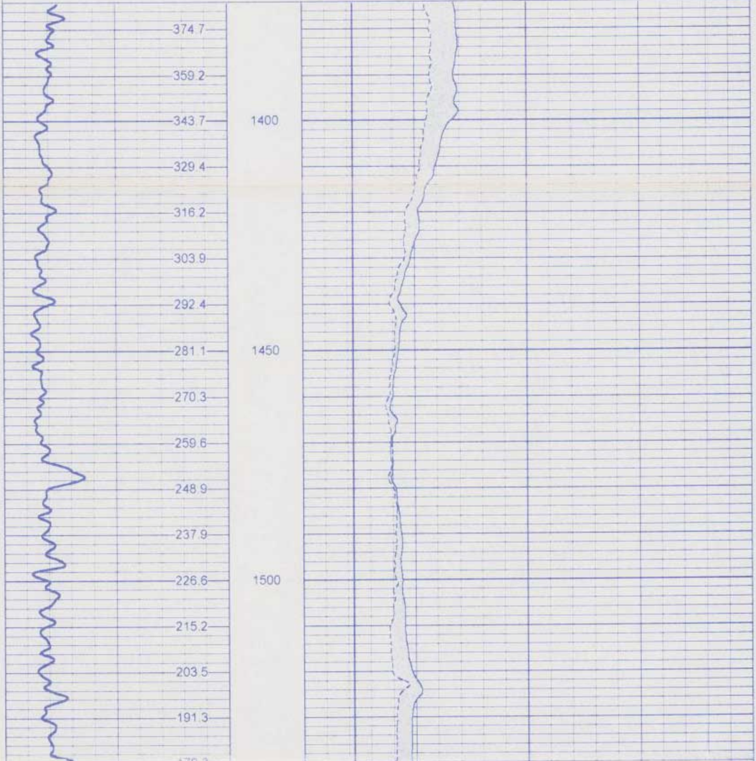
Database File: puntaiw1.db
Dataset Pathname: run3/pass2
Presentation Format: grxyc.prs
Dataset Creation: Sat Aug 26 10:55:00 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:240

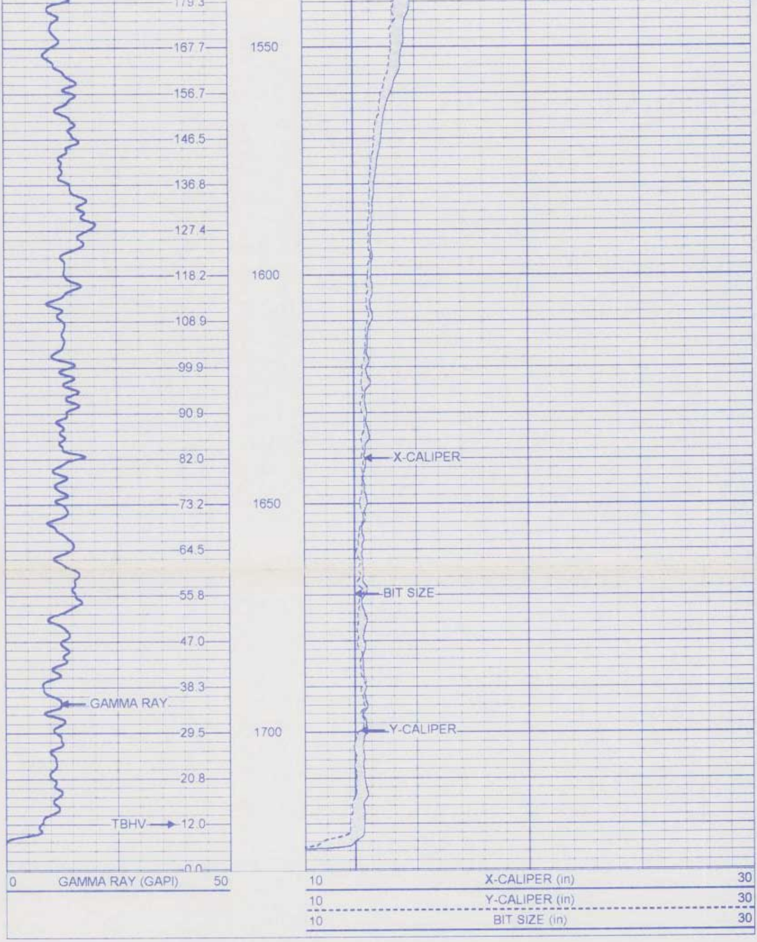
0 GAMMA RAY (GAPI) 50

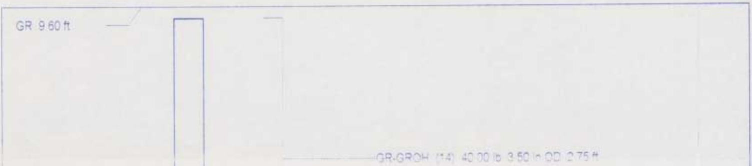
10 X-CALIPER (in) 30

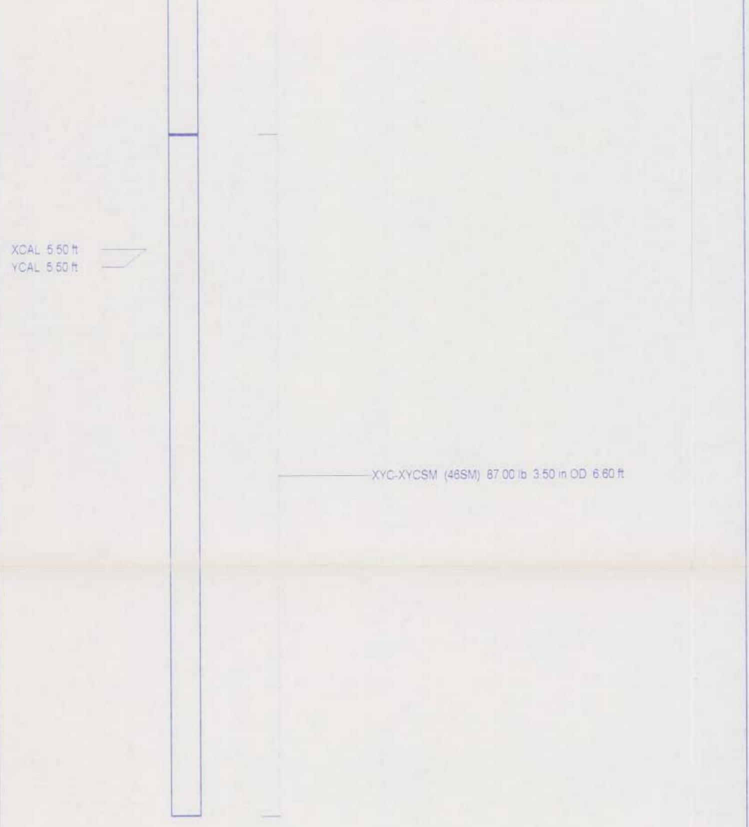
10 Y-CALIPER (in) 30

10 BIT SIZE (in) 30









Dataset	run3/pass3
Total Length	9.35 ft
Total Weight	127.00 lb
O.D.	3.50 in

XY Caliper Calibration Report

Serial Number/Model: 46SM-XYCSM
Performed: Sat Aug 26 10:06:28 2000

Ring			X Caliper		Y Caliper	
1:	5.81	in	594.194	cps	564.565	cps
2:	13.4	in	745.946	cps	719.119	cps
3:	28	in	1104.1	cps	1078.88	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Wed Dec 29 15:00:48 1999	
Calibrator Value:	120	GAPI
Background Reading:	36.9814	cps
Calibrator Reading:	197.421	cps
Sensitivity:	0.747947	GAPI/cps

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

FLORIDA
GEOPHYSICAL LOGGING, INC.

BOREHOLE COMPENSATED SONIC W/ VDL LOG

Company WATER RESOURCE SOLUTIONS INC.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE State/Prv FLORIDA

Location
NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation	
Log Measured From	PAD			K.B.	27'
Drilling Measured From	PAD			D.F.	27'
				G.L.	24'

Date	11/8/00		
Run Number	TWELVE		
Depth Driller	2850'		
Depth Logger	2850'		
Bottom Logged Interval	2850'		
Top Log Interval	CASING		
Open Hole Size	18.5"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	97 DEG F		
Estimated Cement Top	NA		
Time Well Ready	1700		
Time Logger on Bottom	2300		
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	46.5"	SURFACE	507'				
THREE	36.5"	CASING	1716'				
FIVE	28.5"	CASING	2505'				
SEVEN	18.5"	CASING	2850'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String	30"	375	SURFACE	1710'
Liner	20"	500	SURFACE	2500'

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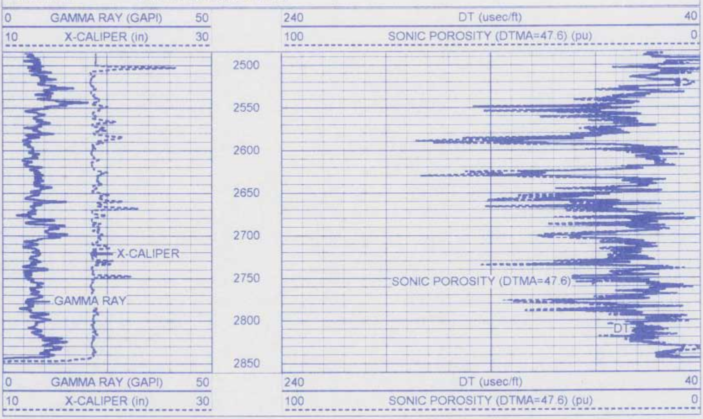
Comments

TEMPERATURE
X-Y CALIPER/GAMMA RAY
DUAL INDUCTION/LL3/SP
CEMENT BOND LOG

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

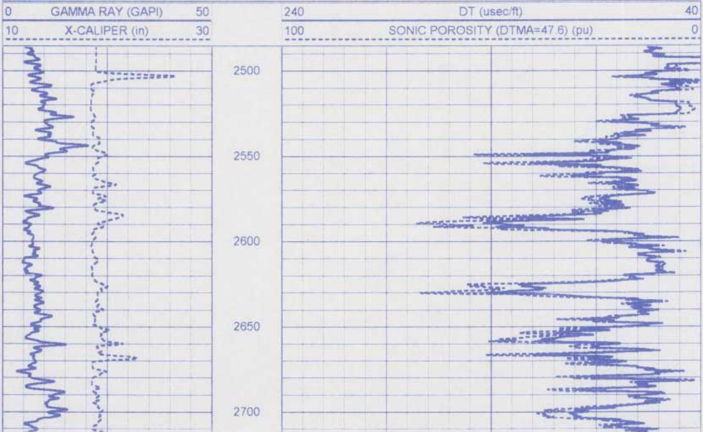
Database File:	puntaiw1.db
Dataset Pathname:	run12/pass10
Presentation Format:	son_por.prs
Dataset Creation:	Wed Nov 08 23:32:21 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:1200

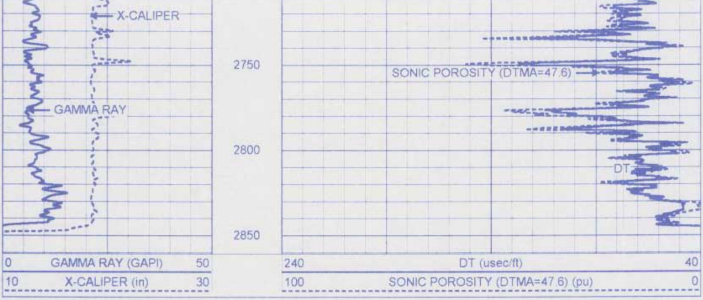


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass10
Presentation Format:	son_por.prs
Dataset Creation:	Wed Nov 08 23:32:21 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:600

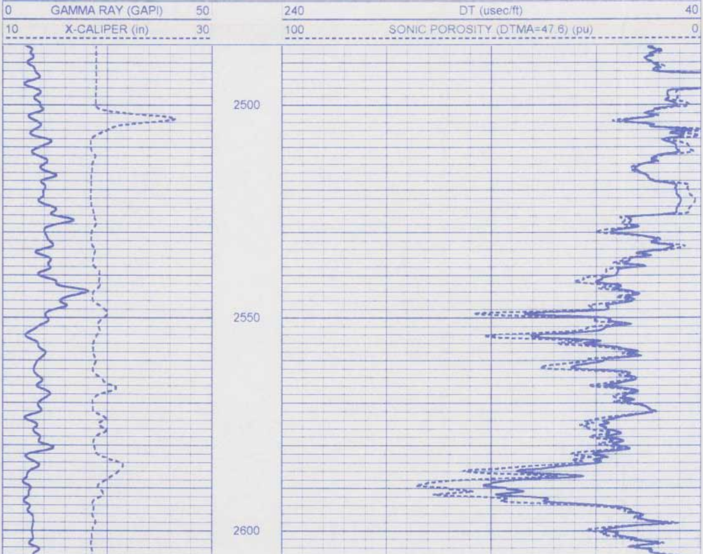


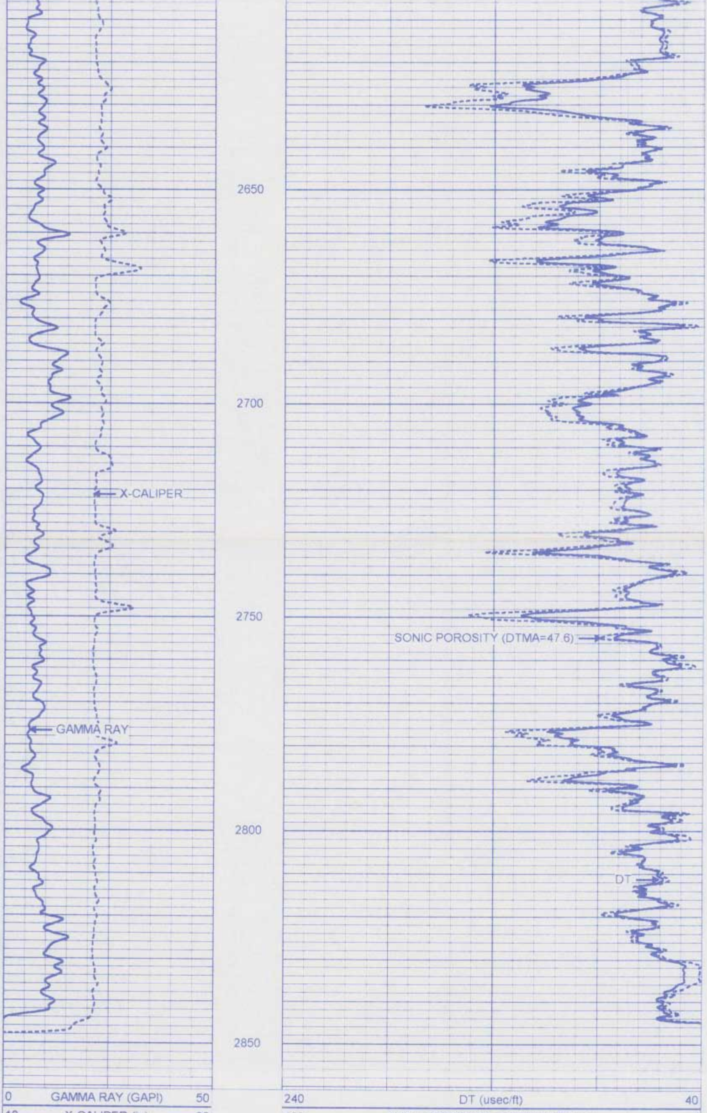


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass10
Presentation Format:	son_por.prs
Dataset Creation:	Wed Nov 08 23:32:21 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240

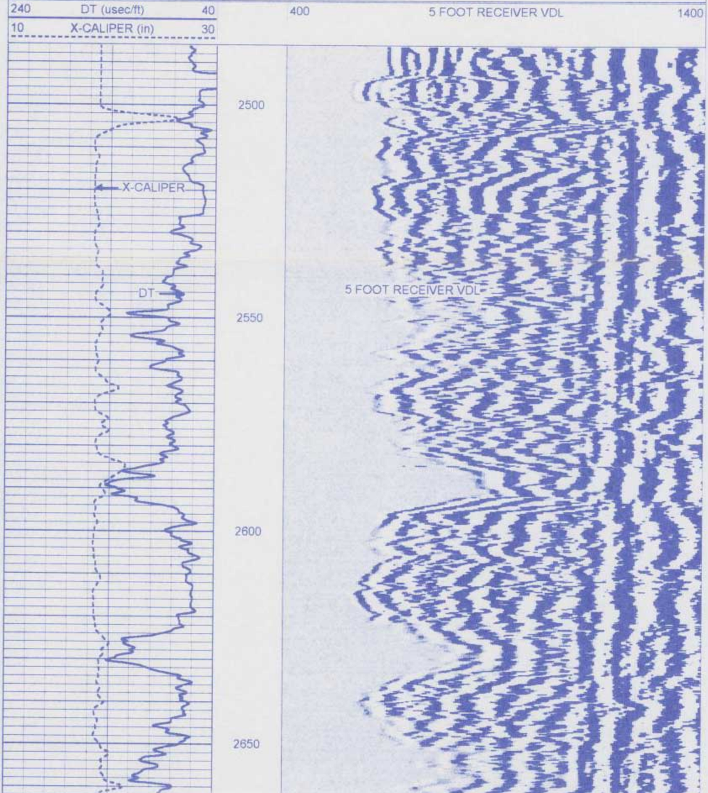


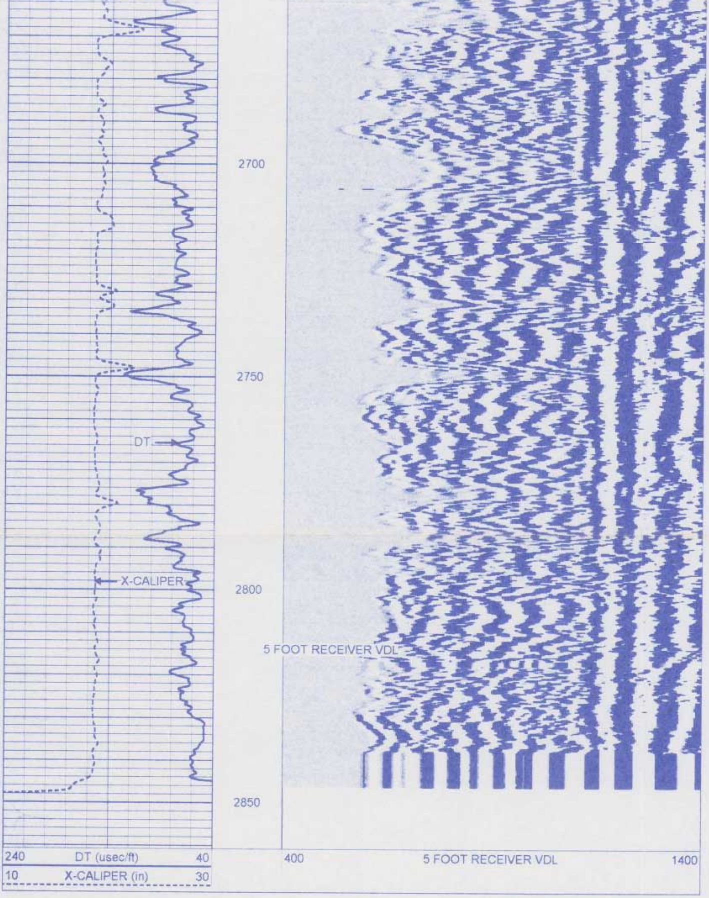


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass10
Presentation Format:	son_vdl.prs
Dataset Creation:	Wed Nov 08 23:32:21 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240



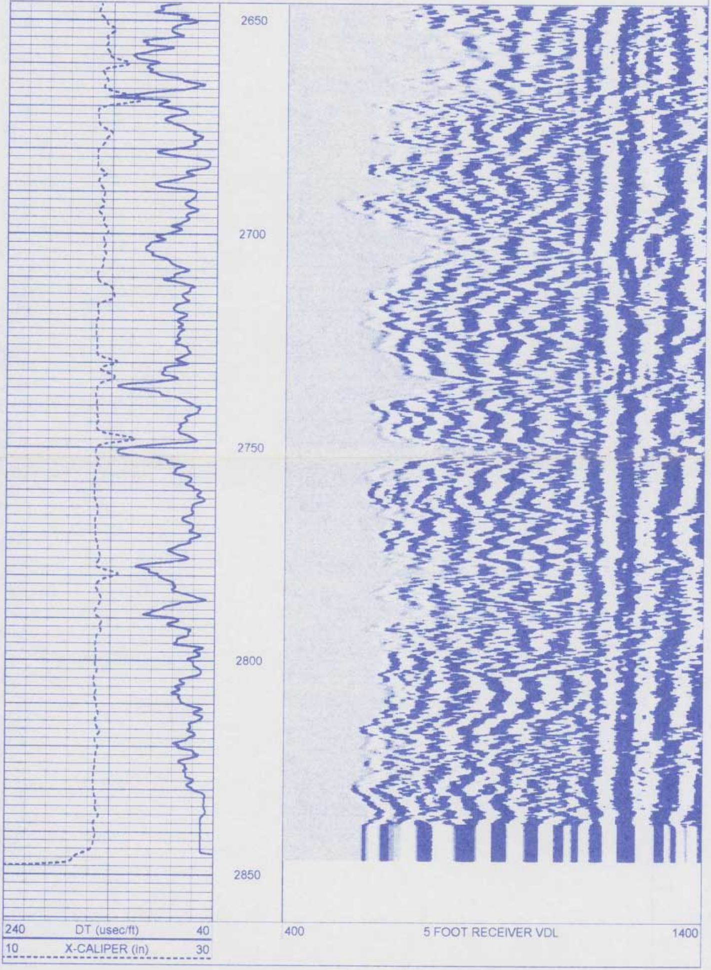


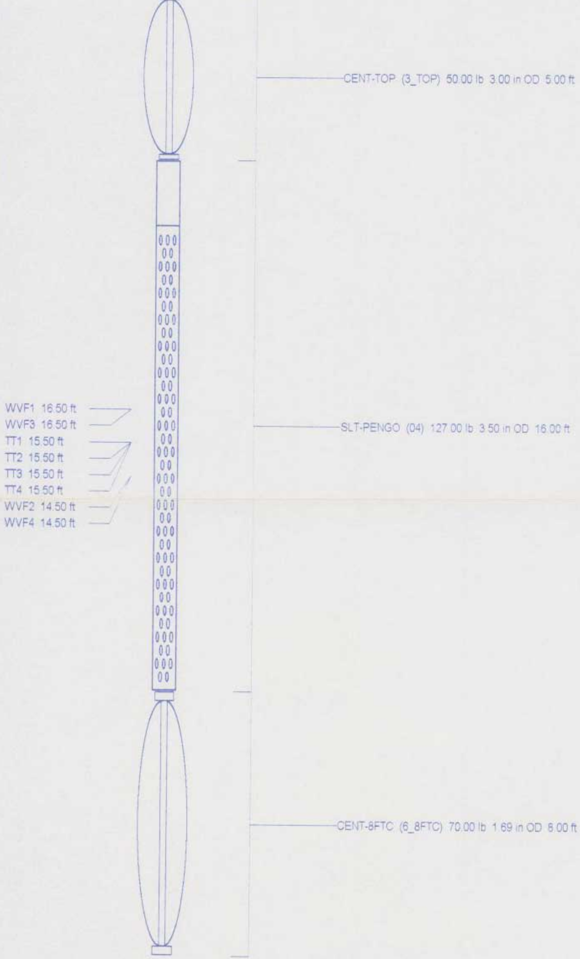
FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass9
Presentation Format:	son_vdl.prs
Dataset Creation:	Wed Nov 08 23:18:00 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240

240 DT (usec/ft) 40
10 X-CALIPER (in) 30
400 5 FOOT RECEIVER VDL 1400




CENT-TOP (3_TOP) 50.00 lb 3.00 in OD 5.00 ft
WVF1 16.50 ft
WVF3 16.50 ft
TT1 15.50 ft
TT2 15.50 ft
TT3 15.50 ft
TT4 15.50 ft
WVF2 14.50 ft
WVF4 14.50 ft
SLT-PENGO (04) 127.00 lb 3.50 in OD 16.00 ft
CENT-8FTC (6_8FTC) 70.00 lb 1.69 in OD 8.00 ft

Dataset:	run12/pass10
Total Length:	29.00 ft
Total Weight:	247.00 lb
O.D.	3.50 in

FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE LOG

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company **WATER RESOURCE SOLUTIONS INC.**
Well **IW - 1**
Field **PUNTA GORDA W.W.T.P.**
Country **CHARLOTTE** State/Prv **FLORIDA**

Location
NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation
Log Measured From	PAD			K.B. 27'
Drilling Measured From	PAD			D.F. 27' G.L. 24'

Date	11/8/00		
Run Number	TWELVE		
Depth Driller	2850'		
Depth Logger	2850'		
Bottom Logged Interval	2850'		
Top Log Interval	CASING		
Open Hole Size	18.5"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	97 DEG F		
Estimated Cement Top	NA		
Time Well Ready	1700		
Time Logger on Bottom	1800		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON		
Witnessed By	F. PROCTA		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
THREE	36.5"	CASING	1716'				
FIVE	28.5"	CASING	2505'				
SEVEN	18.5"	CASING	2850'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	.375	SURFACE	42'
Prot. String	38"	.375	SURFACE	500'
Production String	30"	.375	SURFACE	1710'
Liner	20"	.500	SURFACE	2500'

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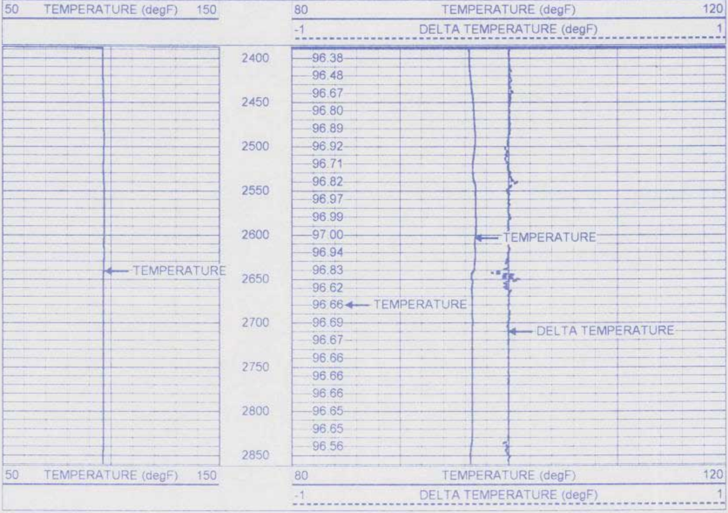
Comments

X-Y CALIPER/GAMMA RAY
DUAL INDUCTION/LL3/SP
BOREHOLE COMPENSATED SONIC
CEMENT BOND LOG

FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE SURVEY

Database File: puntaiw1.db
Dataset Pathname: run12/pass1
Presentation Format: temp.prs
Dataset Creation: Wed Nov 08 18:16:07 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:1200

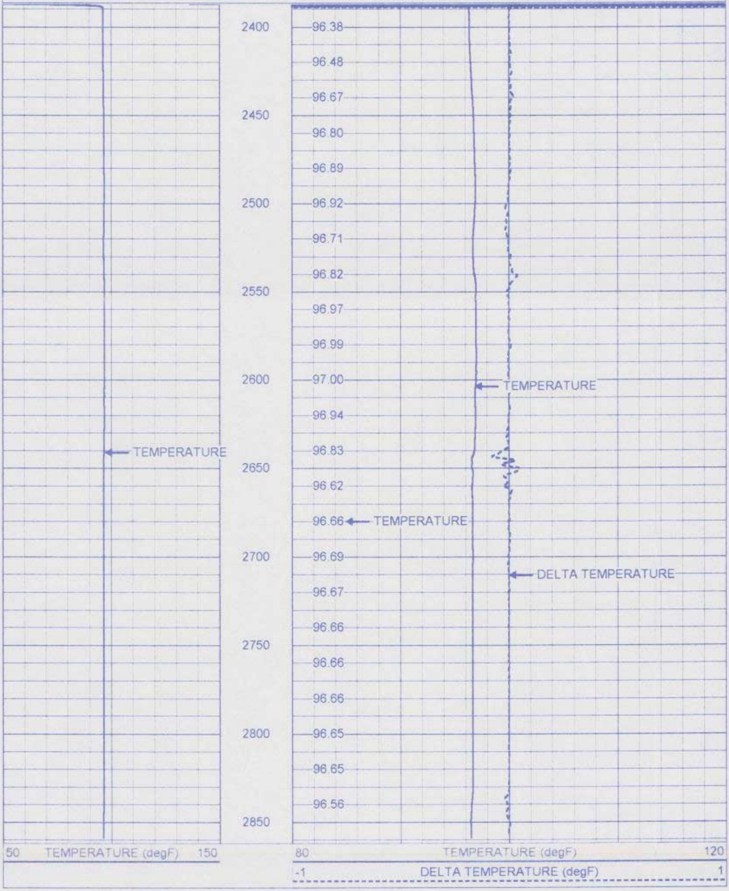


FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE SURVEY

Database File: puntaiw1.db
Dataset Pathname: run12/pass1
Presentation Format: temp.prs
Dataset Creation: Wed Nov 08 18:16:07 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:600

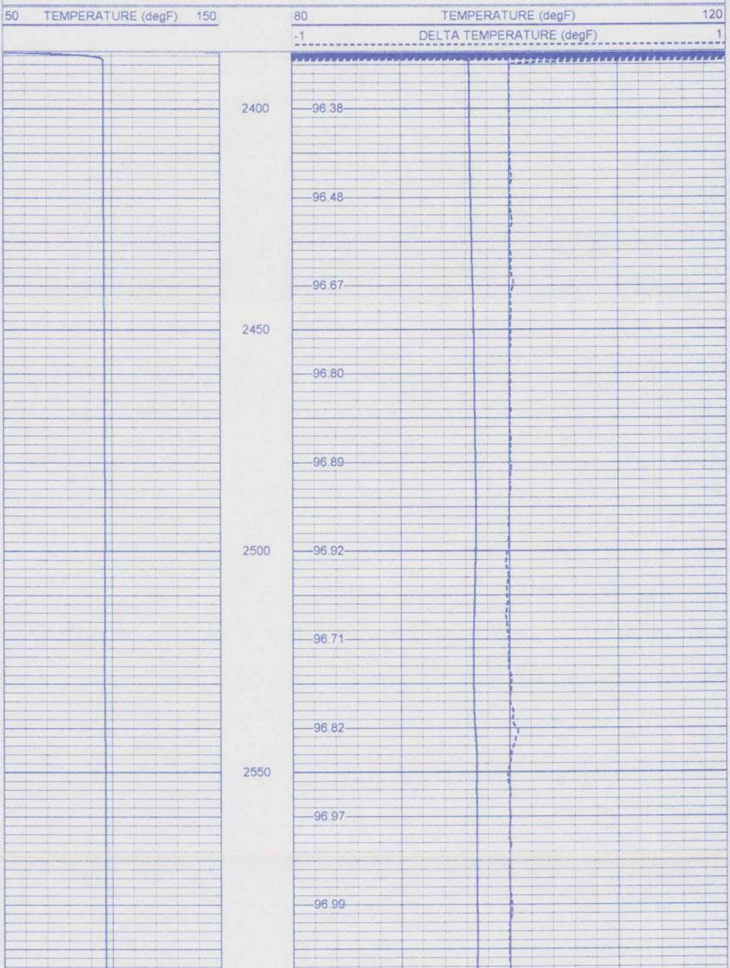
50 TEMPERATURE (degF) 150
80 TEMPERATURE (degF) 120
-1 DELTA TEMPERATURE (degF) 1

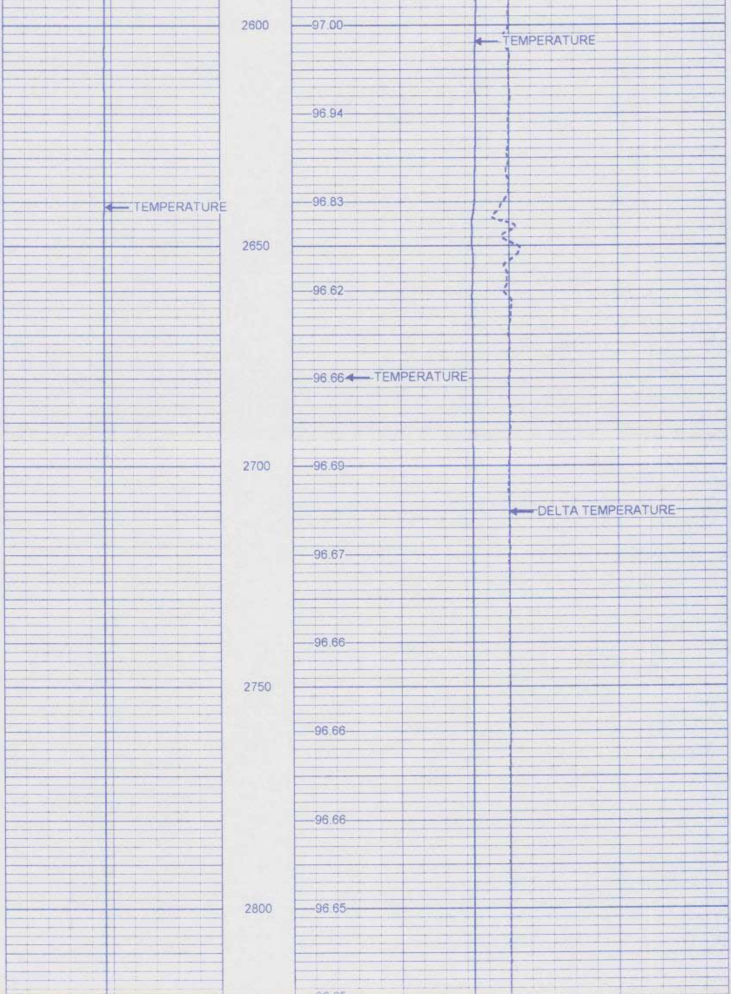


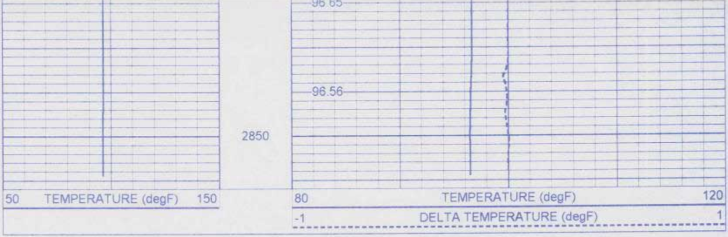
FLORIDA
GEOPHYSICAL LOGGING, INC.

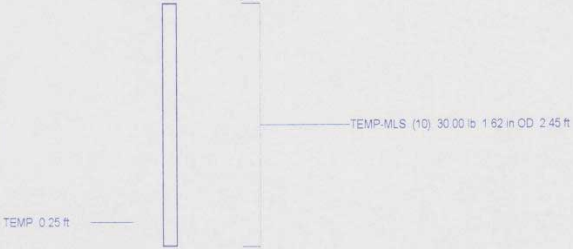
TEMPERATURE SURVEY

Database File: puntaiw1.db
Dataset Pathname: run12/pass1
Presentation Format: temp.prs
Dataset Creation: Wed Nov 08 18:16:07 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:240









Dataset	run12/pass1
Total Length	2.45 ft
Total Weight	30.00 lb
O.D.	1.62 in

Temperature Calibration Report

Serial Number:	10
Tool Model:	MLS
Performed:	Wed Aug 30 10:23:08 2000

Point #	Reading		Reference	
1	297.245	cps	38	degF
2	469.246	cps	76	degF
3	799.209	cps	138	degF

FLORIDA
GEOPHYSICAL LOGGING, INC.

DUAL INDUCTION
LL3/SP
LOG

Company	WATER RESOURCE SLTNS.
Well	IW - 1
Field	PUNTA GORDA W.W.T.P.
Country	CHARLOTTE
State/Prv	FL

Company **WATER RESOURCE SOLUTIONS INC**
Well **IW - 1**
Field **PUNTA GORDA W.W.T.P.**
Country **CHARLOTTE** State/Prv **FLORIDA**

Location
NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE
COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation	K.B. 27'
Log Measured From	PAD				D.F. 27'
Drilling Measured From	PAD				G.L. 24'

Date	11/8/00		
Run Number	TWELVE		
Depth Driller	2850'		
Depth Logger	2850'		
Bottom Logged Interval	2850'		
Top Log Interval	CASING		
Open Hole Size	18.5"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	97 DEG F		
Estimated Cement Top	NA		
Time Well Ready	1700		
Time Logger on Bottom	2100		
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	46.5"	SURFACE	507'				
THREE	36.5"	CASING	1716'				
FIVE	28.5"	CASING	2505'				
SEVEN	18.5"	CASING	2850'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String	30"	375	SURFACE	1710'
Liner	20"	500	SURFACE	2500'

<<< Fold Here >>>

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Comments

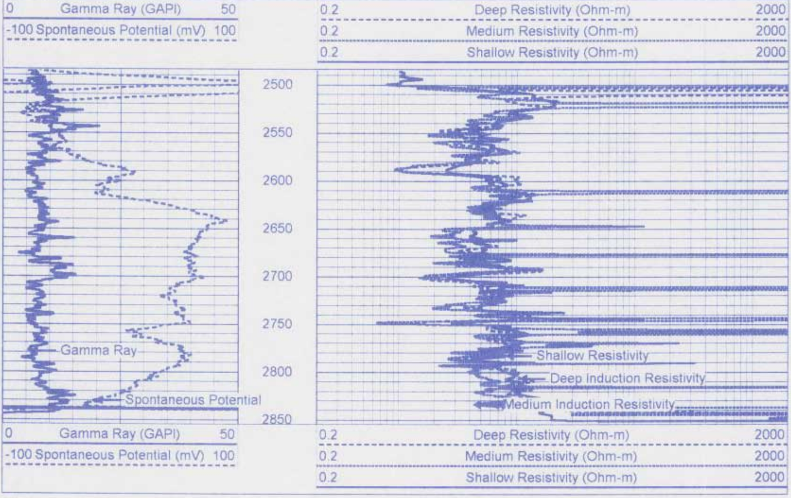
TEMPERATURE
X-Y CALIPER/GAMMA RAY
BOREHOLE COMPENSATED SONIC
CEMENT BOND LOG

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db

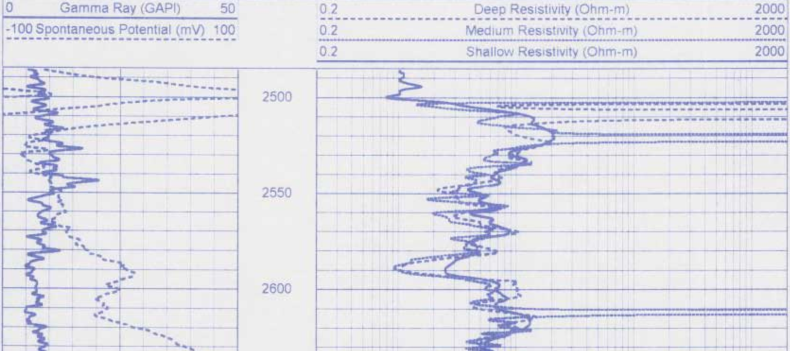
Dataset Pathname: run12/pass7.2
Presentation Format: dil.prs
Dataset Creation: Thu Nov 09 12:46:14 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:1200

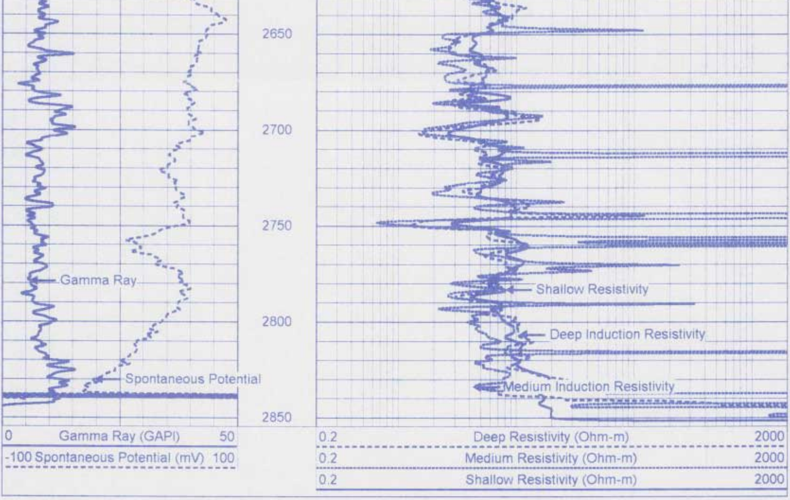


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntalw1.db
Dataset Pathname: run12/pass7.2
Presentation Format: dil.prs
Dataset Creation: Thu Nov 09 12:46:14 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:600

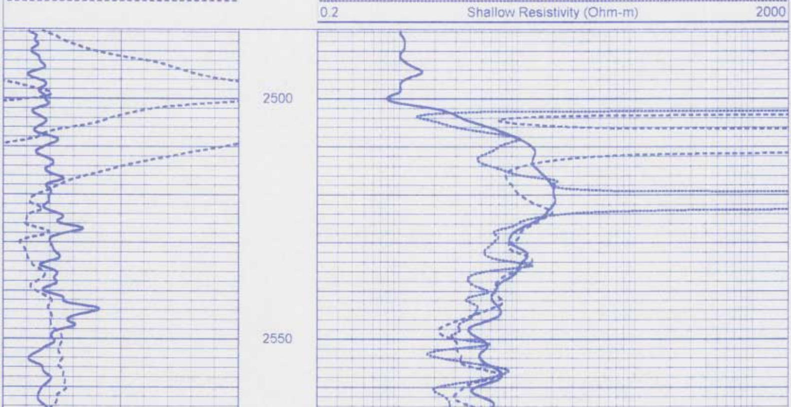


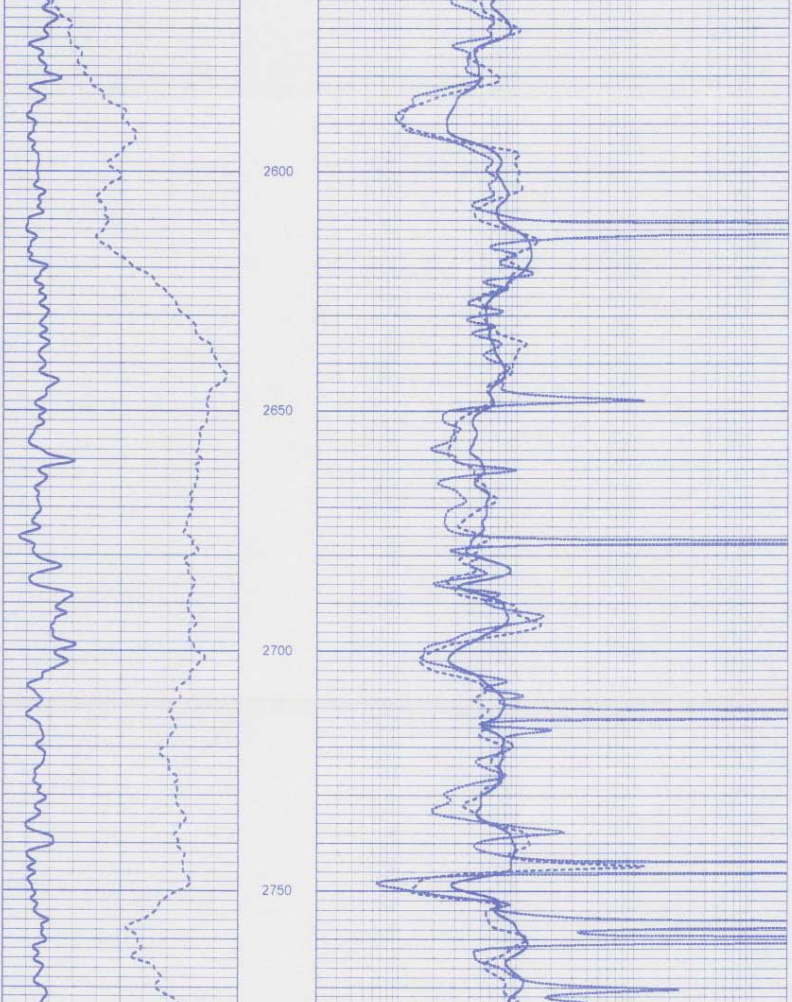


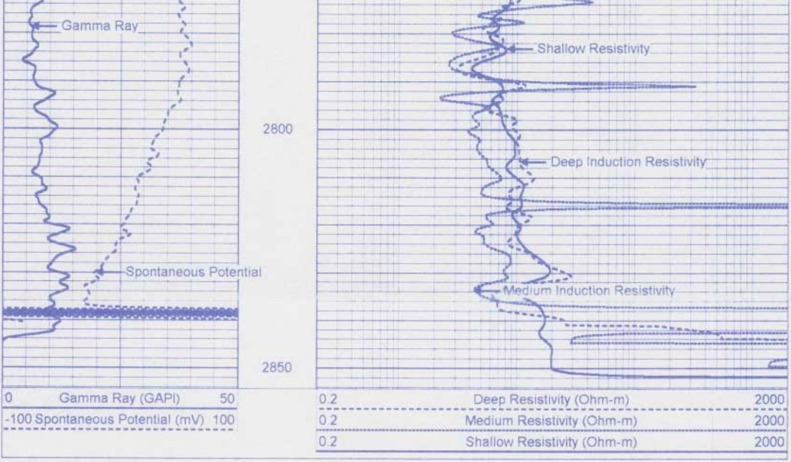
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass7.2
Presentation Format:	dil.prs
Dataset Creation:	Thu Nov 09 12:46:14 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:240



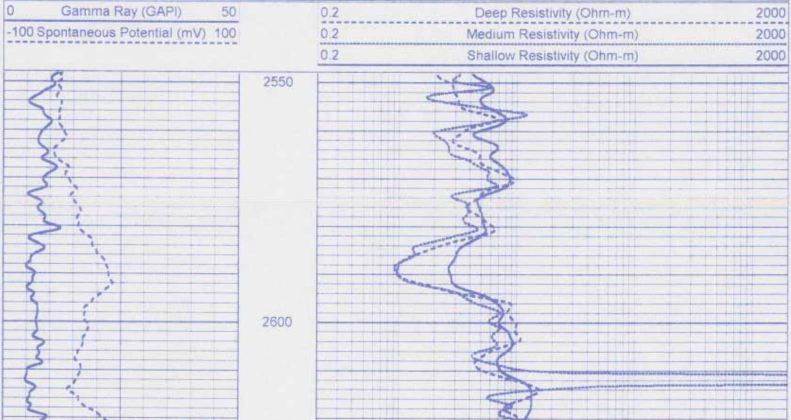


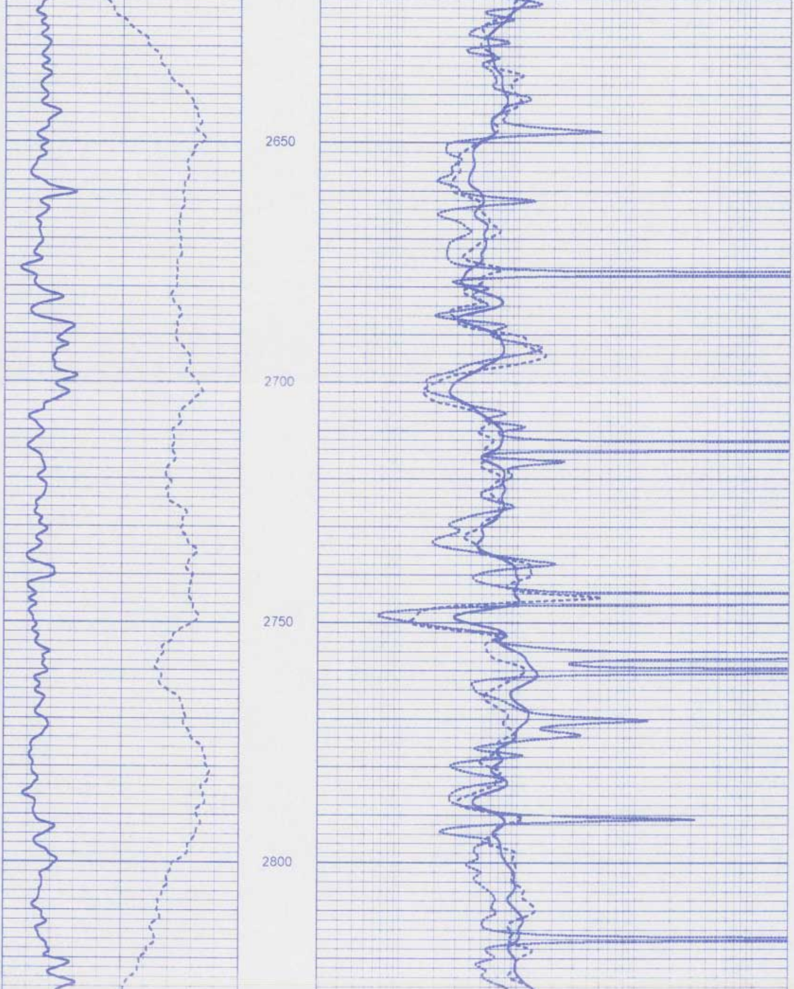


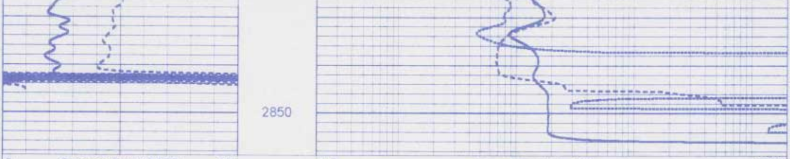
FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

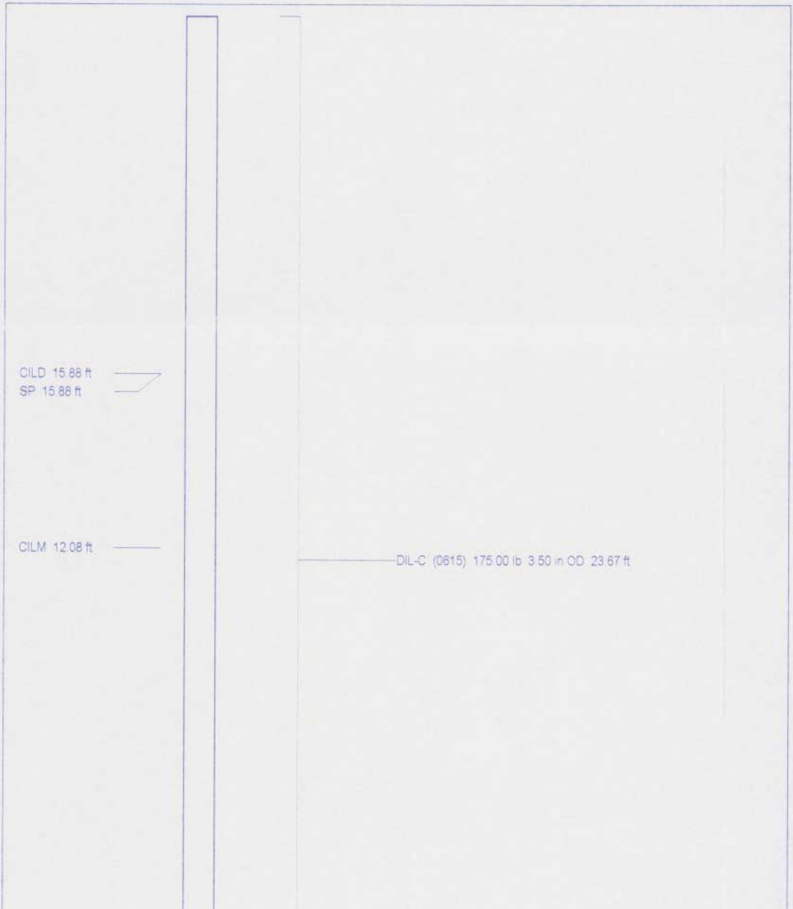
Database File: puntaiw1.db
Dataset Pathname: run12/pass6.3
Presentation Format: dil.prs
Dataset Creation: Thu Nov 09 12:50:47 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:240

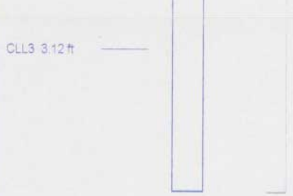






0	Gamma Ray (GAPI)	50
-100	Spontaneous Potential (mV)	100
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000





Dataset	run12/pass7
Total Length	23.67 ft
Total Weight	175.00 lb
O.D.	3.50 in

Dual Induction Calibration Report

Serial-Model:	0615-C
Surface Cal Performed:	Thu Apr 29 14:55:23 1999
Downhole Cal Performed:	Wed Nov 08 21:02:31 2000
After Survey Verification Performed:	Wed Nov 08 21:44:32 2000

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.023	0.631	V	0.000	400.000	mmho-m	611.777	14.234
Medium	-0.013	0.775	V	0.000	464.000	mmho-m	589.284	7.460
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.008	0.589	V	21.900	373.300	mmho-m	605.112	17.058
Medium	0.011	0.700	V	15.579	420.024	mmho-m	587.028	9.320

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	23.868	386.110	mmho-m	19.129	374.400	mmho-m	0.981	-4.279
Medium	16.419	431.845	mmho-m	13.743	419.743	mmho-m	0.977	-2.303
Shallow	0.032	0.417		5.000	182.730	mmho-m	461.201	-9.601

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	23.998	366.581	mmho-m	23.868	386.110	mmho-m	0.981	-4.279
Medium	16.369	410.675	mmho-m	16.419	431.845	mmho-m	0.977	-2.303
Shallow	17.028	190.491	mmho-m	5.000	182.730	mmho-m	1.025	-12.447

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

FLORIDA
GEOPHYSICAL LOGGING, INC.

X-Y CALIPER GAMMA RAY LOG

Company	WATER RESOURCE SOLUTIONS INC
Well	IW - 1
Field	PUNTA GORDA W.W.T.P.
Country	CHARLOTTE State/Prv FLORIDA
Location	NW 1/4, NE 1/4 : S7, T41S, R24E
Other Services	SEE COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation
Log Measured From	PAD			K.B. 27'
Drilling Measured From	PAD			D.F. 27'
				G.L. 24'

Date	11/8/00		
Run Number	TWELVE		
Depth Driller	2850'		
Depth Logger	2850'		
Bottom Logged Interval	2850'		
Top Log Interval	CASING		
Open Hole Size	18.5"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	97 DEG F		
Estimated Cement Top	NA		
Time Well Ready	1700		
Time Logger on Bottom	1800		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON		
Witnessed By	F. PROCTA		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
THREE	36.5"	CASING	1716'				
FIVE	28.5"	CASING	2505'				
SEVEN	18.5"	CASING	2850'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	.375	SURFACE	42'
Prot. String	38"	.375	SURFACE	500'
Production String	30"	.375	SURFACE	1710'
Liner	20"	.500	SURFACE	2500'

<<< Fold Here >>>

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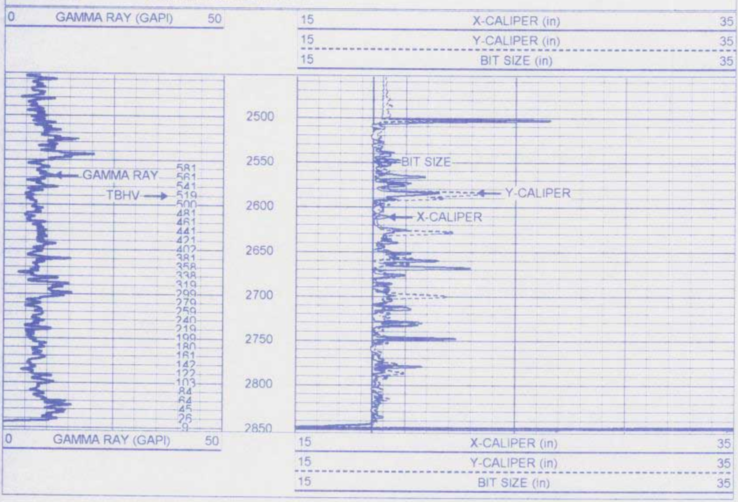
Comments

TEMPERATURE
DUAL INDUCTION/LL3/SP
BOREHOLE COMPENSATED SONIC
CEMENT BOND LOG

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

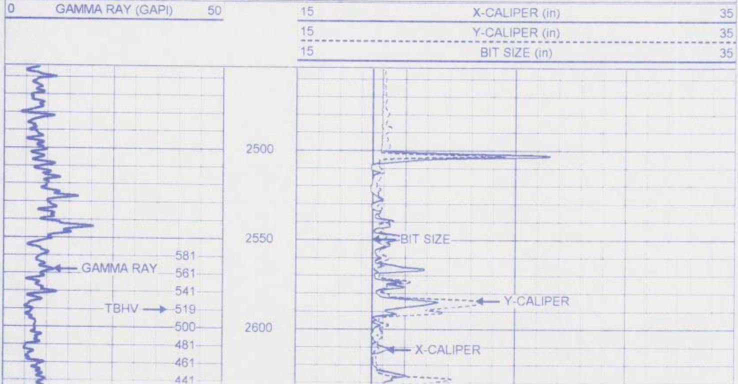
Database File:	puntaiw1.db
Dataset Pathname:	run12/pass3.1
Presentation Format:	grxyc.prs
Dataset Creation:	Wed Nov 08 19:03:11 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:1200

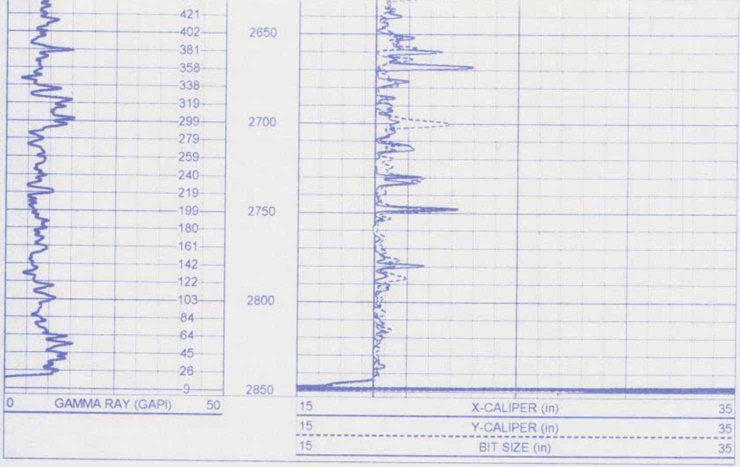


FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass3.1
Presentation Format:	grxyc.prs
Dataset Creation:	Wed Nov 08 19:03:11 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:600

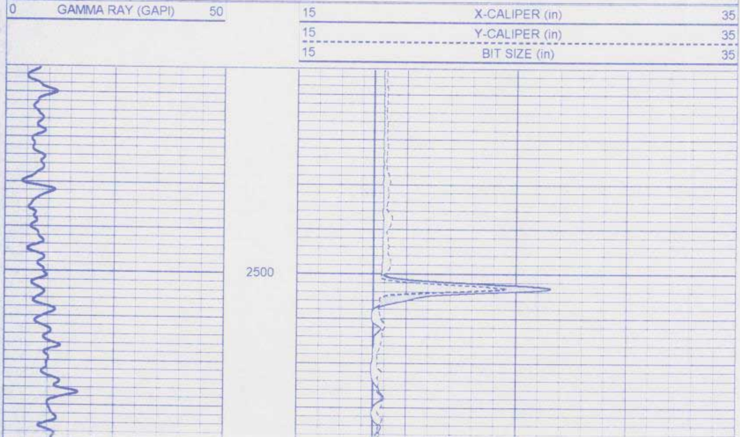


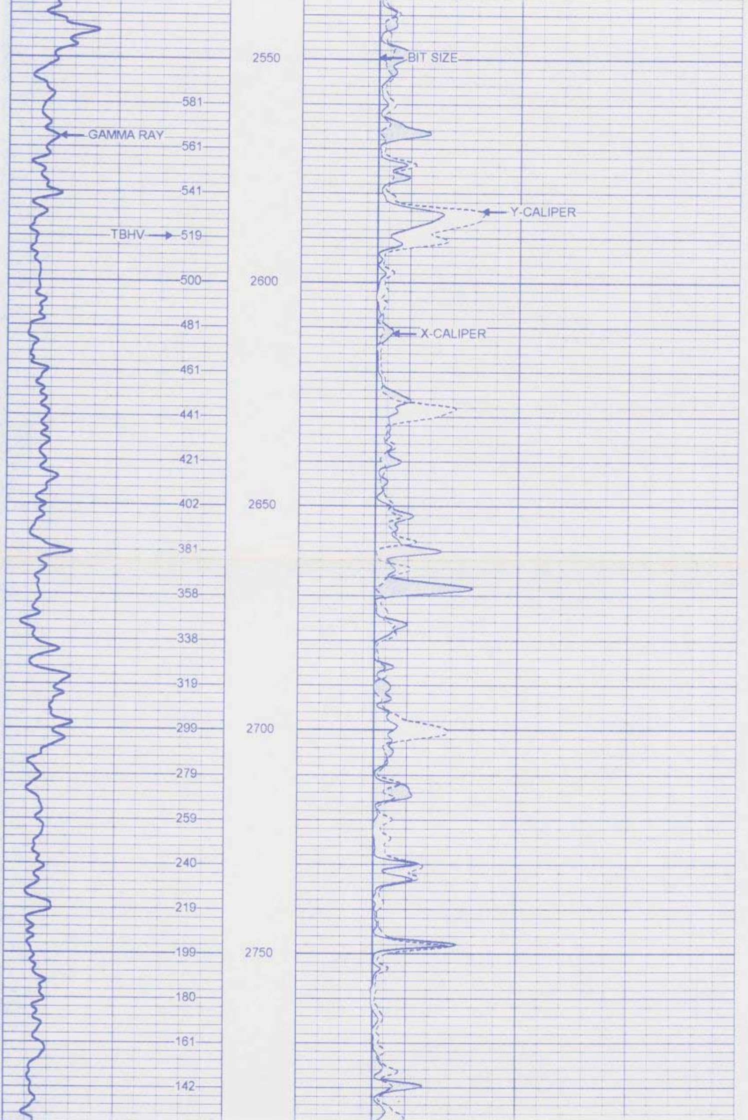


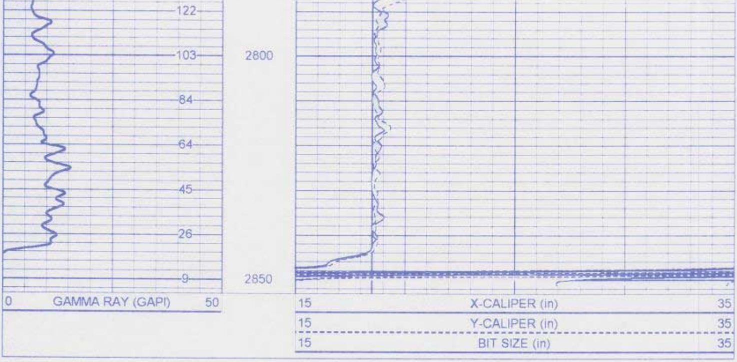
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run12/pass3.1
Presentation Format: grxyc.prs
Dataset Creation: Wed Nov 08 19:03:11 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:240



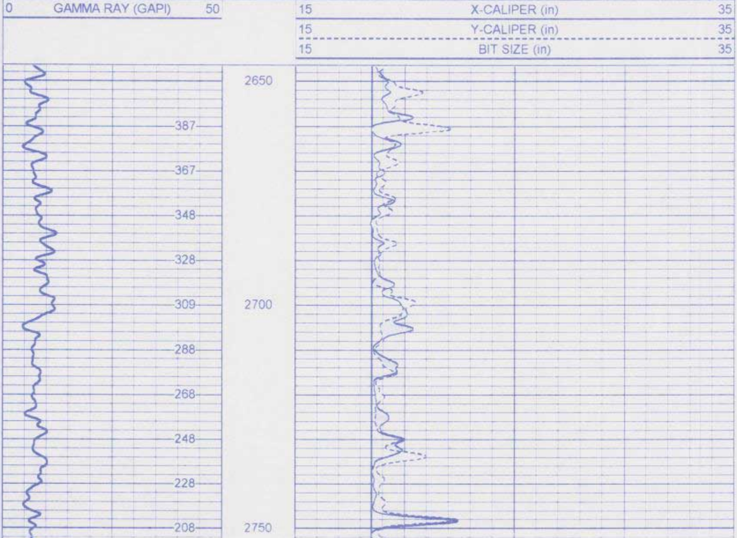


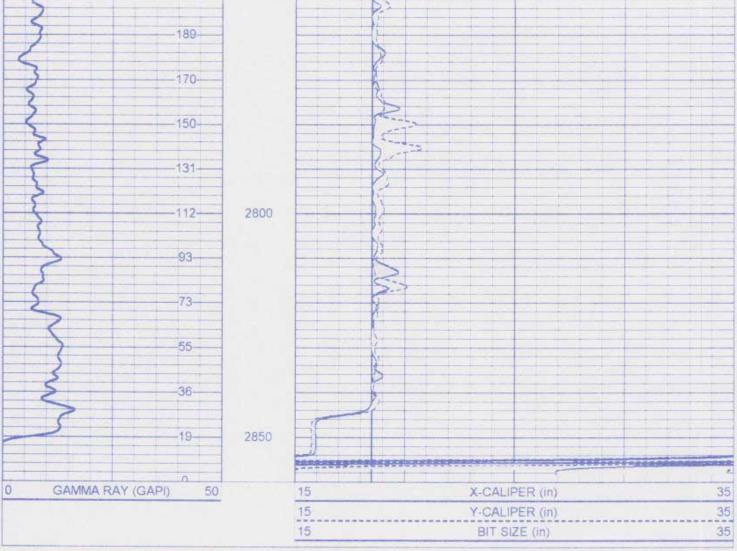


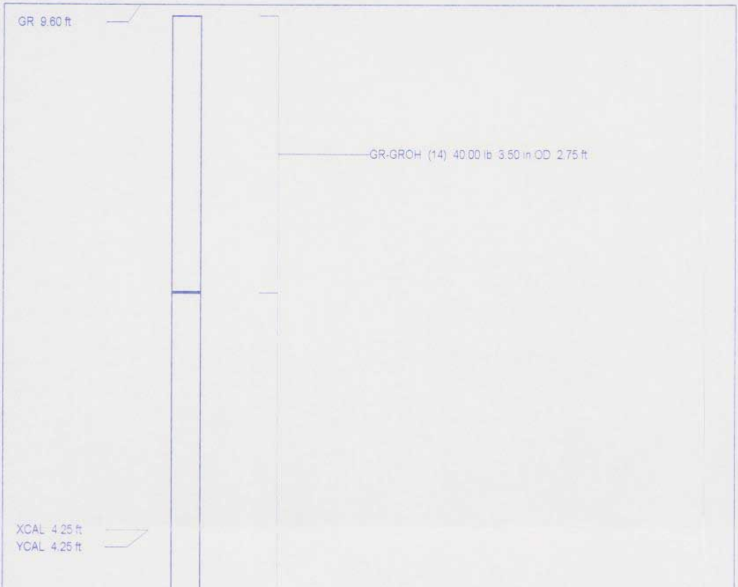
FLORIDA
GEOPHYSICAL LOGGING, INC.

REPEAT PASS

Database File:	puntaiw1.db
Dataset Pathname:	run12/pass2.2
Presentation Format:	grxyc.prs
Dataset Creation:	Wed Nov 08 19:05:43 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:240







XYC-XYCLM (02LM) 87.00 lb 3.50 in OD 6.60 ft

Dataset:	run12/pass2.2
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

XY Caliper Calibration Report

Serial Number/Model: 02LM-XYCLM
Performed: Wed Nov 08 17:58:14 2000

	Ring		X Caliper		Y Caliper	
1:	10	in	756.456	cps	837.738	cps
2:	19	in	914.417	cps	973.98	cps
3:	30	in	1117.42	cps	1151.45	cps
4:	42	in	1395.3	cps	1385.09	cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Fri Sep 01 10:52:17 2000	
Calibrator Value:	120	GAPI
Background Reading:	21.4476	cps
Calibrator Reading:	133.923	cps
Sensitivity:	1.0669	GAPI/cps

FLORIDA
GEOPHYSICAL LOGGING, INC.

BOREHOLE COMPENSATED SONIC WITH VDL LOG

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company WATER RESOURCE SOLUTIONS INC
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE State/Prv FLORIDA
Location
NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation	
Log Measured From	PAD			K.B.	27'
Drilling Measured From	PAD			D.F.	27'
				G.L.	24'

Date	10/4/00		
Run Number	NINE		
Depth Driller	2503'		
Depth Logger	2503'		
Bottom Logged Interval	2503'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	106		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	2200		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON	FERGUSON	
Witnessed By	F. PROCTA	N. KUGLER	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				
THREE	36.5"	CASING	1716'				
FOUR	12.25"	CASING	2505'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String	30"	375	SURFACE	1710'
Liner				

<<< Fold Here >>>

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Comments

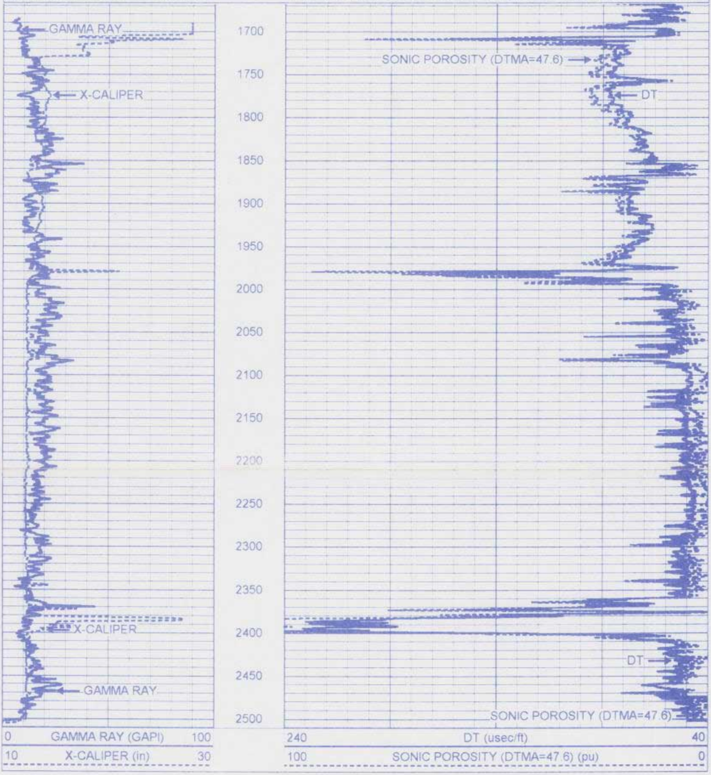
TEMPERATURE SURVEY
X-Y CALIPER\GAMMA RAY
DUAL INDUCTION LL3\SP
VIDEO

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run9/pass9.2
Presentation Format:	son_por.prs
Dataset Creation:	Thu Oct 05 13:58:53 2000
Charted by:	Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0

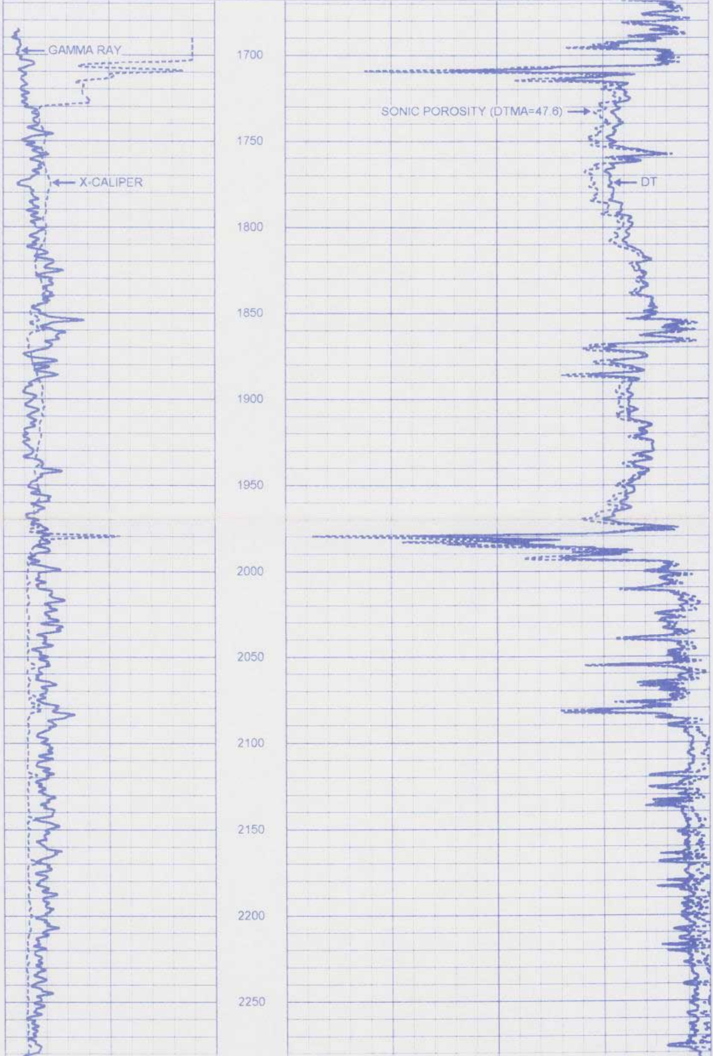


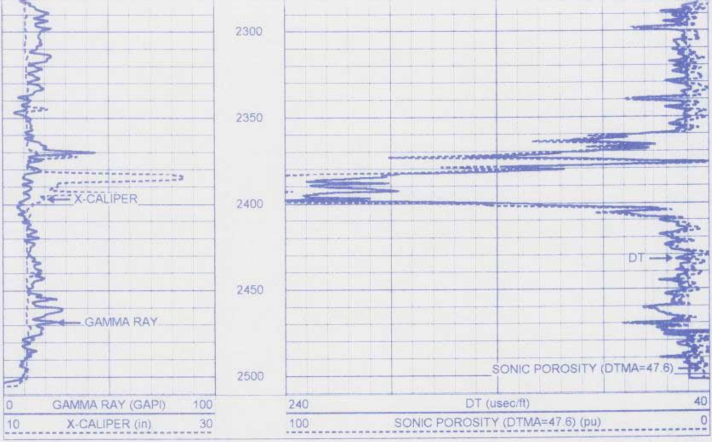
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run9/pass9.2
Presentation Format:	son_por.prs
Dataset Creation:	Thu Oct 05 13:58:53 2000
Charted by:	Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 100
10 X-CALIPER (in) 30
240 DT (usec/ft) 40
100 SONIC POROSITY (DTMA=47.6) (pu) 0

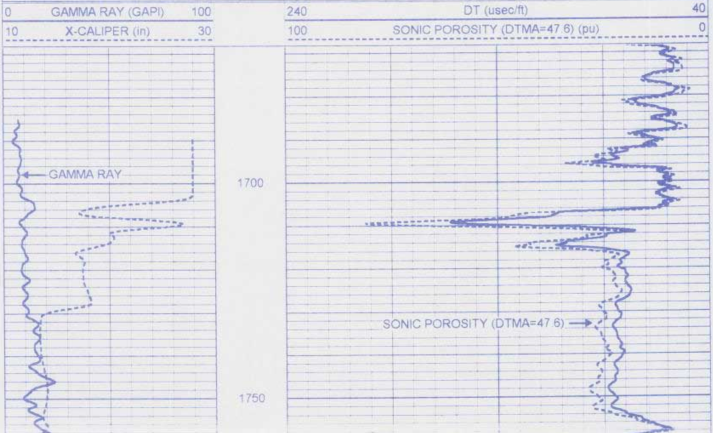


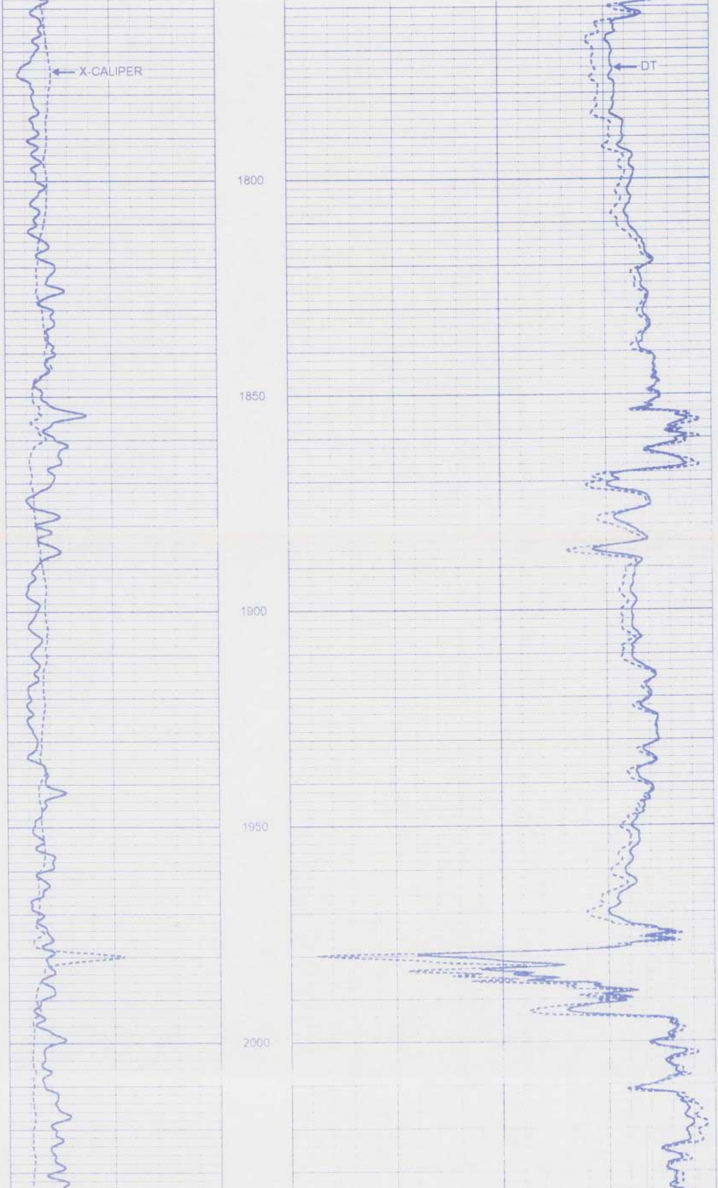


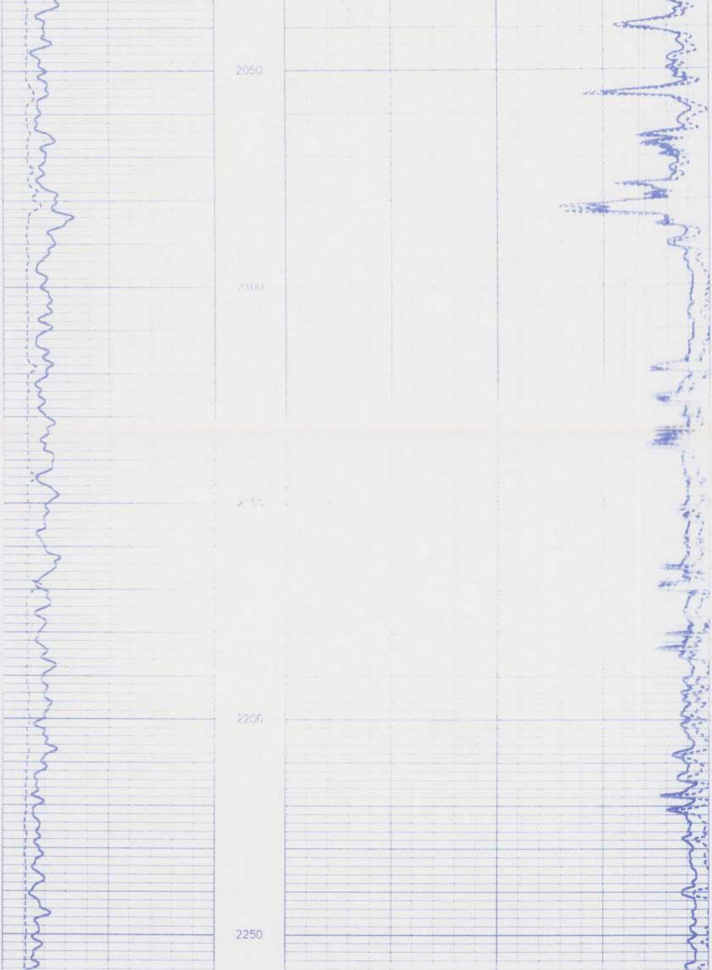
FLORIDA
GEOPHYSICAL LOGGING, INC

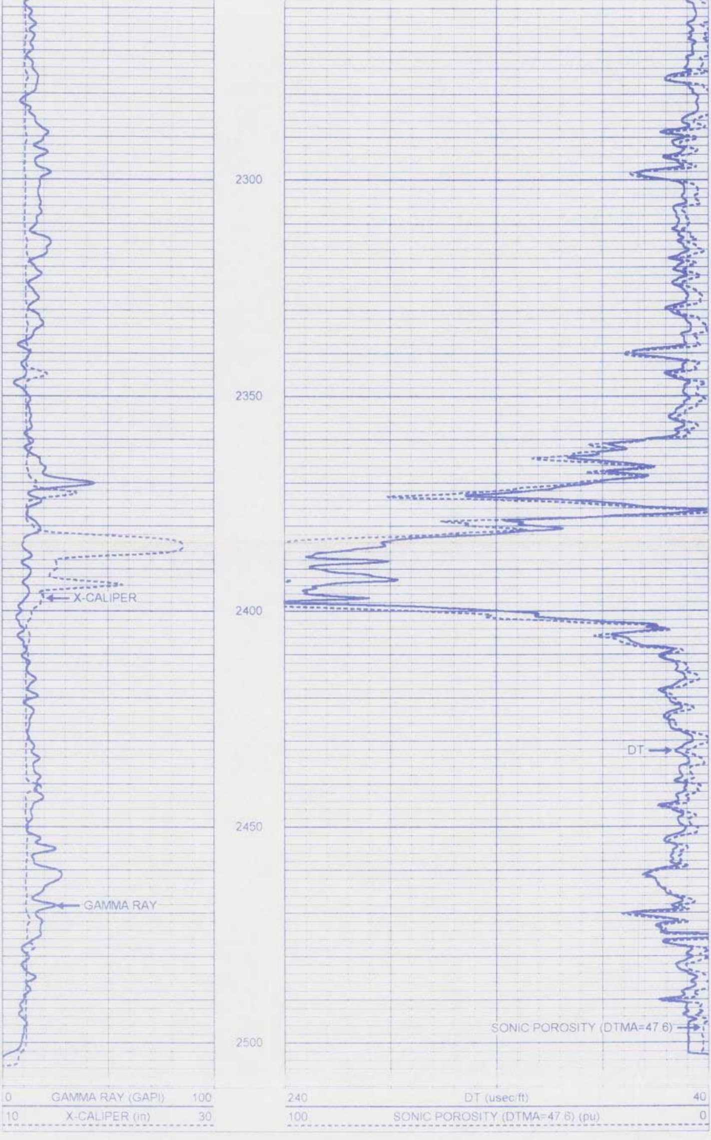
MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run9/pass9.2
Presentation Format:	son_por.prs
Dataset Creation:	Thu Oct 05 13:58:53 2000
Charted by:	Depth in Feet scaled 1:240





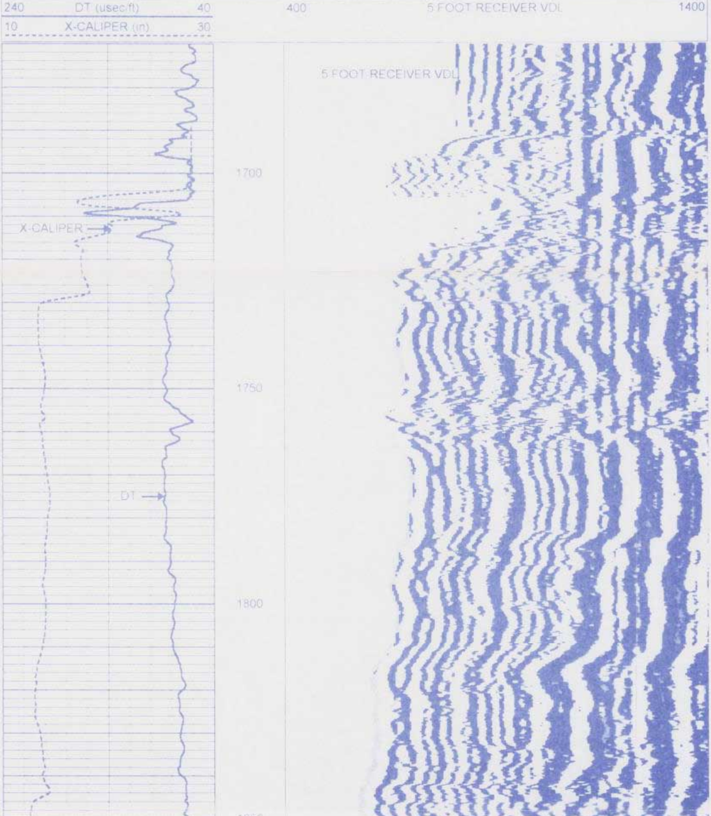


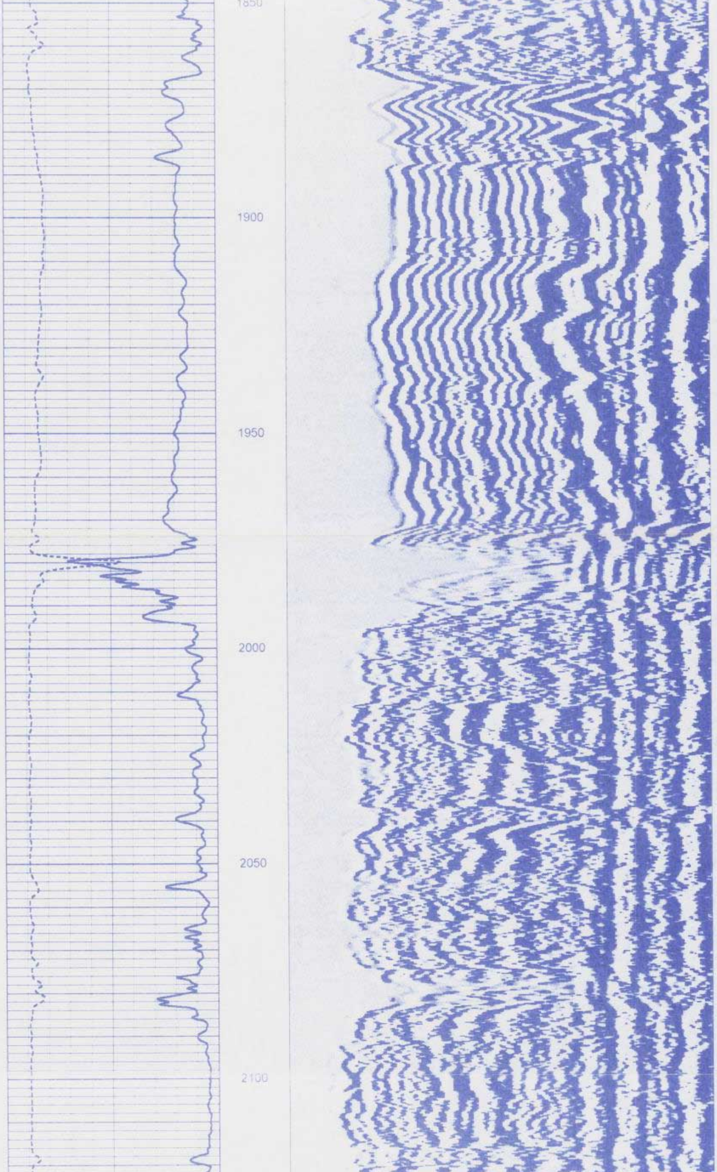


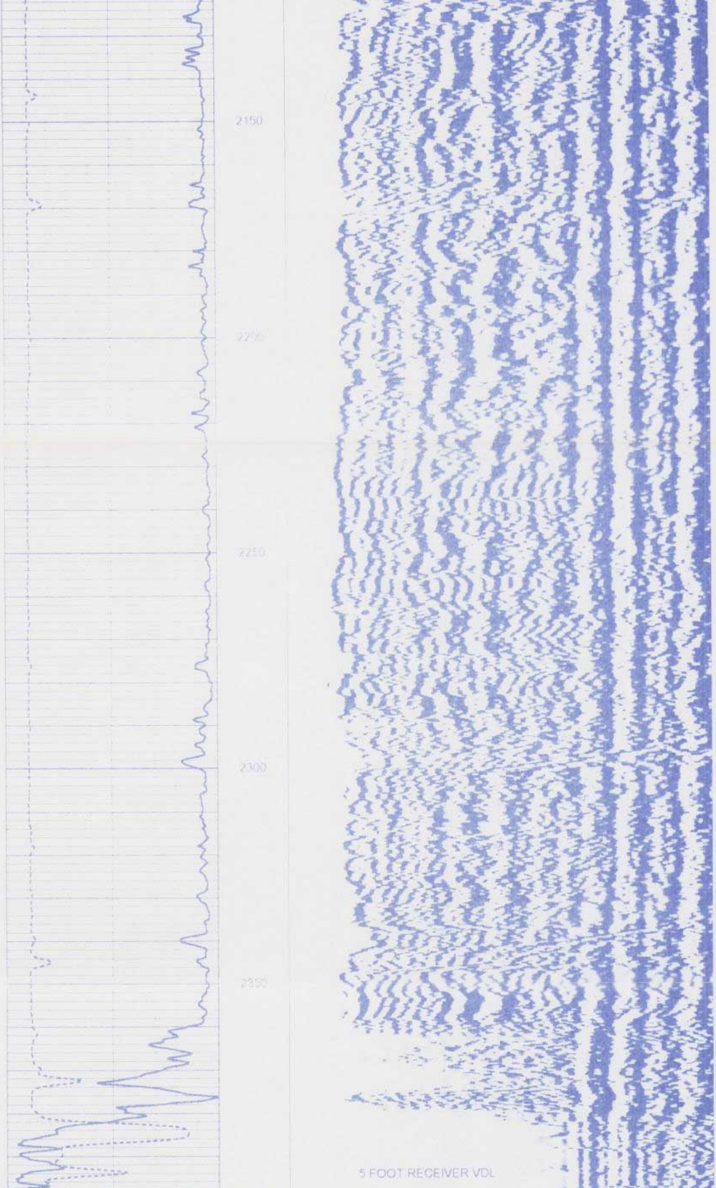
FLORIDA
GEOPHYSICAL LOGGING, INC.

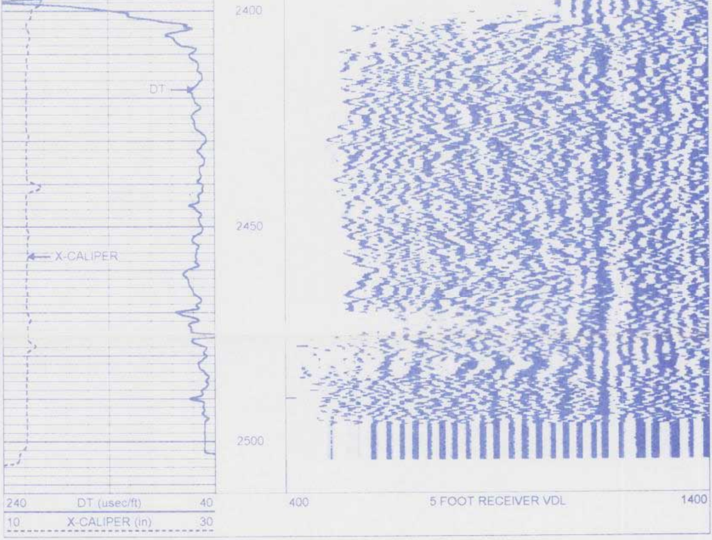
MAIN PASS

Database File puntalw1.db
Dataset Pathname run9/pass9.2
Presentation Format son_vdl.prs
Dataset Creation Thu Oct 05 13:58:53 2000
Charted by Depth in Feet scaled 1:240





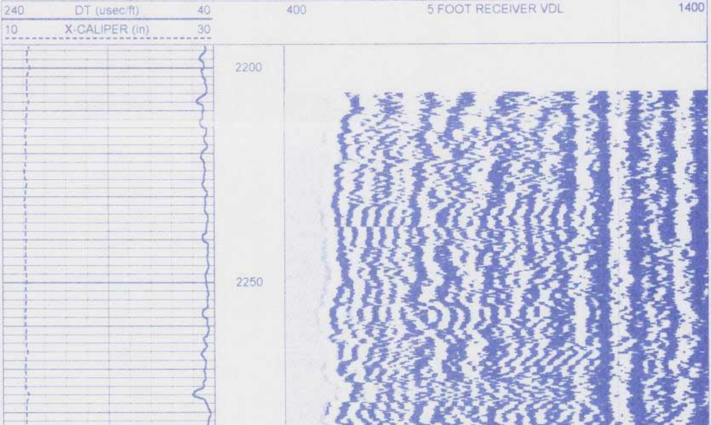


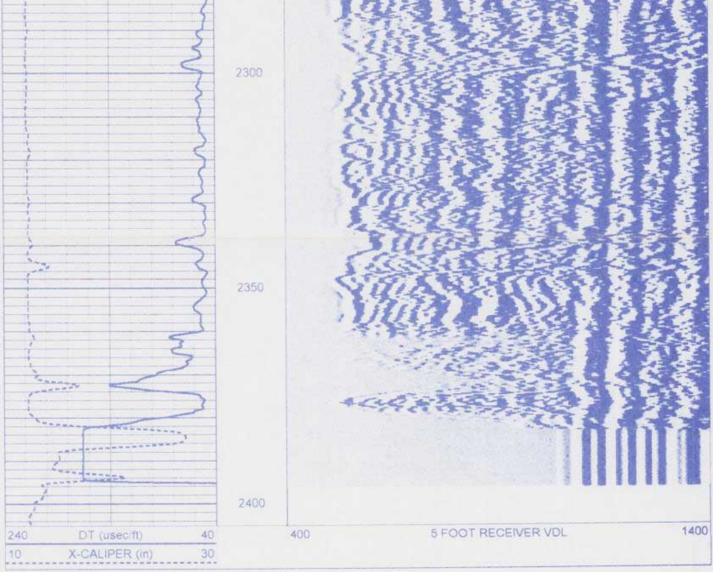


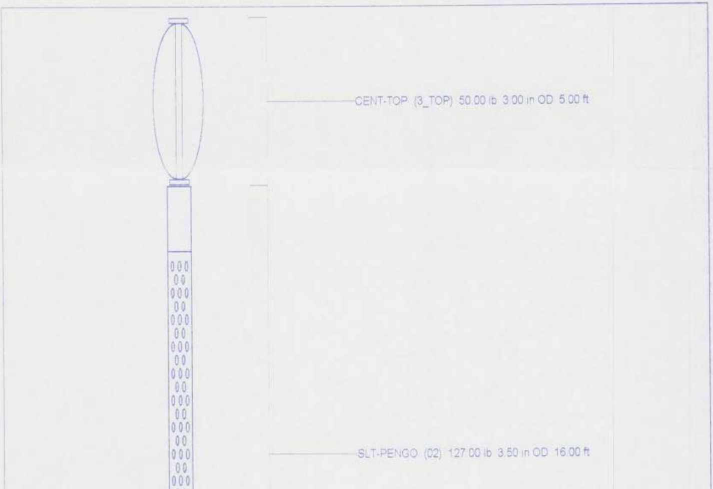
FLORIDA
GEOPHYSICAL LOGGING, INC.

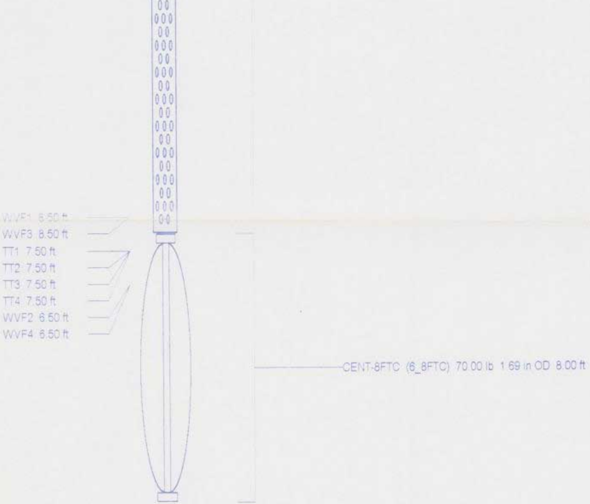
REPEAT PASS

Database File: puntaiw1.db
Dataset Pathname: run9/pass8.3
Presentation Format: son_vdl.prs
Dataset Creation: Thu Oct 05 15:05:34 2000
Charted by: Depth in Feet scaled 1:240






CENT-TOP (3_TOP) 50.00 lb 3.00 in OD 5.00 ft
SLT-PENGO (02) 127.00 lb 3.50 in OD 16.00 ft



Dataset	run9/pass9.1
Total Length	29.00 ft
Total Weight	247.00 lb
O.D.	3.50 in

FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE LOG

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company	WATER RESOURCE SOLUTIONS INC.		
Well	IW - 1		
Field	PUNTA GORDA W.W.T.P.		
Country	CHARLOTTE	State/Prv	FLORIDA

Location

NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE
COMMENTS

Permanent Datum	PAD	Elevation	24'	Elevation
Log Measured From	PAD			K.B. 27'
Drilling Measured From	PAD			D.F. 27' G.L. 24'

Date	10/4/00		
Run Number	NINE		
Depth Driller	2505'		
Depth Logger	2507'		
Bottom Logged Interval	2507'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	106		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1030		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON		
Witnessed By	F. PROCTA		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				
THREE	36.5"	CASING	1716'				
FOUR	12.25"	CASING	2505'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String	30"	375	SURFACE	1710'
Liner				

<<< Fold Here >>>

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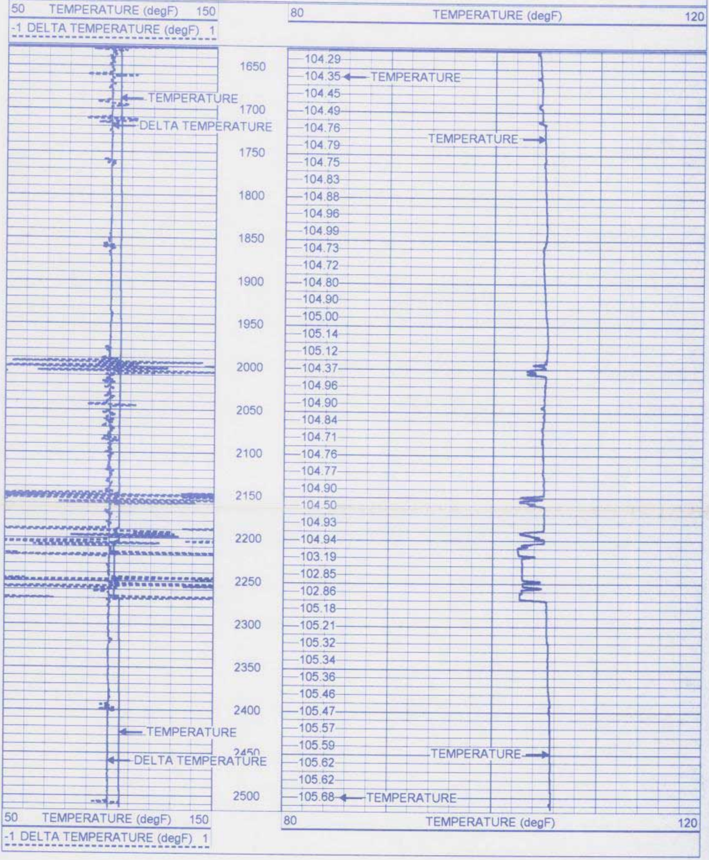
Comments

BOREHOLE COMPENSATED SONIC
X-Y CALIPER\GAMMA RAY
DUAL INDUCTION LL3\SP
VIDEO

FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE SURVEY

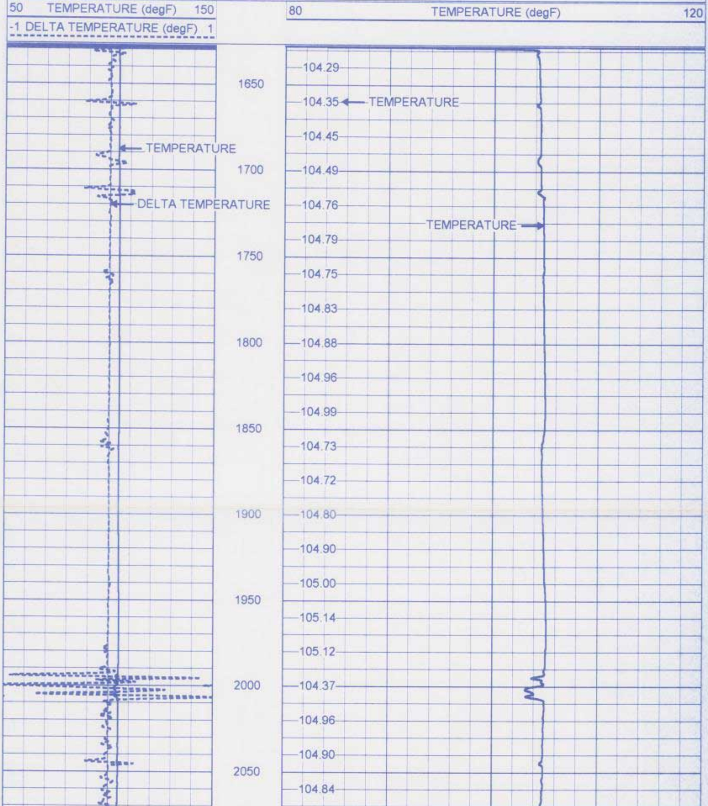
Database File: puntaiw1.db
Dataset Pathname: run9/pass2
Presentation Format: temp.prs
Dataset Creation: Wed Oct 04 10:16:12 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:1200

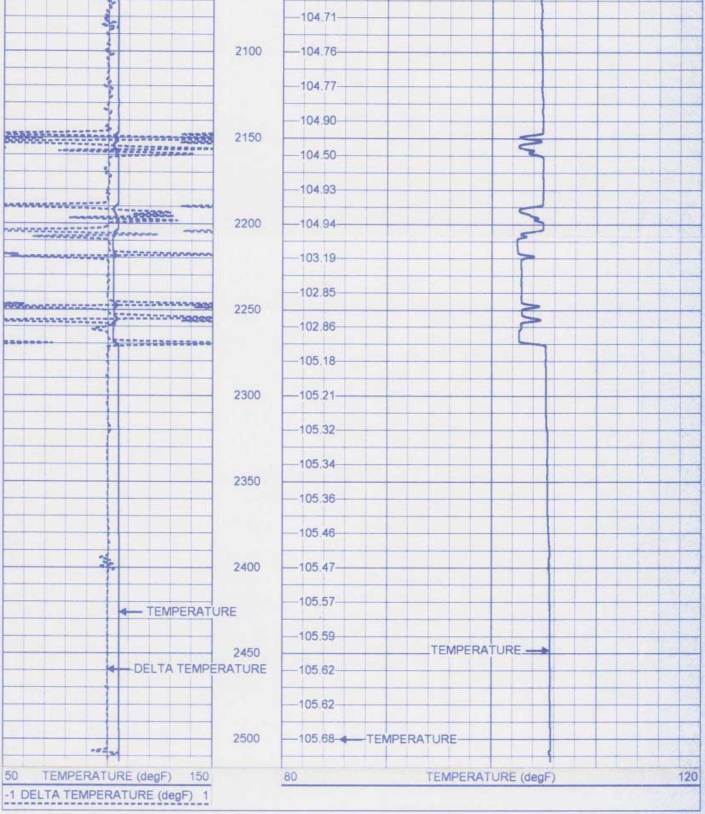


FLORIDA
GEOPHYSICAL LOGGING, INC.

TEMPERATURE SURVEY

Database File: puntaiw1.db
Dataset Pathname: run9/pass2
Presentation Format: temp.prs
Dataset Creation: Wed Oct 04 10:16:12 2000 by Log VER_5.4
Charted by: Depth in Feet scaled 1:600

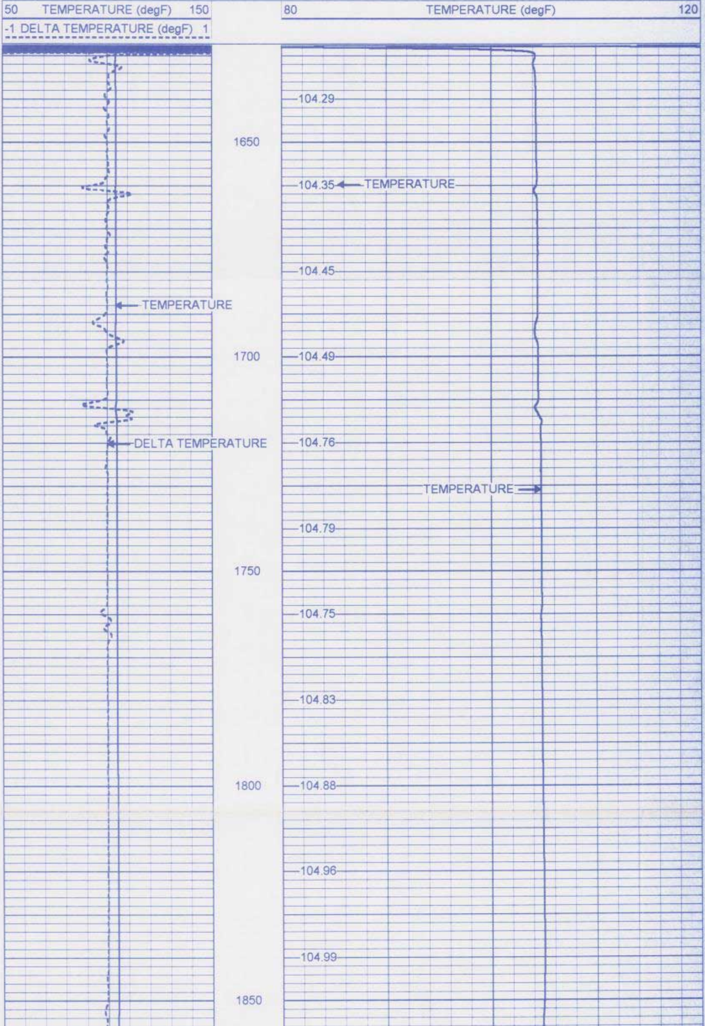


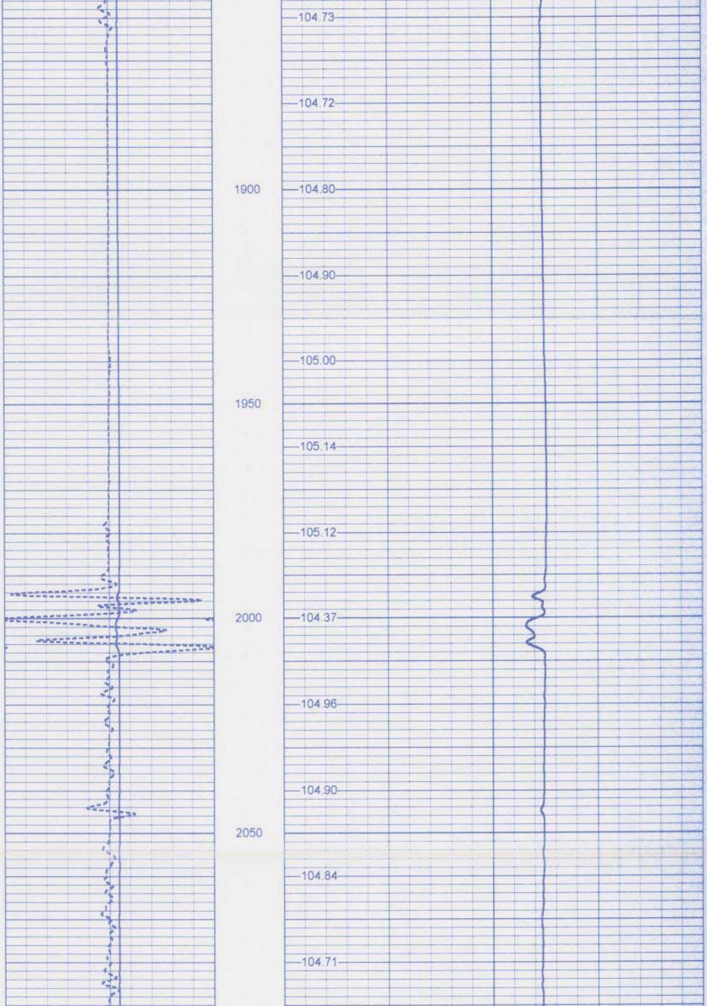


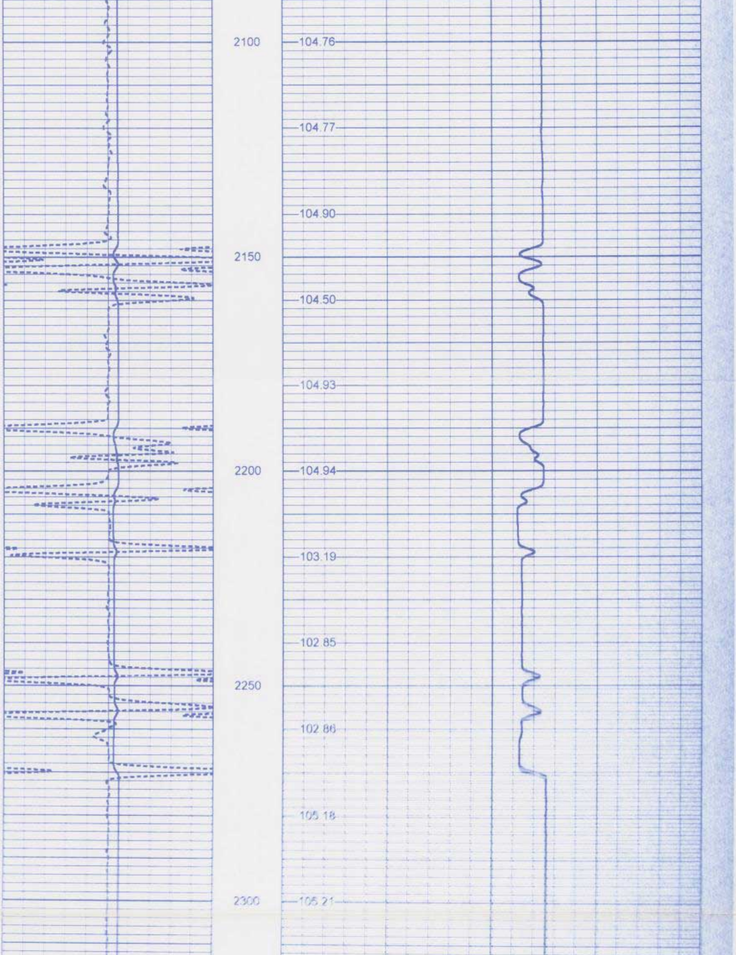
FLORIDA
GEOPHYSICAL LOGGING, INC.

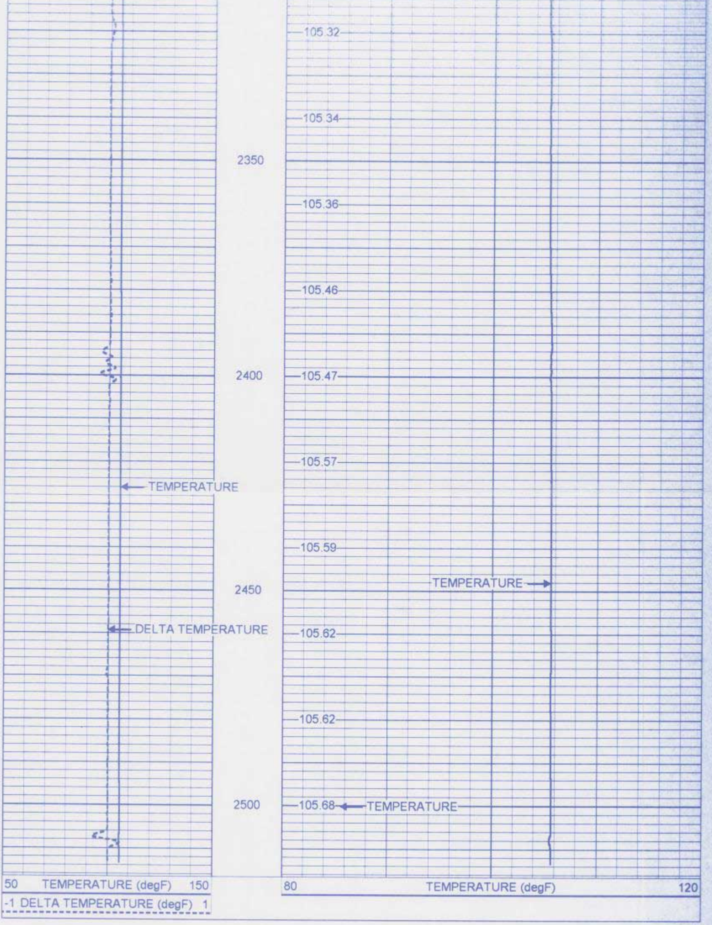
TEMPERATURE SURVEY

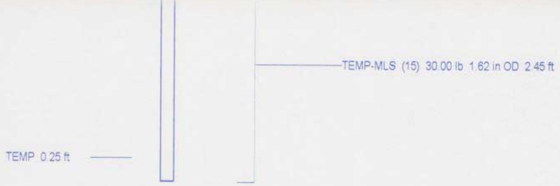
Database File:	puntaiw1.db
Dataset Pathname:	run9/pass2
Presentation Format:	temp.prs
Dataset Creation:	Wed Oct 04 10:16:12 2000 by Log VER_5.4
Charted by:	Depth in Feet scaled 1:240











Dataset:	run9/pass2
Total Length:	2.45 ft
Total Weight:	30.00 lb
O.D.	1.62 in

Temperature Calibration Report

Serial Number:	15
Tool Model:	MLS
Performed:	Wed Aug 30 10:29:15 2000

Point #	Reading		Reference	
1	289.494	cps	33	degF
2	453.262	cps	76	degF
3	723.262	cps	161	degF

FLORIDA
GEOPHYSICAL LOGGING, INC.

DUAL INDUCTION
LL3/SP
LOG

Company WATER RESOURCE SLTNS.
Well IW - 1
Field PUNTA GORDA W.W.T.P.
Country CHARLOTTE
State/Prv FL

Company	WATER RESOURCE SOLUTIONS INC.
Well	IW - 1
Field	PUNTA GORDA W.W.T.P.
Country	CHARLOTTE State/Prv FLORIDA

Location

NW 1/4, NE 1/4 : S7, T41S, R24E

Other Services
SEE
COMMENTS

				Elevation
Permanent Datum	PAD	Elevation	24'	K.B. 27'
Log Measured From	PAD			D.F. 27'
Drilling Measured From	PAD			G.L. 24'

Date	10/4/00		
Run Number	NINE		
Depth Driller	2505'		
Depth Logger	2507'		
Bottom Logged Interval	2507'		
Top Log Interval	CASING		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp	106		
Estimated Cement Top	NA		
Time Well Ready	1000		
Time Logger on Bottom	1200		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	DENISON		
Witnessed By	F. PROCTA		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	46.5"	SURFACE	507'				
TWO	12.25"	CASING	1730'				
THREE	36.5"	CASING	1716'				
FOUR	12.25"	CASING	2505'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	48"	375	SURFACE	42'
Prot. String	38"	375	SURFACE	500'
Production String	30"	375	SURFACE	1710'
Liner				

<<< Fold Here >>>

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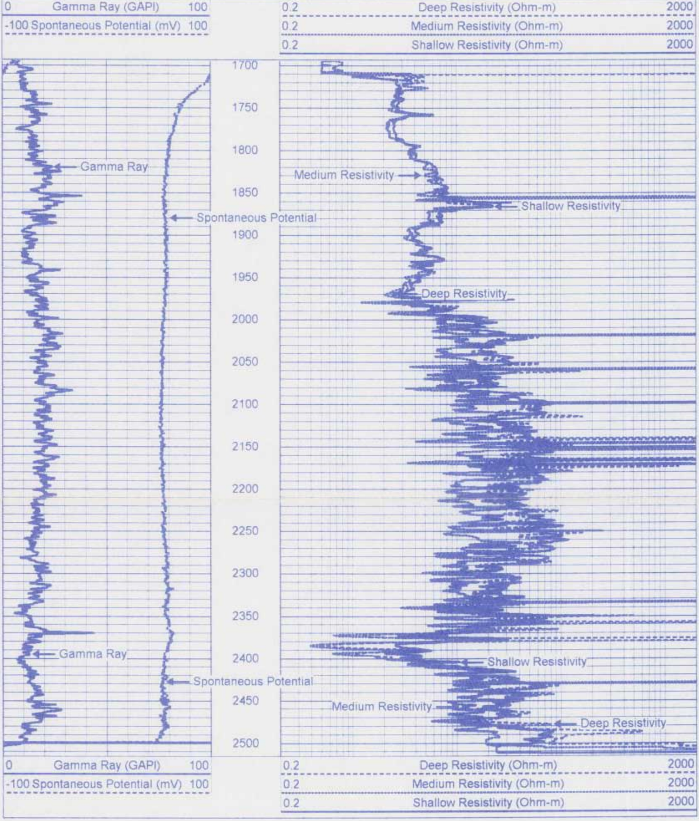
Comments

TEMPERATURE SURVEY
X-Y CALIPER\GAMMA RAY
BOREHOLE COMPENSATED SONIC
VIDEO

FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File:	puntaiw1.db
Dataset Pathname:	run9/pass7.6
Presentation Format:	dil.prs
Dataset Creation:	Wed Oct 11 11:30:34 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:1200

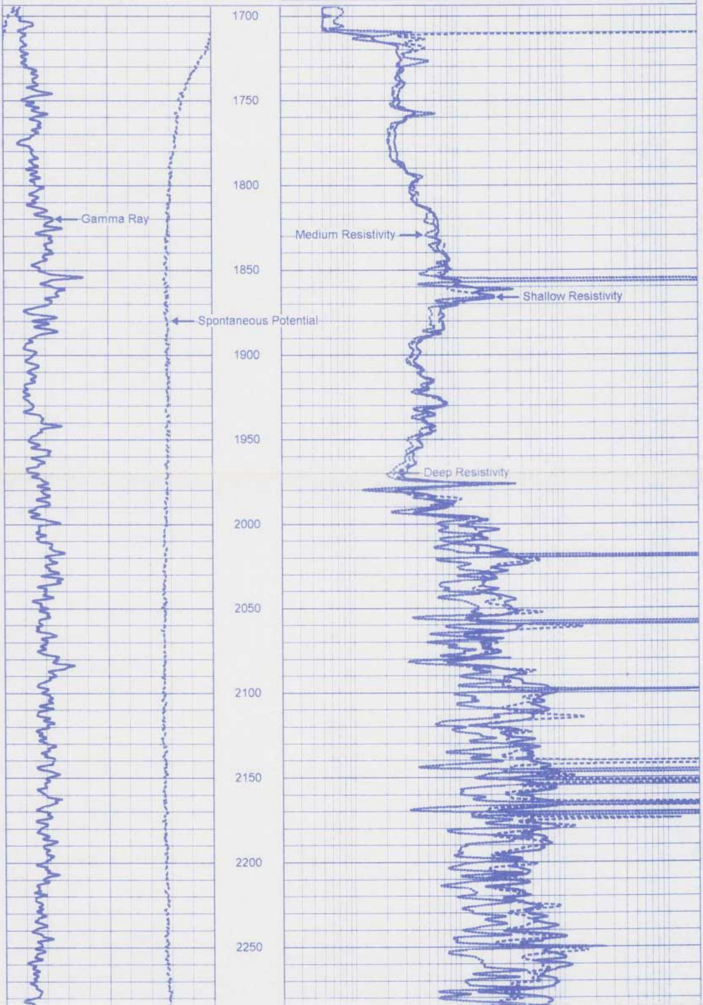


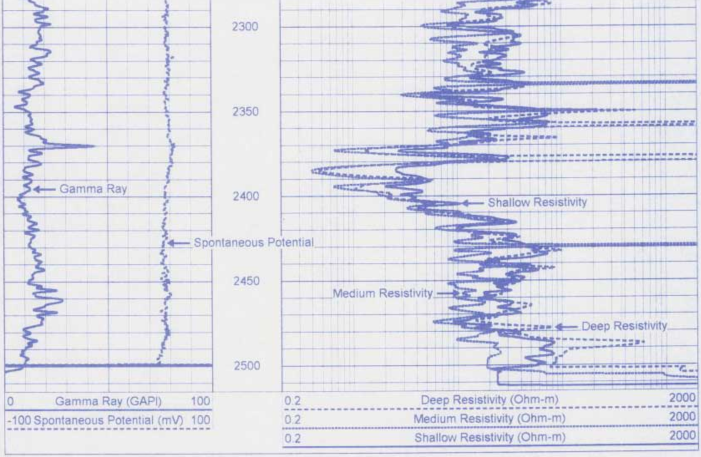
FLORIDA
GEOPHYSICAL LOGGING, INC.

MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run9/pass7.6
Presentation Format: dil.prs
Dataset Creation: Wed Oct 11 11:30:34 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:600

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





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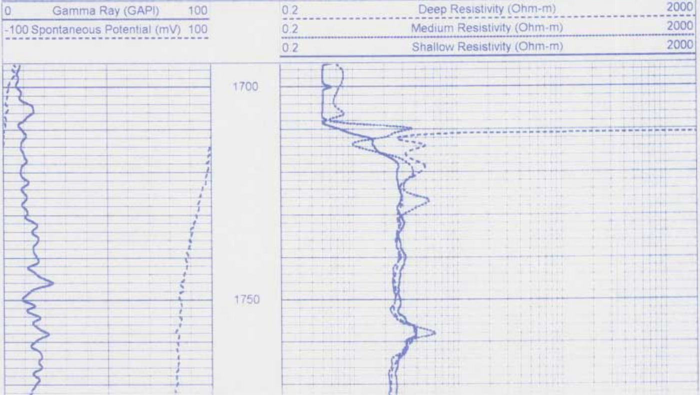
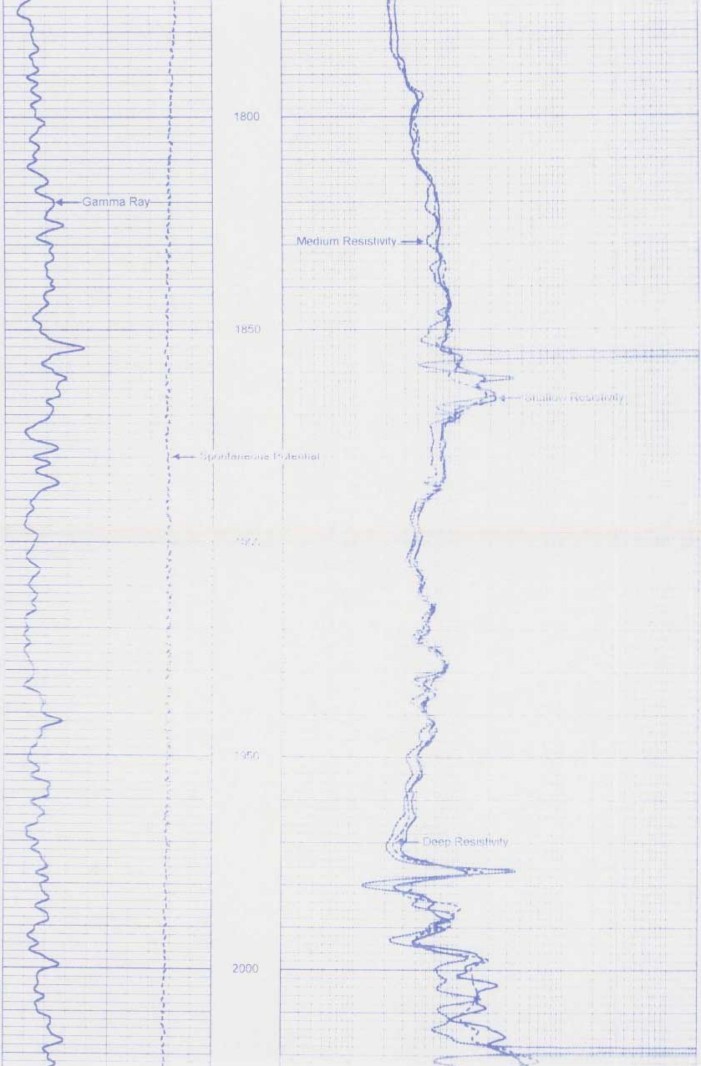
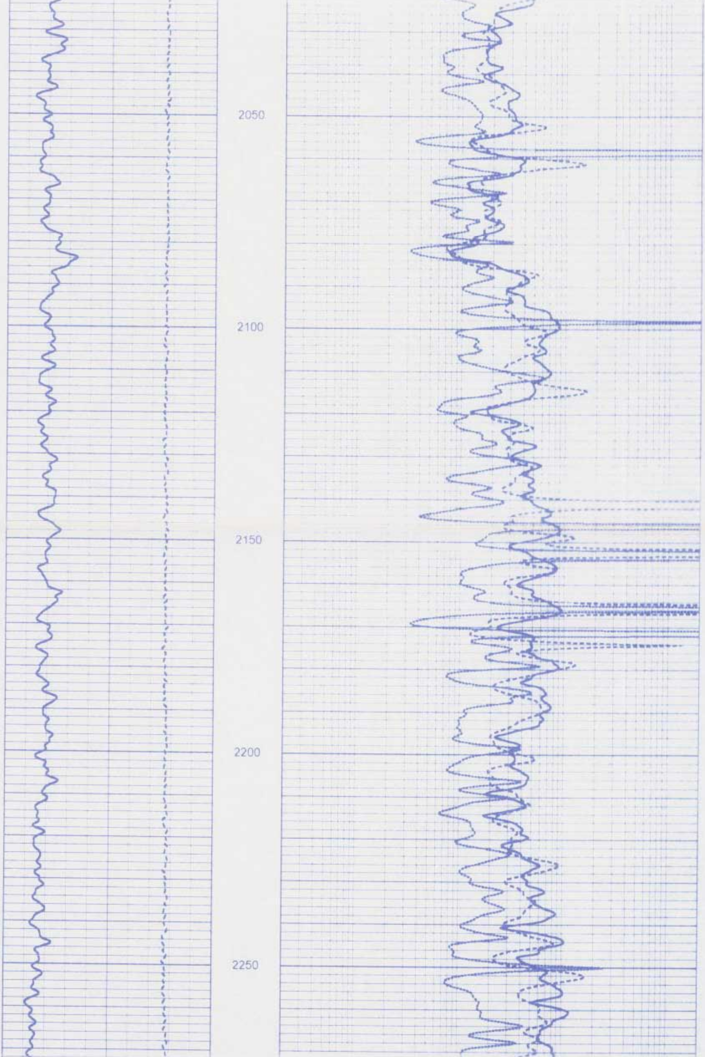
GEOPHYSICAL LOGGING, INC.

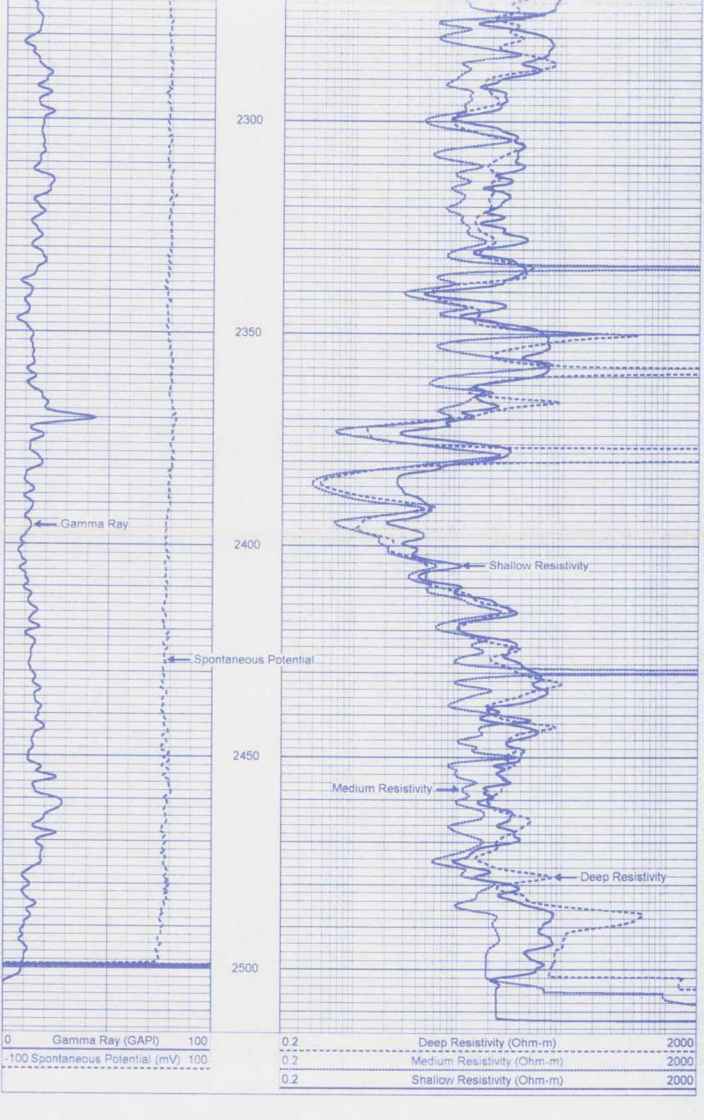
MAIN PASS

Database File: puntaiw1.db
Dataset Pathname: run9/pass7.6
Presentation Format: dil.prs
Dataset Creation: Wed Oct 11 11:30:34 2000 by Calc VER_5.4
Charted by: Depth in Feet scaled 1:240









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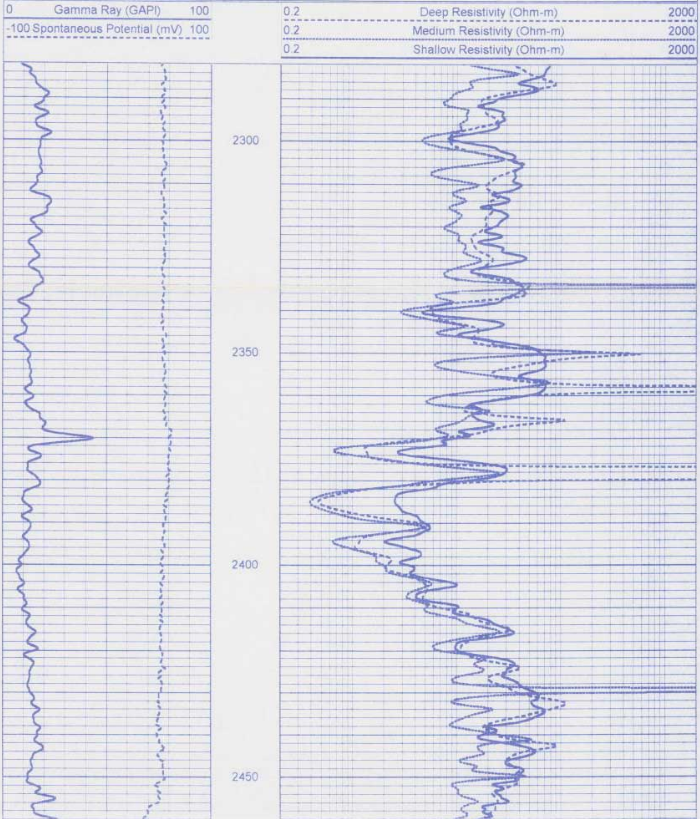
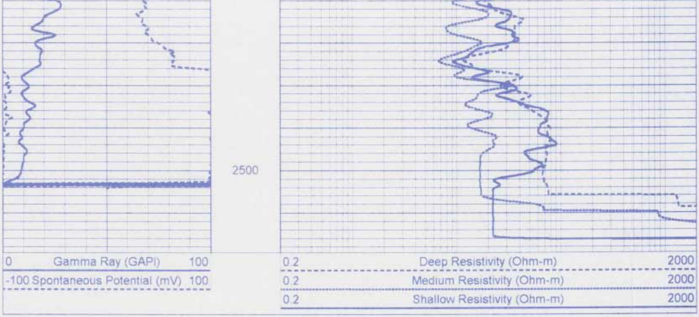
REPEAT PASS

Database File:	puntaiw1.db
Dataset Pathname:	run9/pass6.4
Presentation Format:	dil.prs
Dataset Creation:	Thu Oct 12 11:09:18 2000 by Calc VER_5.4
Charted by:	Depth in Feet scaled 1:240





Dual Induction Calibration Report

Serial-Model: 1510-C
Surface Cal Performed: Thu Apr 29 16:47:18 1999
Downhole Cal Performed: Wed Oct 04 11:39:54 2000
After Survey Verification Performed: Wed Oct 04 12:05:53 2000

Surface Calibration

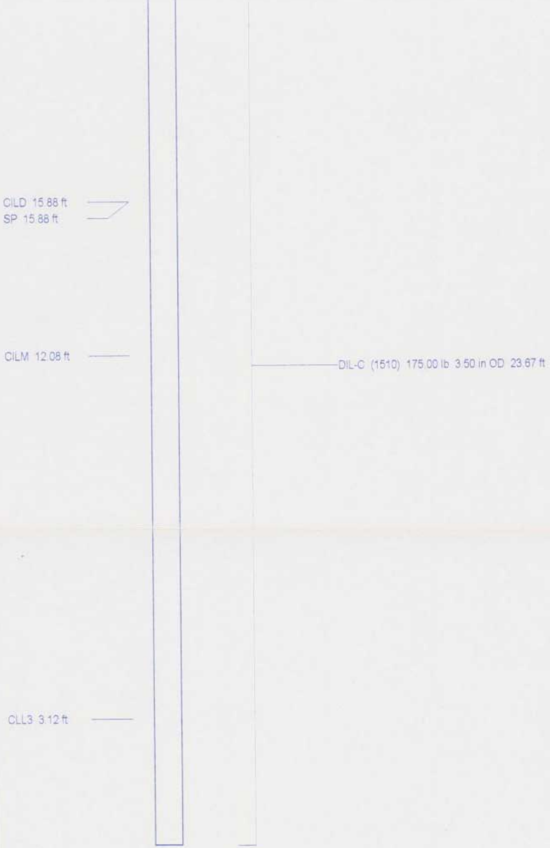
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.631	V	0.000	400.000	mmho-m	620.172	8.975
Medium	-0.001	0.703	V	0.000	464.000	mmho-m	659.905	0.362
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.012	0.641	V	17.680	407.650	mmho-m	620.191	10.098
Medium	0.009	0.728	V	6.060	482.670	mmho-m	662.558	0.111

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	18.510	427.398	mmho-m	16.557	406.514	mmho-m	0.954	-1.096
Medium	7.939	505.409	mmho-m	6.287	480.989	mmho-m	0.954	-1.288
Shallow	0.034	0.405		3.000	88.900	mmho-m	231.695	-4.853

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	18.805	415.467	mmho-m	18.510	427.398	mmho-m	0.954	-1.096
Medium	8.104	490.643	mmho-m	7.939	505.409	mmho-m	0.954	-1.288
Shallow	3.465	91.721	mmho-m	3.000	88.900	mmho-m	0.973	-0.373



Dataset:	run9/pass7
Total Length:	23.67 ft
Total Weight:	175.00 lb
O.D:	3.50 in