GEOPHYSICAL LOGS ASR-5

PILOT HOLE: CALIPER, GAMMA, INDUCTION

REAMED HOLE: CALIPER

CASING: TEMPERATURE

X - Y CALIPER
GAMMA RAY
LOG

MV Geophysical

Company LEE COUNTY UTILITIES
Well ASR-5
Field CORKSCREW ASR EXP.
County LEE
State/Prv FLORIDA

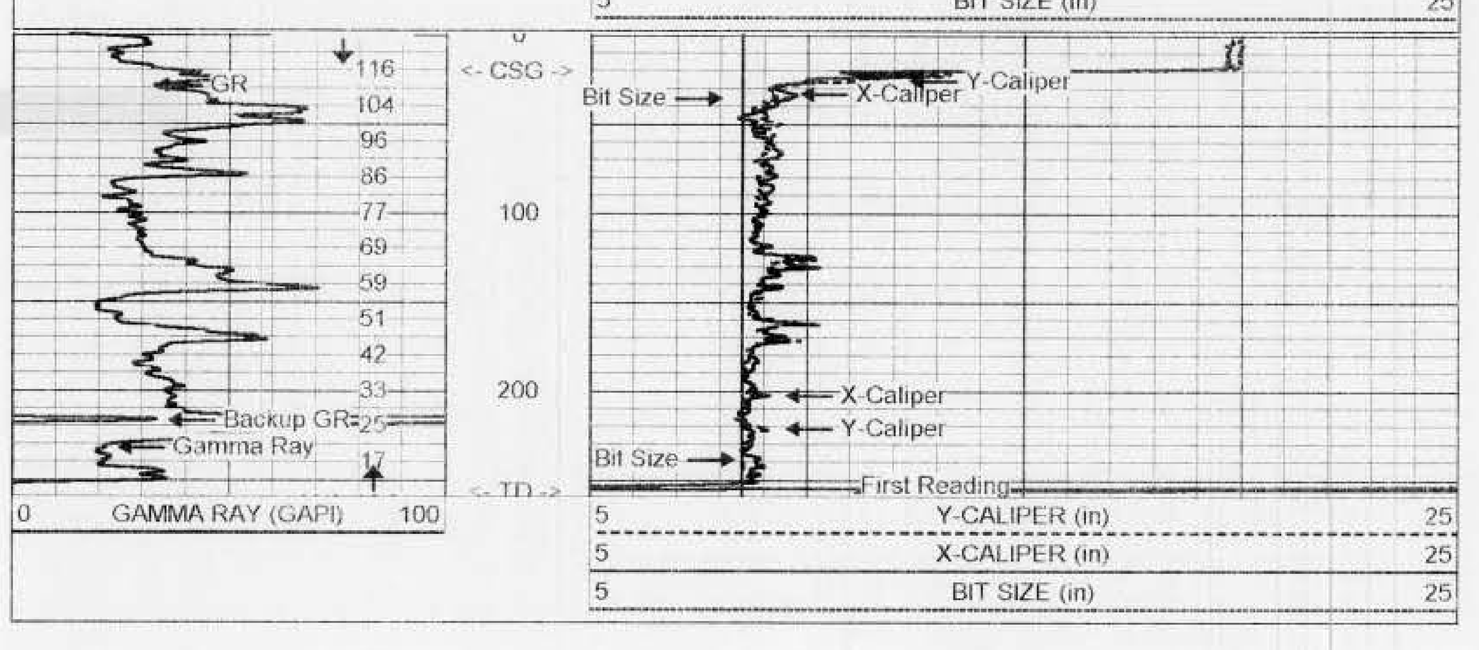
SEC 16 T46S R26E

Comments

MAIN PASS

MV Geophysical

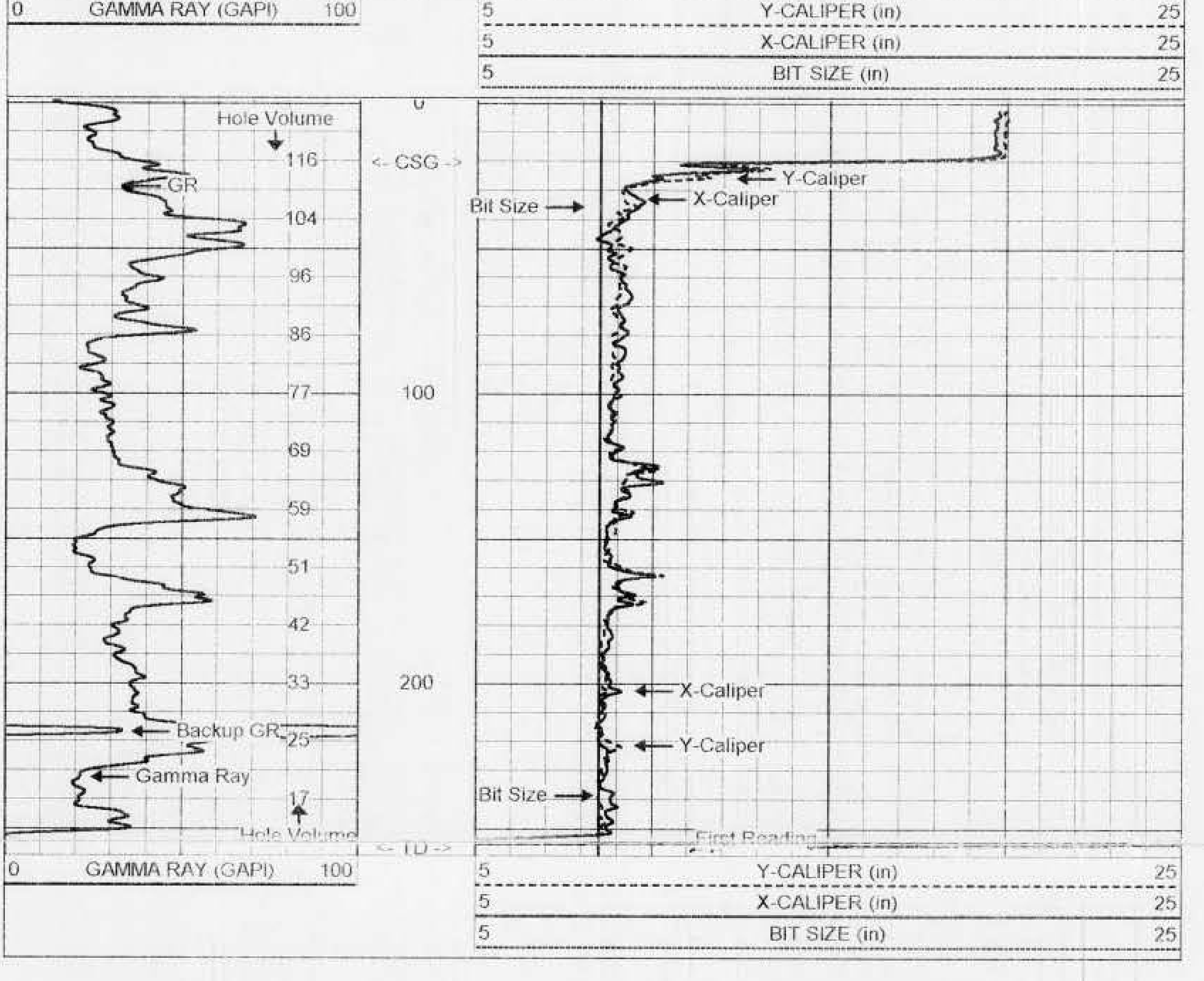
Database File: corks.db
Dataset Pathname: pass2
Presentation Format: xyc.prs
Dataset Creation: Tue May 18 14:03:12 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:1200



MAIN PASS

MV Geophysical

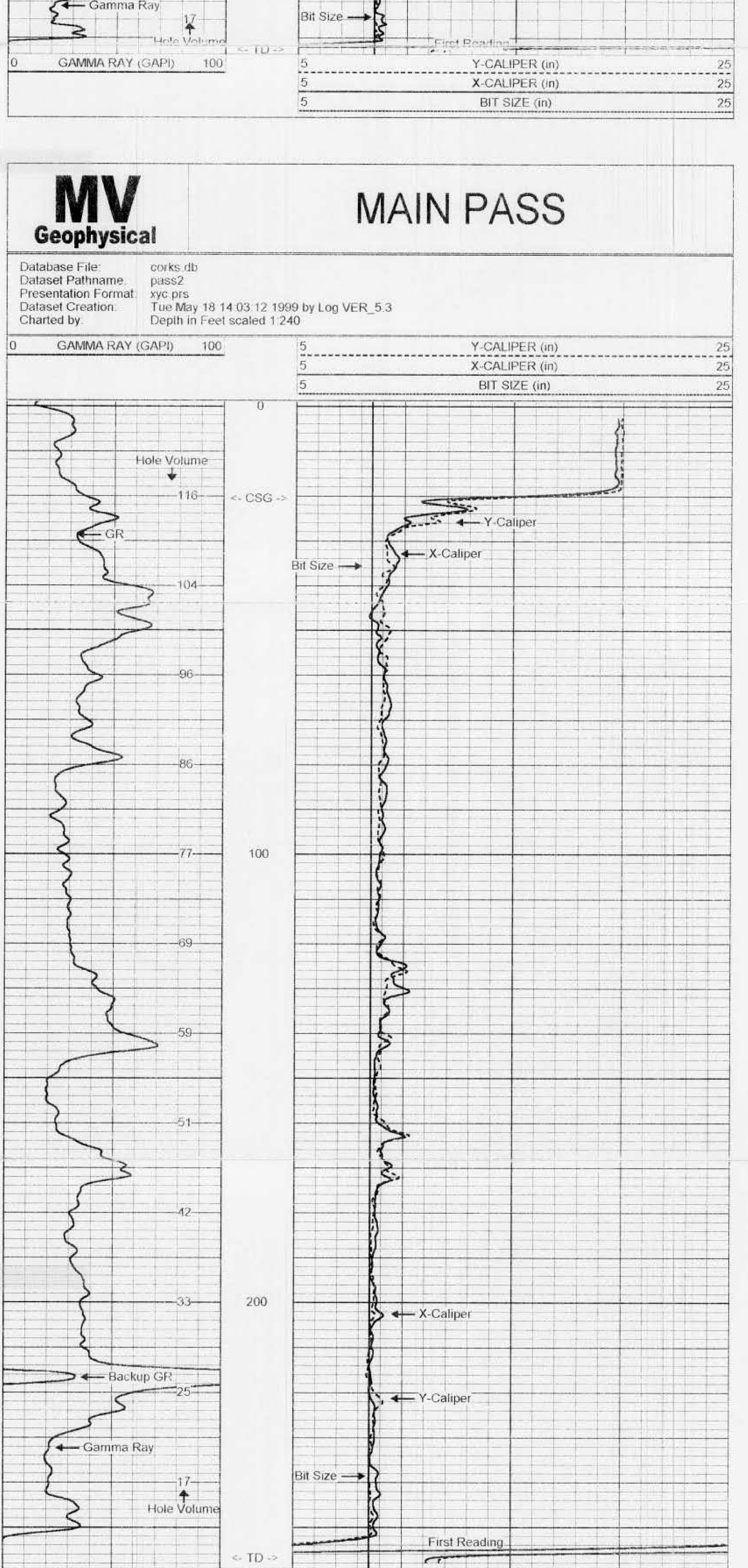
Database File: corks.db
Dataset Pathname: pass2
Presentation Format: xyc.prs
Dataset Creation: Tue May 18 14:03:12 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



MAIN PASS

MV Geophysical

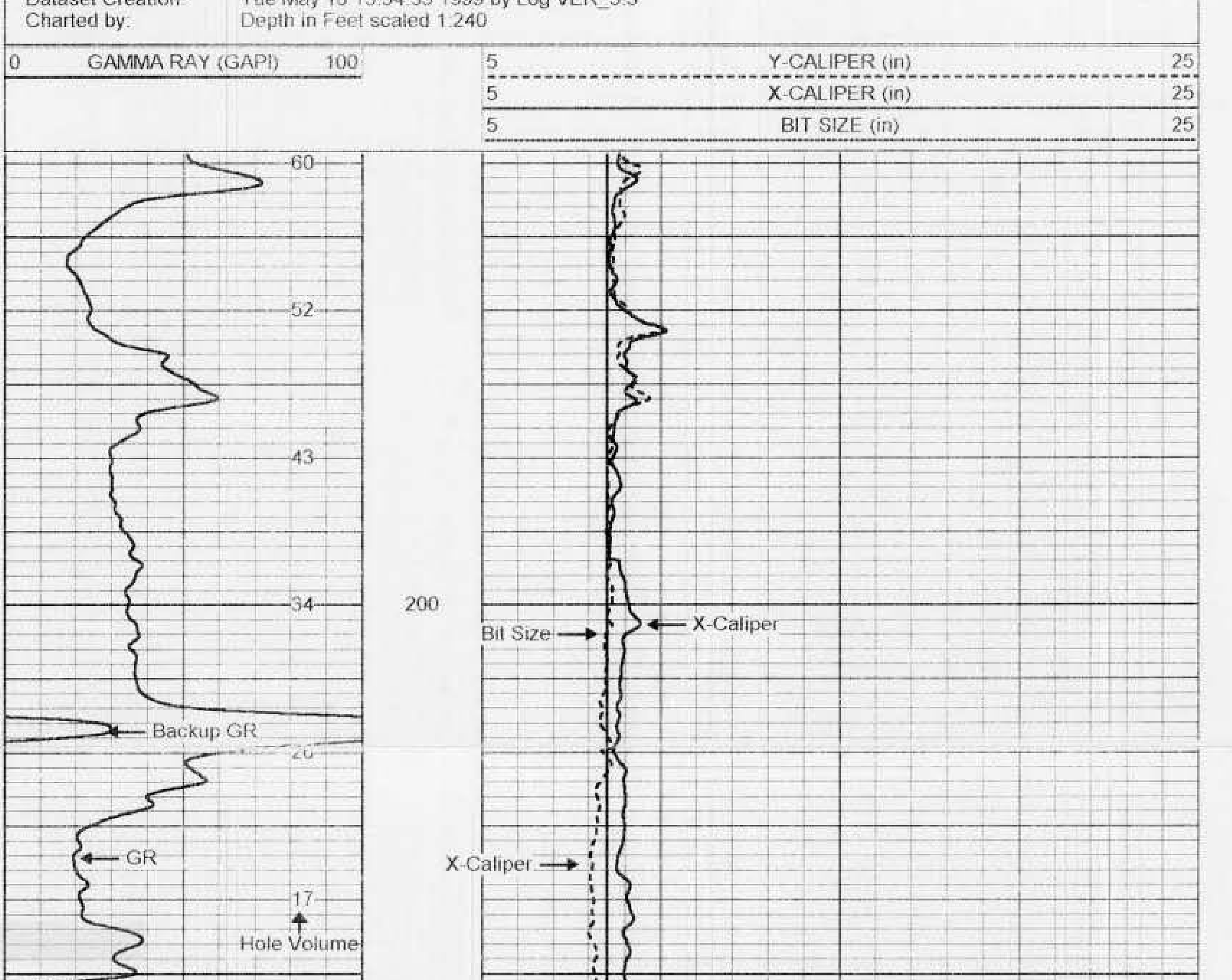
Database File: corks.db
Dataset Pathname: pass2
Presentation Format: xyc.prs
Dataset Creation: Tue May 18 14:03:12 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

MV Geophysical

Database File: corks.db
Dataset Pathname: pass1
Presentation Format: xyc.prs
Dataset Creation: Tue May 18 13:54:35 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

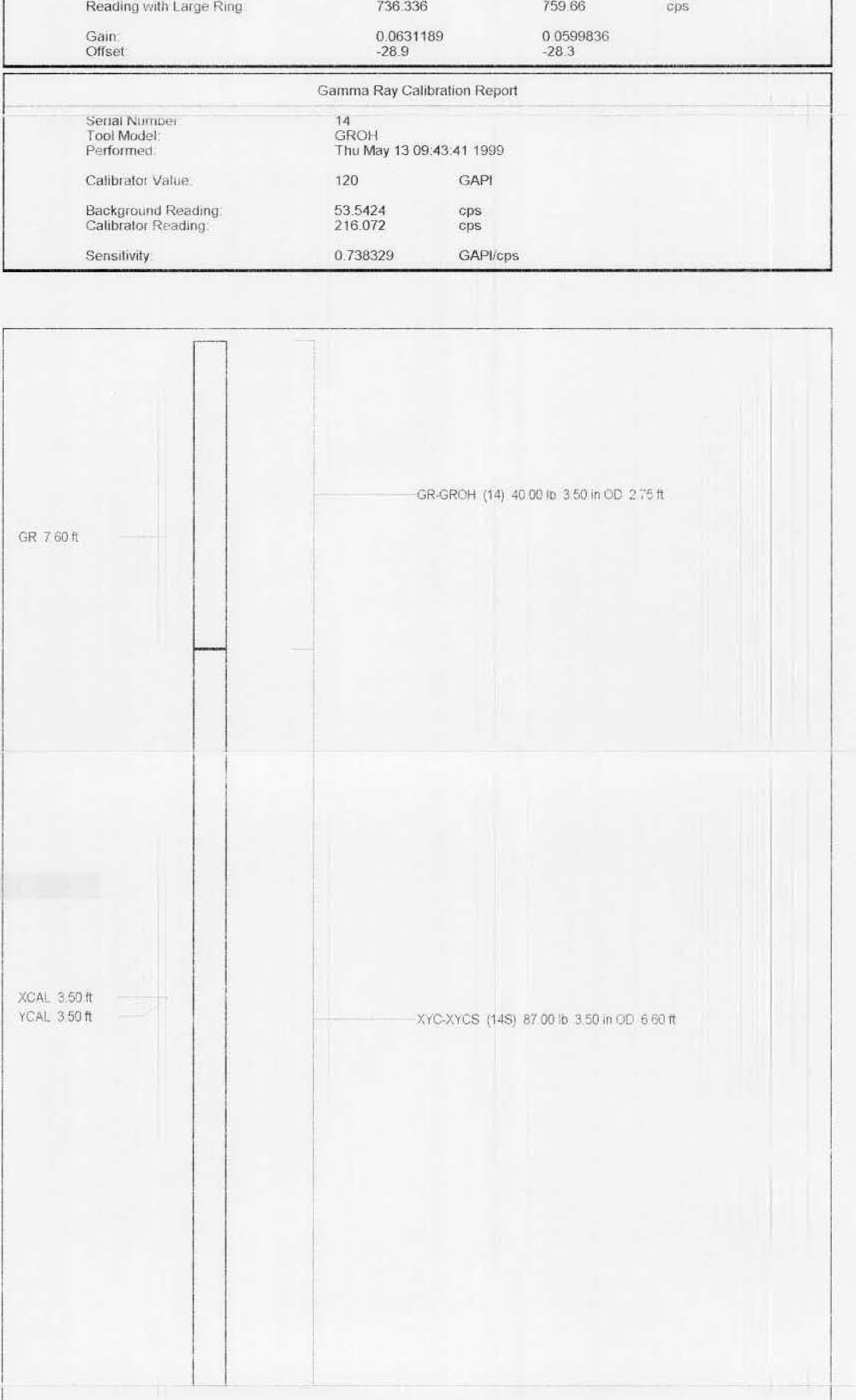


XY Caliper Calibration Report

Serial Number:	14S		
Tool Model:	XYCS		
Performed:	Mon May 17 18:43:25 1999		
Small Ring:	6.25	in	
Large Ring:	17.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	562.062	576.276	cps
Reading with Large Ring:	736.336	759.66	cps
Gain:	0.0631189	0.0599836	
Offset:	-28.9	-28.3	

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Thu May 13 09:43:41 1999	
Calibrator Value:	120	GAPI
Background Reading:	53.5424	cps
Calibrator Reading:	216.072	cps
Sensitivity:	0.738329	GAPI/cps



Dataset: run1/pass1
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D.: 3.50 in

MV Geophysical

DUAL INDUCTION LL3/SP LOG

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXPANSION
Country	LEE
State/Prv	FLORIDA
Location	SEC 16 T46S R26E
Other Services	DIL/LL3/SP

		Elevation	
Permanent Datum	G.L.	K.B.	
Log Measured From	G.L.	D.F.	
Drilling Measured From	G.L.	G.L.	

Date	18-MAY-99
Run Number	ONE
Depth Driller	257'
Depth Logger	257'
Bottom Logged Interval	254'
Top Log Interval	0'
Open Hole Size	8.5"
Type Fluid	MUD
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	14:00 5/15/99
Time Logger on Bottom	14:00 5/16/99
Equipment Number	MVGS-1
Location	FT. MYERS
Recorded By	MILLER/VINCENT
Witnessed by	F.PROCTA/B.HENSHAW D.RINGDAHL

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	257'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"		SURFACE	20.5'
Prot. String				
Production String				
Liner				

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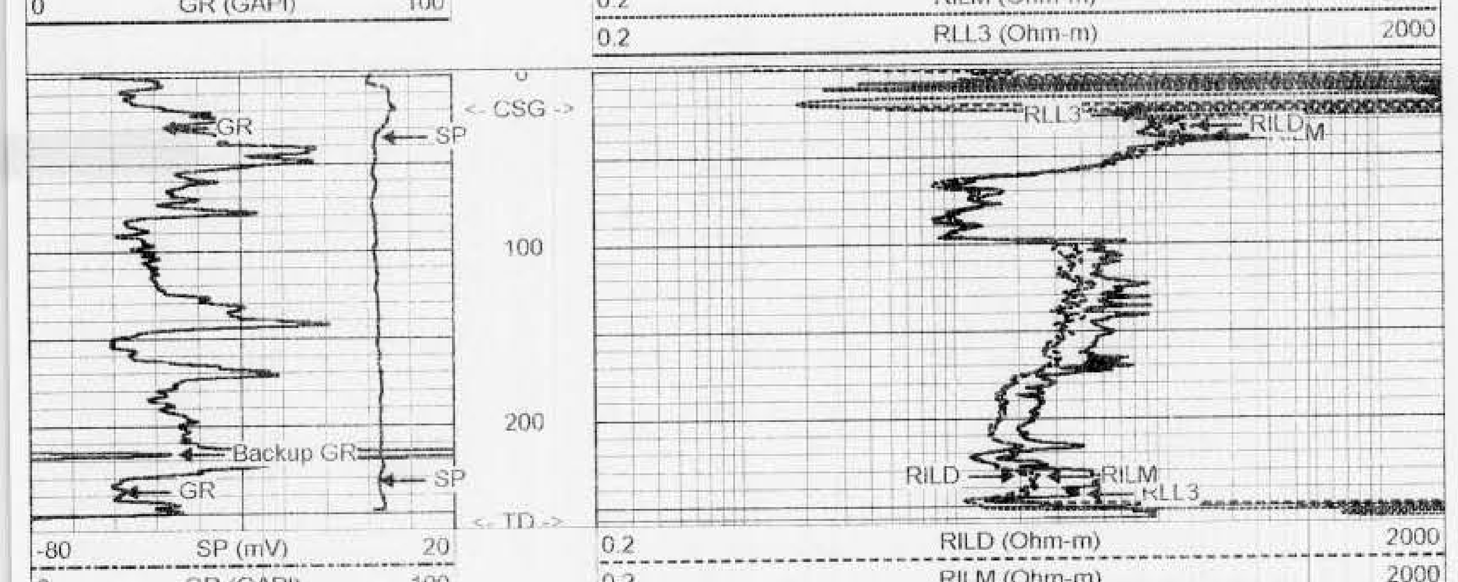
Comments

Rm=16.64 ohm-m @ 80.2 degF
RILD & RILM HAVE BEEN SONDE ERROR CORRECTED. RILD HAS HAD A SE=4.5 mmho/m APPLIED; RILM HAS HAD A SE=-9.5 mmho/m APPLIED.

MV Geophysical — MAIN PASS

Database File: corks.db
Dataset Pathname: pass4.8
Presentation Format: dil.prs
Dataset Creation: Tue May 18 16:41:40 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:1200

-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

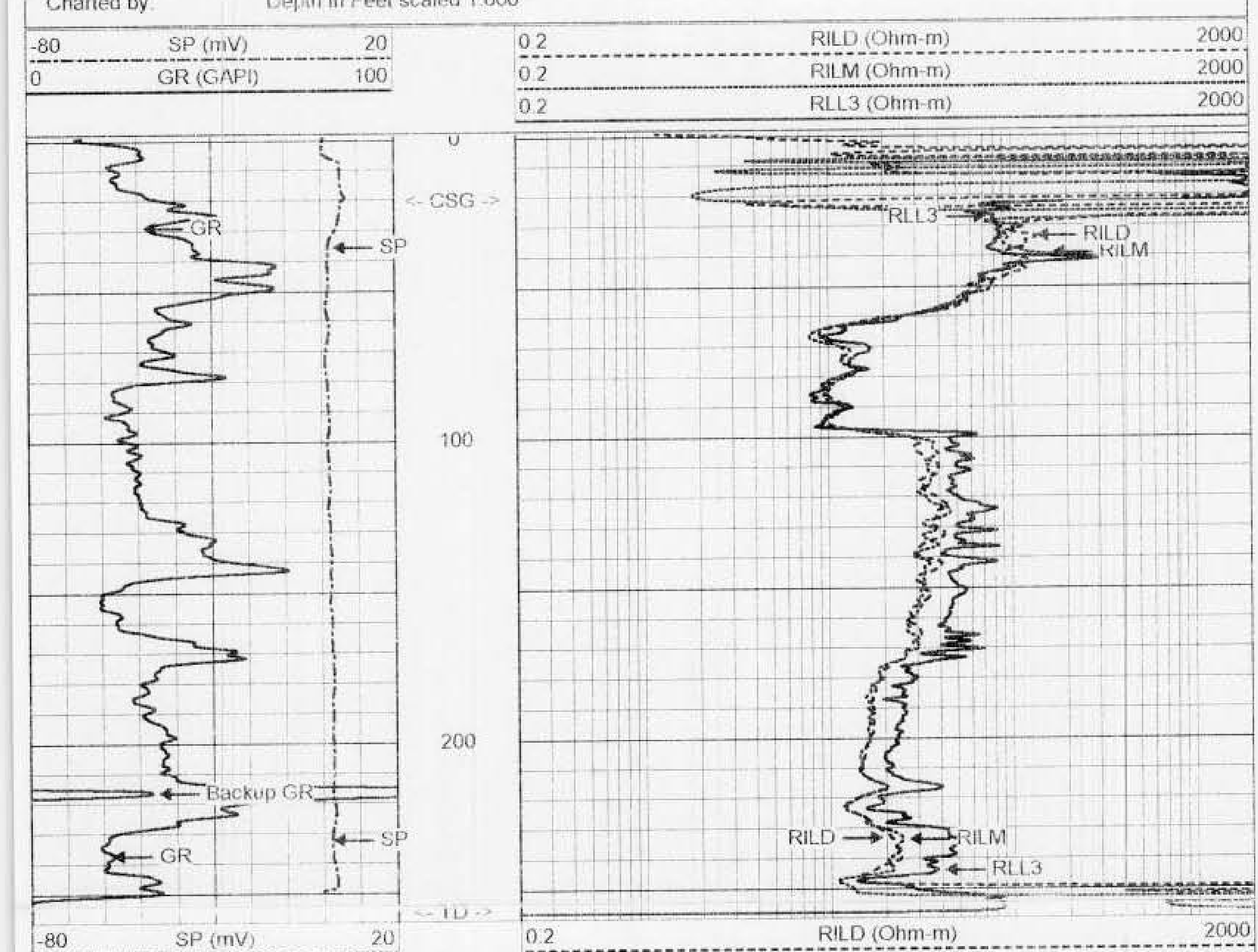


-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

MV Geophysical — MAIN PASS

Database File: corks.db
Dataset Pathname: pass4.8
Presentation Format: dil.prs
Dataset Creation: Tue May 18 16:41:40 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:600

-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

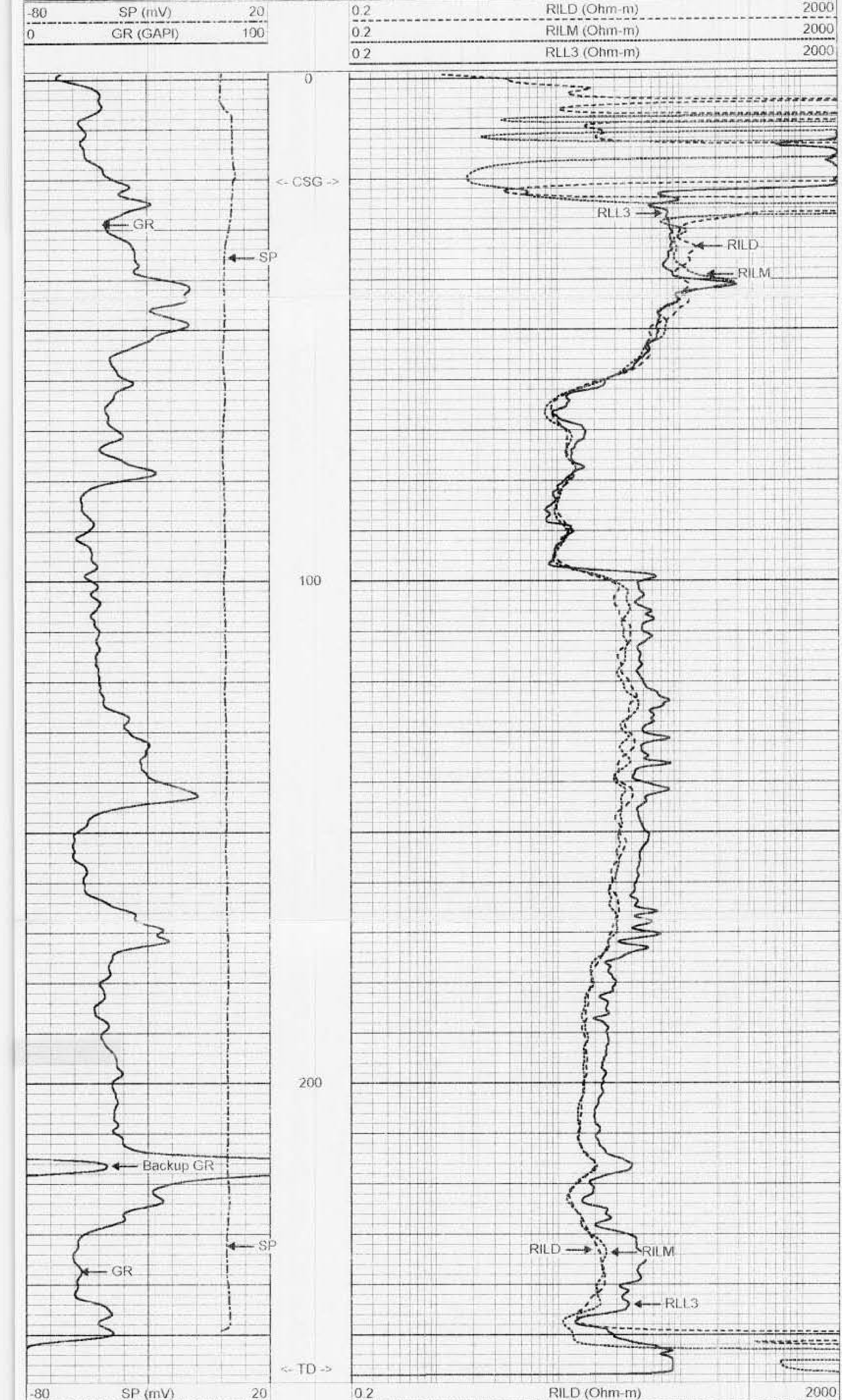


-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

MV Geophysical — MAIN PASS

Database File: corks.db
Dataset Pathname: pass4.8
Presentation Format: dil.prs
Dataset Creation: Tue May 18 16:41:40 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

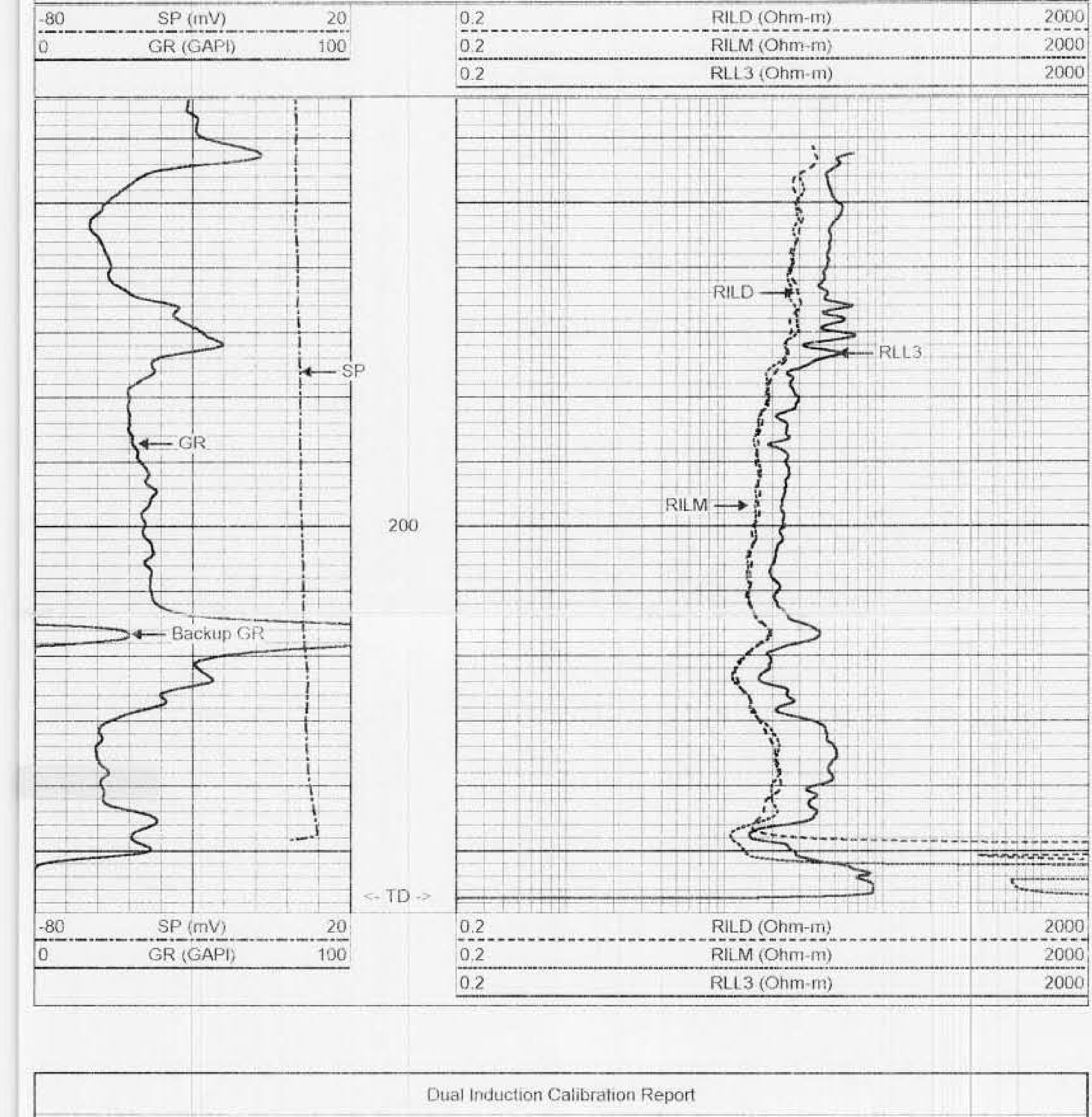


-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

MV Geophysical — REPEAT SECTION

Database File: corks.db
Dataset Pathname: pass3.1
Presentation Format: dil.prs
Dataset Creation: Tue May 18 16:43:38 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000



-80	SP (mV)	20	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Mon May 17 20:15:56 1999
Downhole Cal Performed: Tue May 18 14:23:41 1999
After Survey Verification Performed: Tue May 18 14:23:41 1999

Surface Calibration

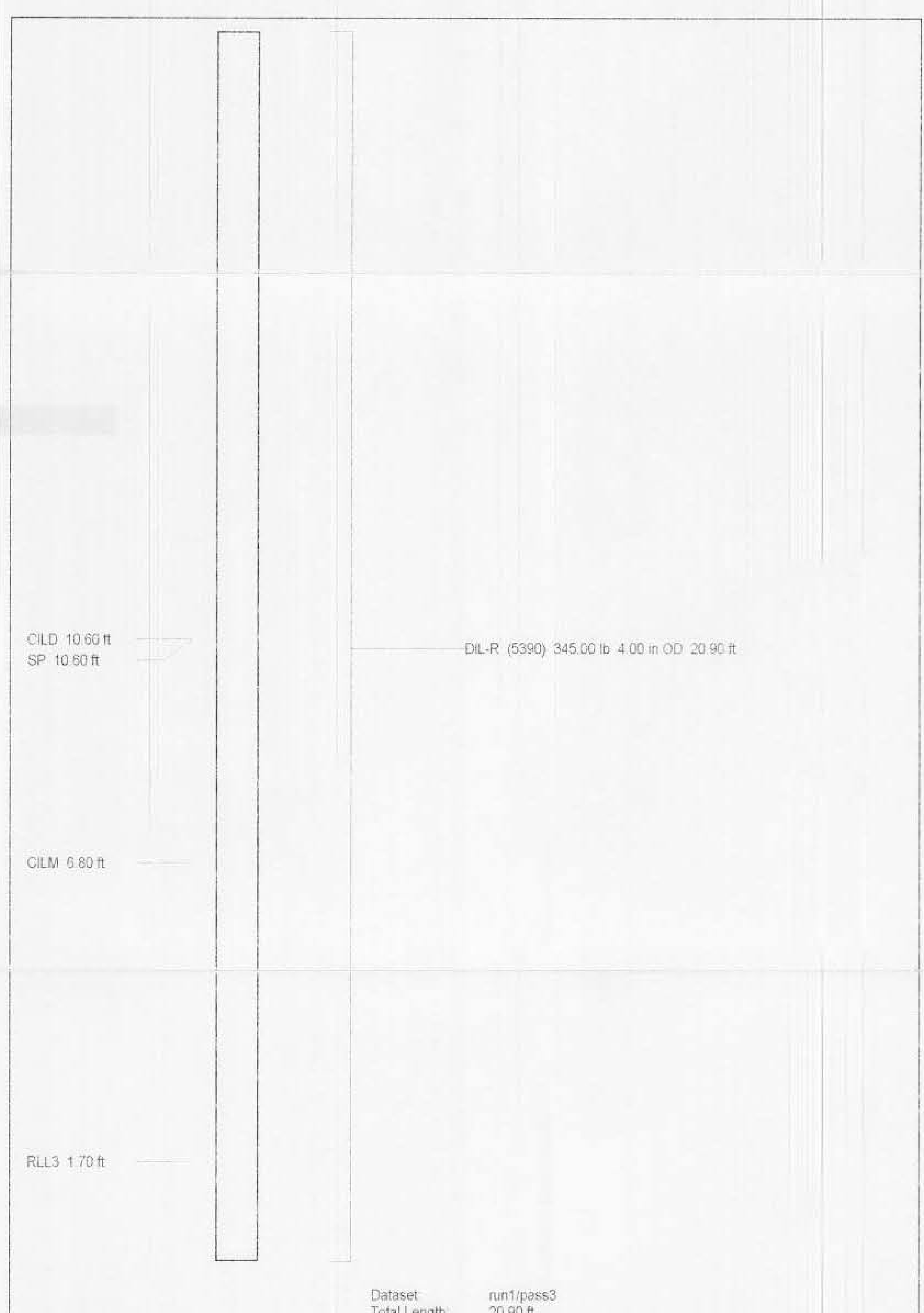
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.026	0.648	V	0.000	400.000	mmho-m	642.737	-16.563
Medium	0.038	0.754	V	0.000	464.000	mmho-m	648.202	-24.497
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.020	0.677	V	0.000	400.000	mmho-m	609.014	-12.229
Medium	0.023	0.778	V	0.000	464.000	mmho-m	614.536	-14.009

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	14.644	445.683	mmho-m	-3.656	418.493	mmho-m	0.979	-17.999
Medium	7.066	505.363	mmho-m	-9.721	479.699	mmho-m	0.982	-16.661
Shallow	2.560	0.101	V	505.000	2.000	Ohm-m	204.515	-18.641

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	14.644	445.683	mmho-m	0.979	-17.999
Medium	0.000	0.000	mmho-m	7.066	505.363	mmho-m	0.982	-16.661
Shallow	0.000	0.000	Ohm-m	505.000	2.000	Ohm-m	1.000	0.000



Dataset: run1/pass3
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D.: 4.00 in

MV Geophysical

X - Y CALIPER GAMMA RAY LOG

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXPANSION
Country	LEE
State/Prv	FLORIDA
Location	SEC 16 T46S R26E
Other Services	CIS (Totco)

		Elevation		Elevation
Permanent Datum	G.L.		K.B.	
Log Measured From	G.L.		D.F.	
Drilling Measured From	G.L.		G.L.	

Date	20-MAY-99
Run Number	TWO
Depth Driller	257'
Depth Logger	257'
Bottom Logged Interval	254'
Top Log Interval	0'
Open Hole Size	19"
Type Fluid	MUD
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	11:30 5/20/99
Time Logger on Bottom	11:30 5/20/99
Equipment Number	MVGS-1
Location	FT. MYERS
Recorded By	MILLER/VINCENT
Witnessed By	F.PROCTA/B.HENSHAW

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	257'				
TWO	19"						

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"		SURFACE	20.5'
Prot. String				
Production String				
Liner				

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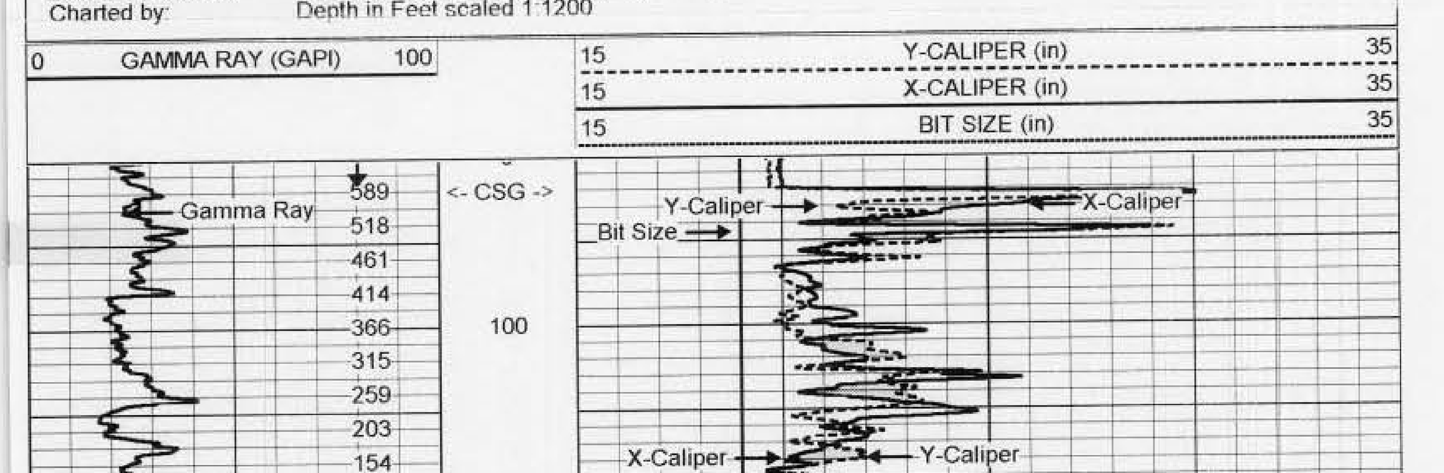
Comments

MV Geophysical — MAIN PASS

Database File:	corks.db
Dataset Pathname:	run2/pass2
Presentation Format:	xy1535.prs
Dataset Creation:	Thu May 20 12:27:48 1999 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:1200

0 GAMMA RAY (GAPI) 100

15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35



0 GAMMA RAY (GAPI) 100

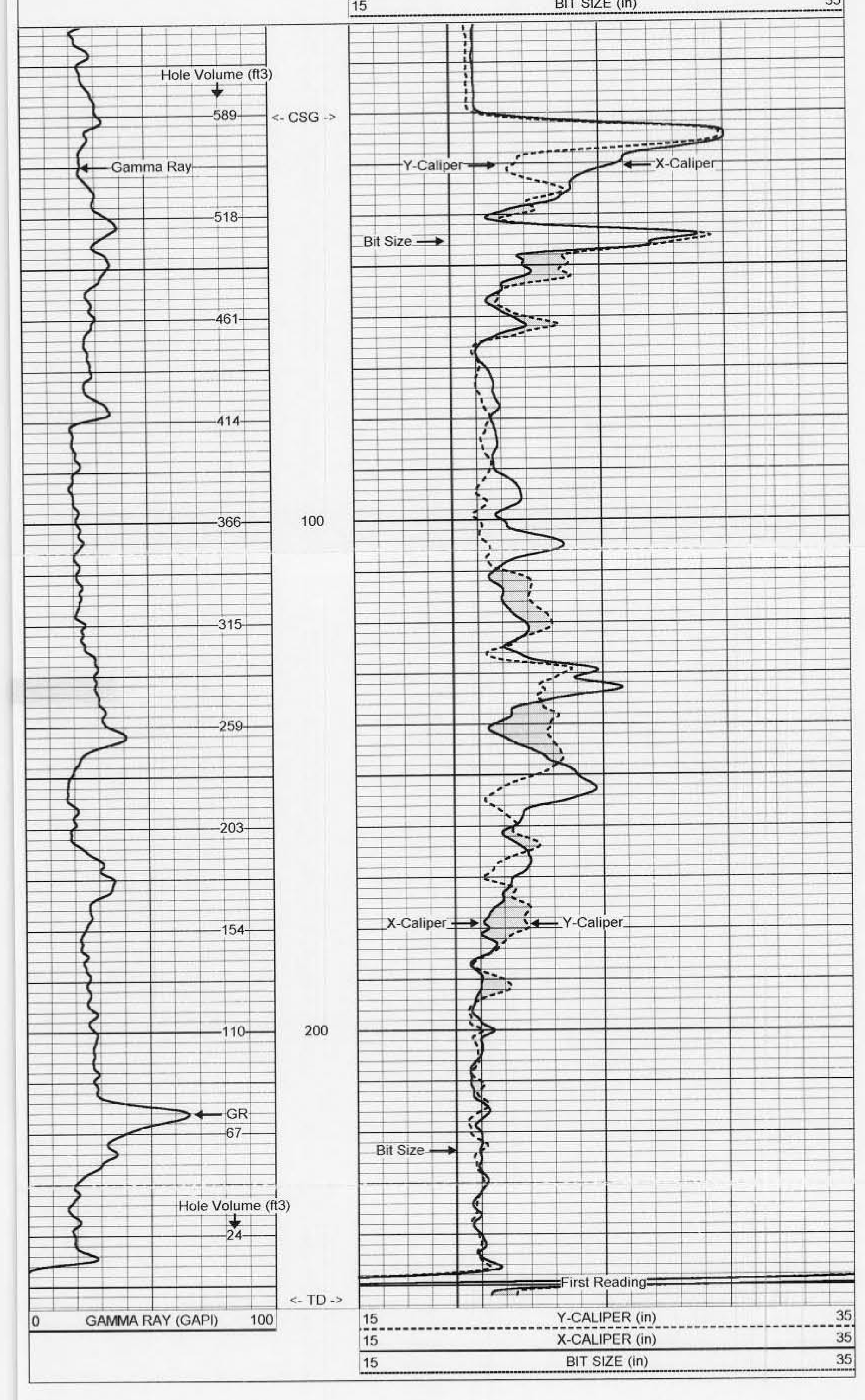
15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35

MV Geophysical — MAIN PASS

Database File:	corks.db
Dataset Pathname:	run2/pass2
Presentation Format:	xy1535.prs
Dataset Creation:	Thu May 20 12:27:48 1999 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100

15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35



0 GAMMA RAY (GAPI) 100

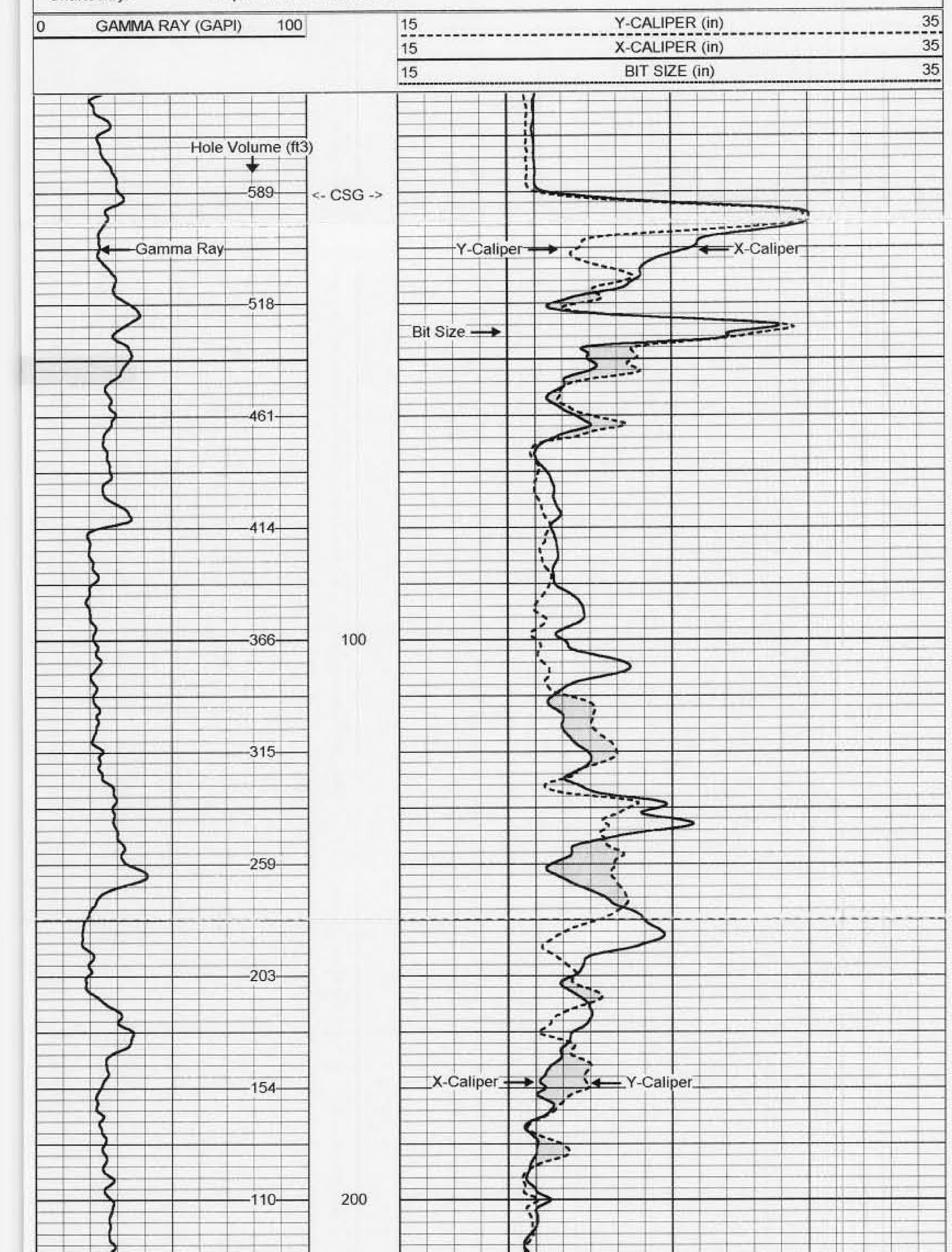
15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35

MV Geophysical — MAIN PASS

Database File:	corks.db
Dataset Pathname:	run2/pass2
Presentation Format:	xy1535.prs
Dataset Creation:	Thu May 20 12:27:48 1999 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100

15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35



0 GAMMA RAY (GAPI) 100

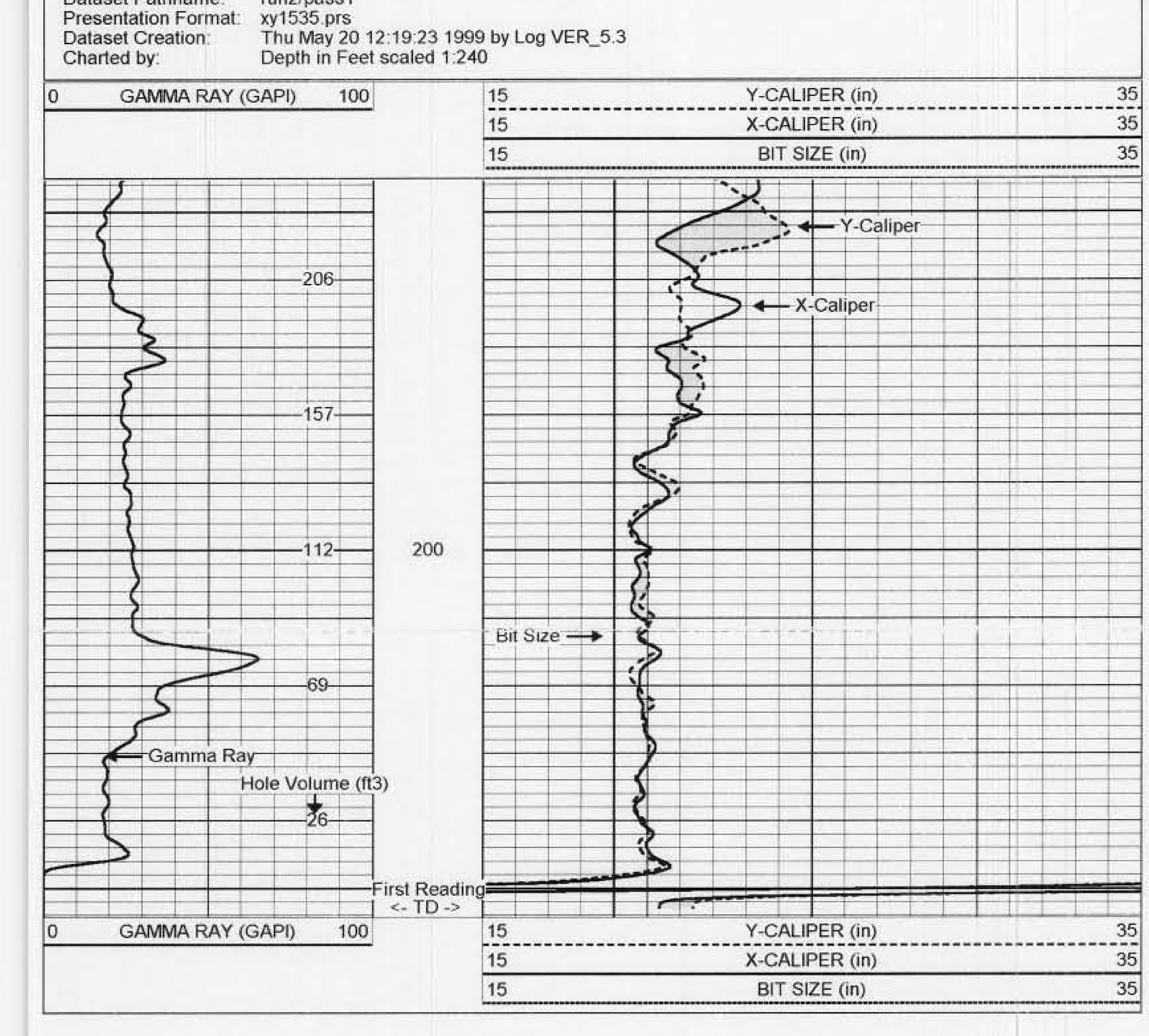
15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35

MV Geophysical — REPEAT SECTION

Database File:	corks.db
Dataset Pathname:	run2/pass1
Presentation Format:	xy1535.prs
Dataset Creation:	Thu May 20 12:19:23 1999 by Log VER_5.3
Charted by:	Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 100

15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35



0 GAMMA RAY (GAPI) 100

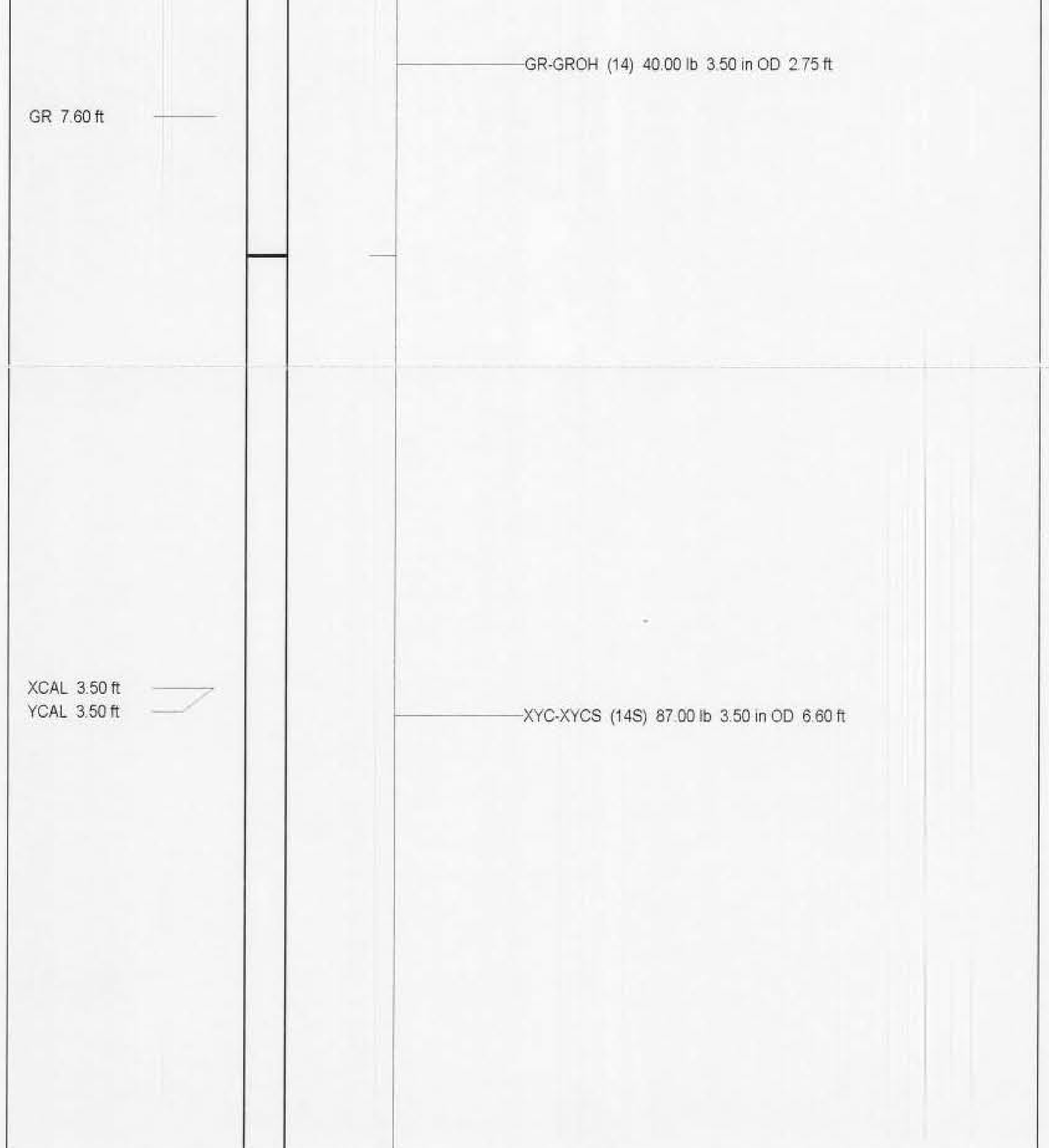
15 Y-CALIPER (in) 35
15 X-CALIPER (in) 35
15 BIT SIZE (in) 35

XY Caliper Calibration Report

Serial Number:	14S		
Tool Model:	XYCS		
Performed:	Thu May 20 08:33:53 1999		
Small Ring:	17.25	in	
Large Ring:	29.75	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	723.724	739.239	cps
Reading with Large Ring:	968.969	996.897	cps
Gain:	0.0509694	0.048514	
Offset:	-19.6377	-18.6134	

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Thu May 13 09:43:41 1999	
Calibrator Value:	120	GAPI
Background Reading:	53.5424	cps
Calibrator Reading:	216.072	cps
Sensitivity:	0.738329	GAPI/cps



Dataset:	run2/pass1
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

MV Geophysical

TEMPERATURE - GAMMA RAY CEMENT TOP LOG

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXPANSION
Country	LEE
State/Prv	FLORIDA
Location	SEC 16 T46S R26E
Other Services	(NONE)

		Elevation	Elevation
Permanent Datum	G.L.		K.B.
Log Measured From	G.L.		D.F.
Drilling Measured From	G.L.		G.L.

Date	21-MAY-99
Run Number	Three
Depth Driller	257'
Depth Logger	257'
Bottom Logged Interval	254'
Top Log Interval	0'
Open Hole Size	19"
Type Fluid	MUD
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	07:30 5/21/99
Time Logger on Bottom	07:30 5/21/99
Equipment Number	MVGS-1
Location	FT. MYERS
Recorded By	MILLER/VINCENT
Witnessed By	F.PROCTA/B.HENSHAW

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	257'				
TWO	19"	CSG	254'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"		SURFACE	20.5'
Prot. String				
Production String				
Liner				

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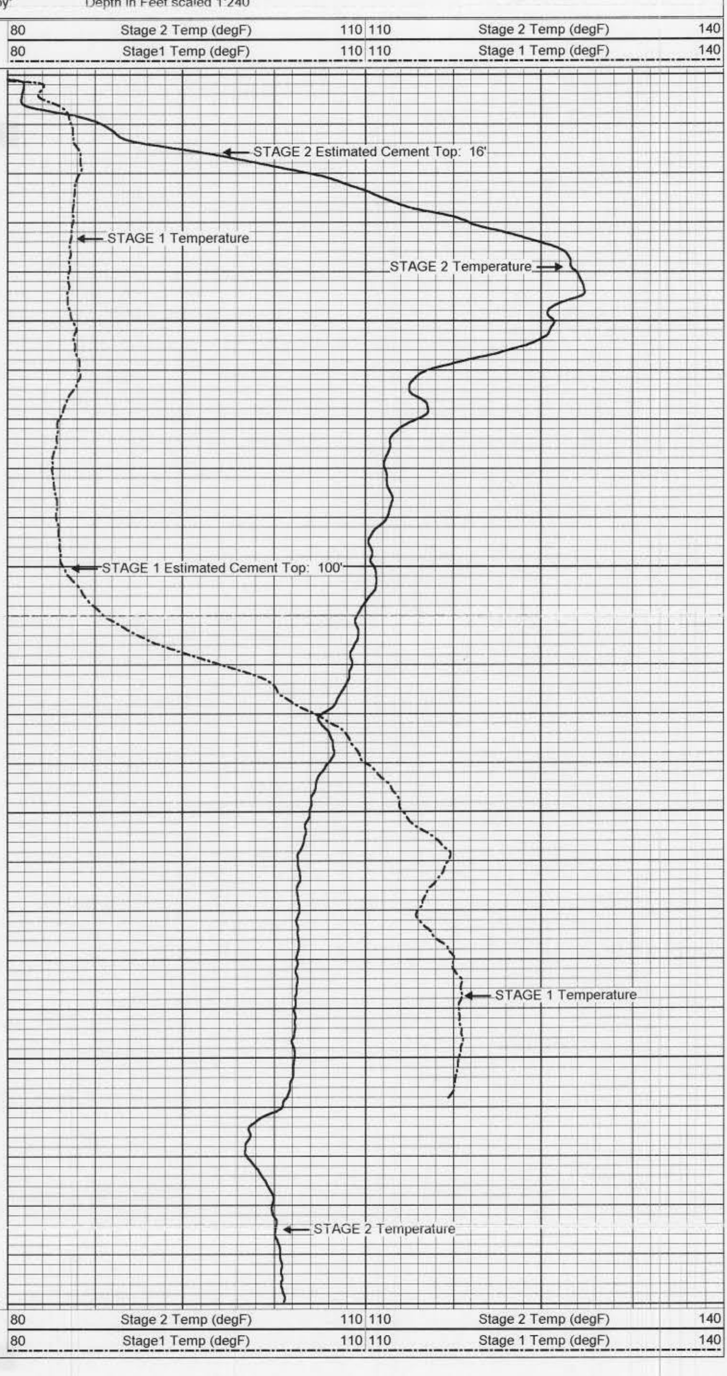
Comments

Temperature data gathered logging down.
Estimated Cement Top Stage 1: 100'
Estimated Cement Top Stage 2: 16'
Pass 5, Stage 1, had the heavy mud pumped out of hole so temperature/gamma ray probe would fall to bottom.

MV Geophysical

MERGED CTL

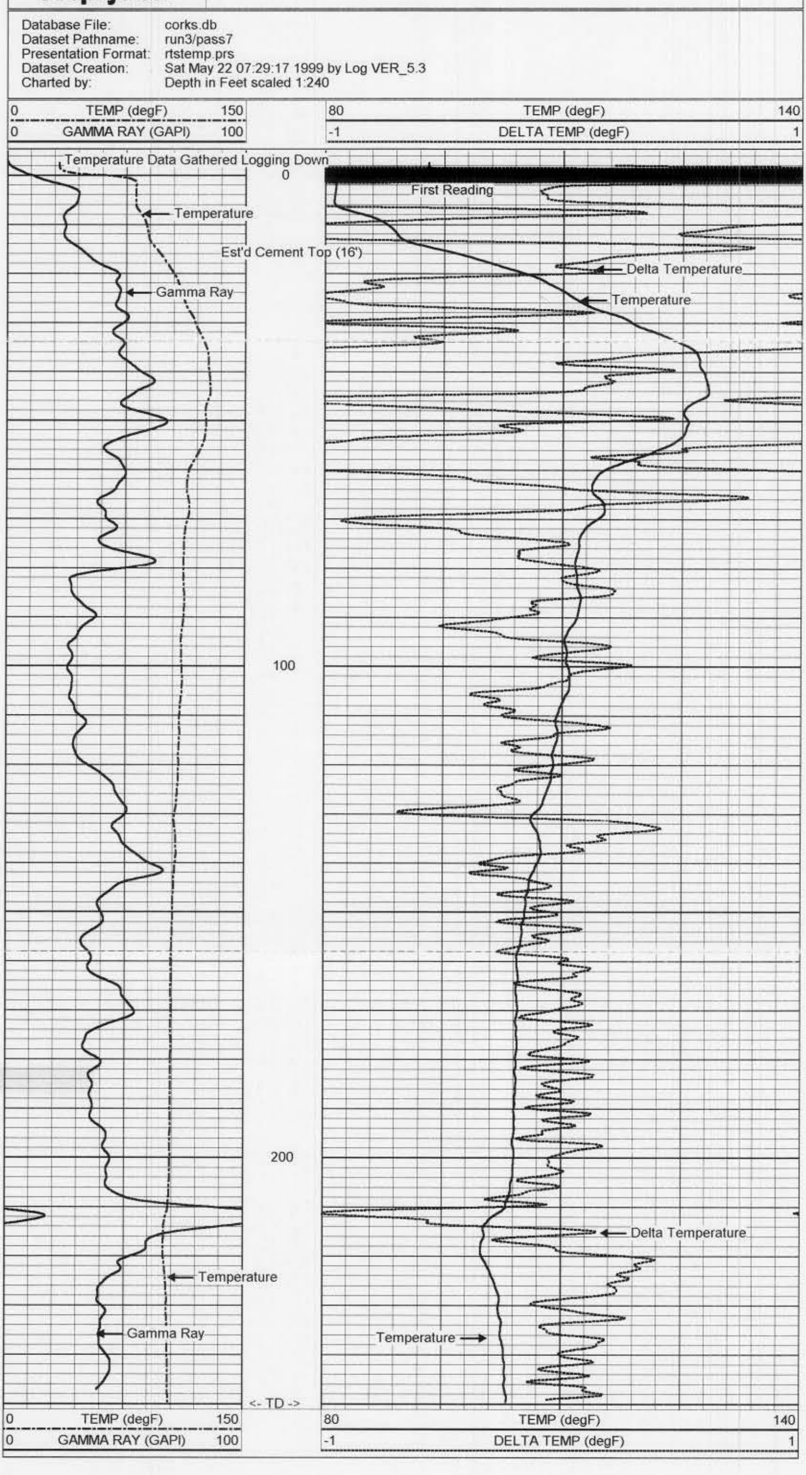
Database File: corks.db
Dataset Pathname: run3/merge
Presentation Format: ctltmrg.prs
Dataset Creation: Mon May 24 14:26:53 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

STAGE TWO

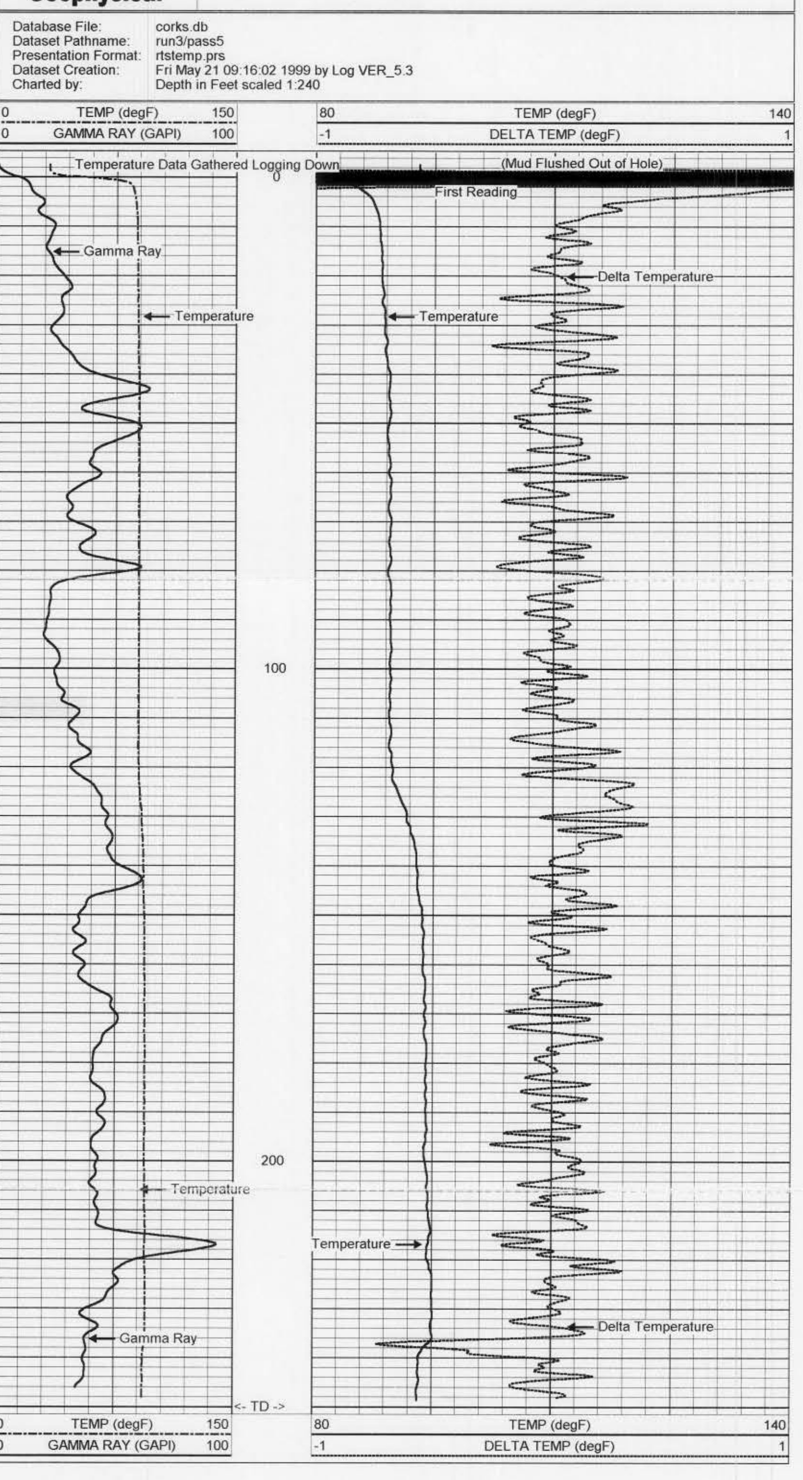
Database File: corks.db
Dataset Pathname: run3/pass7
Presentation Format: rtstemp.prs
Dataset Creation: Sat May 22 07:29:17 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

Stage One Repeat

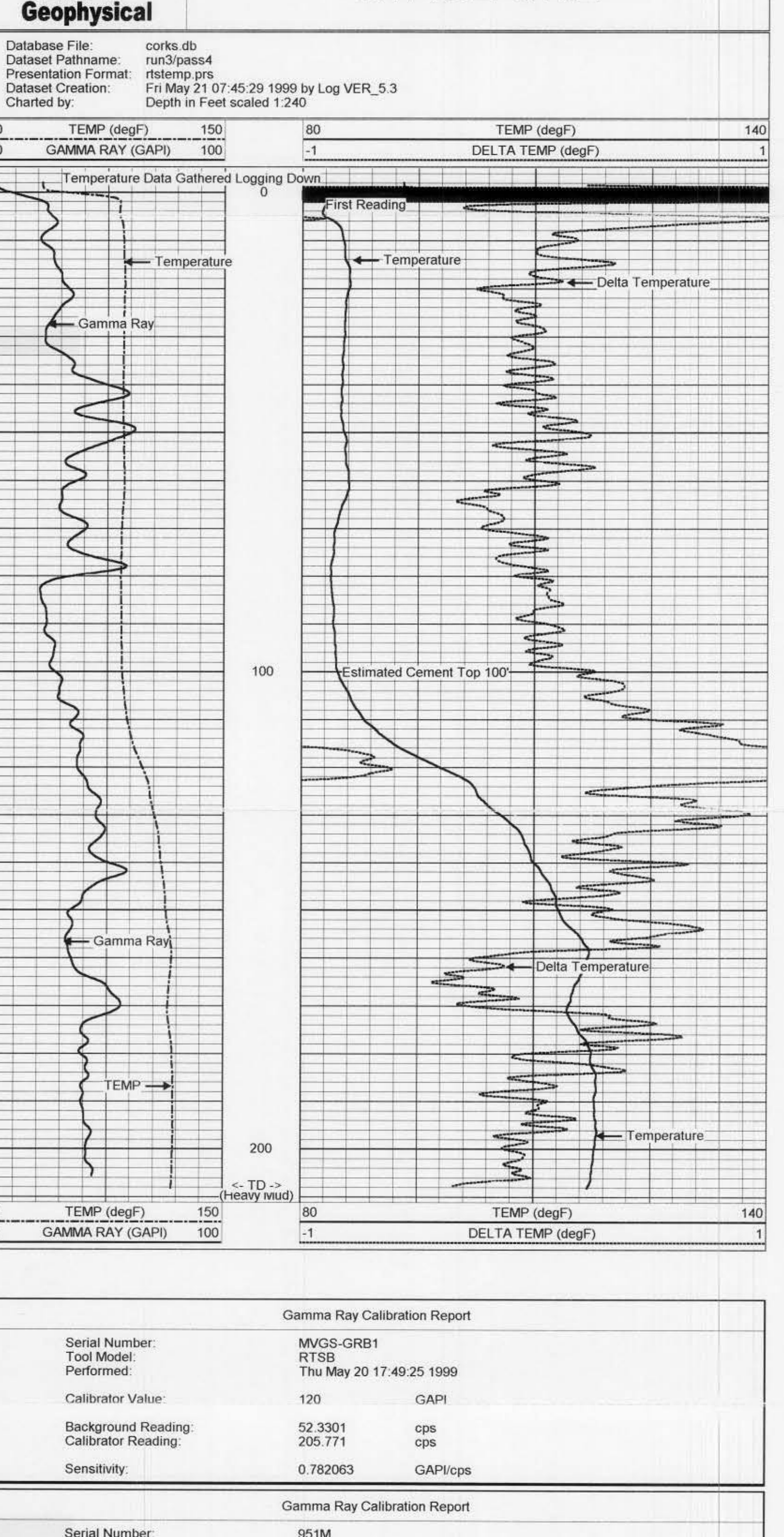
Database File: corks.db
Dataset Pathname: run3/pass5
Presentation Format: rtstemp.prs
Dataset Creation: Fri May 21 09:16:02 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical

STAGE ONE

Database File: corks.db
Dataset Pathname: run3/pass4
Presentation Format: rtstemp.prs
Dataset Creation: Fri May 21 07:45:29 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



Gamma Ray Calibration Report

Serial Number:	MVGS-GRB1	
Tool Model:	RTSB	
Performed:	Thu May 20 17:49:25 1999	
Calibrator Value:	120	GAPI
Background Reading:	52.3301	cps
Calibrator Reading:	205.771	cps
Sensitivity:	0.782063	GAPI/cps

Gamma Ray Calibration Report

Serial Number:	951M	
Tool Model:	RTSM	
Performed:	Mon Apr 26 22:47:24 1999	
Calibrator Value:	120	GAPI
Background Reading:	60.0489	cps
Calibrator Reading:	251.529	cps
Sensitivity:	0.626696	GAPI/cps

Gamma Ray Calibration Report

Serial Number:	951T	
Tool Model:	RTST	
Performed:	Thu Apr 29 11:07:20 1999	
Calibrator Value:	120	GAPI
Background Reading:	50.5394	cps
Calibrator Reading:	240.327	cps
Sensitivity:	0.632286	GAPI/cps

GEOPHYSICAL LOGS ASR-5

OPEN HOLE: CALIPER, GAMMA, INDUCTION, FLOW

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

MV Geophysical

X - Y CALIPER GAMMA RAY LOG

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXPANSION
Country	LEE
State/Prv	FLORIDA
Location	SEC 16 T46S R26E
Other Services	DIL/LL3/SP FLOWMETER

		Elevation	Elevation
Permanent Datum	G.L.		K.B.
Log Measured From	G.L.		D.F.
Drilling Measured From	G.L.		G.L.

Date	23-JUNE-99
Run Number	FOUR
Depth Driller	329'
Depth Logger	329' **
Bottom Logged Interval	326'
Top Log Interval	240'
Open Hole Size	10.625"
Type Fluid	WATER
Density / Viscosity	NA/NA
Max. Recorded Temp.	80.4 degF
Estimated Cement Top	NA
Time Well Ready	07:30 6/23/99
Time Logger on Bottom	08:30 6/23/99
Equipment Number	MVGS-1
Location	FT MYERS
Recorded By	MILLER/VINCENT
Witnessed By	M.WEINBERG/F.PROCTA D.RINGDAHL

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	257'				
TWO	19"						
THREE	10.625"	CSG (253')	329'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"		SURFACE	20.5'
Prot. String	12" PVC	Schedule 80	SURFACE	253'
Production String				252' LOGGER
Liner				
Invoice No.	99033			* FINAL PRINT *

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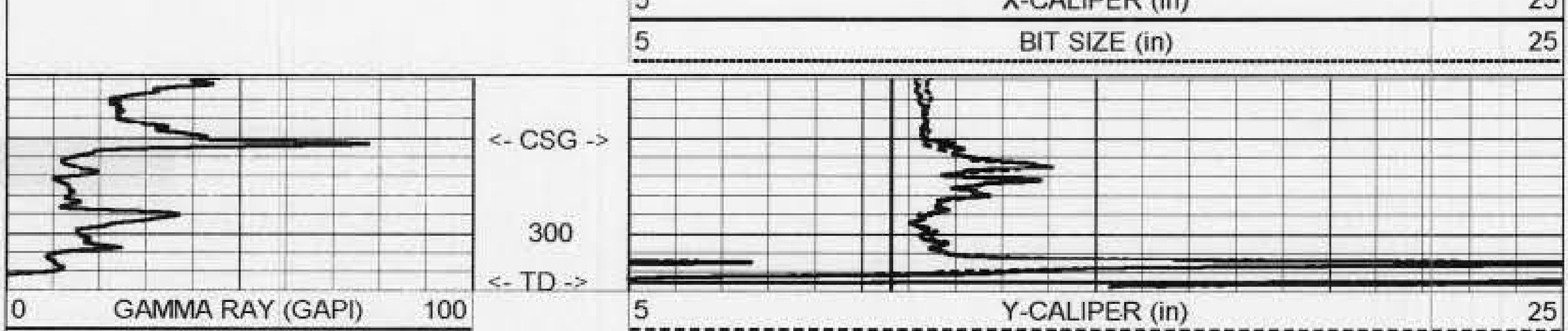
Comments

Rm=15.65 ohm-m @ 80.4 degF

** LOST 3' OF HOLE TO FILL BETWEEN REPEAT AND MAIN PASS.

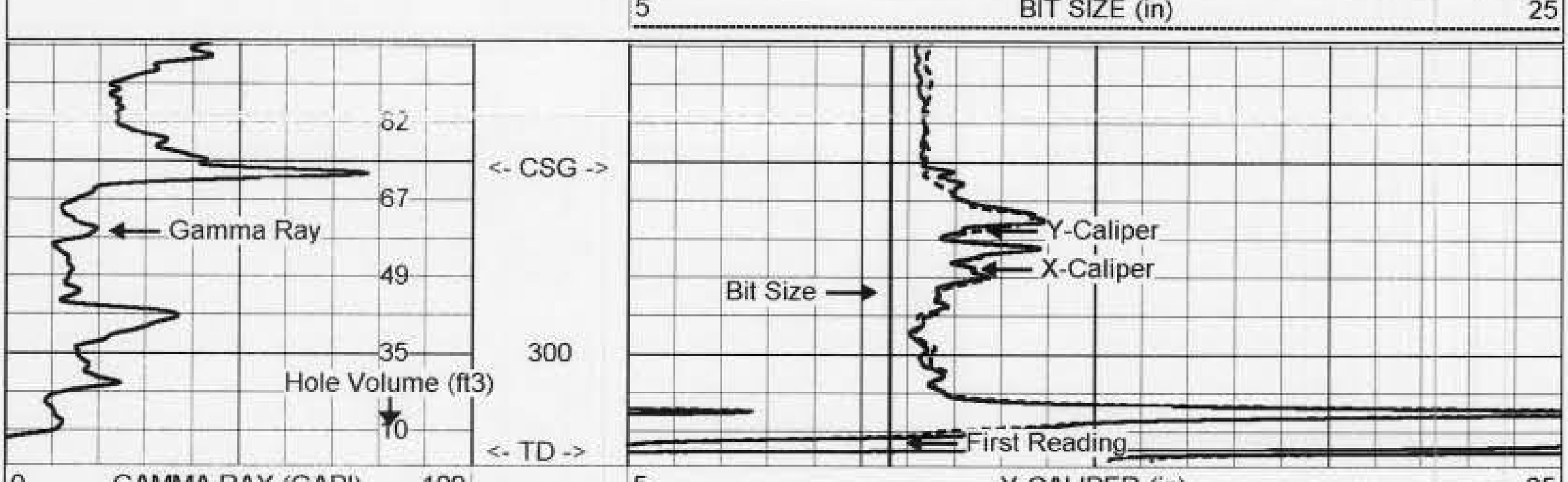
MV Geophysical — MAIN PASS

Database File:	corks.db
Dataset Pathname:	run4/pass2.1
Presentation Format:	xy525-1.prs
Dataset Creation:	Wed Jul 07 07:54:42 1999 by Calc VER_5.3
Charted by:	Depth in Feet scaled 1:1200



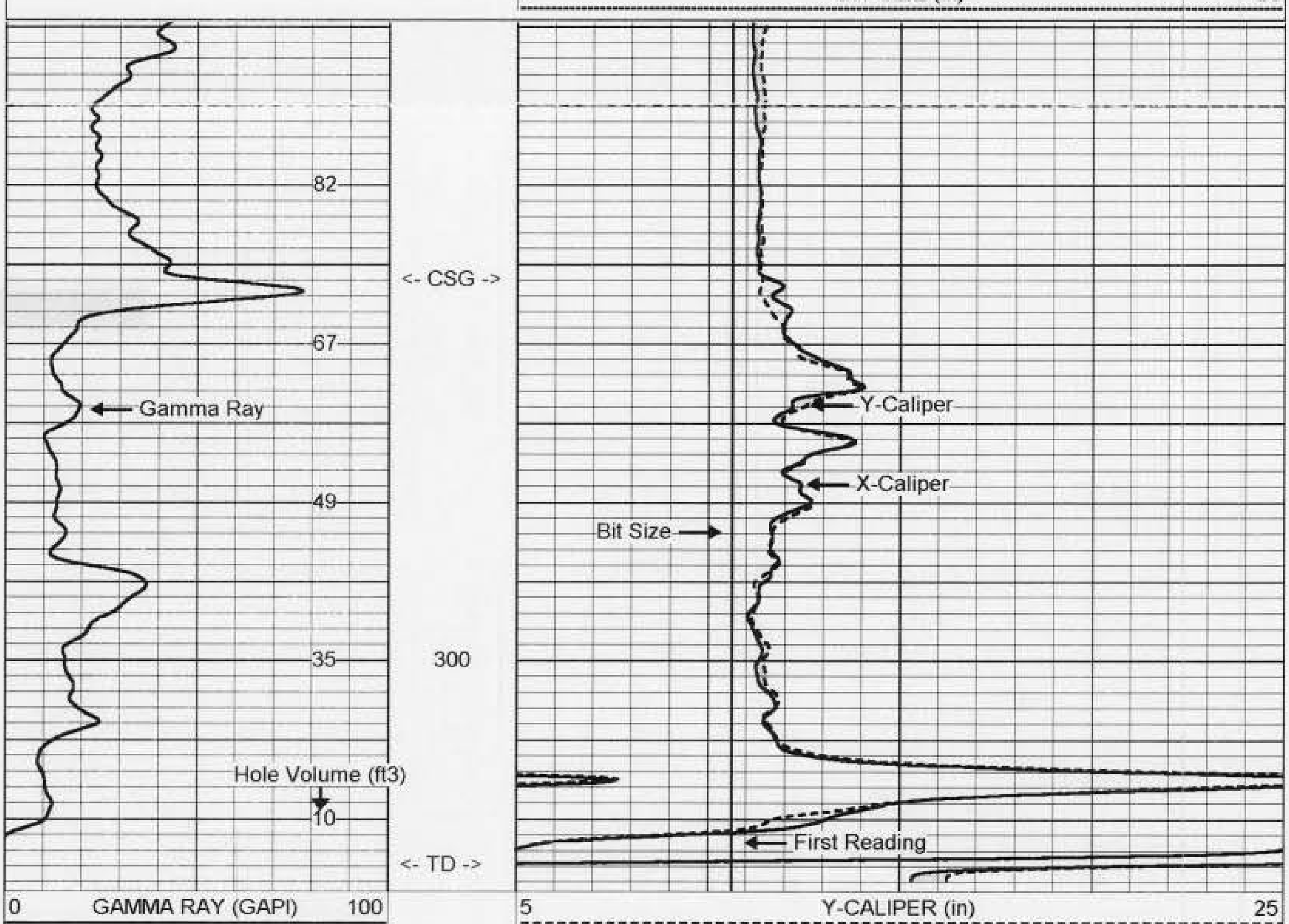
MV Geophysical — MAIN PASS

Database File:	corks.db
Dataset Pathname:	run4/pass2.1
Presentation Format:	xy525-5.prs
Dataset Creation:	Wed Jul 07 07:54:42 1999 by Calc VER_5.3
Charted by:	Depth in Feet scaled 1:600



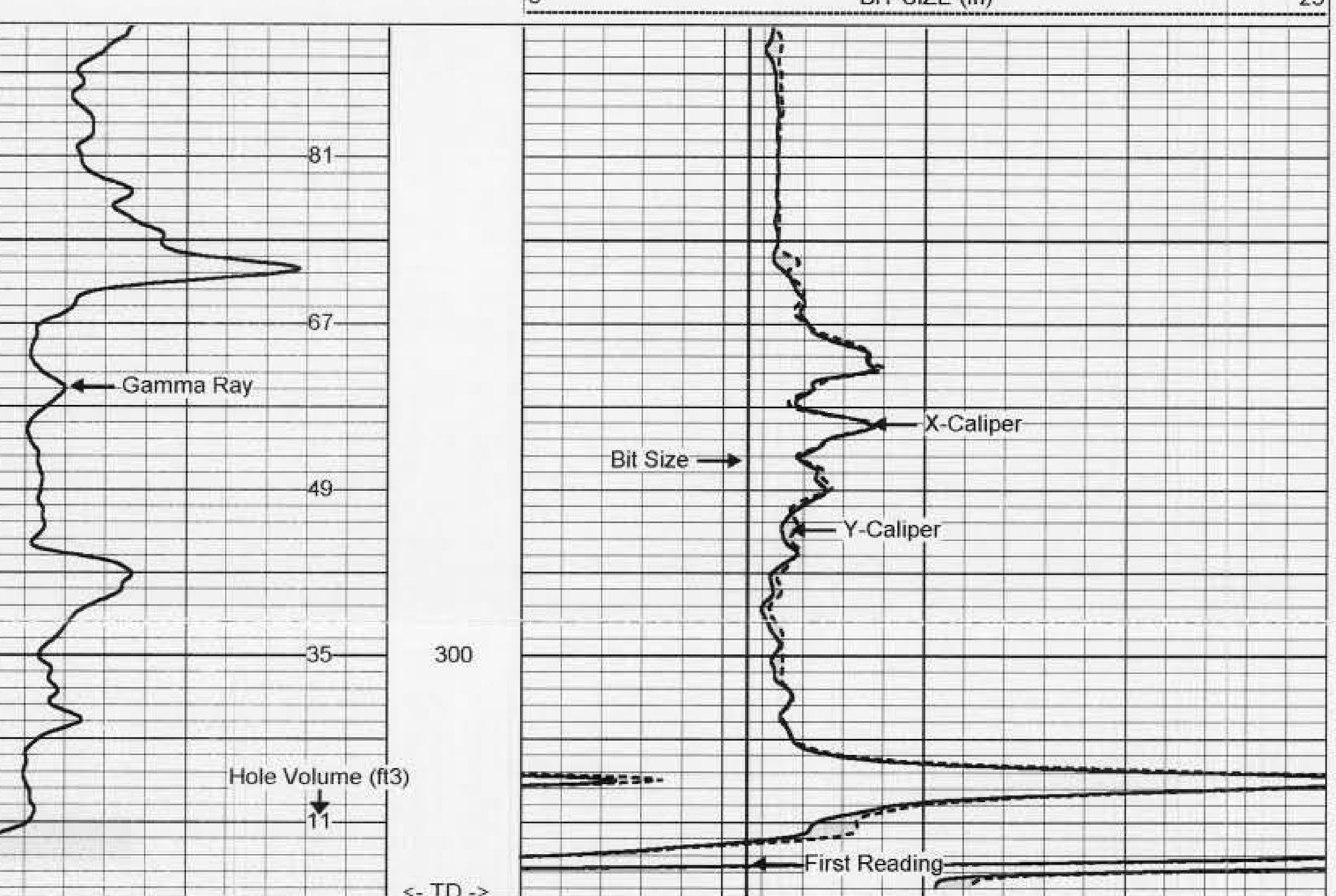
MV Geophysical — MAIN PASS

Database File:	corks.db
Dataset Pathname:	run4/pass2.1
Presentation Format:	xy525-5.prs
Dataset Creation:	Wed Jul 07 07:54:42 1999 by Calc VER_5.3
Charted by:	Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File:	corks.db
Dataset Pathname:	run4/pass1.2
Presentation Format:	xy525-5.prs
Dataset Creation:	Wed Jul 07 07:52:14 1999 by Calc VER_5.3
Charted by:	Depth in Feet scaled 1:240

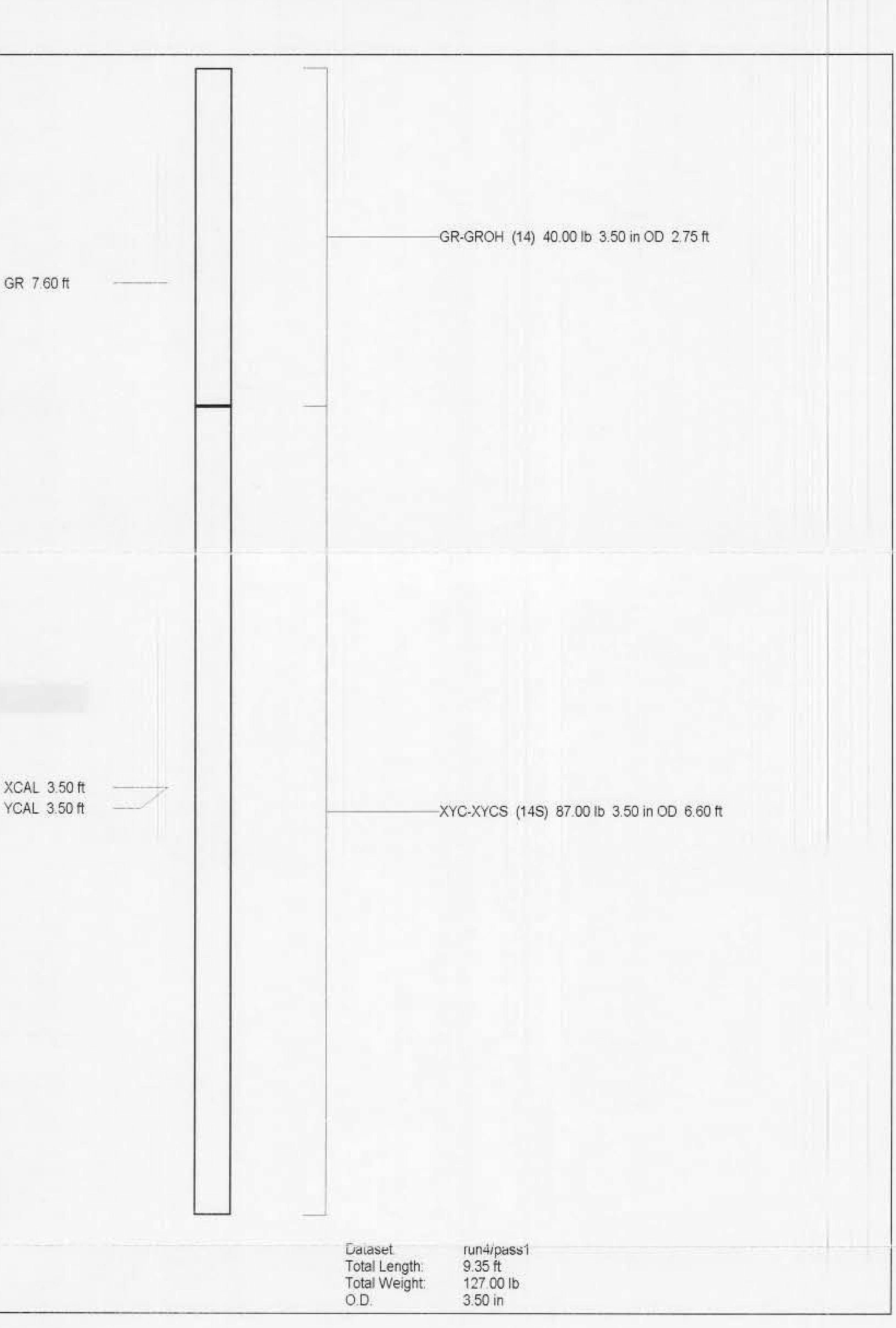


XY Caliper Calibration Report

Serial Number:	14S		
Tool Model:	XYCS		
Performed:	Mon Jun 21 09:37:58 1999		
Small Ring:	6.25	in	
Large Ring:	17.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	566.266	561.762	cps
Reading with Large Ring:	764.965	761.461	cps
Gain:	0.0553602	0.0550827	
Offset:	-25.0986	-24.6934	

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Fri Jun 18 11:23:10 1999	
Calibrator Value:	120	GAPI
Background Reading:	42.676	cps
Calibrator Reading:	203.336	cps
Sensitivity:	0.746921	GAPI/cps



Dataset:	run4/pass1
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

MV Geophysical

DUAL INDUCTION LL3 / SP LOG

Company	LEE COUNTY UTILITIES
Well	ASR-5
Field	CORKSCREW ASR EXPANSION
Country	LEE
State/Prv	FLORIDA

Company LEE COUNTY UTILITIES
Well ASR-5
Field CORKSCREW ASR EXP.
Country LEE
State/Prv FLORIDA

Location: SEC 16 T46S R26E

Other Services: X-Y CAL/GR FLOWMETER

		Elevation	
Permanent Datum	G.L.		K.B.
Log Measured From	G.L.		D.F.
Drilling Measured From	G.L.		G.L.

Date	23-JUNE-99		
Run Number	FOUR		
Depth Driller	329'		
Depth Logger	322' **		
Bottom Logged Interval	321'		
Top Log Interval	240'		
Open Hole Size	10.625"		
Type Fluid	WATER		
Density / Viscosity	NA/NA		
Max. Recorded Temp.	80.4 degF		
Estimated Cement Top	NA		
Time Well Ready	07:30 6/23/99		
Time Logger on Bottom	08:30 6/23/99		
Equipment Number	MVGS-1		
Location	FT. MYERS		
Recorded By	MILLER/VINCENT		
Witnessed By	M.WEINBERG/F.PROCTA	D.RINGDAHL	

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	257'				
TWO	19"						
THREE	10.625"	CSG (253')	329'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"		SURFACE	20.5'
Prot. String	12" PVC	Schedule 80	SURFACE	253'
Production String				252' LOGGER
Liner				
Invoice No.	99033			* FINAL PRINT *

Comments

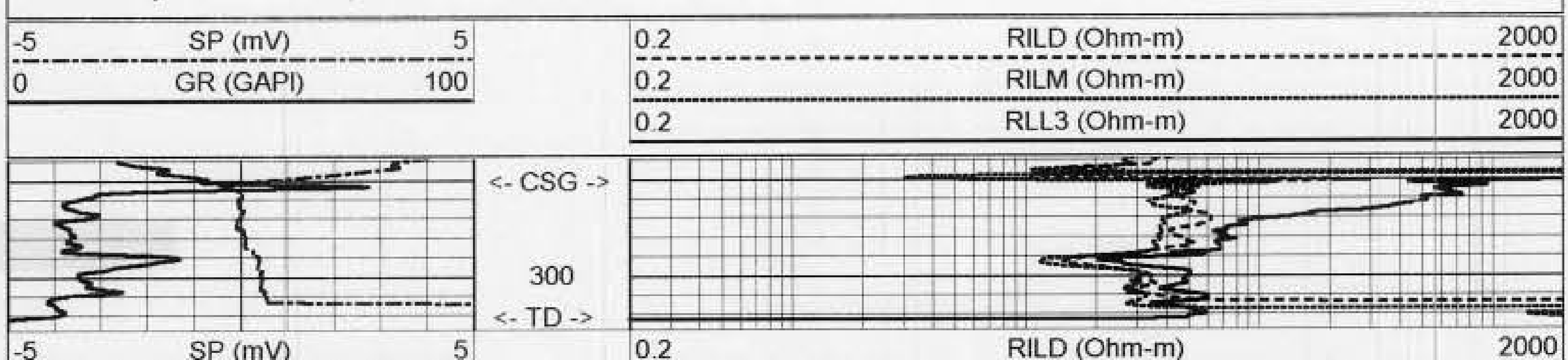
Rm=15.65 ohm-m @ 80.4 degF

** LOST 7' OF HOLE TO FIRST DESCENT WITH X-Y CALIPER/GR.

MV Geophysical — MAIN PASS

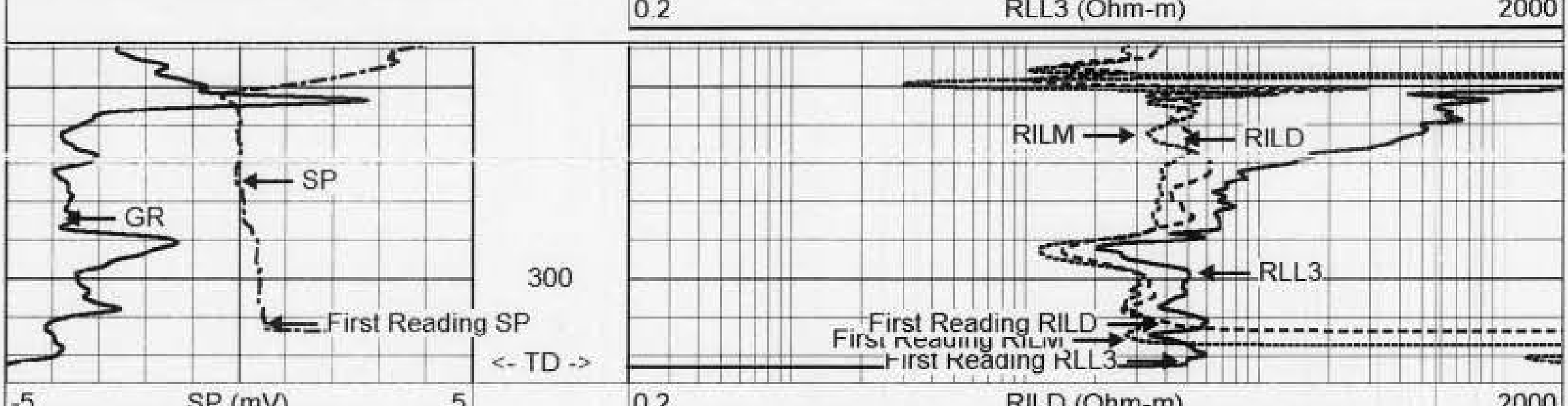
Database File: corks.db
Dataset Pathname: run4/pass4.1
Presentation Format: dil-1 prs
Dataset Creation: Wed Jul 07 08:29:33 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:1200

-5	SP (mV)	5		
0	GR (GAPI)	100		
		0.2	RILD (Ohm-m)	2000
		0.2	RILM (Ohm-m)	2000
		0.2	RLL3 (Ohm-m)	2000



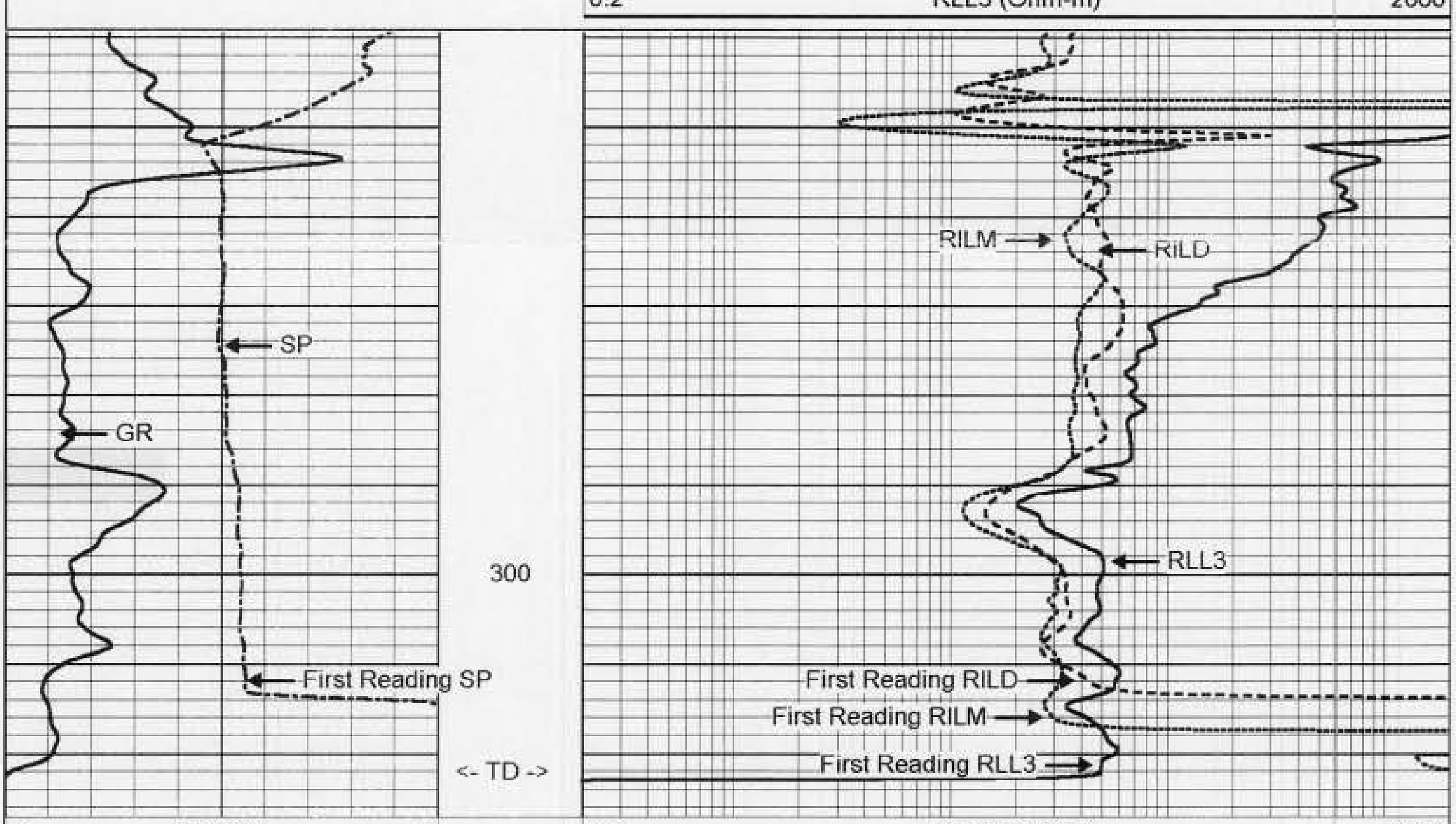
MV Geophysical — MAIN PASS

Database File: corks.db
Dataset Pathname: run4/pass4.1
Presentation Format: dil.prs
Dataset Creation: Wed Jul 07 08:29:33 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:600



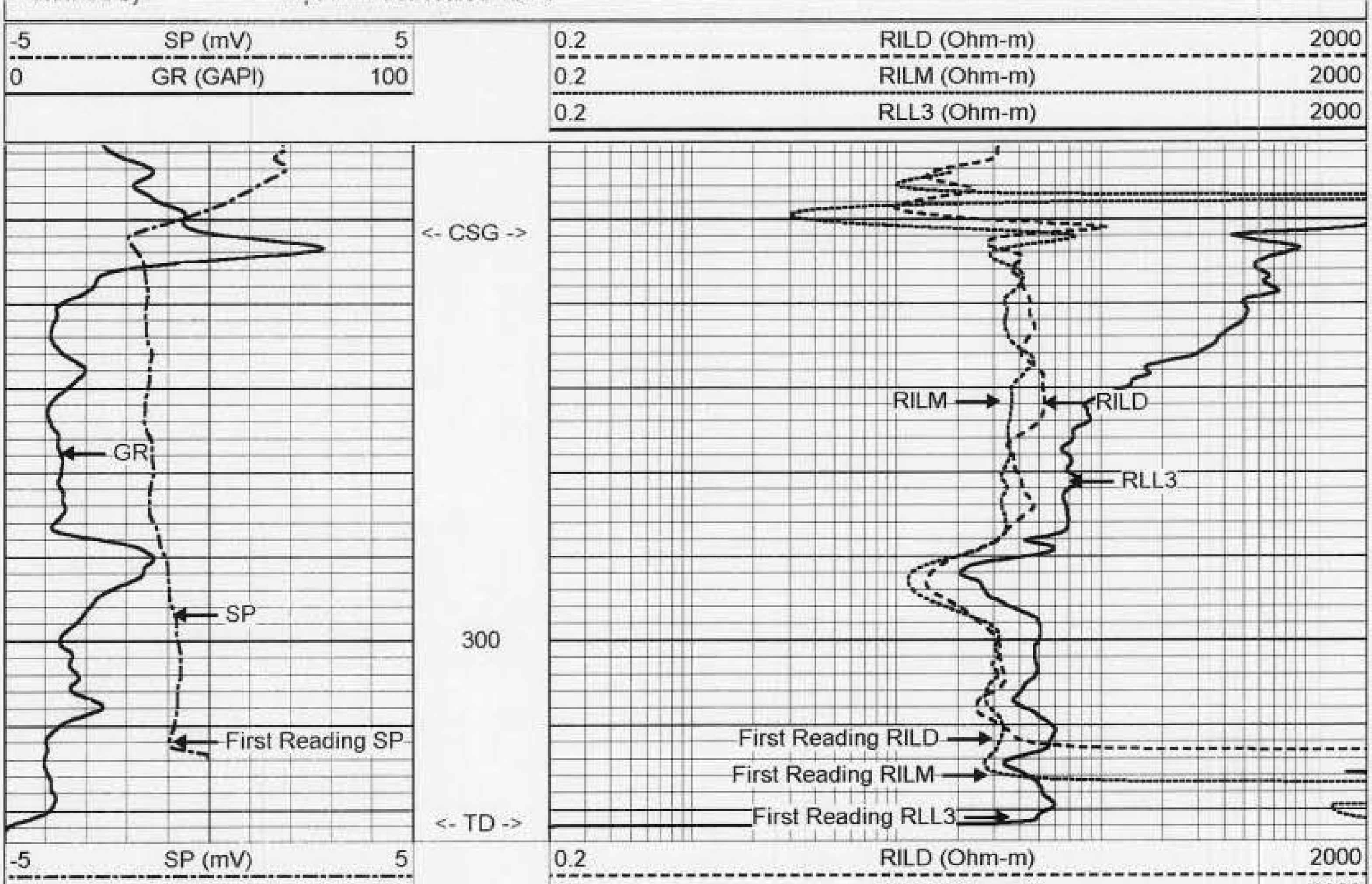
MV Geophysical — MAIN PASS

Database File: corks.db
Dataset Pathname: run4/pass4.1
Presentation Format: dil.prs
Dataset Creation: Wed Jul 07 08:29:33 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File: corks.db
Dataset Pathname: run4/pass3
Presentation Format: dil.prs
Dataset Creation: Wed Jun 23 09:31:09 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Wed Jun 09 11:47:52 1999
Downhole Cal Performed: Wed Jun 23 09:30:28 1999
After Survey Verification Performed: Wed Jun 23 09:30:28 1999

Surface Calibration

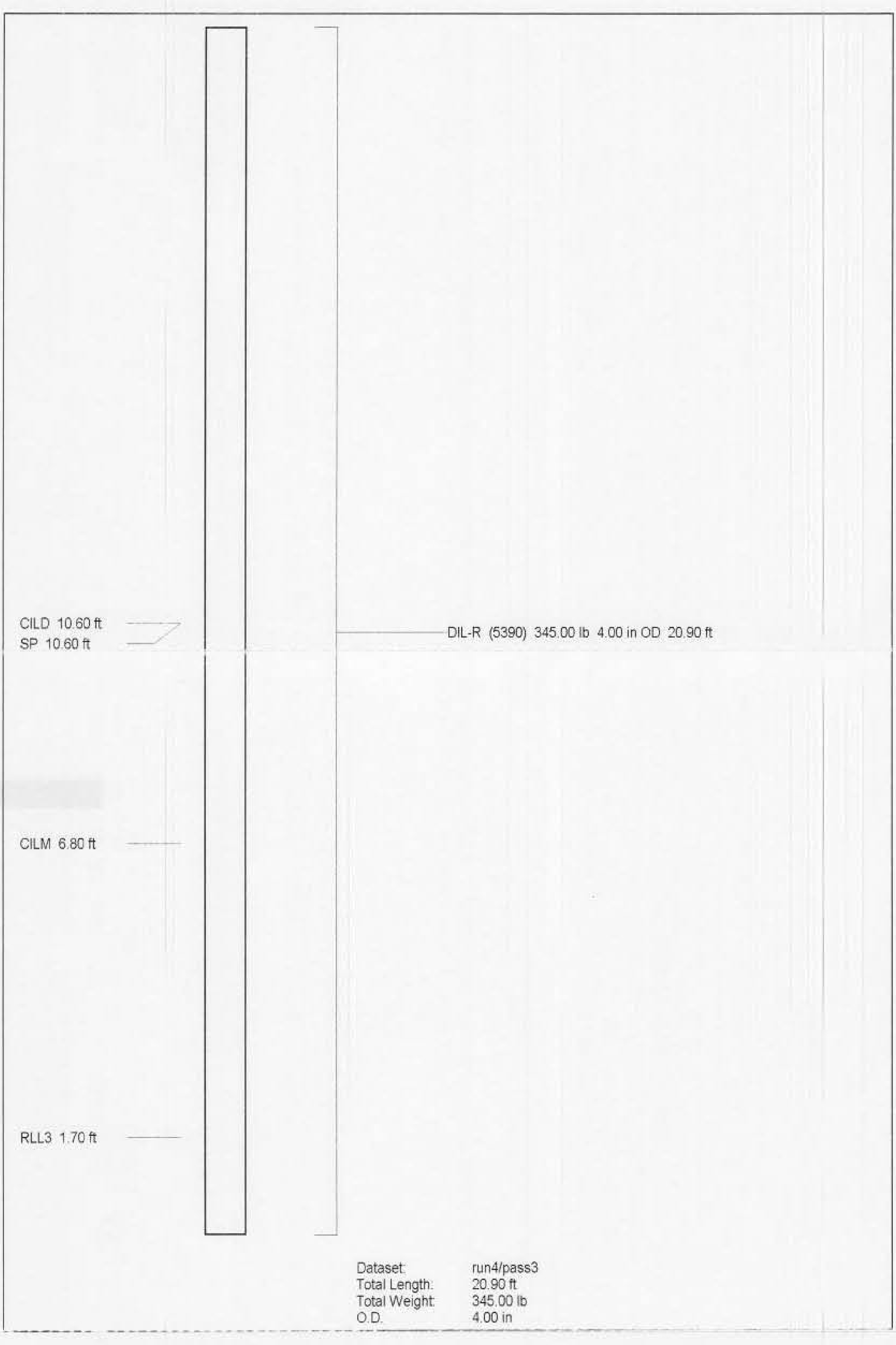
		Readings			References			Results	
Loop:		Air	Loop		Air	Loop		m	b
	Deep	0.018	0.631	V	0.000	400.000	mmho-m	652.638	4.500
	Medium	0.034	0.729	V	0.000	464.000	mmho-m	667.057	-10.000
Internal:		Zero	Cal		Zero	Cal			
	Deep	0.017	0.662	V	0.000	400.000	mmho-m	619.890	-10.526
	Medium	0.017	0.791	V	0.000	464.000	mmho-m	596.219	-9.911

Downhole Calibration

		Readings			References			Results	
Internal:		Zero	Cal		Zero	Cal		m	b
	Deep	29.571	485.072	mmho-m	-0.414	420.718	mmho-m	0.925	-27.755
	Medium	8.969	561.896	mmho-m	-11.347	505.182	mmho-m	0.934	-19.725
	Shallow	2.512	0.093	V	505.000	2.000	Ohm-m	207.902	-17.333

After Survey Verification

		Readings			Targets			Results	
Internal:		Zero	Cal		Zero	Cal		m'	b'
	Deep	0.000	0.000	mmho-m	29.571	485.072	mmho-m	0.925	-27.755
	Medium	0.000	0.000	mmho-m	8.969	561.896	mmho-m	0.934	-19.725
	Shallow	0.000	0.000	Ohm-m	505.000	2.000	Ohm-m	1.000	0.000



Dataset: run4/pass3
Total Length: 20.90 ft
Total Weight: 345.00 lb
O.D. 4.00 in

MV Geophysical

Q, %Q & Fluid Velocity

Database File: corkt.db
Presentation Format: pct2.prs
Dataset Creation: Tue Jul 06 13:41:36 1999
Charted by: Depth in Feet scaled 1:120

XCAL (in) 45 5
YCAL (in) 45 5
STATIC cps (cps) 0 200
DYNAMIC cps (cps) 0 200
Fluid Velocity, ft/min (ft/min) 0 100
Flowrate, gpm 0 500
% Q (gallon) 0 100

MV Geophysical

Q, %Q & Fluid Velocity

DOWN PASS TWO @ 75 fpm

MV Geophysical

Q, %Q & Fluid Velocity

DOWN PASS THREE @ 100 fpm

MV Geophysical

Q, %Q & Fluid Velocity

Fluid Velocity 1 (ft/min) 0 100
Fluid Velocity 2 (ft/min) 0 100
Fluid Velocity 3 (ft/min) 0 100
Flowrate Q1, gpm 0 500
Flowrate Q2, gpm 0 500
Flowrate Q3, gpm 0 500

PASS COMPARISON

MV Geophysical

Station 11: 220'

MV Geophysical

Station 10: 240'

MV Geophysical

Station 9: 254'

MV Geophysical

Station 8: 259'

MV Geophysical

Station 7: 270'

MV Geophysical

Station 6: 290'

MV Geophysical

Station 5: 309'

MV Geophysical

Station 4: 300'

MV Geophysical

Station 3: 319'

MV Geophysical

Station 2: 315'

MV Geophysical

Stn 1: 165' (480 gpm)

MV Geophysical

DYN'C UP @ 100 fpm

MV Geophysical

DYN'C DOWN @ 100 fpm

MV Geophysical

DYN'C UP @ 75 fpm

MV Geophysical

DYN'C DOWN @ 75 fpm

MV Geophysical

DYN'C UP @ 50 fpm

MV Geophysical

DYN'C DOWN @ 50 fpm

MV Geophysical

STATIC UP @ 100 fpm

MV Geophysical

STATIC DOWN @ 100 fpm

MV Geophysical

STATIC UP @ 75 fpm

MV Geophysical

STATIC DOWN @ 75 fpm

MV Geophysical

STATIC UP @ 50 fpm

MV Geophysical

STATIC DOWN @ 50 fpm

MV Geophysical

UP CAL @ 100 fpm

MV Geophysical

DOWN CAL @ 100 fpm

MV Geophysical

UP CAL @ 75 fpm

MV Geophysical

DOWN CAL @ 75 fpm

MV Geophysical

UP CAL @ 50 fpm

MV Geophysical

DOWN CAL @ 50 fpm

LINE SPEED (ft/min) -200 200
CCW Spin (cps) 0 100
CW Spin (cps) 0 100