GEOPHYSICAL LOGS ASR-2

PILOT HOLE: CALIPER, GAMMA, INDUCTION

REAMED HOLE: CALIPER

CASING: TEMPERATURE

MV Geophysical

DUAL INDUCTION LL3 / SP LOG

Company	LEE COUNTY UTILITIES
Well	ASR-2
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

Company	LEE COUNTY UTILITIES		
Well	ASR-2		
Field	CORKSCREW ASR EXPANSION		
Country	LEE	State/Prv	FLORIDA
Location	SEC 22 T46S R26E	Other Services	X-Y CAL/GR
Permanent Datum	G.L.	Elevation	
Log Measured From	G.L.	Elevation	K.B.
Drilling Measured From	G.L.		D.F.
			G.L.

Date	14-JUNE-99
Run Number	ONE
Depth Driller	342.5'
Depth Logger	342.5'
Bottom Logged Interval	341'
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	16:00 6/14/99
Time Logger on Bottom	16:00 6/14/99
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	342.5'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"	.375" WT	SURFACE	28'
Prot. String				
Production String				
Liner				
Invoice No.	99027			

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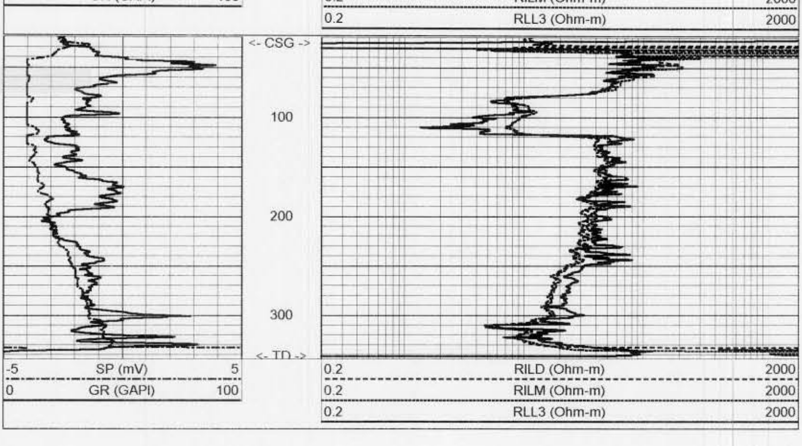
Comments

Rm=10.98 ohm-m @ 86.2 degF

MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: pass5.3
Presentation Format: dil-1.prs
Dataset Creation: Mon Jun 14 17:33:55 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:1200

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

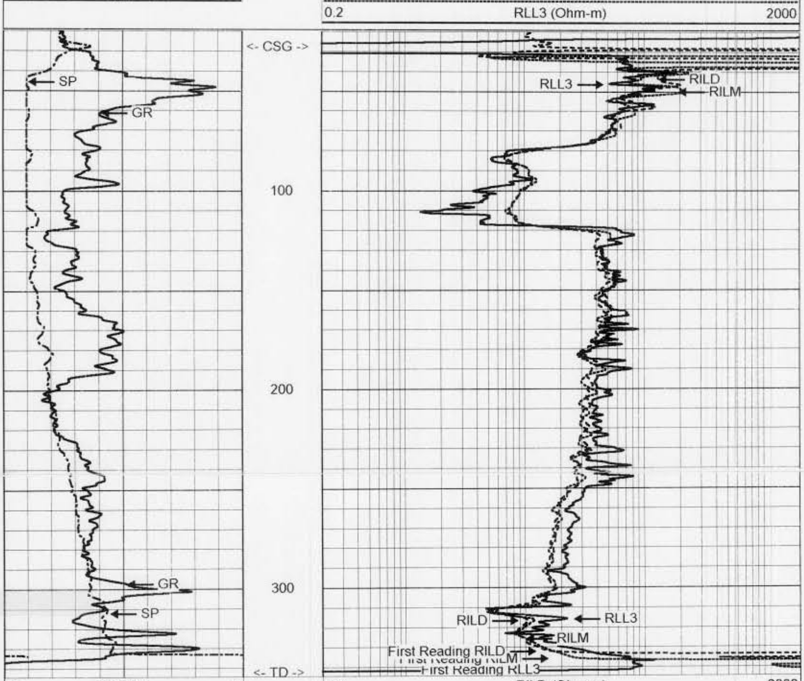


-5	SP (mV)	5	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: pass5.3
Presentation Format: dil.prs
Dataset Creation: Mon Jun 14 17:33:55 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:600

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

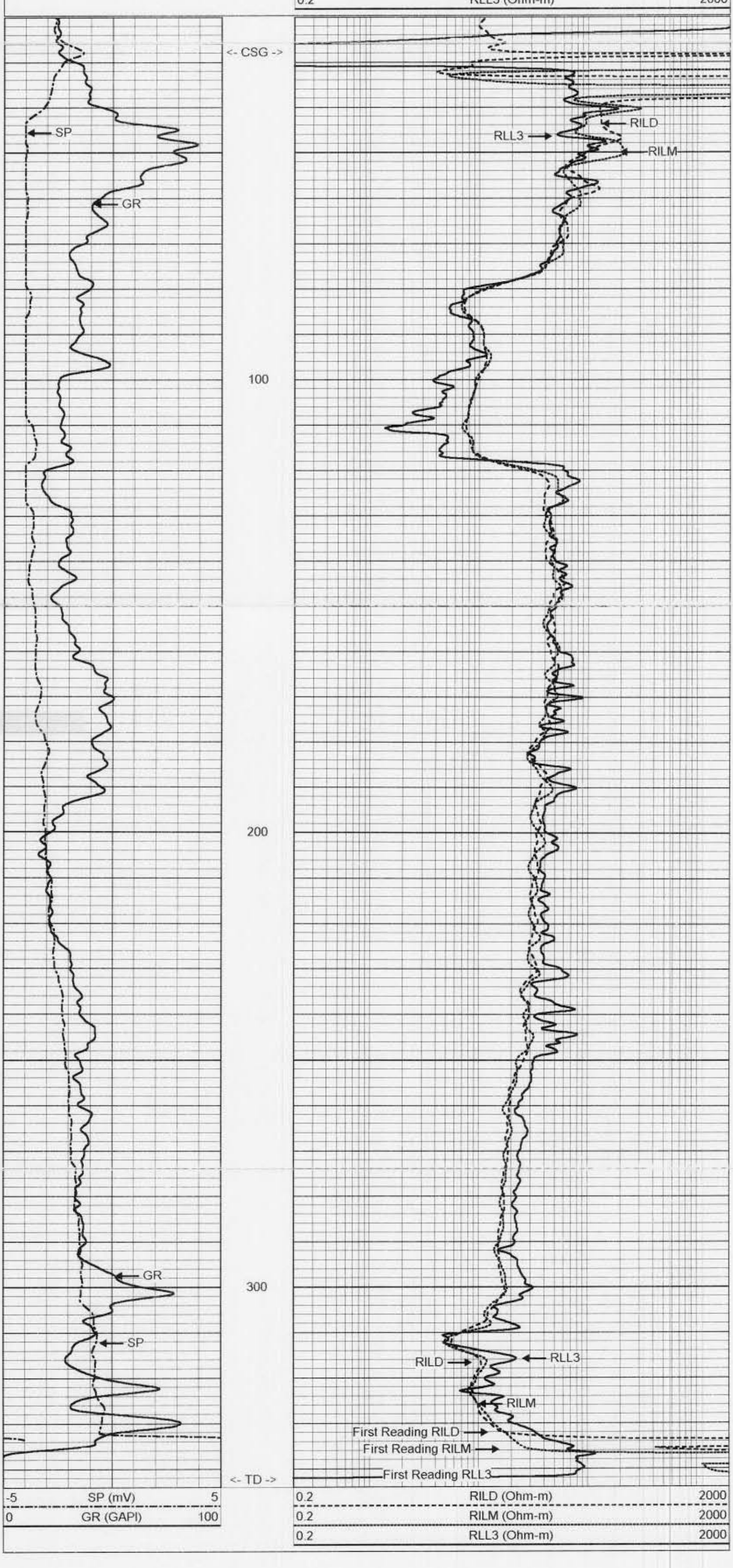


-5	SP (mV)	5	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: pass5.3
Presentation Format: dil.prs
Dataset Creation: Mon Jun 14 17:33:55 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

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

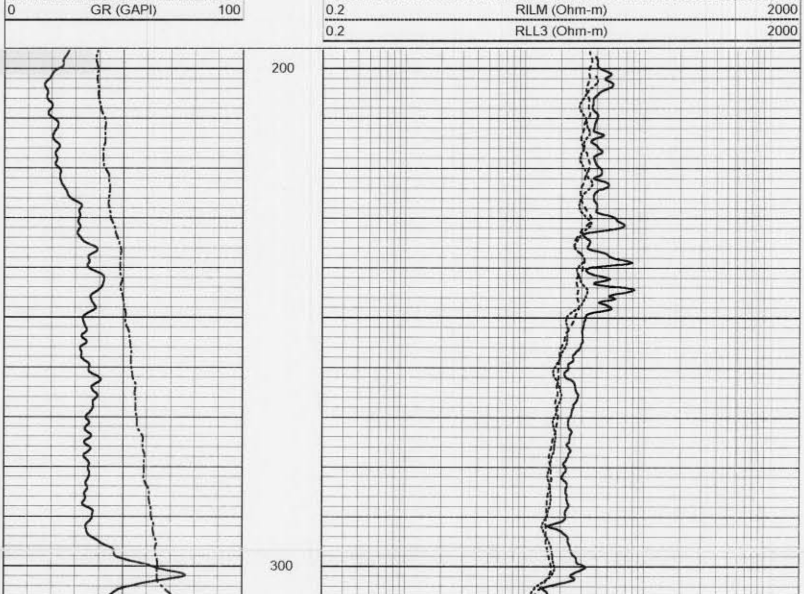


-5	SP (mV)	5	0.2	RILD (Ohm-m)	2000
0	GR (GAPI)	100	0.2	RILM (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000

MV Geophysical — REPEAT SECTION

Database File: cork2.db
Dataset Pathname: pass4.2
Presentation Format: dil.prs
Dataset Creation: Mon Jun 14 17:35:31 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

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



-5	SP (mV)	5	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: Wed Jun 09 11:47:52 1999
Downhole Cal Performed: Mon Jun 14 16:46:06 1999
After Survey Verification Performed: Mon Jun 14 16:46:06 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		m	b
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	599.219	-9.911

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	34.762	482.423	mmho-m	-0.414	420.718	mmho-m	0.941	-33.116
Medium	21.032	564.702	mmho-m	-11.347	505.182	mmho-m	0.950	-31.329
Shallow	2.535	0.098	V	505.000	2.000	Ohm-m	206.379	-18.155

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	34.762	482.423	mmho-m	0.941	-33.116
Medium	0.000	0.000	mmho-m	21.032	564.702	mmho-m	0.950	-31.329
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-2		
Field	CORKSCREW ASR EXP.		
Country	LEE		
State/Prv	FLORIDA		

Company	LEE COUNTY UTILITIES		
Well	ASR-2		
Field	CORKSCREW ASR EXPANSION		
Country	LEE	State/Prv	FLORIDA
Location	SEC 22 T46S R26E	Other Services	DIL/LL3/SP
Permanent Datum	G.L.	Elevation	K.B.
Log Measured From	G.L.		D.F.
Drilling Measured From	G.L.		G.L.

Date	14-JUNE-99
Run Number	ONE
Depth Driller	342.5'
Depth Logger	342.5'
Bottom Logged Interval	339'
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	16:00 6/14/99
Time Logger on Bottom	16:00 6/14/99
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	342.5'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"	375" WT	SURFACE	28'
Prot. String				
Production String				
Liner				

Invoice No. 99027

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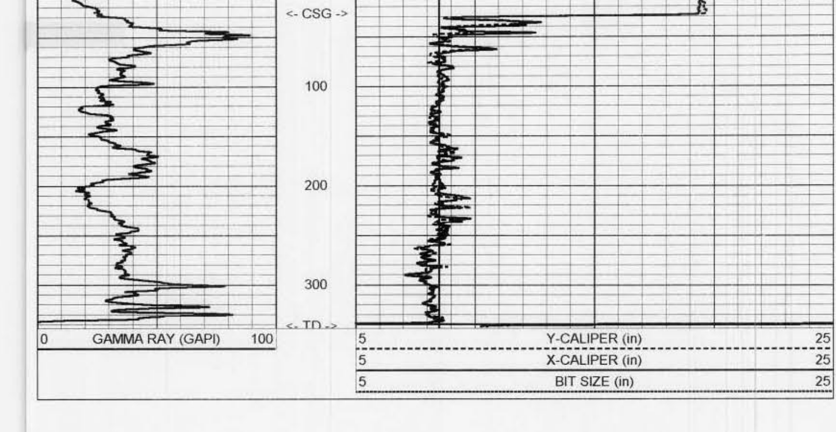
Comments

MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: pass2.1
Presentation Format: xy525-1.prs
Dataset Creation: Mon Jun 14 16:38:57 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:1200

0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

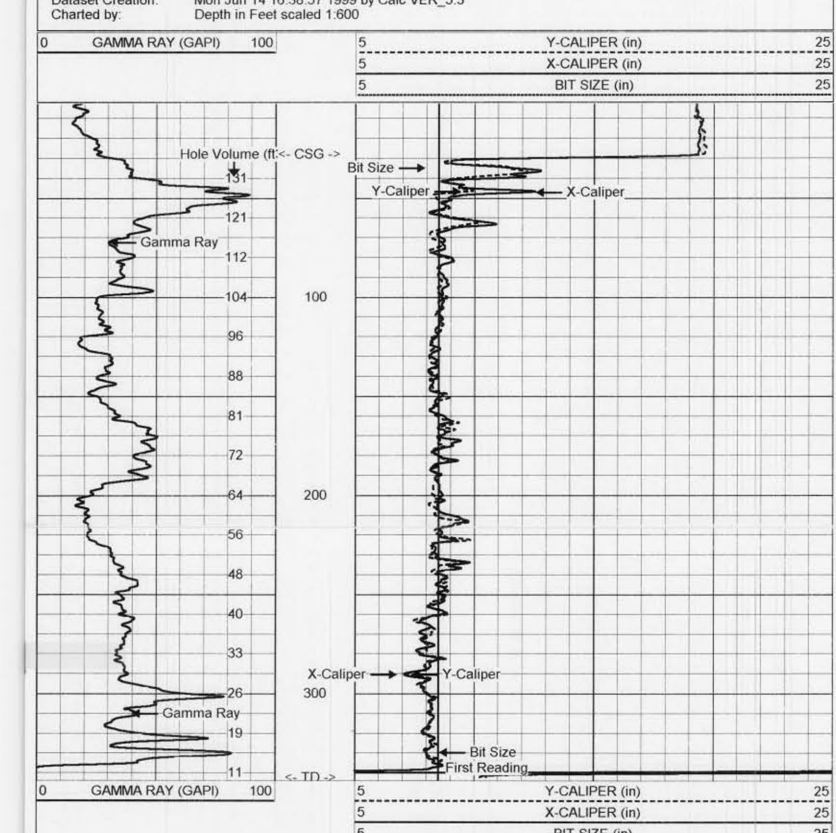


0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: pass2.1
Presentation Format: xy525-1.prs
Dataset Creation: Mon Jun 14 16:38:57 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

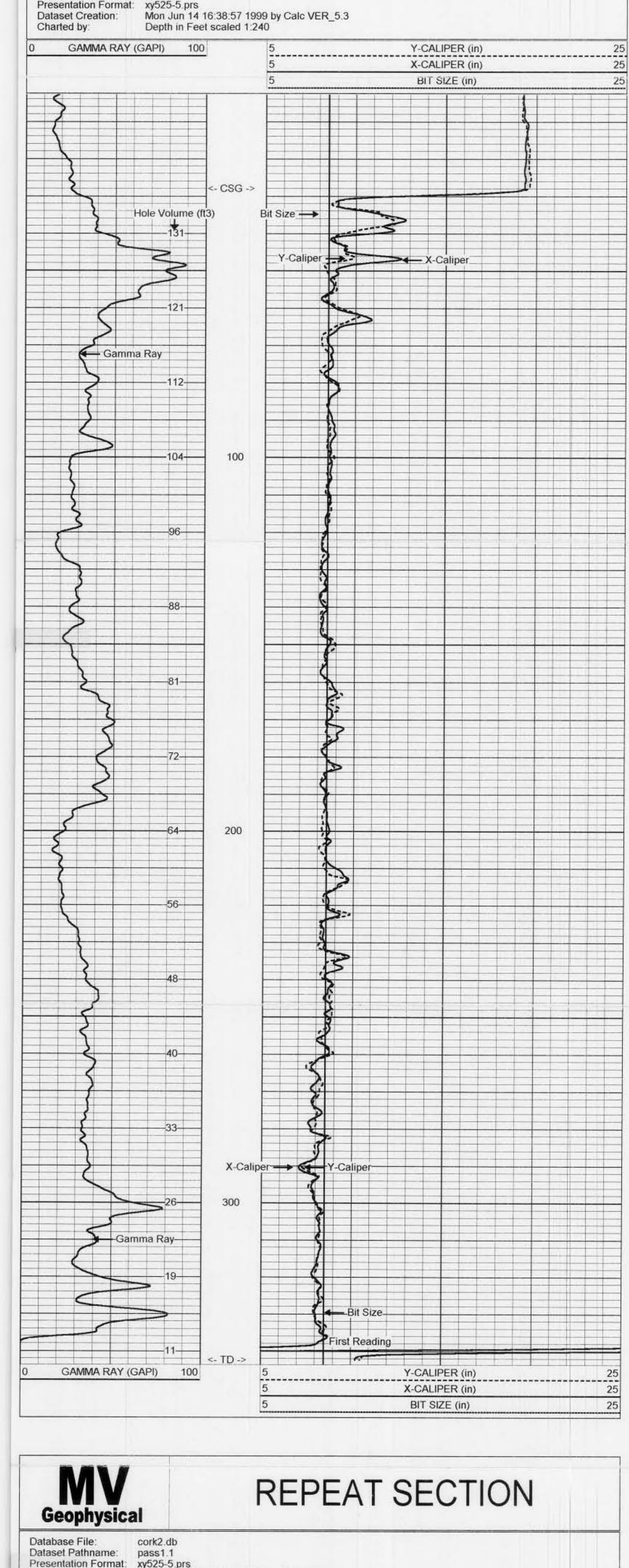


0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: pass2.1
Presentation Format: xy525-5.prs
Dataset Creation: Mon Jun 14 16:38:57 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

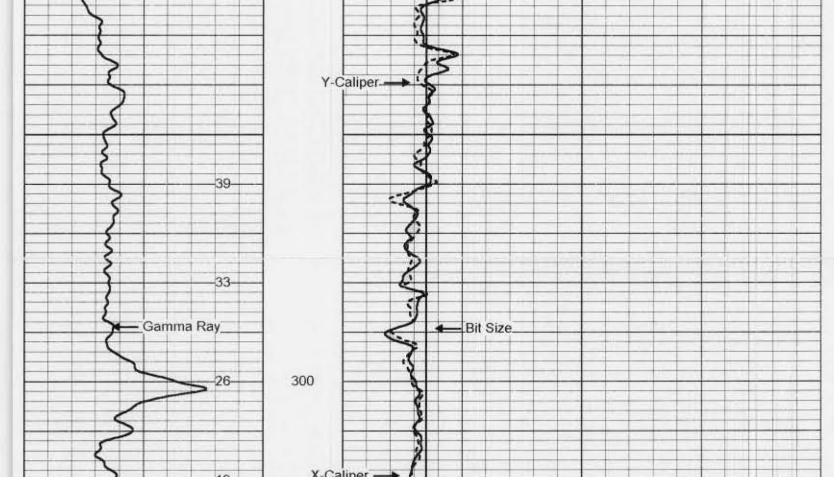


0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

MV Geophysical — REPEAT SECTION

Database File: cork2.db
Dataset Pathname: pass1.1
Presentation Format: xy525-5.prs
Dataset Creation: Mon Jun 14 16:38:02 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25



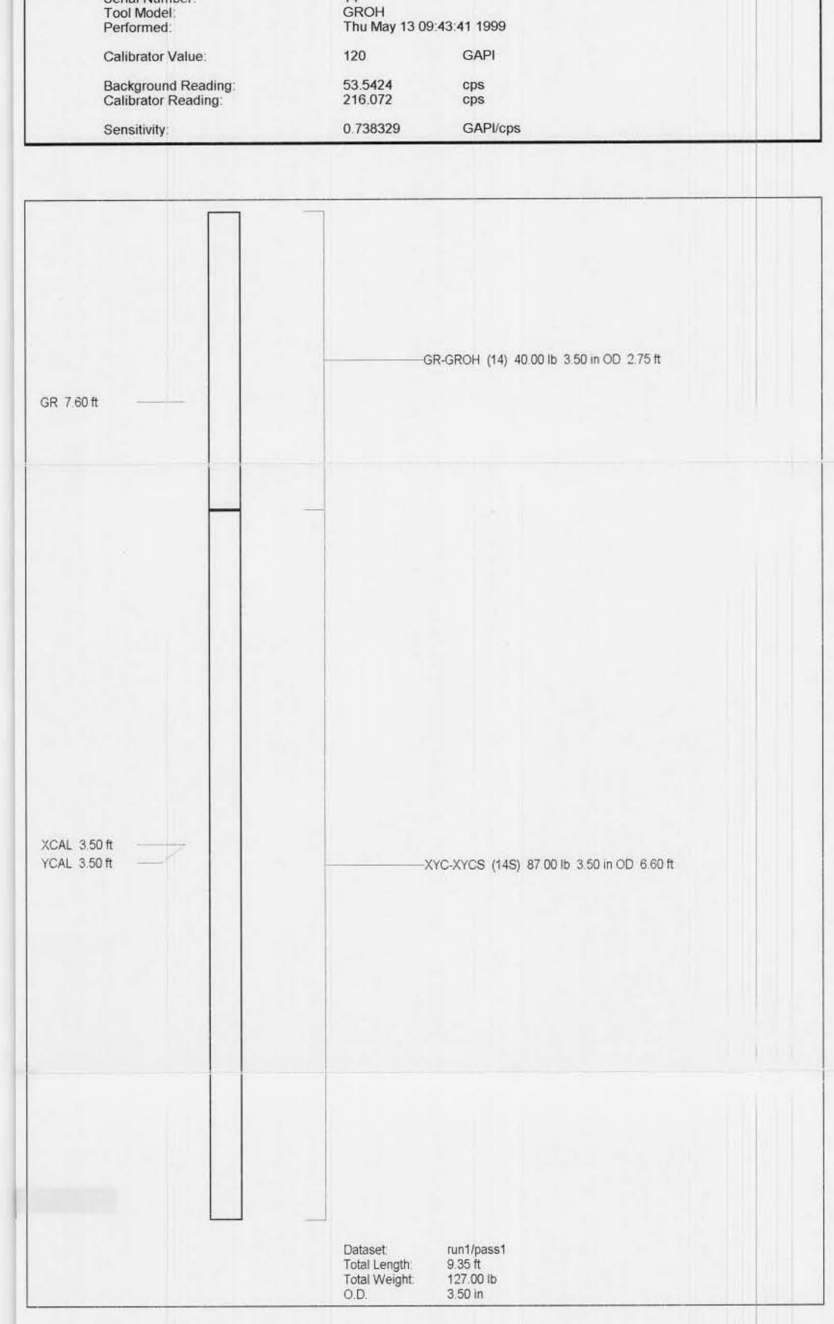
0	GAMMA RAY (GAPI)	100	5	Y-CALIPER (in)	25
			5	X-CALIPER (in)	25
			5	BIT SIZE (in)	25

XY Caliper Calibration Report

Serial Number:	146		
Tool Model:	XYCS		
Performed:	Wed Jun 09 10:43:39 1999		
Small Ring:	6.25		in
Large Ring:	17.25		in
	X Caliper	Y Caliper	
Reading with Small Ring:	506.857	571.271	cps
Reading with Large Ring:	730.831	752.553	cps
Gain:	0.0632279	0.0606782	
Offset:	-25.9589	-28.4143	

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:	0.736320	GAPI/cps



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

X - Y CALIPER GAMMA RAY LOG

MV Geophysical

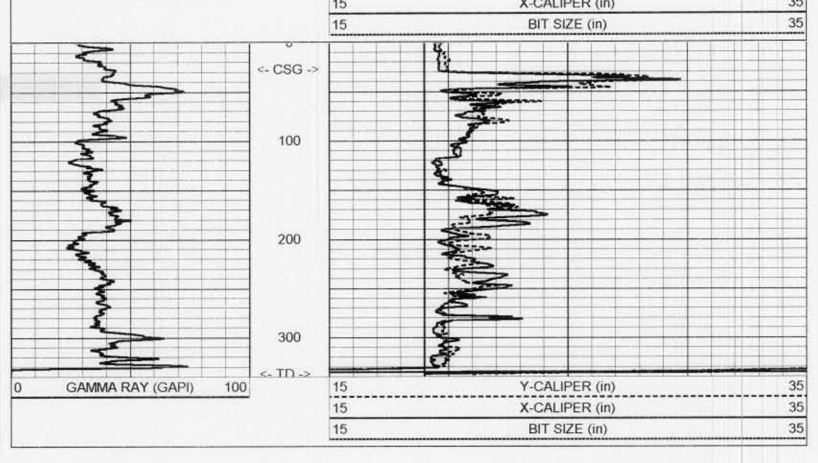
Company	LEE COUNTY UTILITIES
Well	ASR-2
Field	CORKSCREW ASR EXP
County	LEE
State/Prov	FLORIDA

Company: LEE COUNTY UTILITIES
Well: ASR-2
Field: CORKSCREW ASR EXPANSION
County: LEE
State/Prov: FLORIDA
Location: SEC 22 T46S R26E

Comments

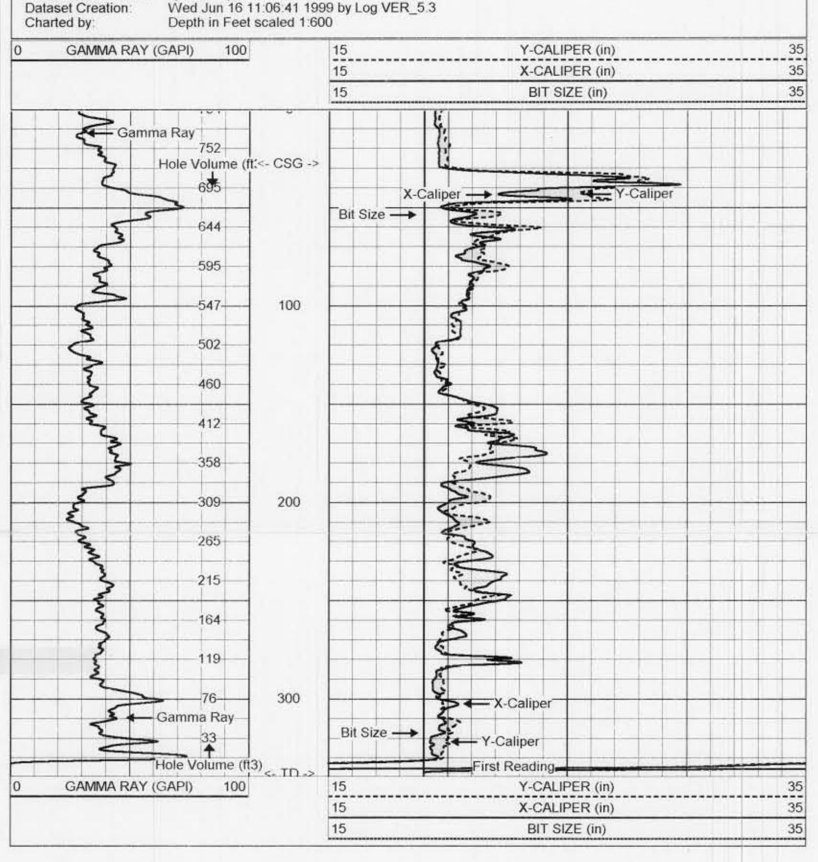
MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: run2/pass3
Presentation Format: xy1535-1.prs
Dataset Creation: Wed Jun 16 11:06:41 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:1200



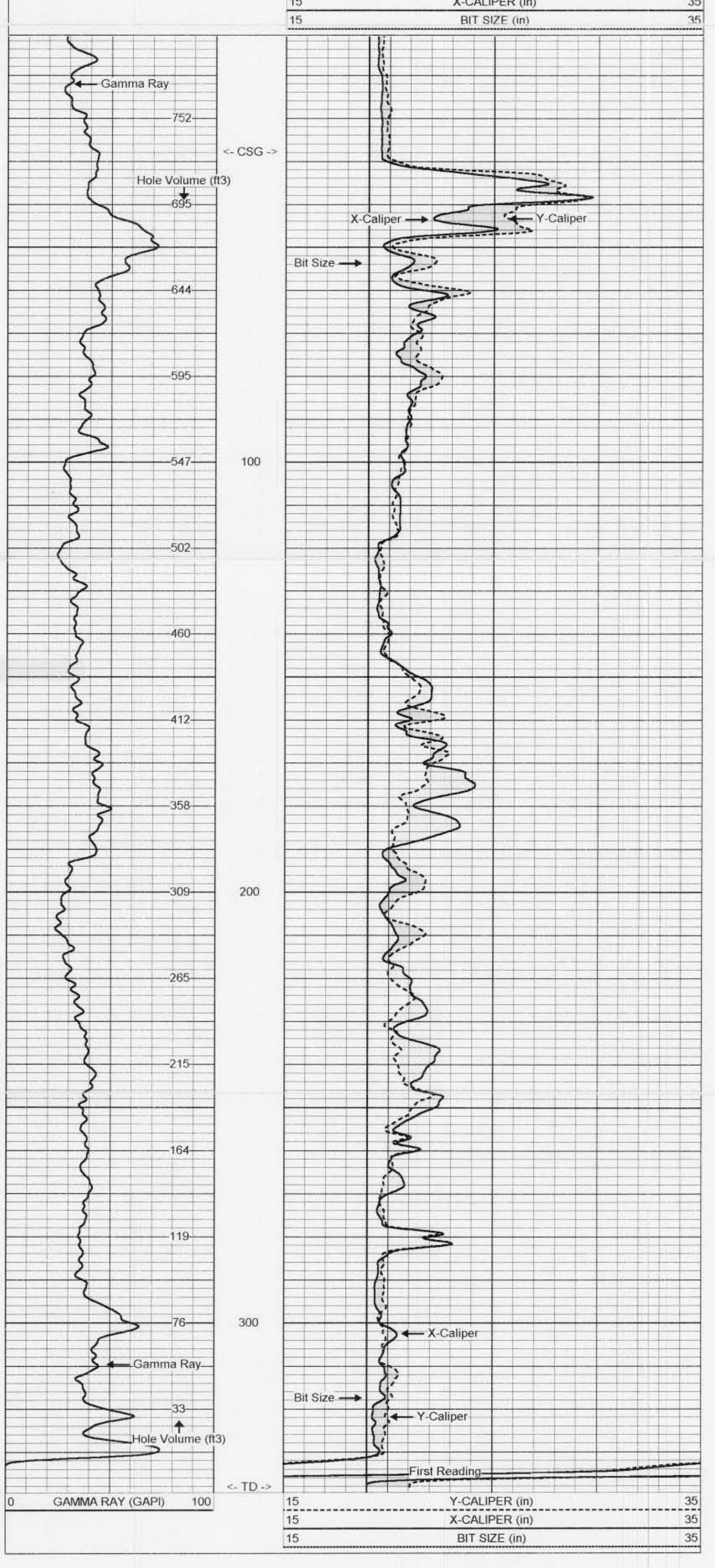
MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: run2/pass3
Presentation Format: xy1535-5.prs
Dataset Creation: Wed Jun 16 11:06:41 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



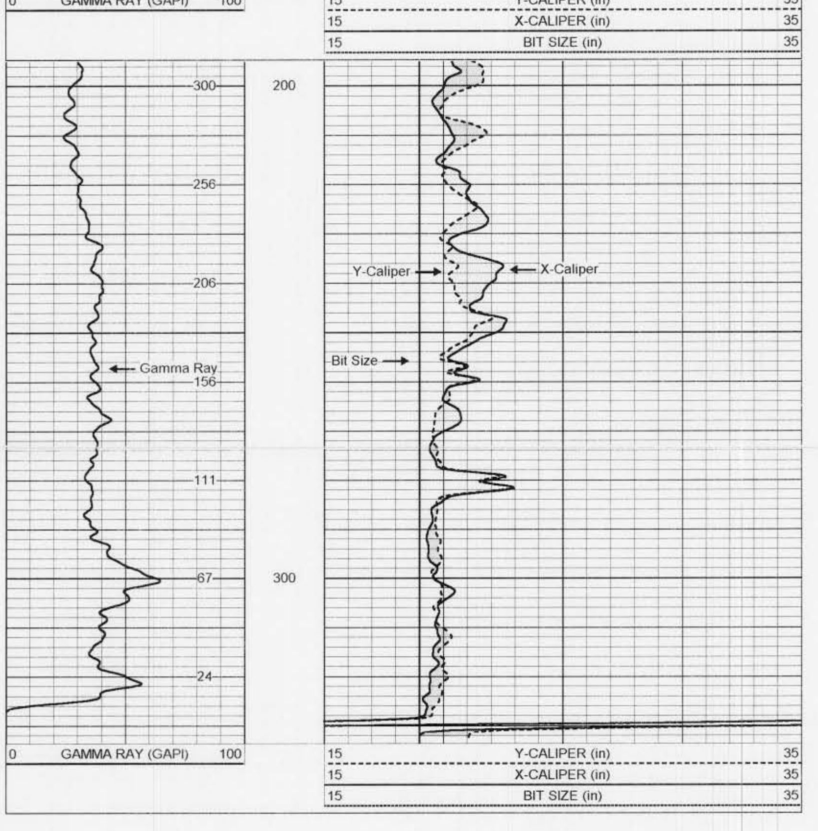
MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: run2/pass3
Presentation Format: xy1535-5.prs
Dataset Creation: Wed Jun 16 11:06:41 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File: cork2.db
Dataset Pathname: run2/pass2
Presentation Format: xy1535-5.prs
Dataset Creation: Wed Jun 16 10:59:16 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

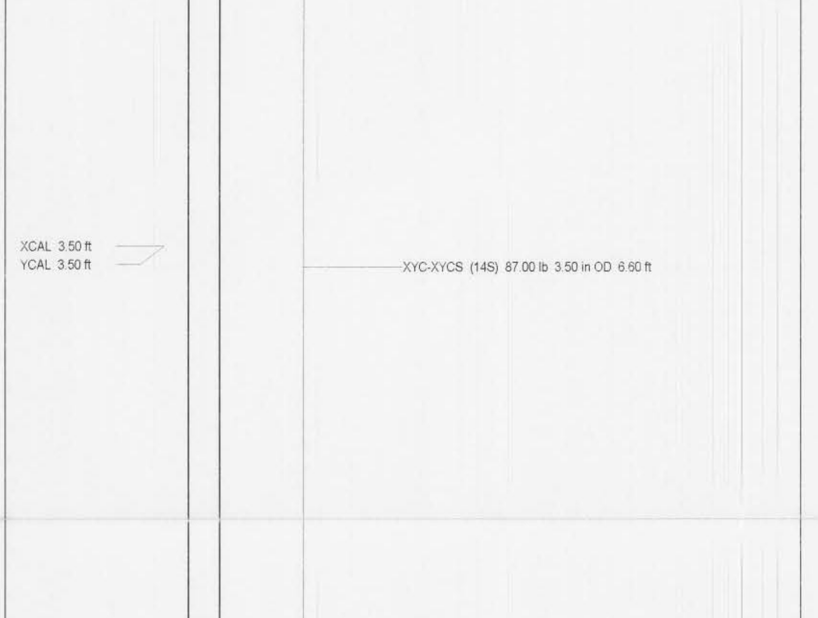


XY Caliper Calibration Report

Serial Number:	145		
Tool Model:	XYCS		
Performed:	Wed Jun 09 10:43:39 1999		
Small Ring:	17.25	in	
Large Ring:	29.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	730.831	752.553	cps
Reading with Large Ring:	960	1002	cps
Gain:	0.0523631	0.0481064	
Offset:	-21.0186	-18.9526	

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Wed Jun 16 10:11:48 1999	
Calibrator Value:	120	GAPI
Background Reading:	20.3803	cps
Calibrator Reading:	136.559	cps
Sensitivity:	1.03289	GAPI/cps



Dataset:	run2/pass3
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

GEOPHYSICAL LOGS ASR-2

OPEN HOLE: CALIPER, GAMMA, INDUCTION, FLOW

MV Geophysical

LEE COUNTY UTILITIES
X-Y CALIPER
GAMMA RAY
LOG

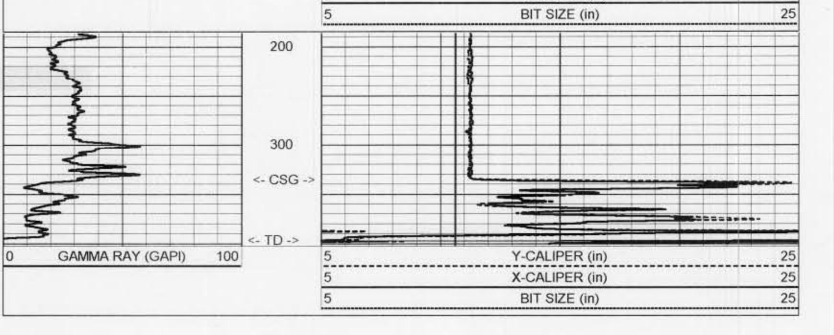
Company: LEE COUNTY UTILITIES
Well: ASR-2
Field: CORKSCREW ASR EXP
County: LEE
State: FLORIDA

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

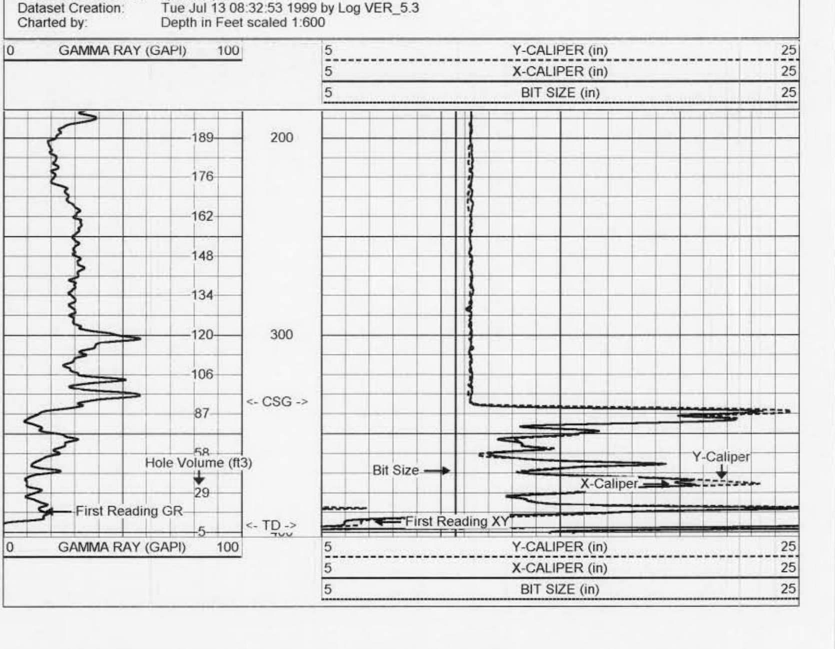
MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass2
Presentation Format: xy525-1.prs
Dataset Creation: Tue Jul 13 08:32:53 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:1000



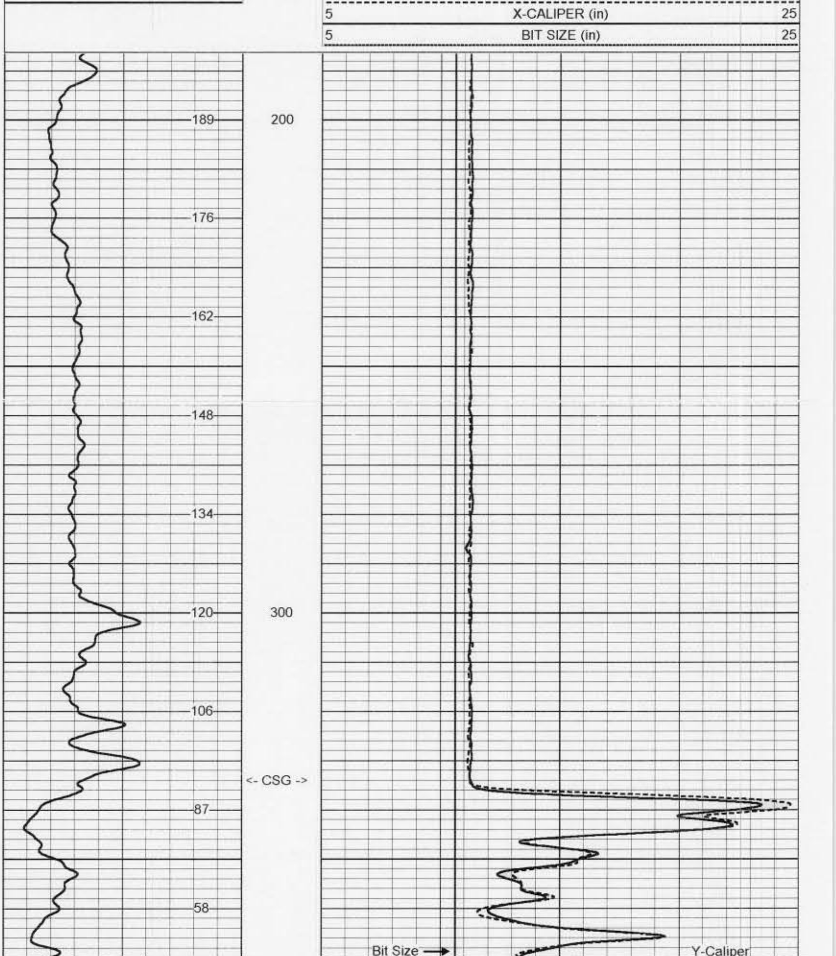
MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass2
Presentation Format: xy525-1.prs
Dataset Creation: Tue Jul 13 08:32:53 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:600



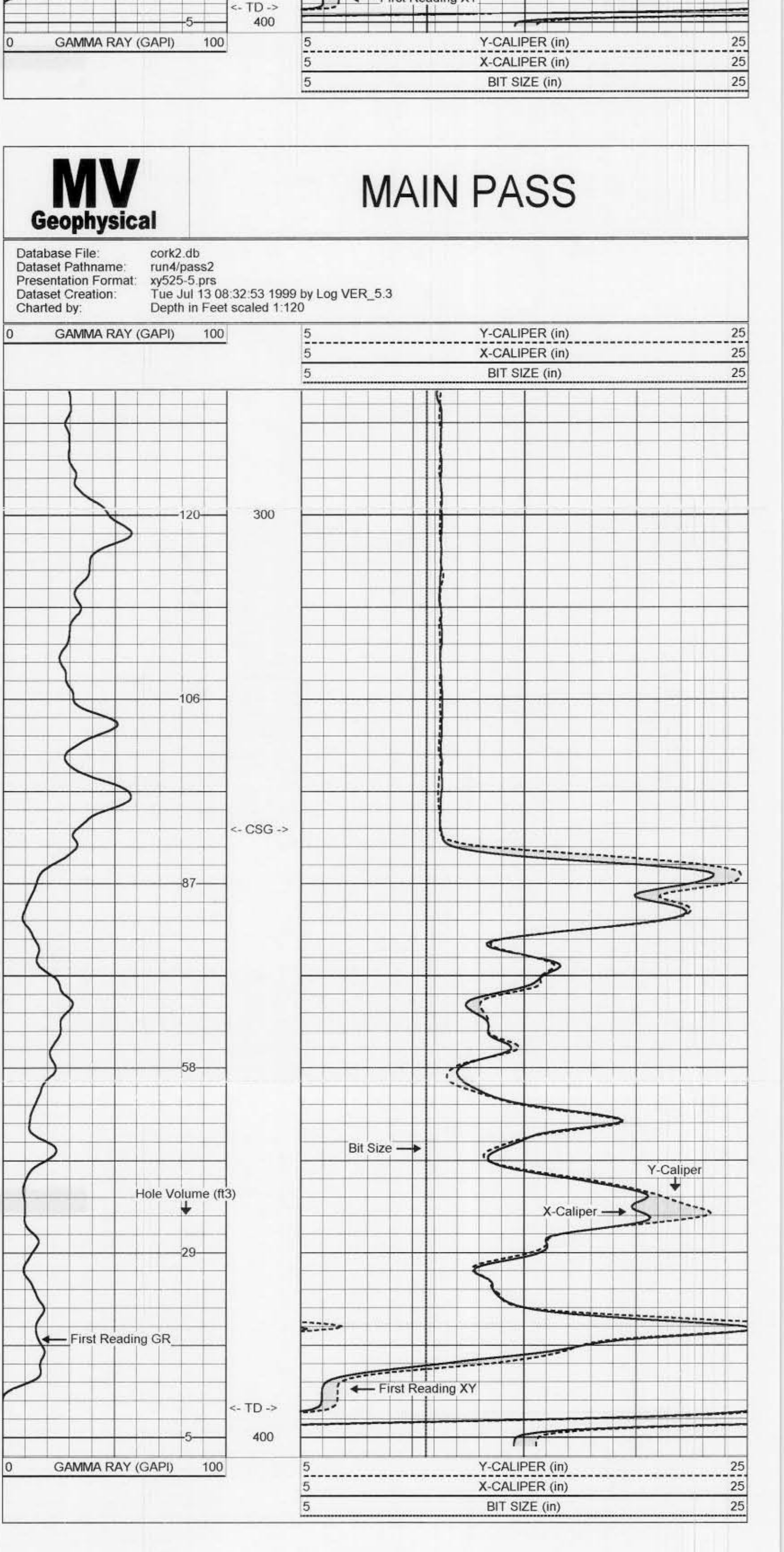
MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass2
Presentation Format: xy525-5.prs
Dataset Creation: Tue Jul 13 08:32:53 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240



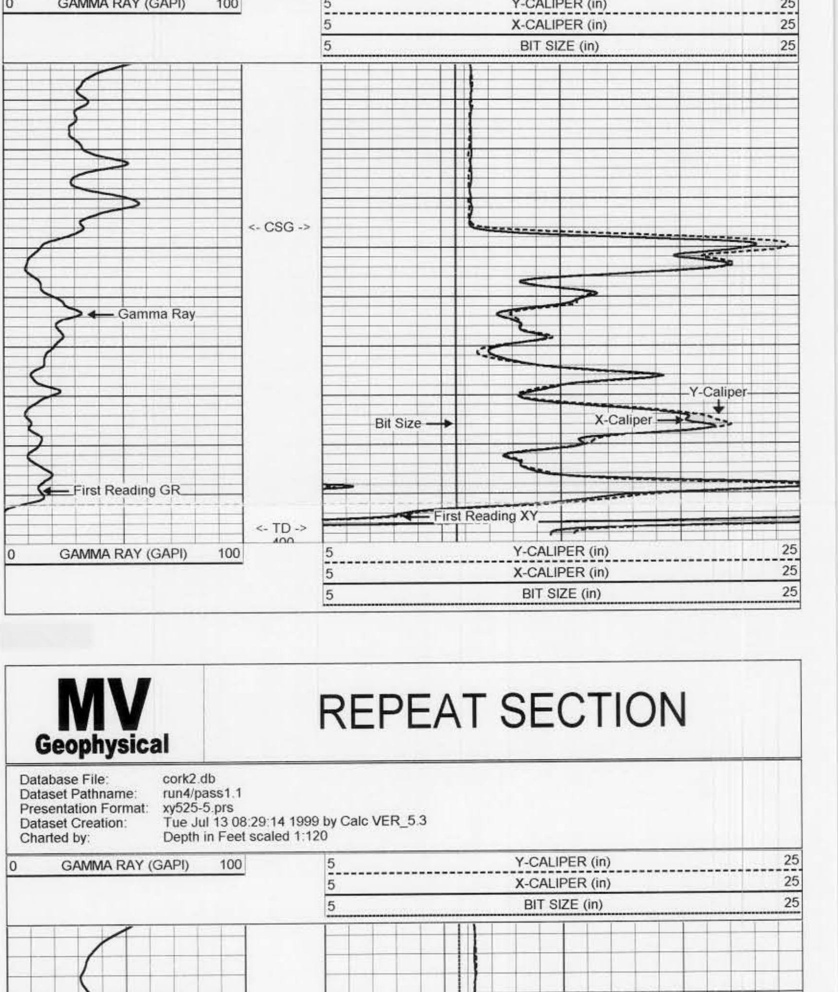
MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass2
Presentation Format: xy525-5.prs
Dataset Creation: Tue Jul 13 08:32:53 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:120



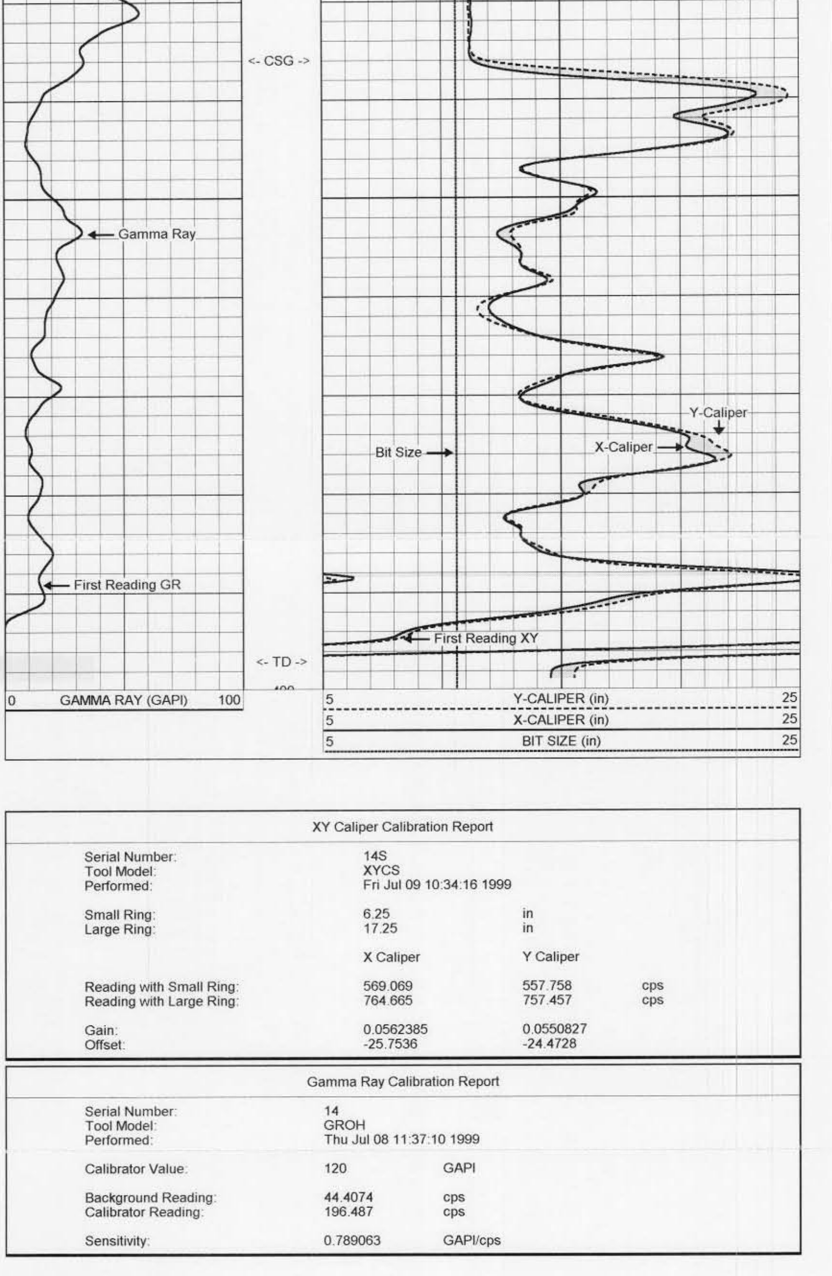
REPEAT SECTION

Database File: cork2.db
Dataset Pathname: run4/pass1.1
Presentation Format: xy525-5.prs
Dataset Creation: Tue Jul 13 08:29:14 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240



REPEAT SECTION

Database File: cork2.db
Dataset Pathname: run4/pass1.1
Presentation Format: xy525-5.prs
Dataset Creation: Tue Jul 13 08:29:14 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:120

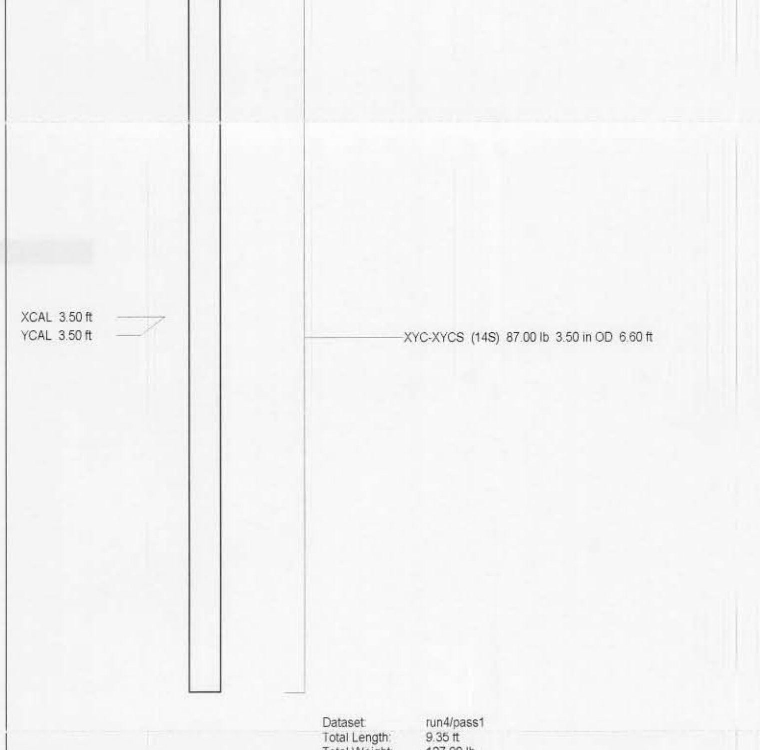


XY Caliper Calibration Report

Serial Number:	14S		
Tool Model:	XYCS		
Performed:	Fri Jul 09 10:34:16 1999		
Small Ring:	6.25	in	
Large Ring:	17.25	in	
	X Caliper	Y Caliper	
Reading with Small Ring:	569.069	557.758	cps
Reading with Large Ring:	764.665	757.457	cps
Gain:	0.0562385	0.0550827	
Offset:	-25.7536	-24.4728	

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Thu Jul 08 11:37:10 1999	
Calibrator Value:	120	GAPI
Background Reading:	44.4074	cps
Calibrator Reading:	196.487	cps
Sensitivity:	0.789063	GAPI/cps



Dataset: run4/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-2
Field CORKSCREW ASR EXP.
Country LEE
State/Prv FLORIDA

Company	LEE COUNTY UTILITIES
Well	ASR-2
Field	CORKSCREW ASR EXPANSION
Country	LEE
State/Prv	FLORIDA
Location	SEC 22 T46S R26E
Other Services	NONE
Permanent Datum	G.L.
Elevation	
Log Measured From	G.L.
Drilling Measured From	G.L.
Elevation	K.B. / D.F. / G.L.

Date	19-JUNE-99	20-JUNE-99
Run Number	THREE	
Depth Driller	339'	
Depth Logger	331'	
Bottom Logged Interval	330'	
Top Log Interval	0'	
Open Hole Size	NA	
Type Fluid	CEMENT/MUD	
Density / Viscosity	NA/NA	
Max. Recorded Temp.	NA	127 degF
Estimated Cement Top	126' (STAGE 1)	
Time Well Ready	07:00 6/19/99	
Time Logger on Bottom	08:30 6/19/99	
Equipment Number	MVGS-1	
Location	FT. MYERS	
Recorded By	MILLER/VINCENT	
Witnessed By	F.PROCTAR/B.HENSHAW	

Borehole Record / Tubing Record

Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	342.5'				
TWO	19"	CSG (28')	340'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"	.375" WT	SURFACE	28'
Prot. String	12"	PVC	SURFACE	330'
Production String				
Liner				

Invoice No. 99031

* FINAL PRINT *

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Comments

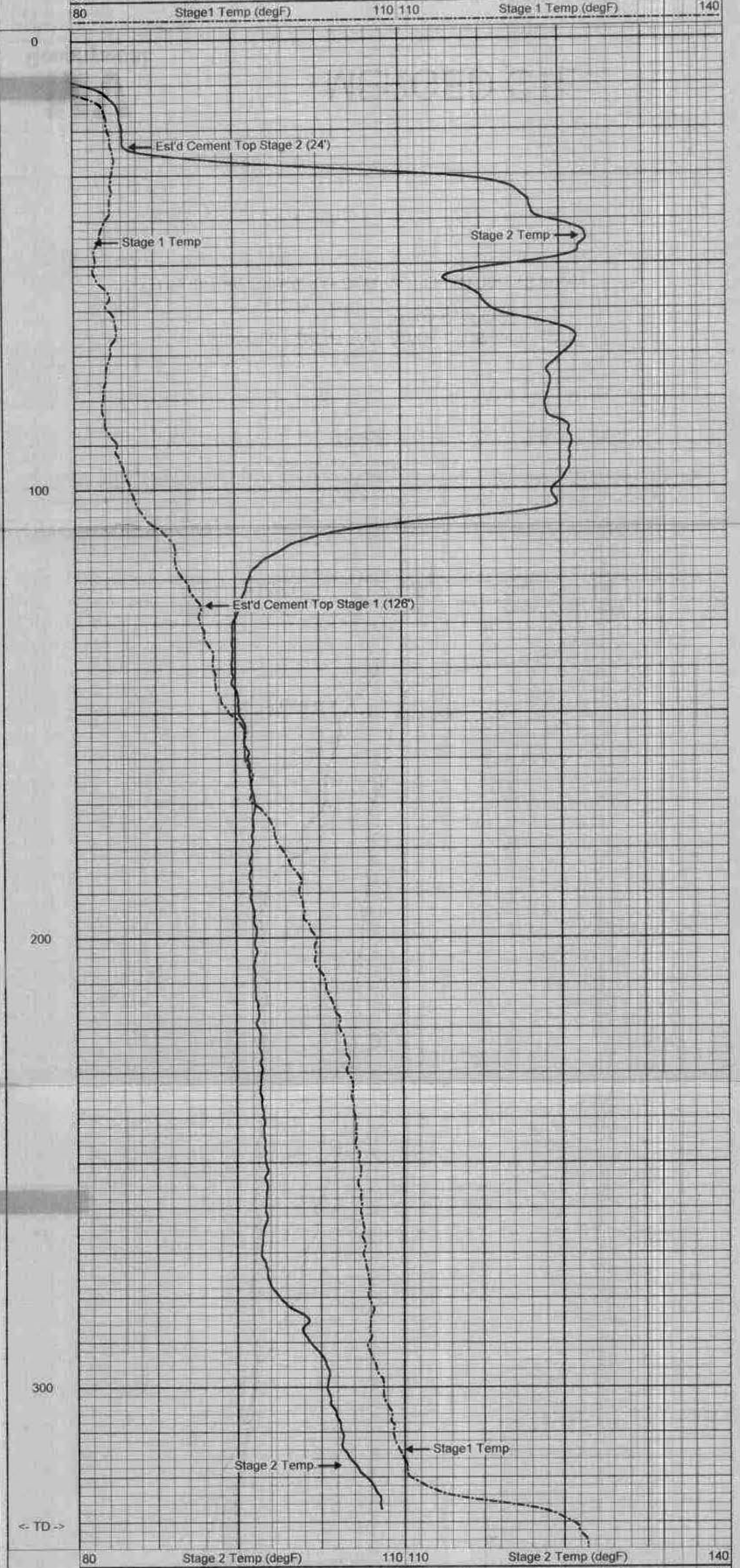
ESTIMATED CEMENT TOP: STAGE 1: 126' (6/19)
STAGE 2: 24' (6/20)

TEMPERATURE/GAMMA RAY DATA GATHERED LOGGING DOWN

MV Geophysical — MERGED CTL

Database File: cork2.db
Dataset Pathname: run3/CTLMERGE
Presentation Format: ctltmrg.prs
Dataset Creation: Sun Jun 20 08:33:19 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

80	Stage 2 Temp (degF)	110	110	Stage 2 Temp (degF)	140
80	Stage1 Temp (degF)	110	110	Stage 1 Temp (degF)	140

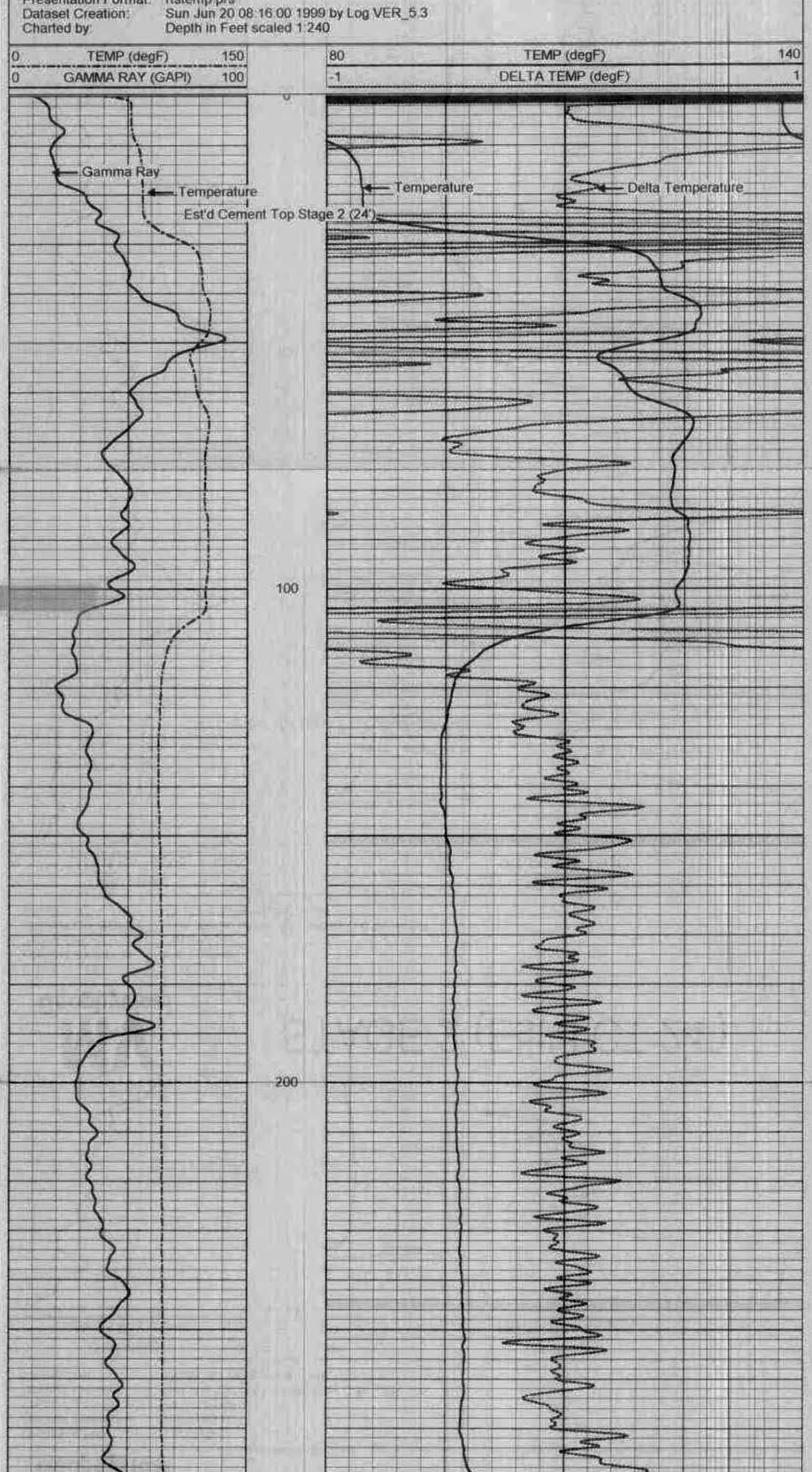


80	Stage 2 Temp (degF)	110	110	Stage 2 Temp (degF)	140
80	Stage1 Temp (degF)	110	110	Stage 1 Temp (degF)	140

MV Geophysical — STAGE 2 (Est'd CT 24')

Database File: cork2.db
Dataset Pathname: run3/pass2
Presentation Format: rtstemp.prs
Dataset Creation: Sun Jun 20 08:16:00 1999 by Log VER_5.3
Charted by: Depth in Feet scaled 1:240

0	TEMP (degF)	150	80	TEMP (degF)	140
0	GAMMA RAY (GAPI)	100	-1	DELTA TEMP (degF)	1

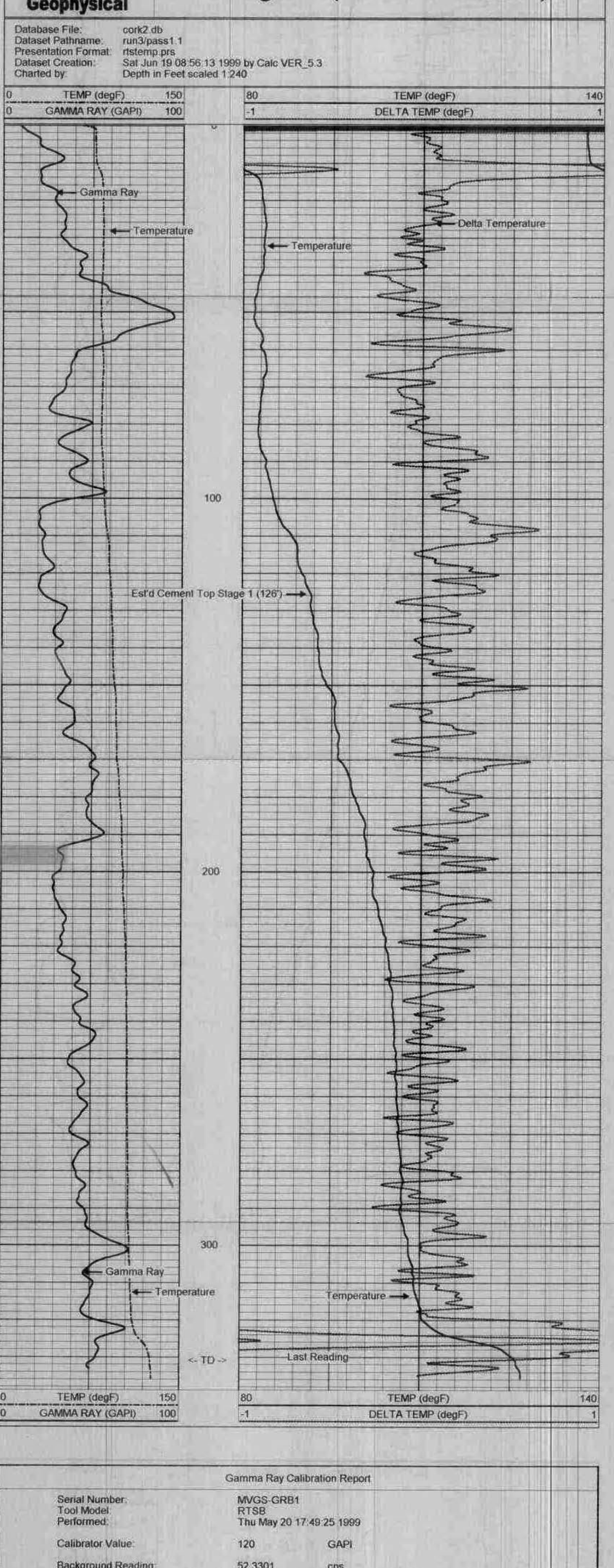


0	TEMP (degF)	150	80	TEMP (degF)	140
0	GAMMA RAY (GAPI)	100	-1	DELTA TEMP (degF)	1

MV Geophysical — Stage 1 (Est'd CT=126')

Database File: cork2.db
Dataset Pathname: run3/pass1.1
Presentation Format: rtstemp.prs
Dataset Creation: Sat Jun 19 08:56:13 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240

0	TEMP (degF)	150	80	TEMP (degF)	140
0	GAMMA RAY (GAPI)	100	-1	DELTA TEMP (degF)	1



0	TEMP (degF)	150	80	TEMP (degF)	140
0	GAMMA RAY (GAPI)	100	-1	DELTA TEMP (degF)	1

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:	Fri Jun 18 11:04:56 1999	
Calibrator Value:	120	GAPI
Background Reading:	54.4656	cps
Calibrator Reading:	213.709	cps
Sensitivity:	0.753563	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

MV Geophysical

DUAL INDUCTION LL3 / SP LOG

Company	LEE COUNTY UTILITIES
Well	ASR-2
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

Company LEE COUNTY UTILITIES
Well ASR-2
Field CORKSCREW ASR EXPANSION
Country LEE State/Prv FLORIDA
Location SEC 22 T46S R26E
Other Services X-Y CAL/GR FLOW

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

Date	13-JULY-99
Run Number	FOUR
Depth Driller	397'
Depth Logger	397'
Bottom Logged Interval	396'
Top Log Interval	0'
Open Hole Size	10.625"
Type Fluid	WATER
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	07:45 07/13/99
Time Logger on Bottom	09:00 07/13/99
Equipment Number	MVGS-1
Location	FT. MYERS
Recorded By	MILLER/VINCENT
Witnessed By	F.PROTA/B.NORRIS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	342.5'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"	.375" WT	SURFACE	28'
Prot. String	12"	11.25" ID	SURFACE	337'
Production String				336' LOGGER
Liner				
Invoice No.	99041			* FINAL PRINT *

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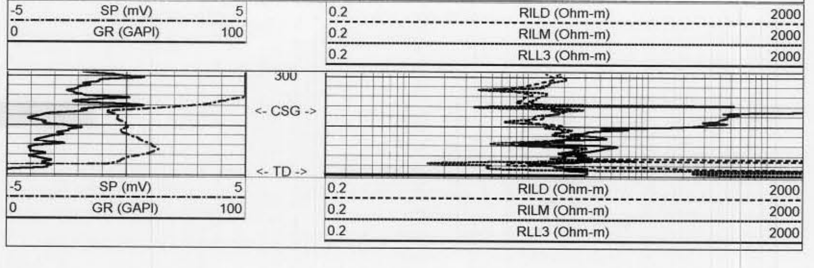
Comments

Rm=11.14 ohm-m @ 82 degF

MV Geophysical — MAIN PASS

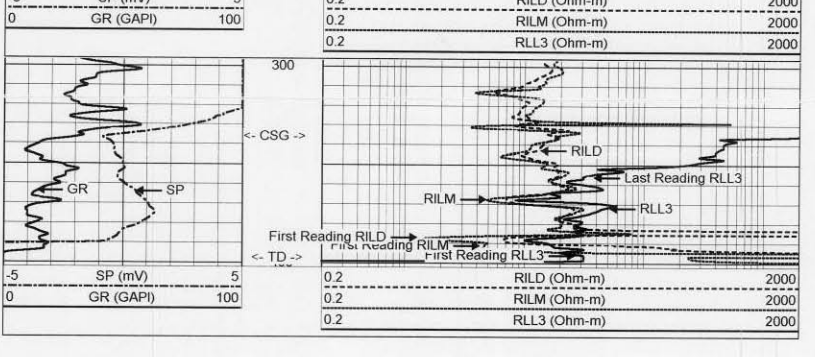
Database File: cork2.db
Dataset Pathname: run4/pass5.3
Presentation Format: dil-1.prs
Dataset Creation: Tue Jul 13 11:21:41 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:1200

-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



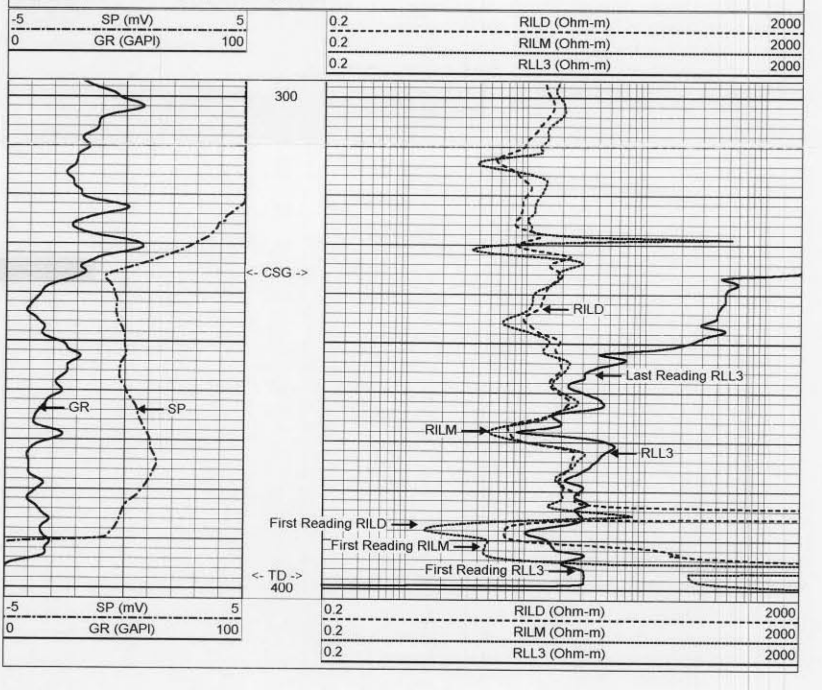
MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass5.3
Presentation Format: dil.prs
Dataset Creation: Tue Jul 13 11:21:41 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:500



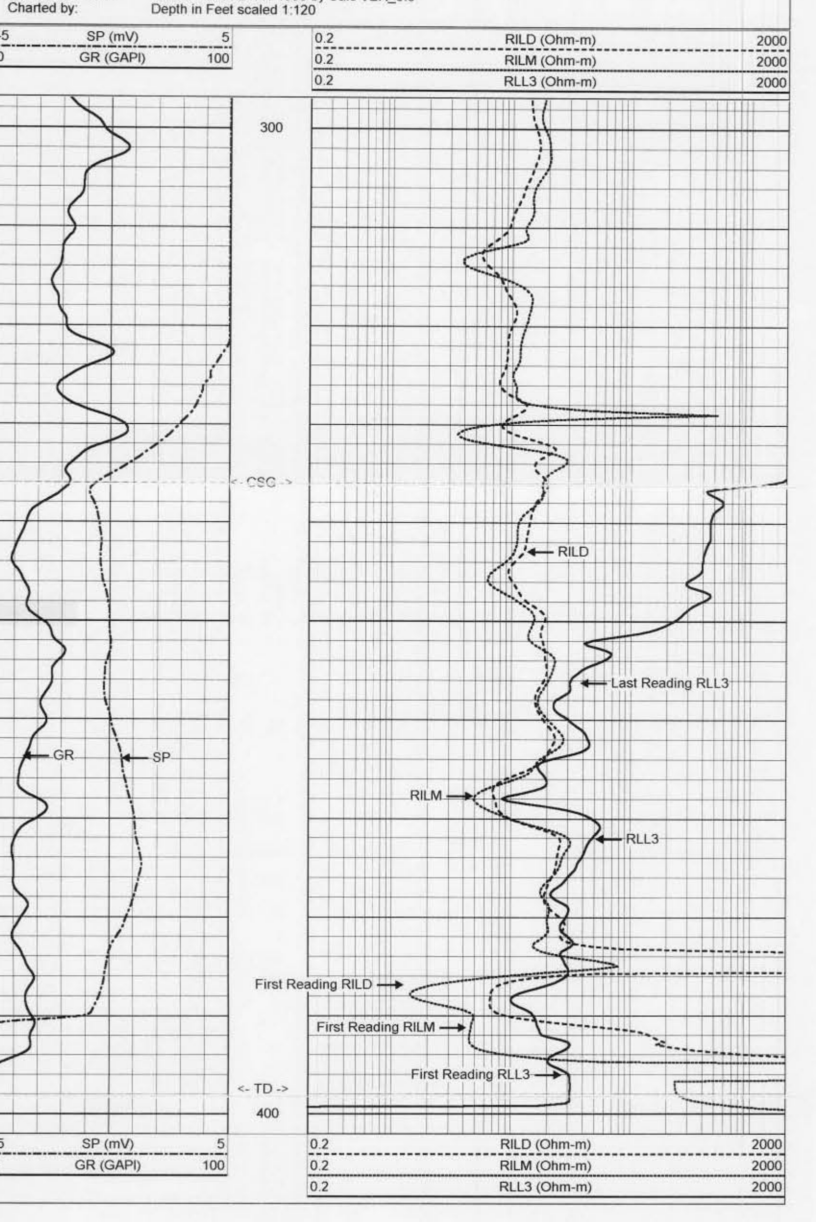
MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass5.3
Presentation Format: dil.prs
Dataset Creation: Tue Jul 13 11:21:41 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240



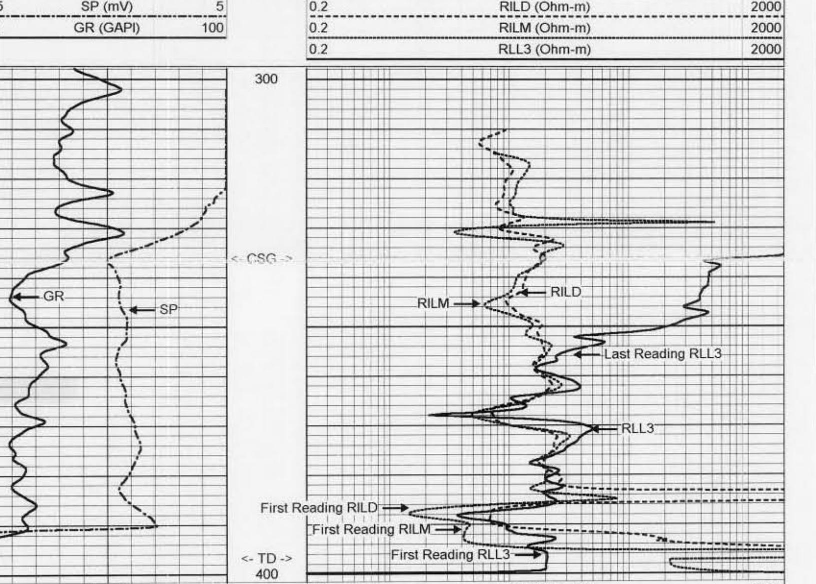
MV Geophysical — MAIN PASS

Database File: cork2.db
Dataset Pathname: run4/pass5.3
Presentation Format: dil.prs
Dataset Creation: Tue Jul 13 11:21:41 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:120



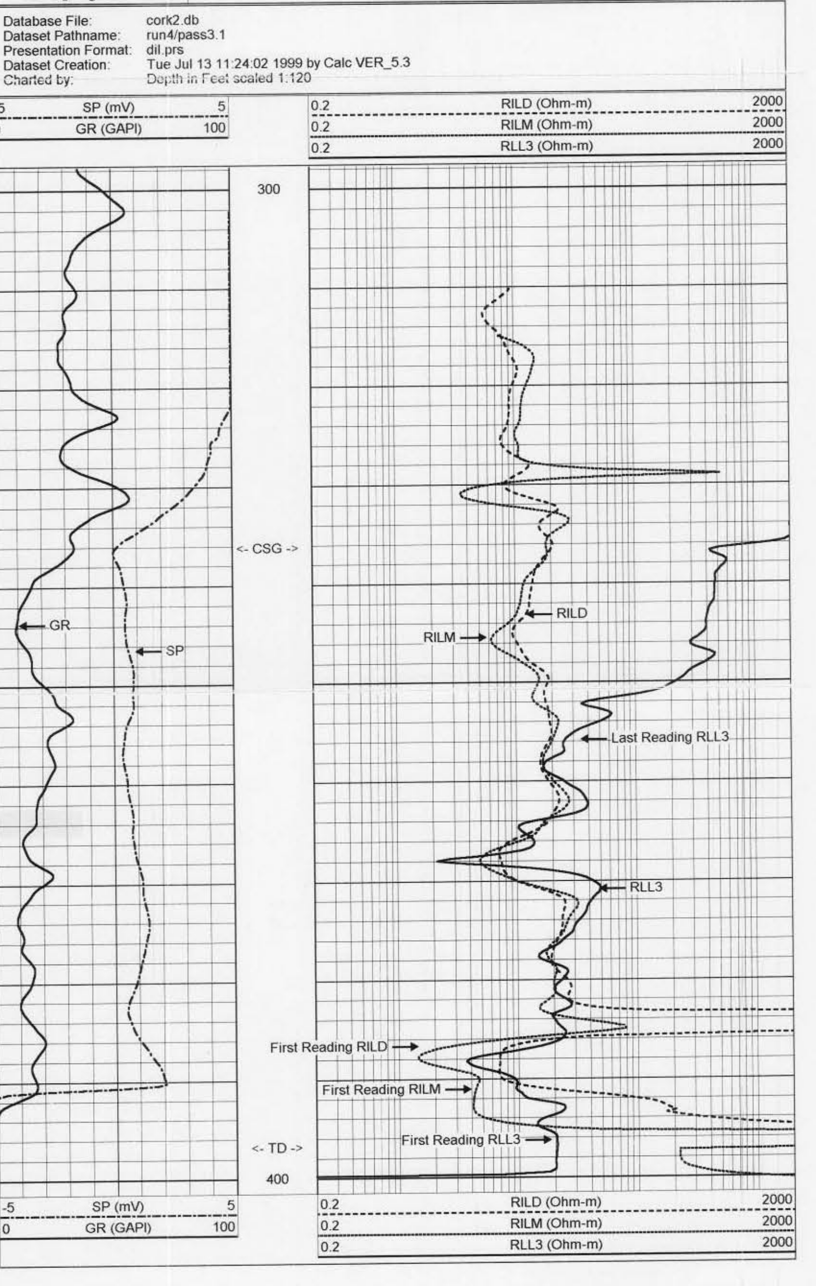
MV Geophysical — REPEAT SECTION

Database File: cork2.db
Dataset Pathname: run4/pass3.1
Presentation Format: dil.prs
Dataset Creation: Tue Jul 13 11:24:02 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:240



MV Geophysical — REPEAT SECTION

Database File: cork2.db
Dataset Pathname: run4/pass3.1
Presentation Format: dil.prs
Dataset Creation: Tue Jul 13 11:24:02 1999 by Calc VER_5.3
Charted by: Depth in Feet scaled 1:120



-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

Dual Induction Calibration Report

Serial-Model: 5390-R
Surface Cal Performed: Sat Jul 10 13:02:20 1999
Downhole Cal Performed: Tue Jul 13 08:59:58 1999
After Survey Verification Performed: Tue Jul 13 09:11:37 1999

Surface Calibration

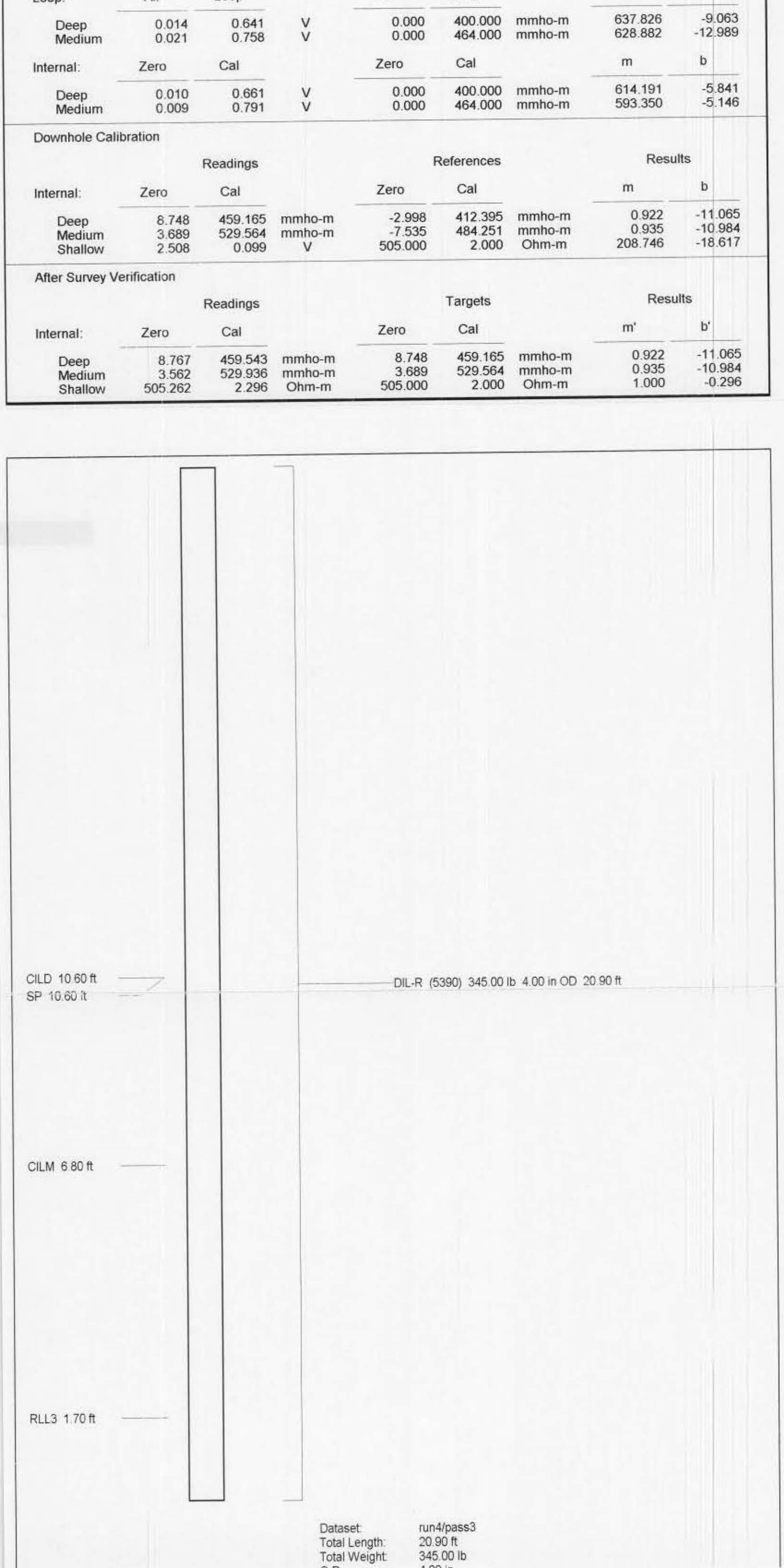
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.014	0.641	V	0.000	400.000	mmho-m	637.826	-9.063
Medium	0.021	0.758	V	0.000	464.000	mmho-m	628.882	-12.989
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.010	0.661	V	0.000	400.000	mmho-m	614.191	-5.841
Medium	0.009	0.791	V	0.000	464.000	mmho-m	593.350	-5.146

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	8.748	459.165	mmho-m	-2.998	412.395	mmho-m	0.922	-11.065
Medium	3.689	529.564	mmho-m	-7.535	484.251	mmho-m	0.935	-10.984
Shallow	2.508	0.099	V	505.000	2.000	Ohm-m	208.746	-18.617

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	8.767	459.543	mmho-m	8.748	459.165	mmho-m	0.922	-11.065
Medium	3.562	529.936	mmho-m	3.689	529.564	mmho-m	0.935	-10.984
Shallow	505.262	2.296	Ohm-m	505.000	2.000	Ohm-m	1.000	-0.296



MV Geophysical

FLOWMETER LOG

Company	LEE COUNTY UTILITIES
Well	ASR-2
Field	CORKSCREW ASR EXP.
Country	LEE
State/Prv	FLORIDA

Company LEE COUNTY UTILITIES
Well ASR-2
Field CORKSCREW ASR EXPANSION
Country LEE State/Prv FLORIDA
Location SEC 22 T46S R26E

Other Services DIL/LL3/SP XY Cal/GR

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

Date	13-JULY-99
Run Number	FOUR
Depth Driller	397'
Depth Logger	397'
Bottom Logged Interval	395'
Top Log Interval	185'
Open Hole Size	10.625"
Type Fluid	WATER
Density / Viscosity	NA/NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	07:45 07/13/99
Time Logger on Bottom	10:00 07/13/99
Equipment Number	MVGS-1
Location	FT. MYERS
Recorded By	MILLER/VINCENT
Witnessed By	F.PROCTA/B.NORRIS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	8.5"	CSG	342.5'				
TWO	17"	CSG	342.5'				
THREE	10.625"	CSG (337')	397'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	20"	.375" WT	SURFACE	28'
Prot. String	12" PVC	11.25" ID	SURFACE	337'
Production String				336' LOGGER
Liner				
Invoice No.	99041			* FINAL PRINT *

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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

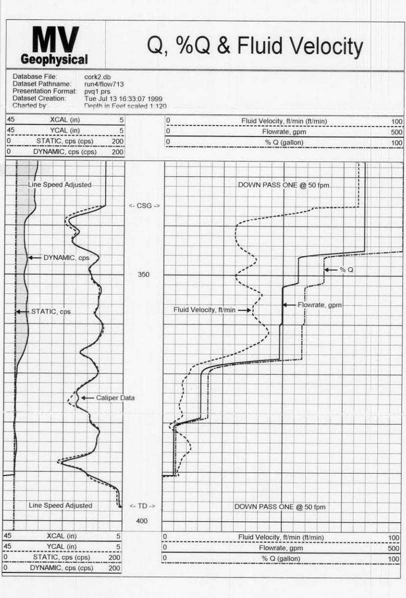
Q=420 gpm

Static, Dynamic and Stationary Flowmeter data gathered.

MV Geophysical

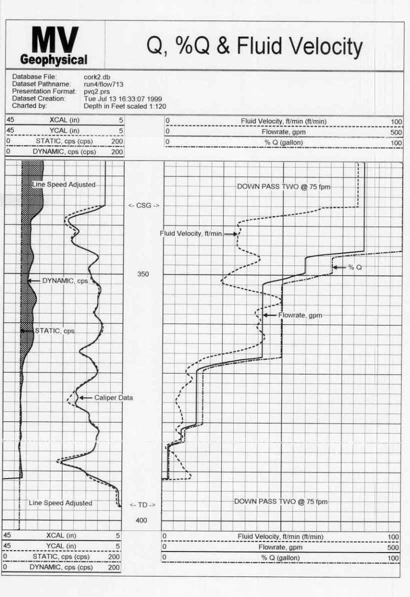
Q, %Q & Fluid Velocity

Database File: cork2.db
Dataset Pathname: run4/flow713
Presentation Format: pvq1.prs
Dataset Creation: Tue Jul 13 16:33:07 1999
Charted by: Depth in Feet scaled 1:120



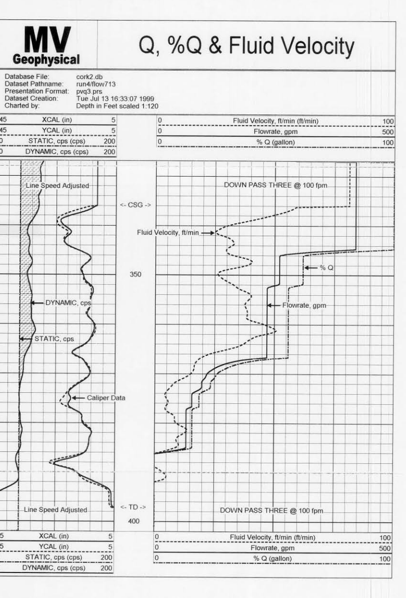
MV Geophysical

Q, %Q & Fluid Velocity



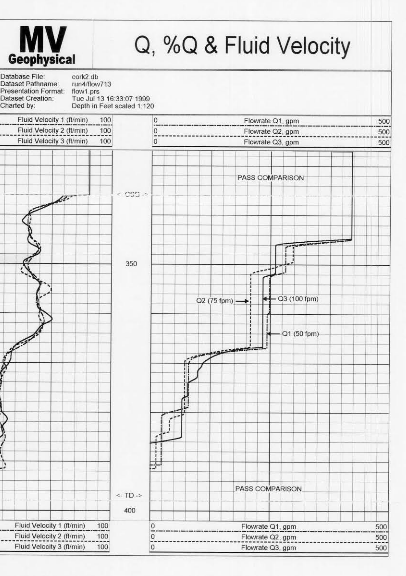
MV Geophysical

Q, %Q & Fluid Velocity



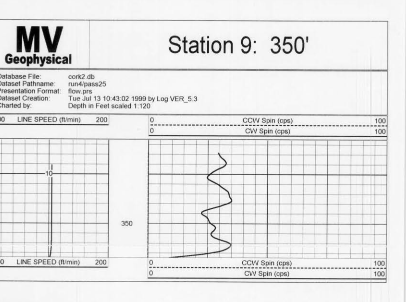
MV Geophysical

Q, %Q & Fluid Velocity



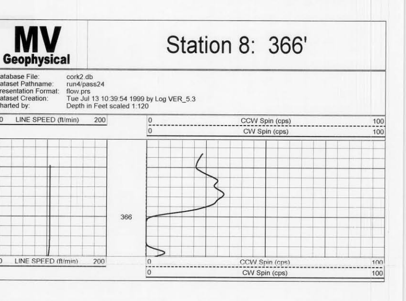
MV Geophysical

Station 9: 350'



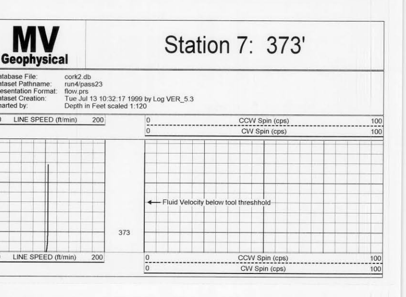
MV Geophysical

Station 8: 366'



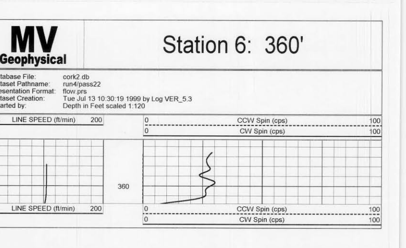
MV Geophysical

Station 7: 373'



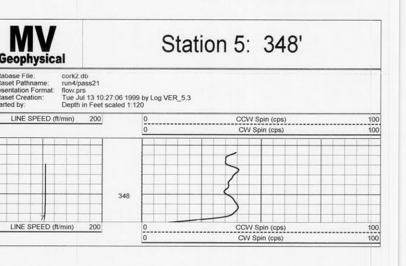
MV Geophysical

Station 6: 360'



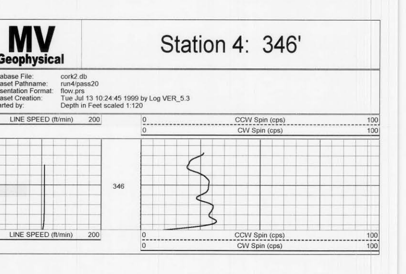
MV Geophysical

Station 5: 348'



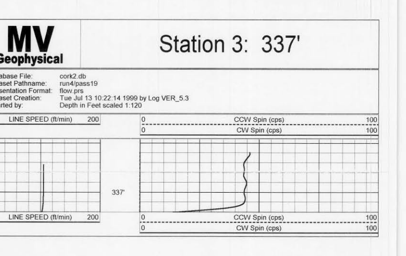
MV Geophysical

Station 4: 346'



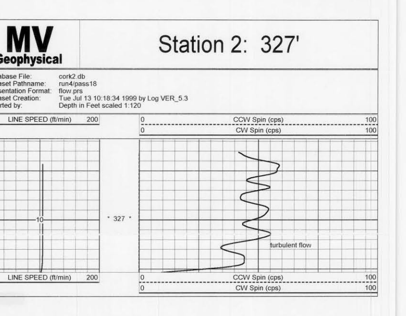
MV Geophysical

Station 3: 337'



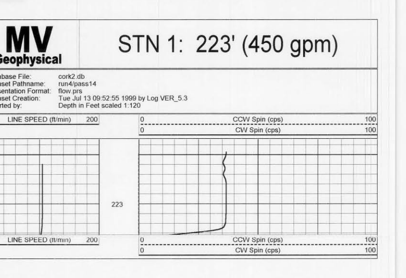
MV Geophysical

Station 2: 327'



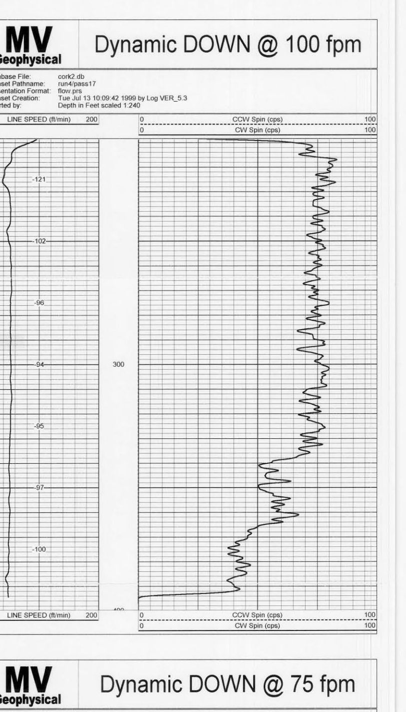
MV Geophysical

STN 1: 223' (450 gpm)



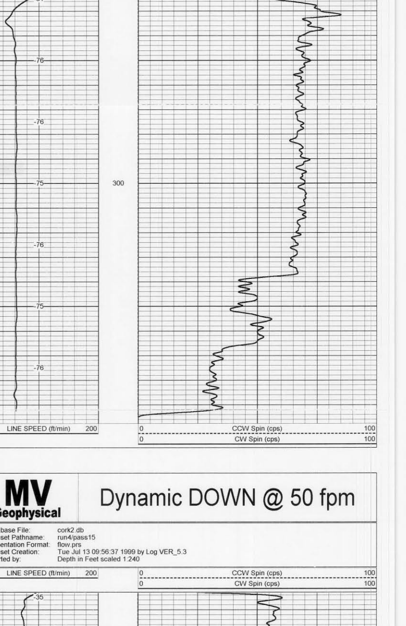
MV Geophysical

Dynamic DOWN @ 100 fpm



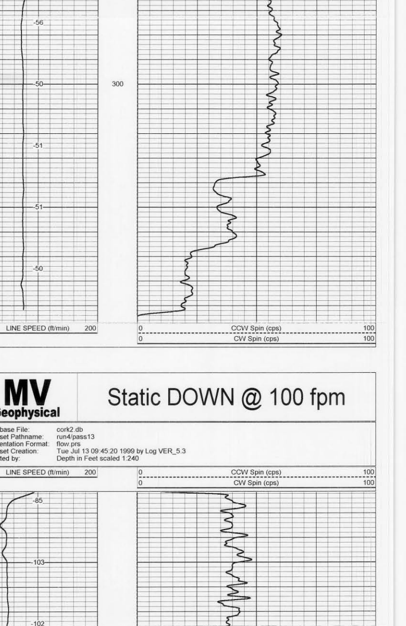
MV Geophysical

Dynamic DOWN @ 75 fpm



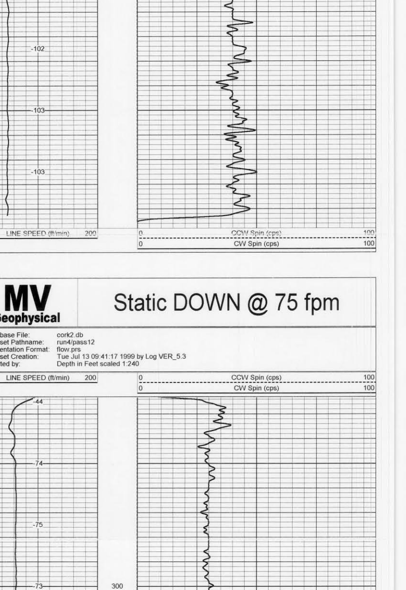
MV Geophysical

Dynamic DOWN @ 50 fpm



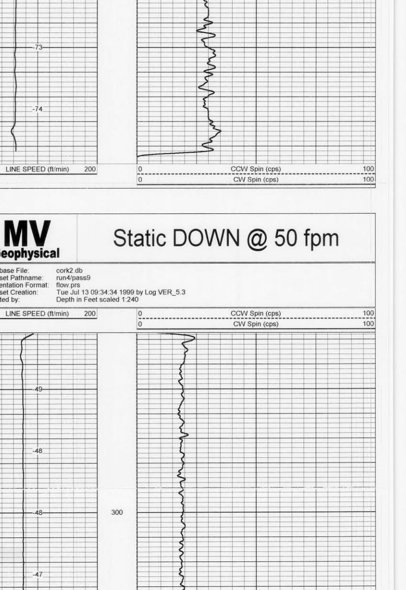
MV Geophysical

Static DOWN @ 100 fpm



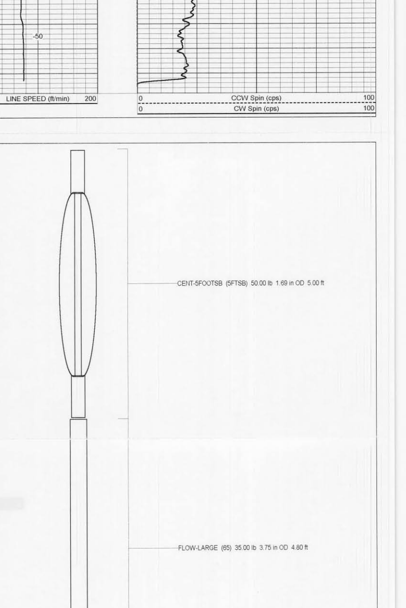
MV Geophysical

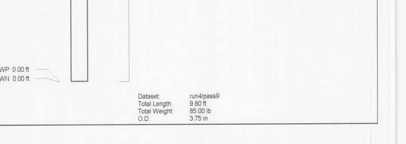
Static DOWN @ 75 fpm



MV Geophysical

Static DOWN @ 50 fpm





Dataset: run4/pass9
Total Length: 9.80 ft
Total Weight: 85.00 lb
O.D. 3.75 in