YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER
GAMMA RAY
LOG

Company CITY OF NORTH MIAMI
Well MW #1
Field NORWOOD-OEFFLER W.T.P EX
County DADE
State FLORIDA

Company CITY OF NORTH MIAMI BEACH W.T.P
Well MW #1
Field NORWOOD-OEFFLER W.T.P EXP.
County DADE State FLORIDA

Location

Other Services SEE COMMENTS

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

Date	15-NOV-2004		
Run Number	ONE		
Depth Driller	485'		
Depth Logger	485'		
Bottom Logged Interval	485'		
Top Log Interval	SURFACE		
Open Hole Size	40"		
Type Fluid	MUD		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT.MYERS		
Recorded By	LEE		
Witnessed By	GLENNY		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String				
Liner				

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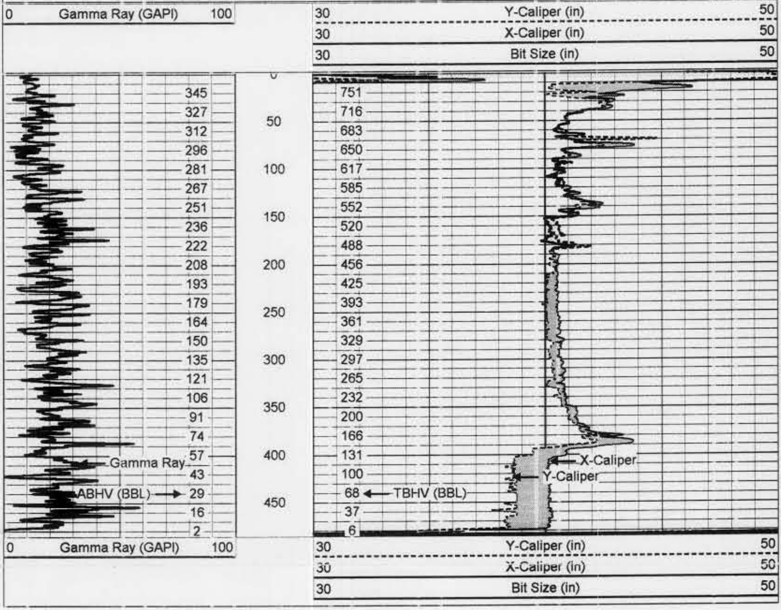
Comments

ABHV COMPUTED WITH 30" CASING
(BBLS)

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

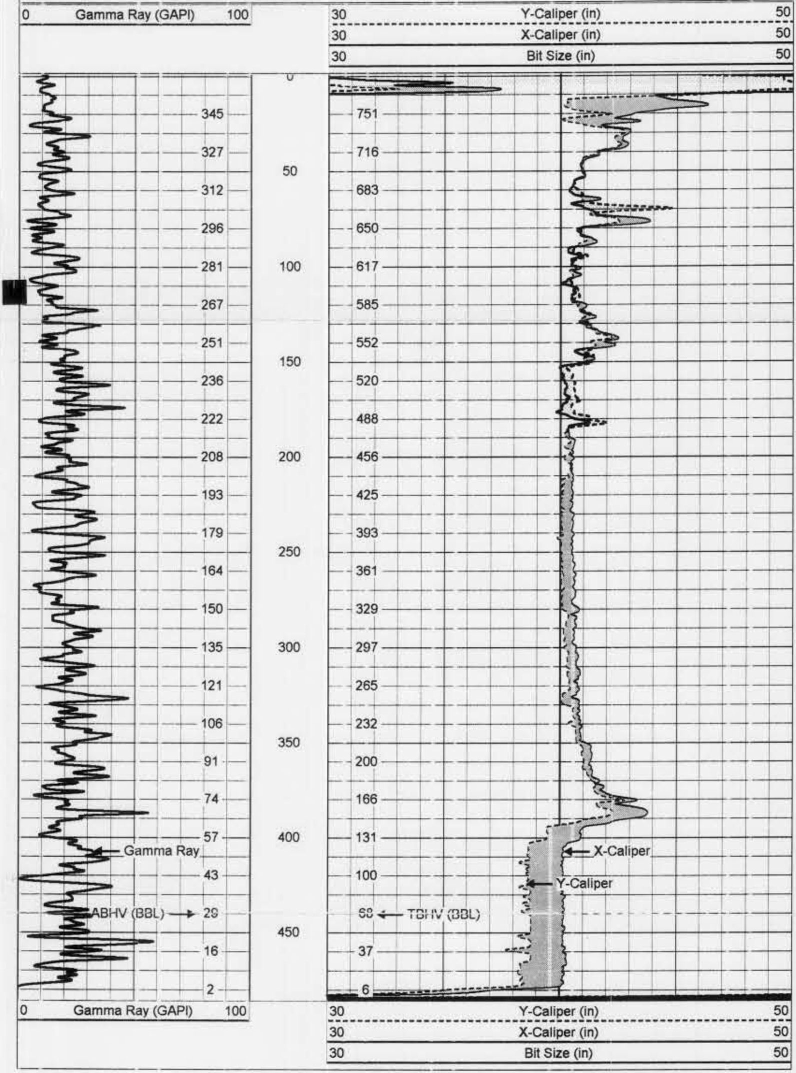
Database File:	ntmbmw1.db
Dataset Pathname:	XYC2
Presentation Format:	grxy-ahv
Dataset Creation:	Mon Nov 15 05:55:51 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:1200



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File:	ntmbmw1.db
Dataset Pathname:	XYC2
Presentation Format:	grxy-ahv
Dataset Creation:	Mon Nov 15 05:55:51 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:600

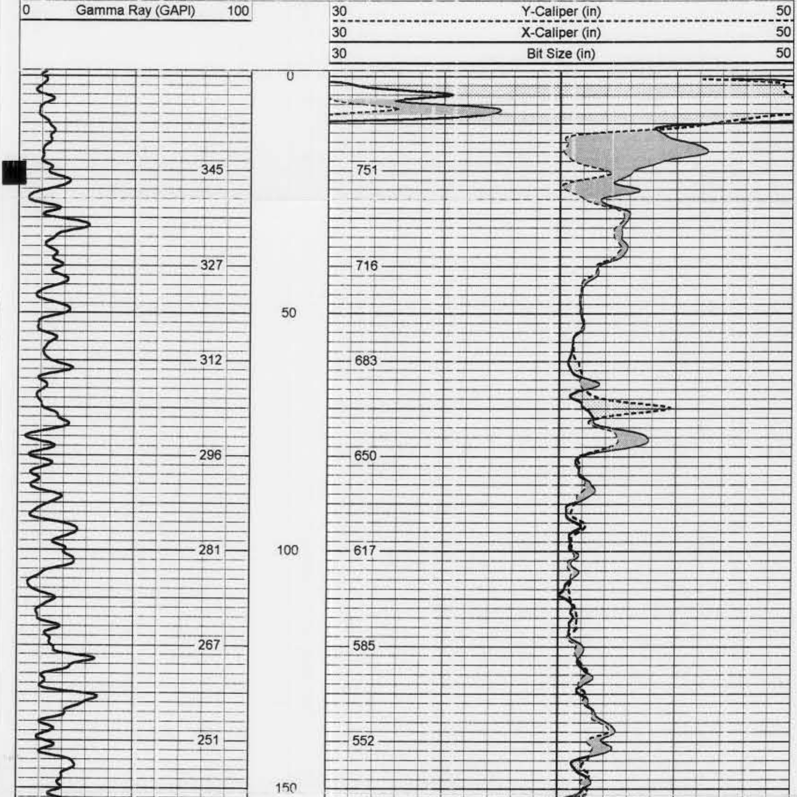


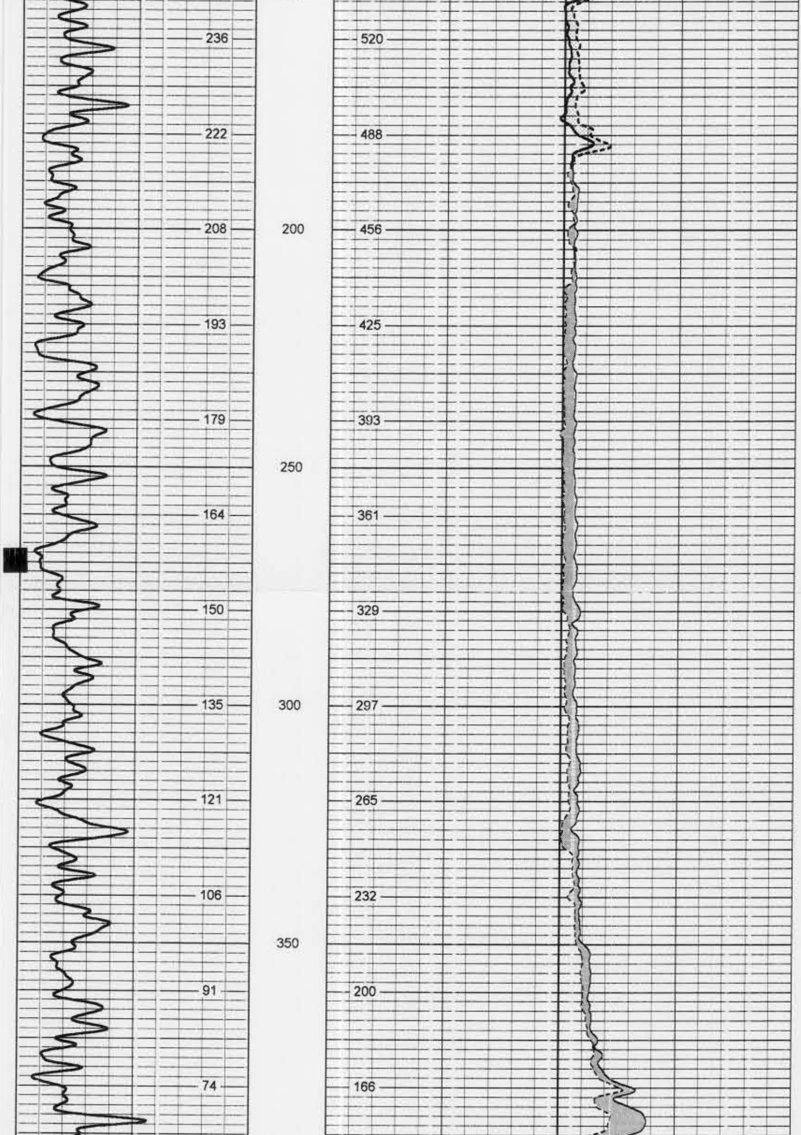
YOUNGQUIST BROTHERS, Inc

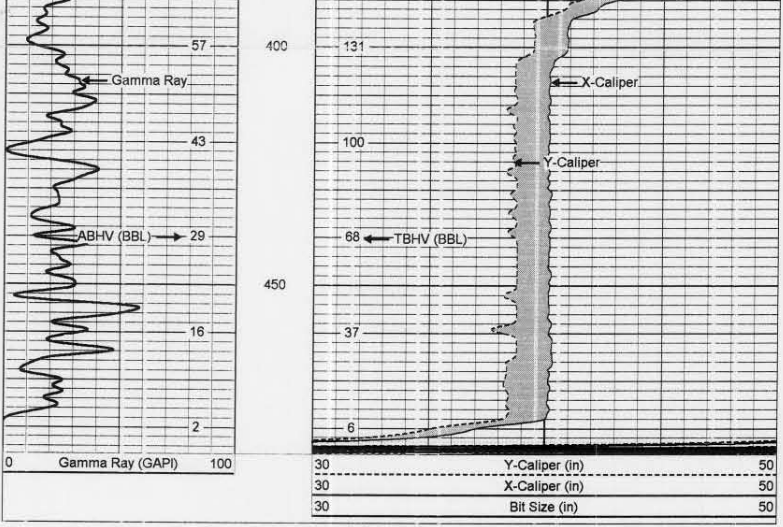
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File:	ntmbmw1.db
Dataset Pathname:	XYC2
Presentation Format:	grxy-ahv
Dataset Creation:	Mon Nov 15 05:55:51 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240



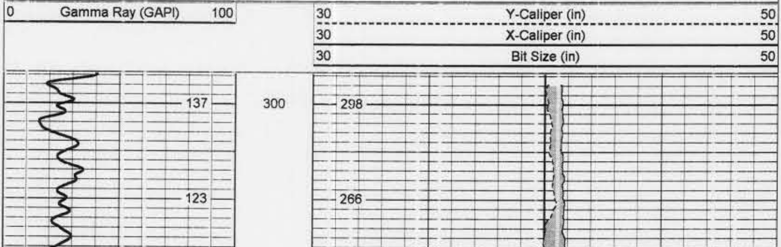


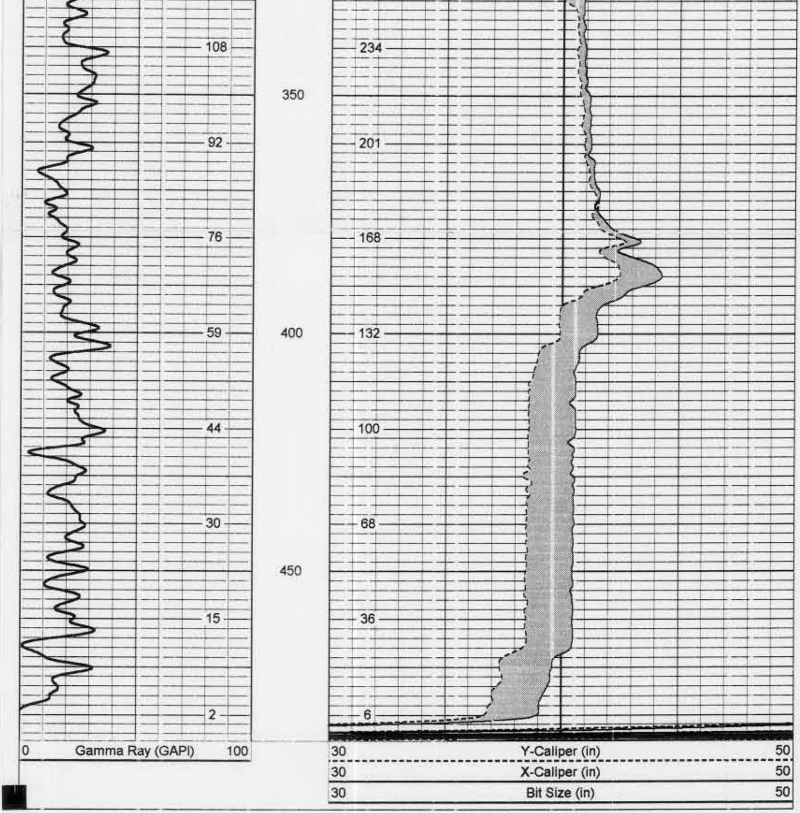


YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: ntmbmw1.db
Dataset Pathname: XYC
Presentation Format: grxy-ahv
Dataset Creation: Mon Nov 15 05:35:57 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





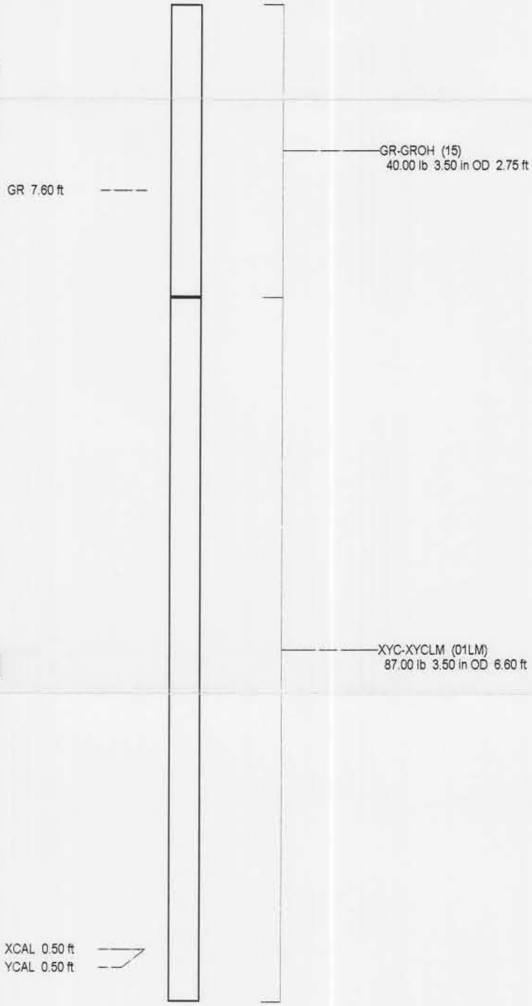
XY Caliper Calibration Report

Serial Number/Model: 01LM-XYCLM
Performed: Mon Nov 15 05:24:46 2004

Ring			X Caliper		Y Caliper	
1:	10	in	609.81	cps	589.089	cps
2:	20	in	687.487	cps	672.573	cps
3:	30	in	784.184	cps	755.556	cps
4:	40	in	872.072	cps	844.144	cps
5:	50	in	973.674	cps	950.851	cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	15	
Tool Model:	GROH	
Performed:	Fri Nov 05 11:40:27 2004	
Calibrator Value:	120	GAPI
Background Reading:	3.2032	cps
Calibrator Reading:	22.5225	cps
Sensitivity:	6.2114	GAPI/cps



Dataset:	run1/XYC2
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

DUAL INDUCTION LL3/SP LOG

Company	CITY OF NORTH MIAMI
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EX
County	DADE
State	FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P		
Well	MW #1		
Field	NORWOOD-OEFFLER W.T.P EXP.		
County	DADE	State	FLORIDA

Location

Other Services
SEE COMMENTS

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

Date	19-NOV-2004		
Run Number	TWO		
Depth Driller	985'		
Depth Logger	985'		
Bottom Logged Interval	985'		
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	ON ARRIVAL		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT.MYERS		
Recorded By	LEE		
Witnessed By	ROTHFUSS		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String				
Production String				
Liner				

<<< Fold Here >>>

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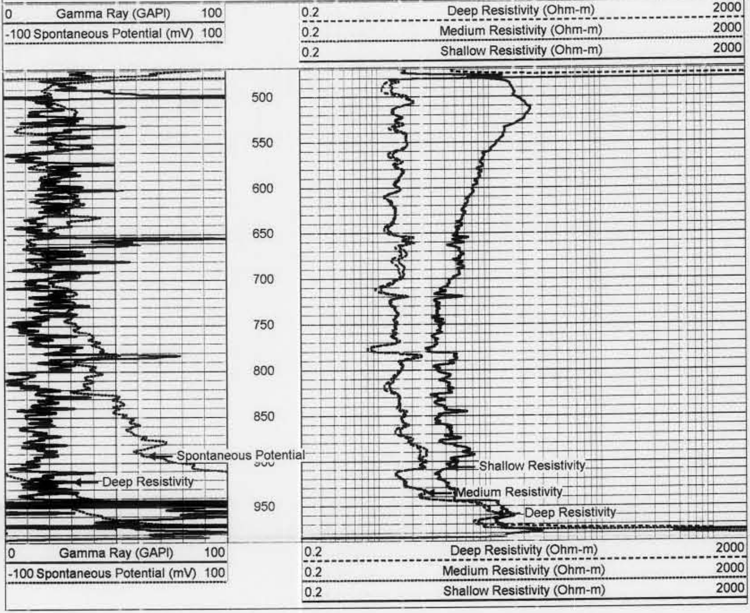
Comments

DIL/LL3/SP

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

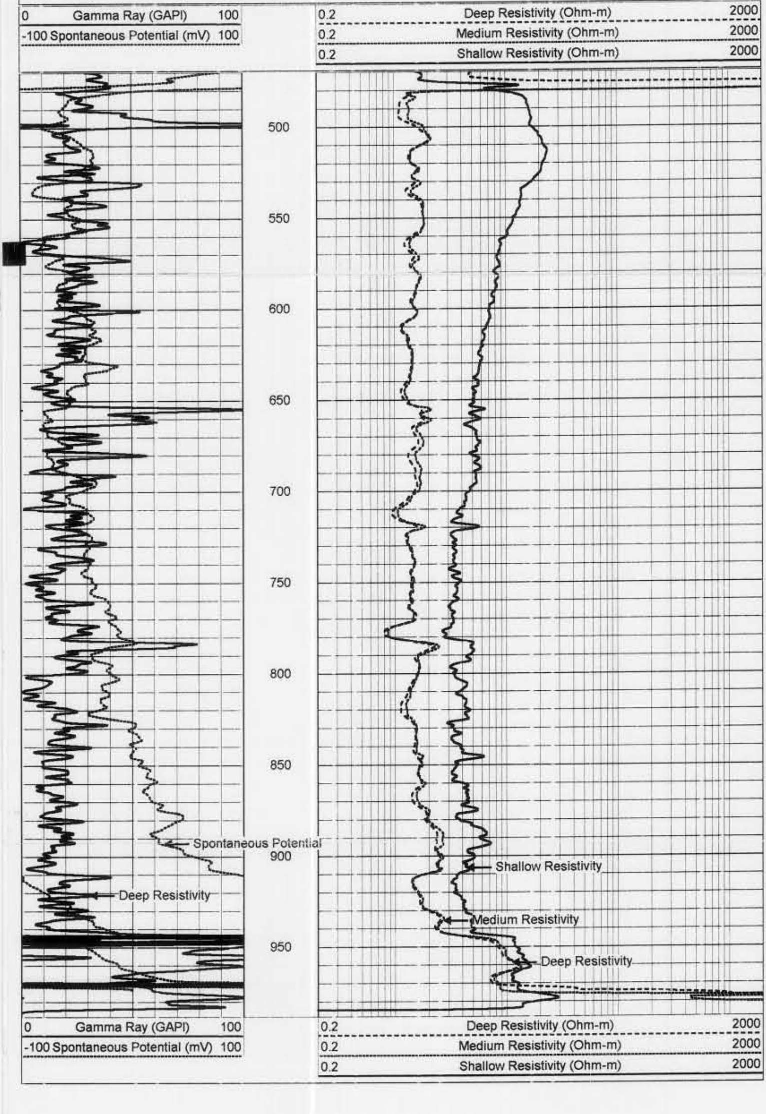
Database File: ntmbmw1.db
Dataset Pathname: run2/DILMP
Presentation Format: dil
Dataset Creation: Fri Nov 19 01:16:23 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run2/DILMP
Presentation Format: dil
Dataset Creation: Fri Nov 19 01:16:23 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

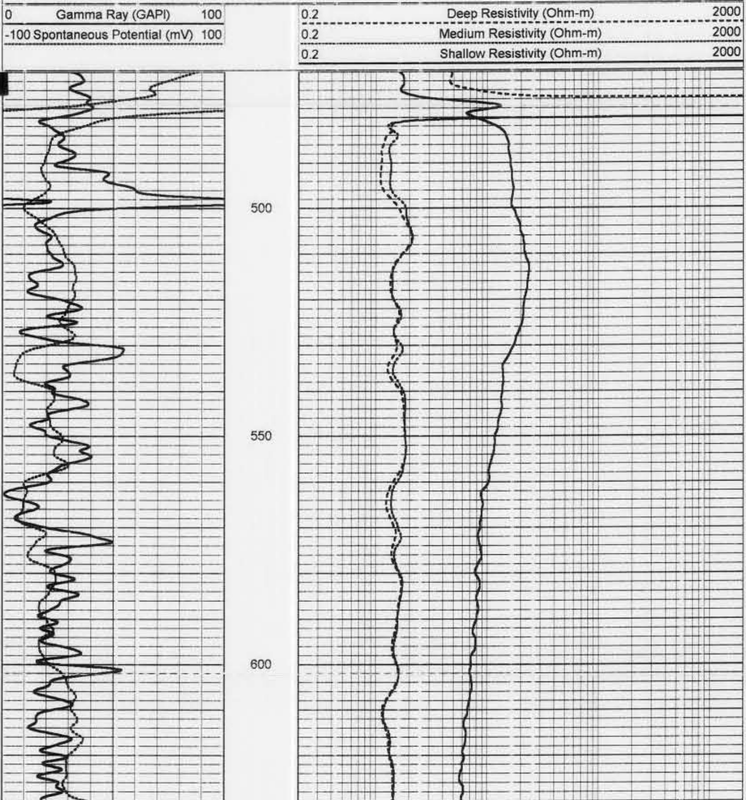


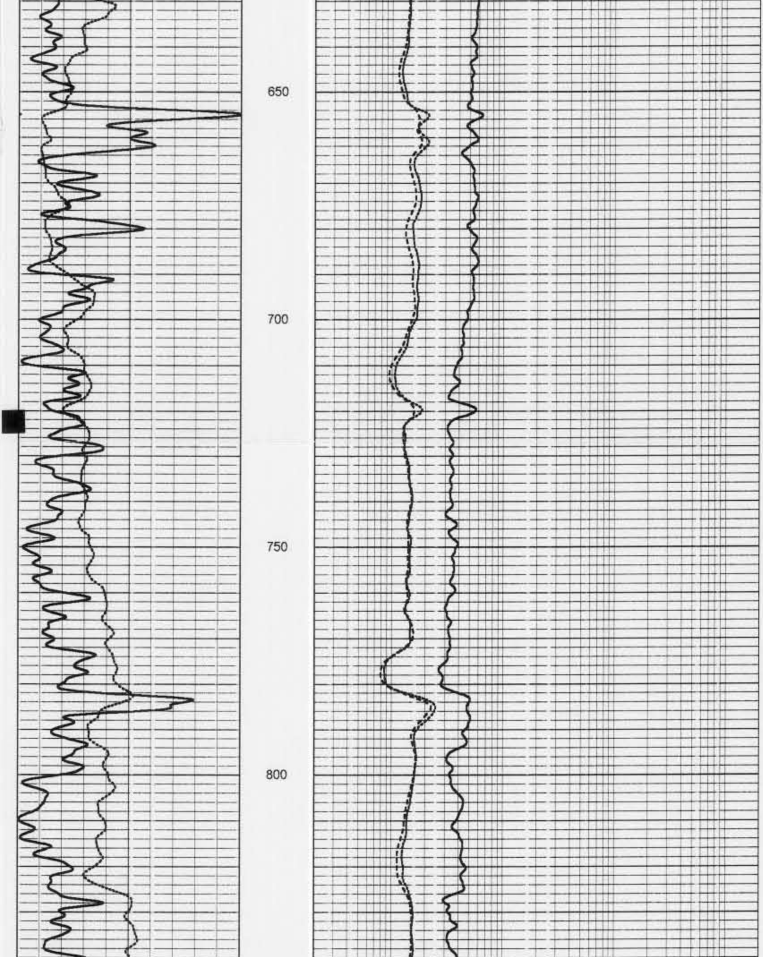
YOUNGQUIST BROTHERS, Inc

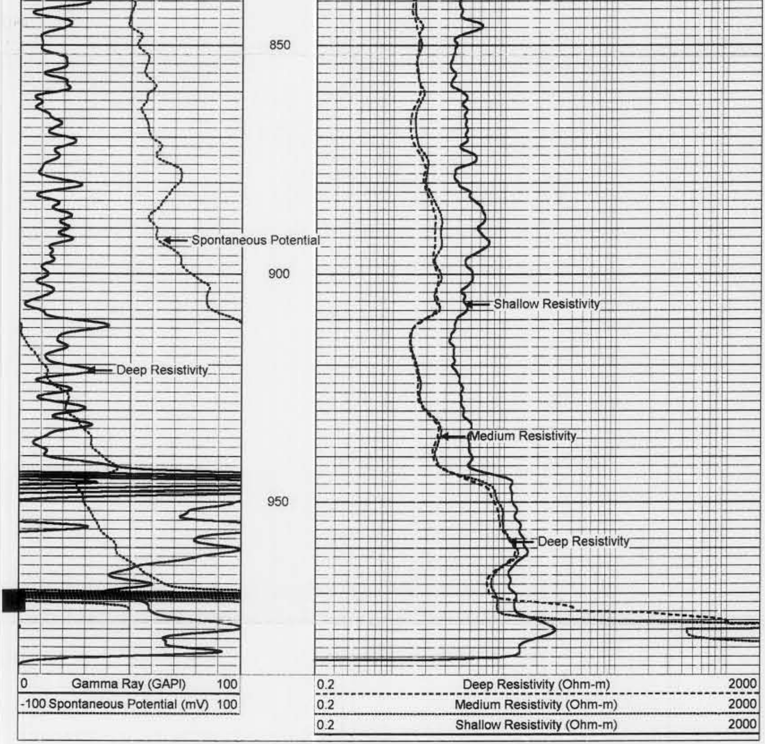
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run2/DILMP
Presentation Format: dil
Dataset Creation: Fri Nov 19 01:16:23 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





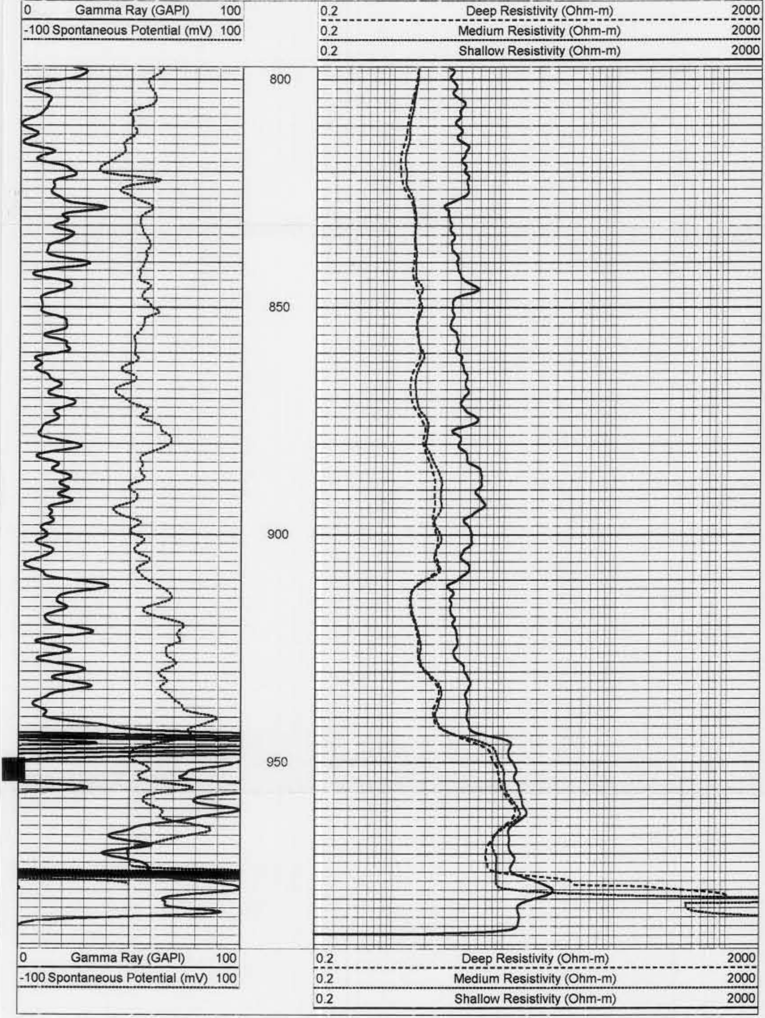


YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: ntmbmw1.db
Dataset Pathname: run2/DILRP
Presentation Format: dil
Dataset Creation: Fri Nov 19 01:12:29 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



Dual Induction Calibration Report

Serial-Model:	0606-R
Surface Cal Performed:	Thu Apr 22 13:19:43 2004
Downhole Cal Performed:	Fri Nov 19 01:07:00 2004
After Survey Verification Performed:	Fri Nov 19 01:07:00 2004

Surface Calibration

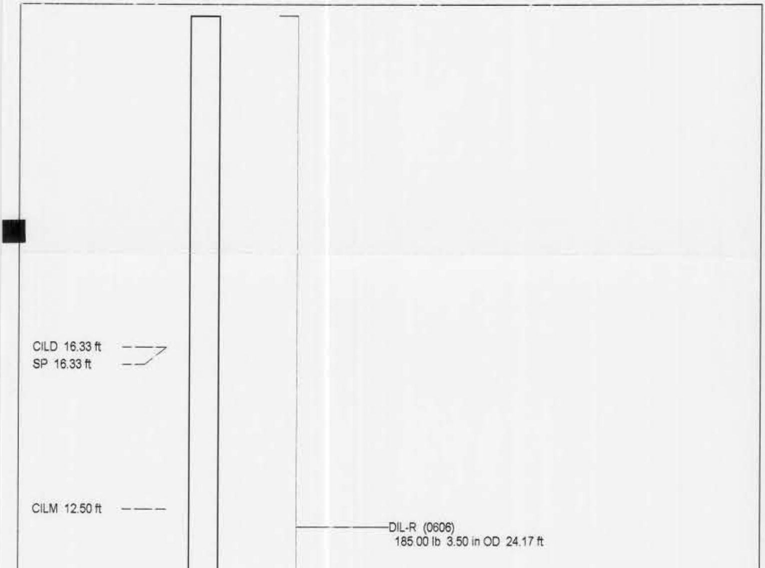
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.027	0.642	V	0.000	400.000	mmho-m	597.907	16.143
Medium	-0.012	0.799	V	0.000	464.000	mmho-m	572.133	6.866
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.008	0.617	V	20.920	384.470	mmho-m	596.963	16.144
Medium	0.012	0.736	V	12.740	427.710	mmho-m	573.164	5.862

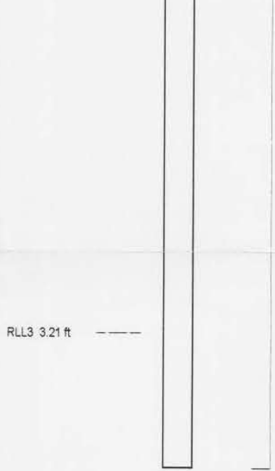
Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	19.786	401.448	mmho-m	19.289	388.610	mmho-m	0.968	0.143
Medium	17.415	451.624	mmho-m	7.432	433.713	mmho-m	0.982	-9.665
Shallow	0.036	2.372	V	13.000	1300.000	Ohm-m	550.768	-6.652

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho-m	19.786	401.448	mmho-m	0.968	0.143
Medium	0.000	0.000	mmho-m	17.415	451.624	mmho-m	0.982	-9.665
Shallow	0.000	0.000	Ohm-m	13.000	1300.000	Ohm-m	1.000	0.000





Dataset:	run2/DILMP
Total Length:	24.17 ft
Total Weight:	185.00 lb
O.D.	3.50 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER
GAMMA RAY
LOG

Company	CITY OF NORTH MIAMI
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EX
County	DADE
State	FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P		
Well	MW #1		
Field	NORWOOD-OEFFLER W.T.P EXP.		
County	DADE	State	FLORIDA

Location	Other Services SEE COMMENTS

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

Date	19-NOV-2004		
Run Number	TWO		
Depth Driller	985'		
Depth Logger	985'		
Bottom Logged Interval	985'		
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	ON ARRIVAL		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT.MYERS		
Recorded By	LEE		
Witnessed By	ROTHFUSS		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String				
Production String				
Liner				

<<< Fold Here >>>

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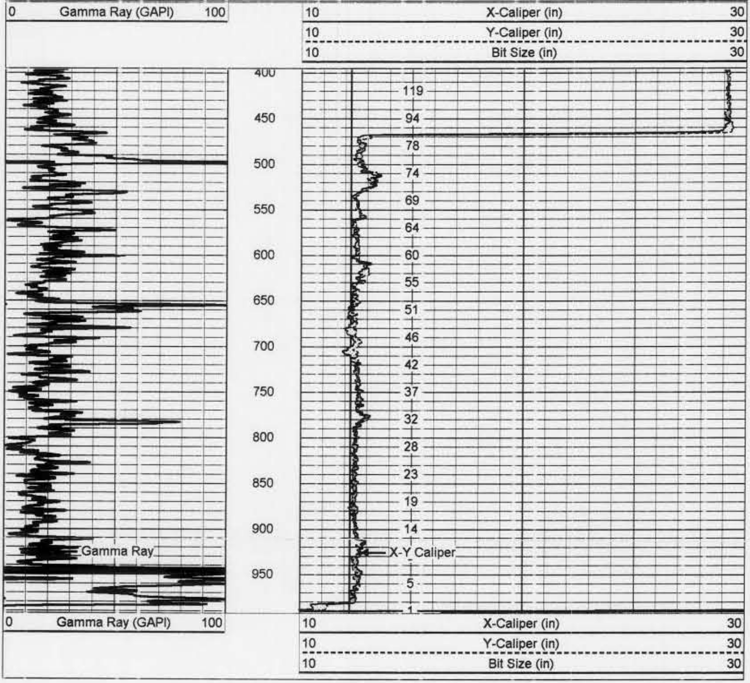
Comments

DIL/LL3/SP

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

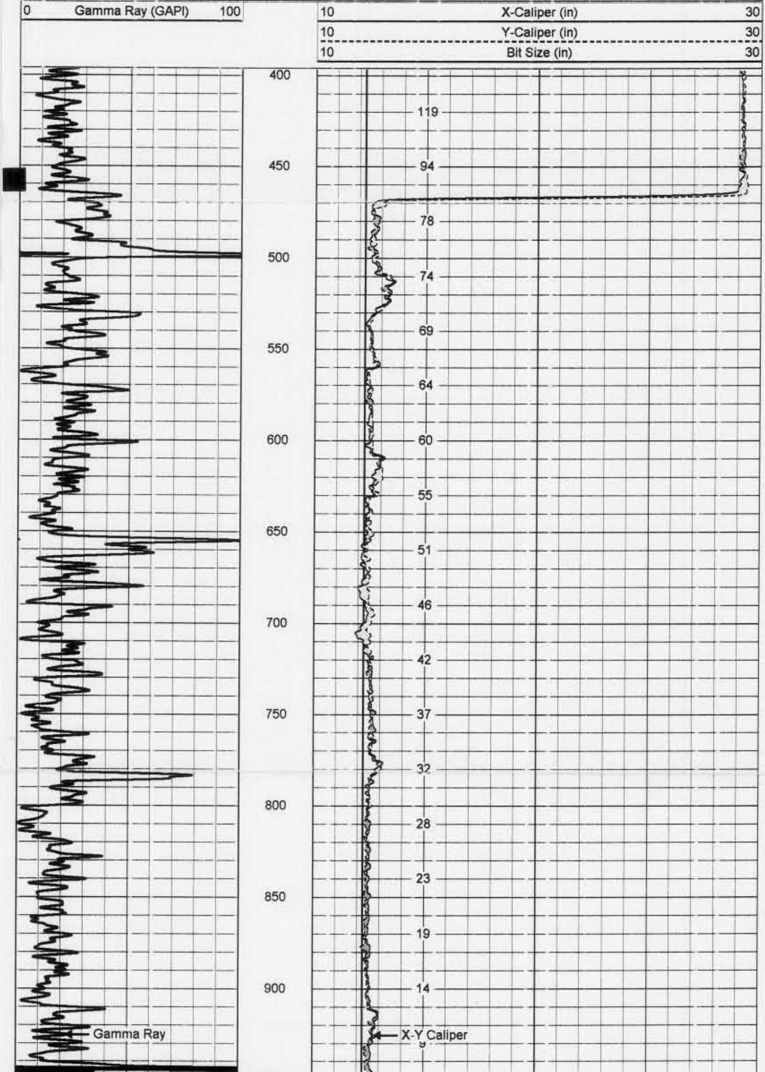
Database File:	ntmbmw1.db
Dataset Pathname:	run2/XYC1
Presentation Format:	grxyc
Dataset Creation:	Fri Nov 19 00.47.29 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:1200

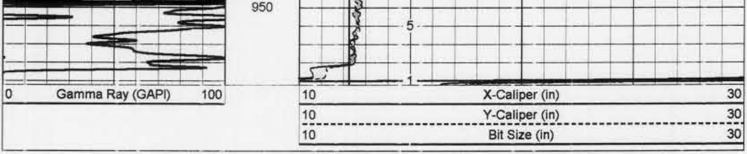


YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run2/XYC1
Presentation Format: grxyc
Dataset Creation: Fri Nov 19 00:47:29 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

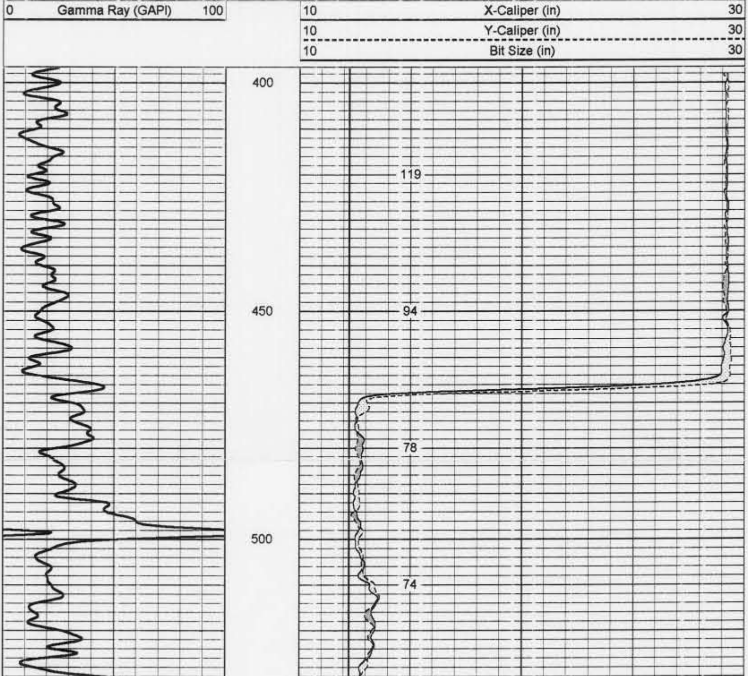


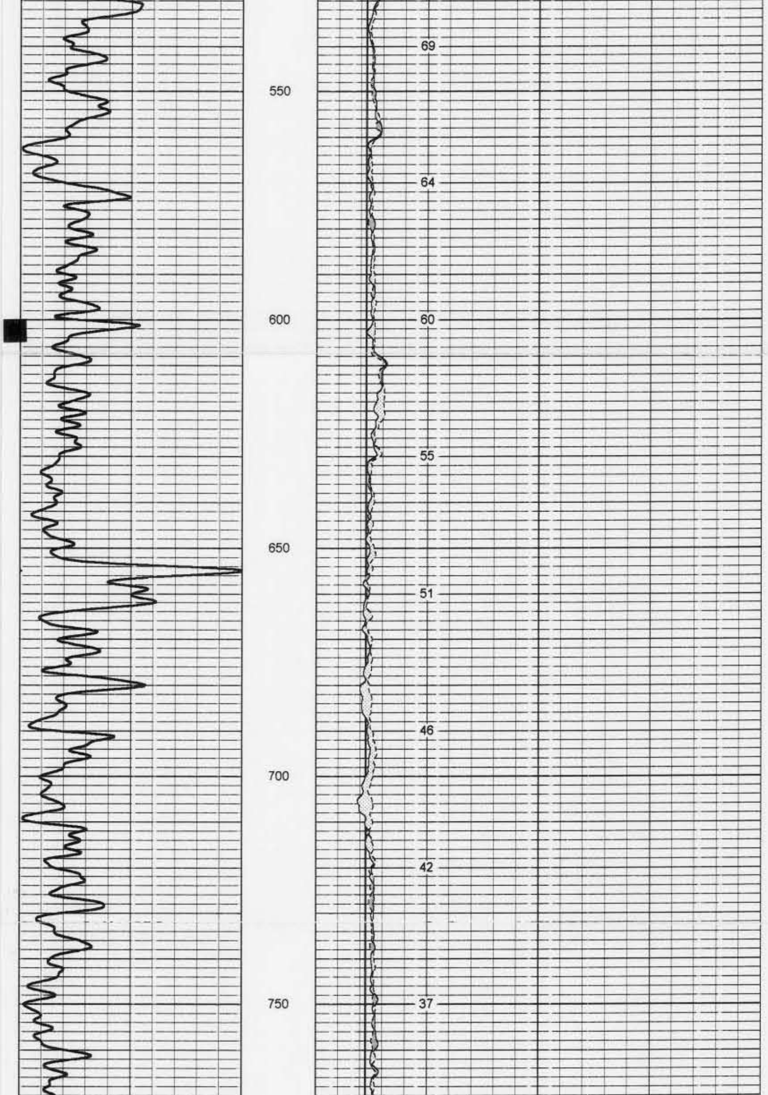


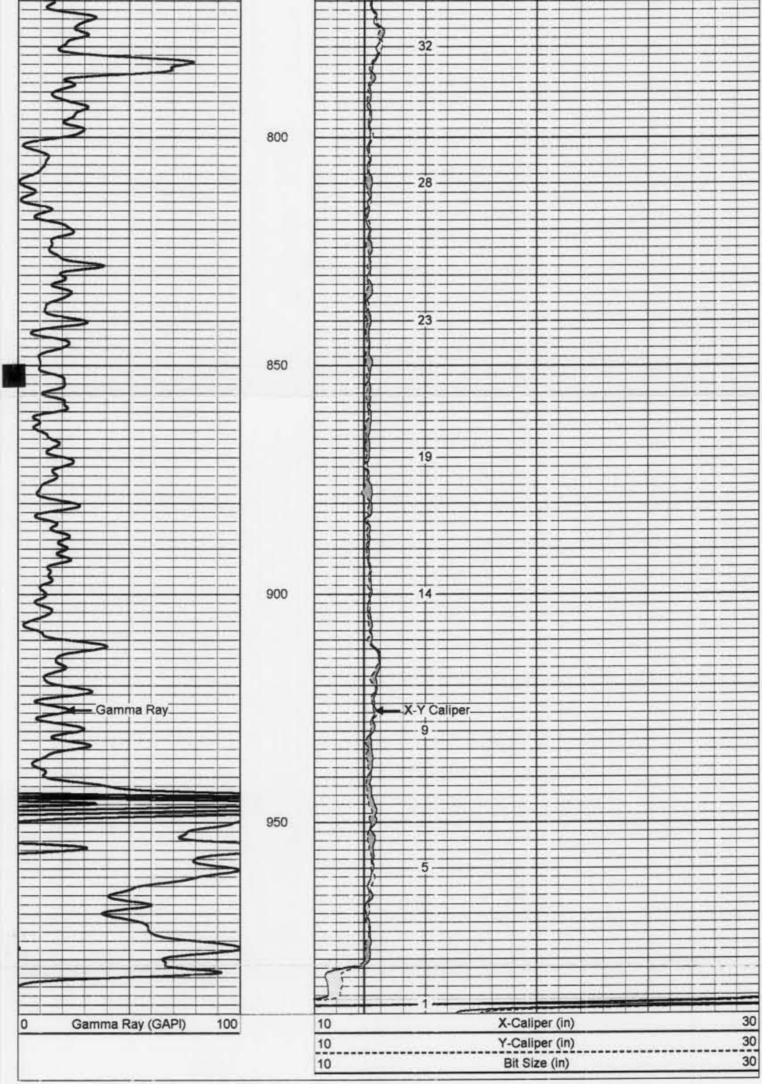
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run2/XYC1
Presentation Format: grxyc
Dataset Creation: Fri Nov 19 00:47:29 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





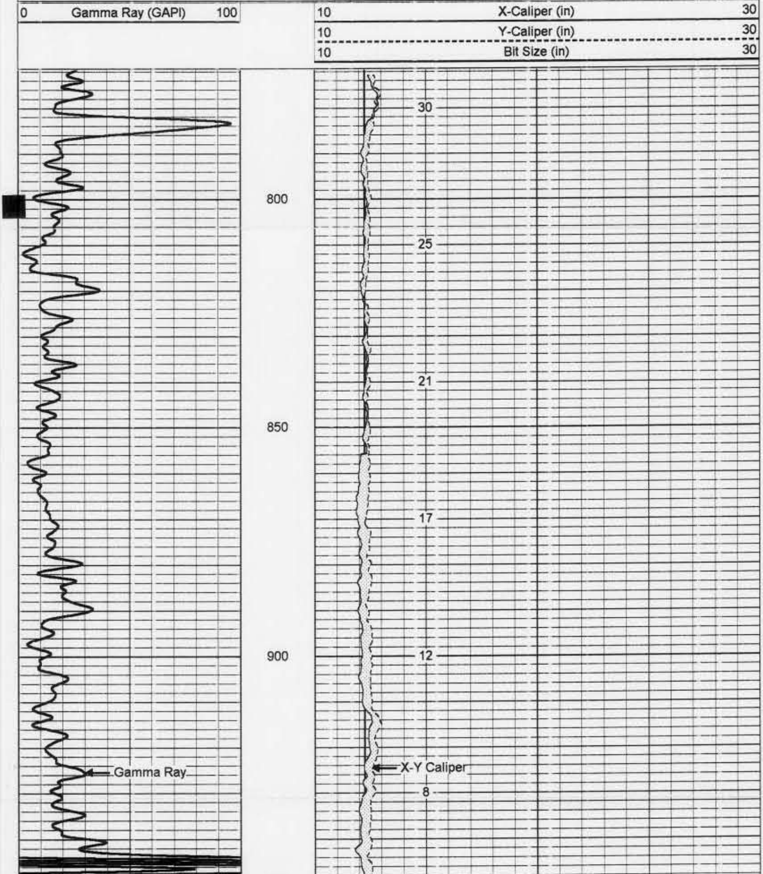


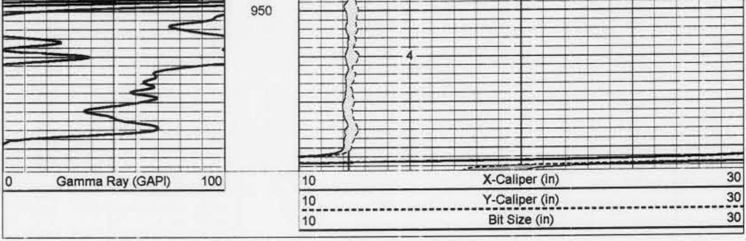
YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File:	ntmbmw1.db
Dataset Pathname:	run2/XYC
Presentation Format:	grxyc
Dataset Creation:	Fri Nov 19 00:30:04 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240





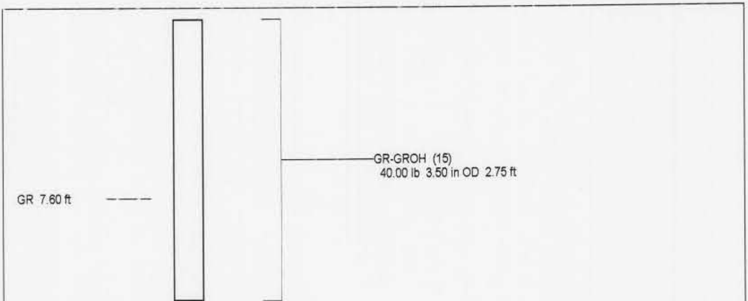
XY Caliper Calibration Report

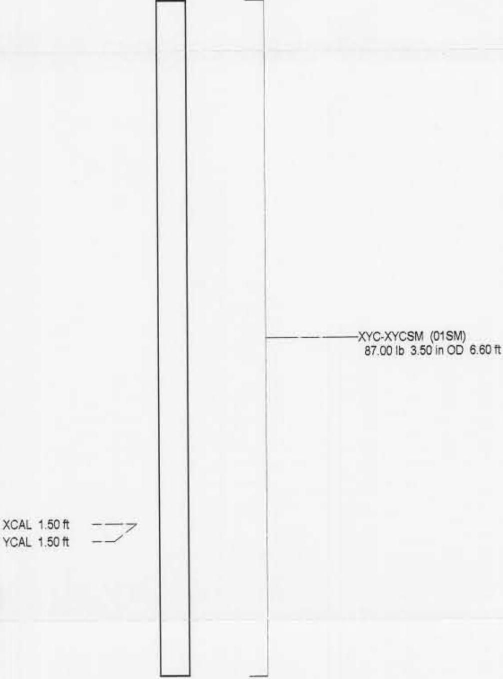
Serial Number/Model: 01SM-XYCSM
Performed: Fri Nov 19 00:32:18 2004

Ring			X Caliper		Y Caliper	
1:	10	in	412.413	cps	406.708	cps
2:	12.25	in	440	cps	531.431	cps
3:	20	in	550.751	cps	681.281	cps
4:	30	in	718.518	cps	828.729	cps
5:	40	in	888.989	cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	15	
Tool Model:	GROH	
Performed:	Fri Nov 19 00:22:54 2004	
Calibrator Value:	120	GAPI
Background Reading:	3.2032	cps
Calibrator Reading:	22.5226	cps
Sensitivity:	6.21137	GAPI/cps





Dataset:	run2/XYC1
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

Company CITY OF NORTH MIAMI
Well MW #1
Field NORWOOD-OEFFLER W.T.P EX
County DADE
State FLORIDA

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER GAMMA RAY LOG

Company	CITY OF NORTH MIAMI BEACH W.T.P
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EXP.
County	DADE
State	FLORIDA
Location	
Other Services	SEE COMMENTS

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

Date	23-NOV-2004		
Run Number	THREE		
Depth Driller	970'		
Depth Logger	970'		
Bottom Logged Interval	970'		
Top Log Interval	CASING		
Open Hole Size	28.5"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	0000		
Equipment Number	102		
Location	FT.MYERS		
Recorded By	LEE		
Witnessed By	ROTHFUSS		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String				
Production String				
Liner				

<<< Fold Here >>>

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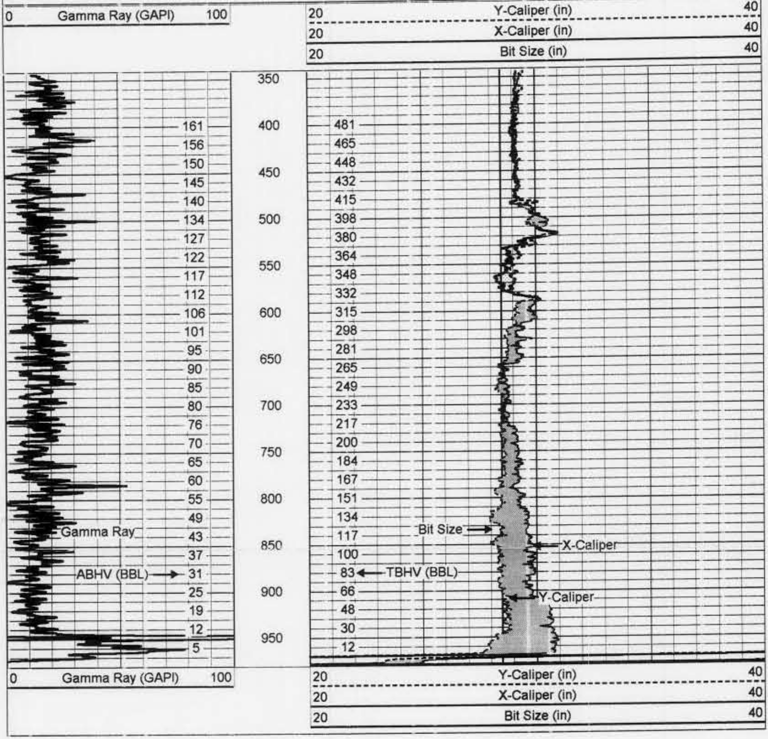
Comments

ABHV COMPUTED WITH 24" CASING
(BBLS)

YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run3/XYCMP
Presentation Format: grxy-ahv
Dataset Creation: Tue Nov 23 04:50:44 2004 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:1200

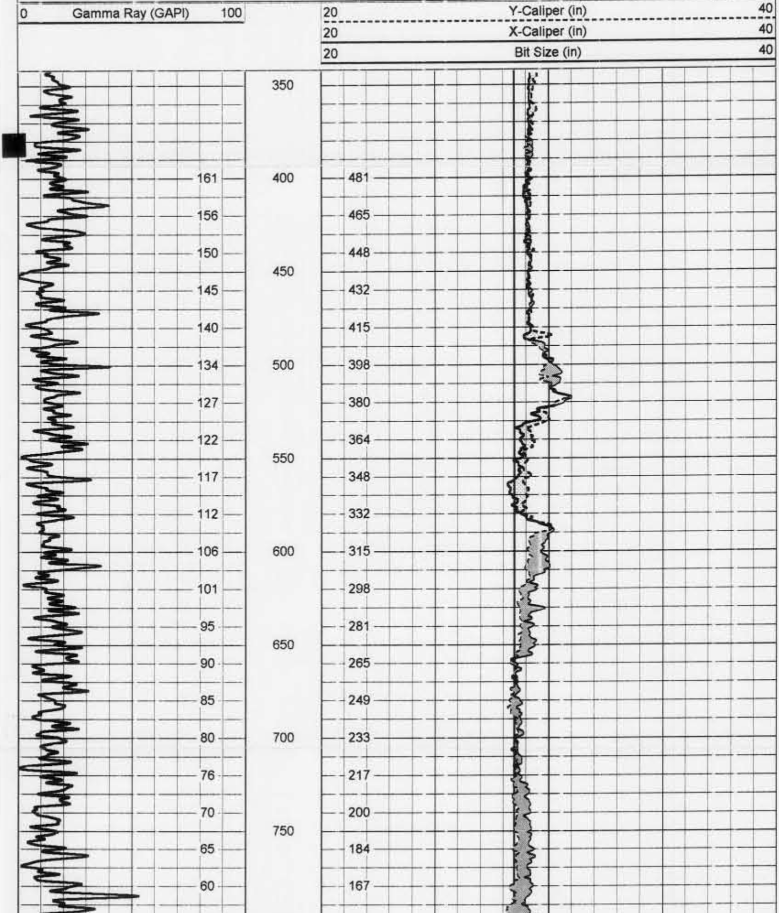


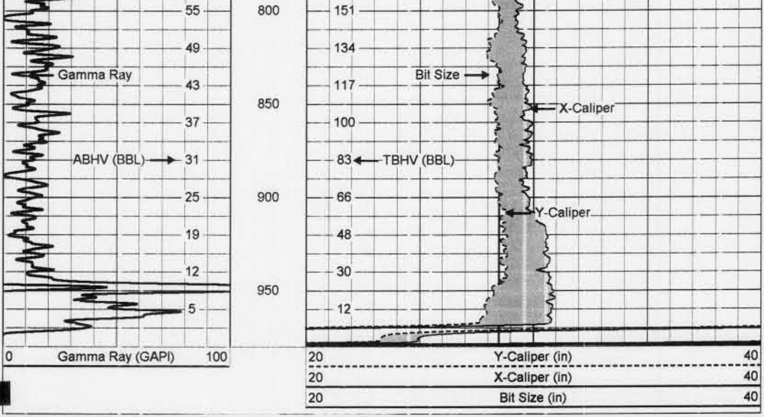
YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File:	ntmbmw1.db
Dataset Pathname:	run3/XYCMP
Presentation Format:	grxy-ahv
Dataset Creation:	Tue Nov 23 04:50:44 2004 by Calc 6.2_B4
Charted by:	Depth in Feet scaled 1:600

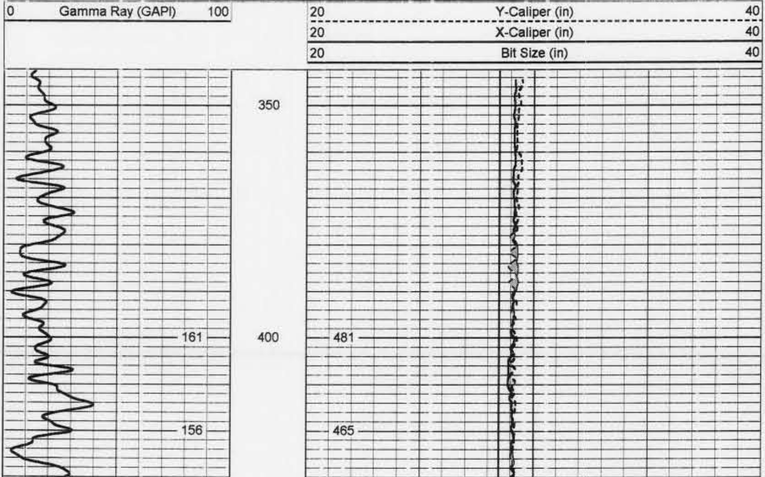


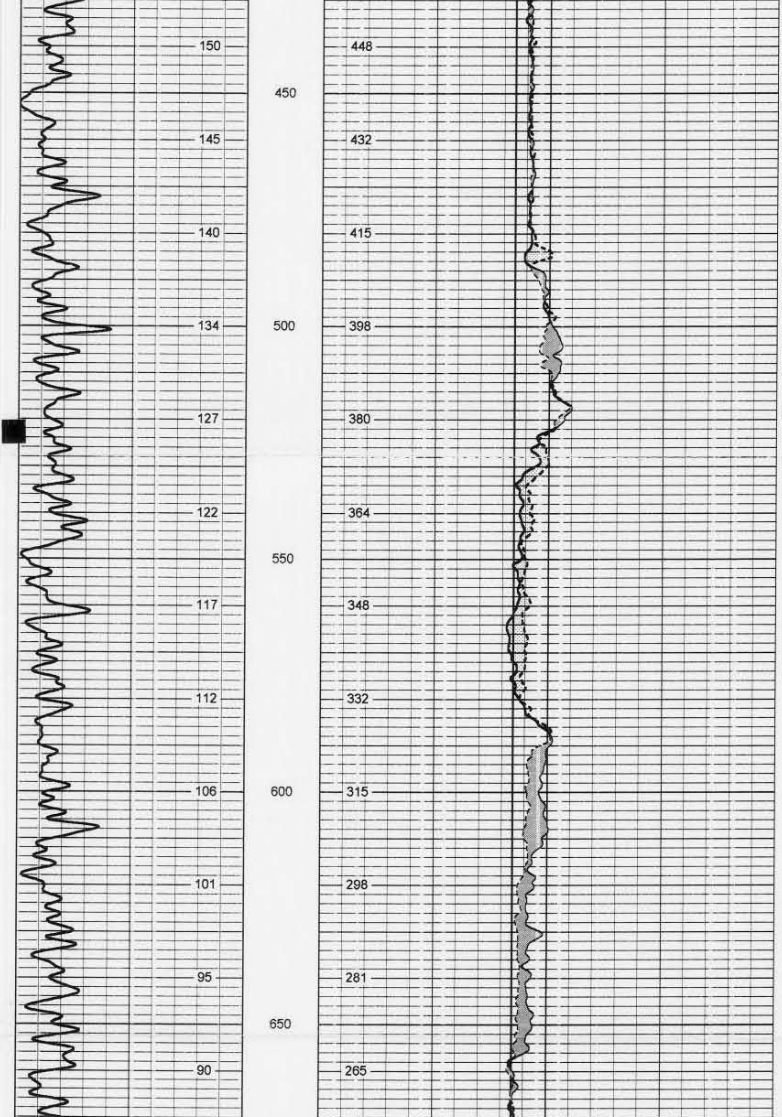


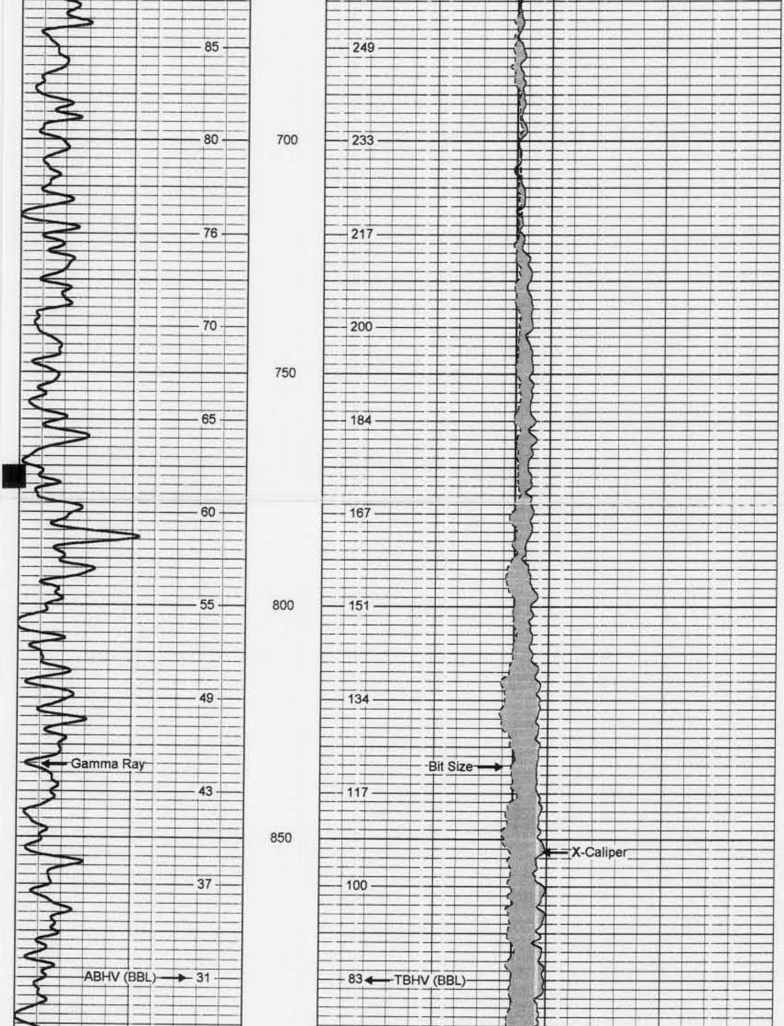
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

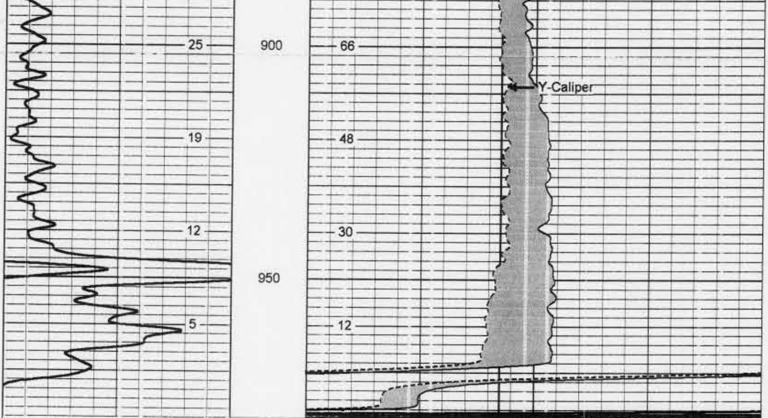
MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run3/XYCMP
Presentation Format: grxy-ahv
Dataset Creation: Tue Nov 23 04:50:44 2004 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240









0 Gamma Ray (GAPI) 100

20 Y-Caliper (in) 40

20 X-Caliper (in) 40

20 Bit Size (in) 40

YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

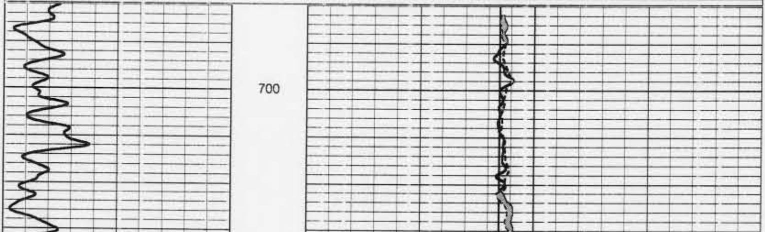
Database File: ntmbmw1.db
Dataset Pathname: run3/XYCRP
Presentation Format: grxy-ahv
Dataset Creation: Tue Nov 23 04:56:45 2004 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240

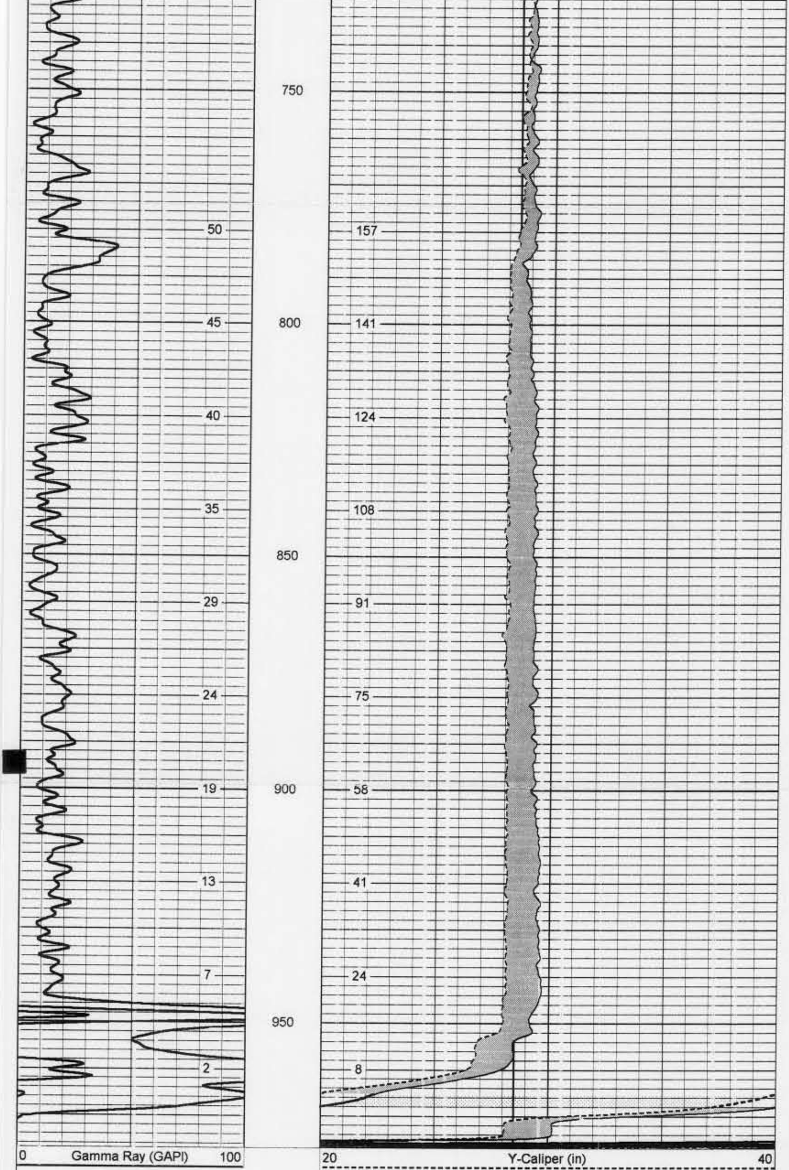
0 Gamma Ray (GAPI) 100

20 Y-Caliper (in) 40

20 X-Caliper (in) 40

20 Bit Size (in) 40





20	X-Caliper (in)	40
20	Bit Size (in)	40

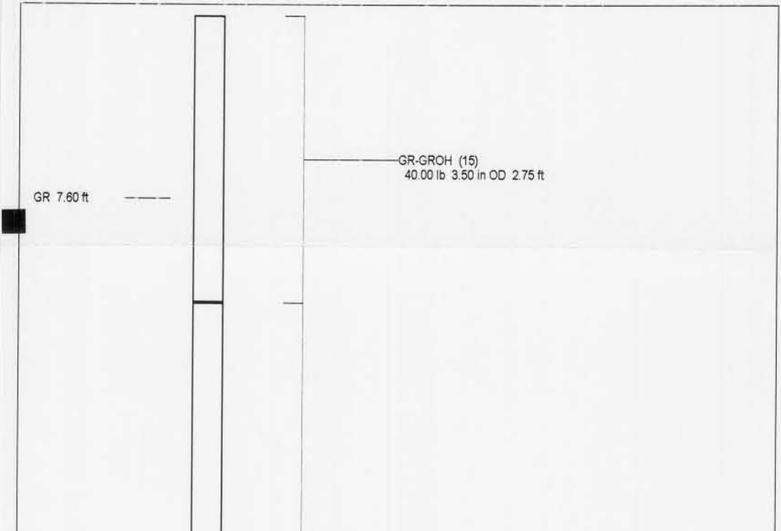
XY Caliper Calibration Report

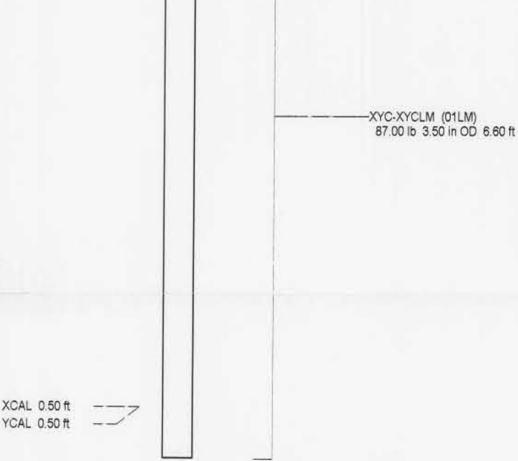
Serial Number/Model: 01LM-XYCLM
Performed: Tue Nov 23 03:50:28 2004

Ring			X Caliper		Y Caliper	
1:	10	in	609.82	cps	589.089	cps
2:	20	in	687.487	cps	672.273	cps
3:	23	in	720	cps	697.1	cps
4:	29.25	in	779	cps	750	cps
5:	30	in	784.184	cps	755.556	cps
6:	40	in	872.072	cps	844.144	cps

Gamma Ray Calibration Report

Serial Number:	15	
Tool Model:	GROH	
Performed:	Fri Nov 19 00:22:54 2004	
Calibrator Value:	120	GAPI
Background Reading:	3.2032	cps
Calibrator Reading:	22.5226	cps
Sensitivity:	6.21137	GAPI/cps





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

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

BOREHOLE COMPENSATED SONIC with VDL and LOG DERIVED TDS LOG

Company CITY OF NORTH MIAMI
Well MW #1
Field NORWOOD-OEFFLER W.T.P EX
County DADE
State FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EXP.
County	DADE
State	FLORIDA
Location	
Other Services	SEE COMMENTS

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

Date	NOV. 29, 2004		
Run Number	FOUR		
Depth Driller	1910'		
Depth Logger	1910'		
Bottom Logged Interval	1910'		
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	ON ARRIVAL		
Time Logger on Bottom	1230		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	FERGUSON		
Witnessed By	M. ABBOTT		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String				
Liner				

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Comments

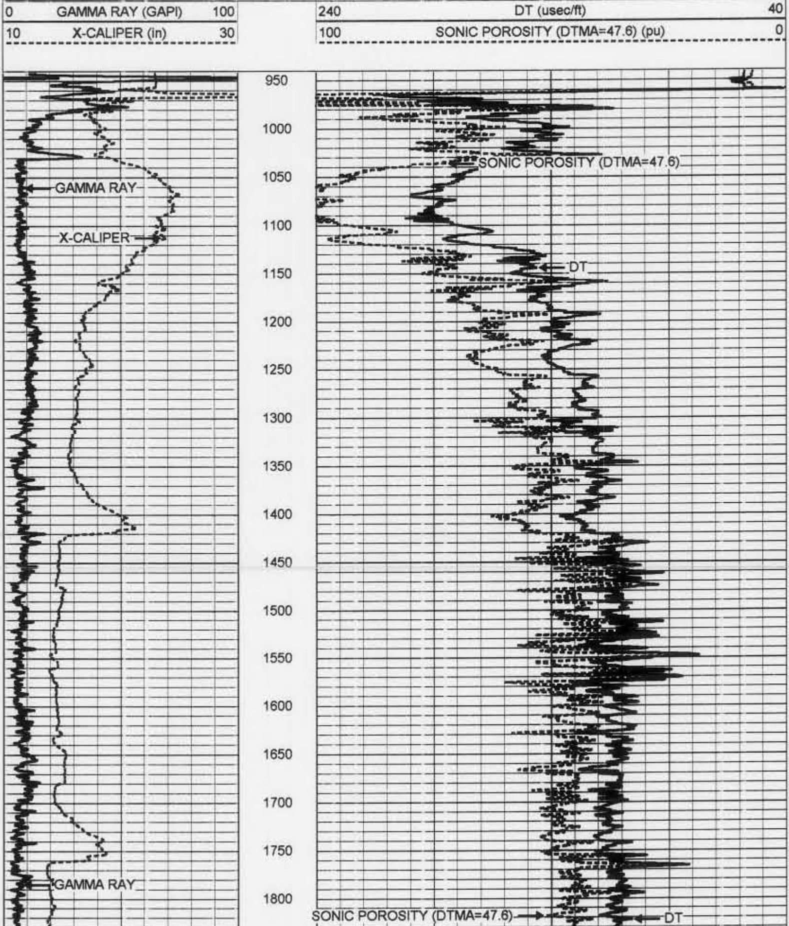
X-Y CALIPER
FLUID COND/TEMP
DUAL INDUCTION
BOREHOLE TELEVIEWER
FLOWMETER

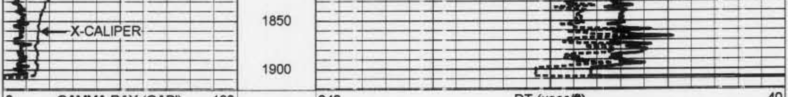
YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run4/pass8
Presentation Format: son_por
Dataset Creation: Mon Nov 29 15:18:00 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200





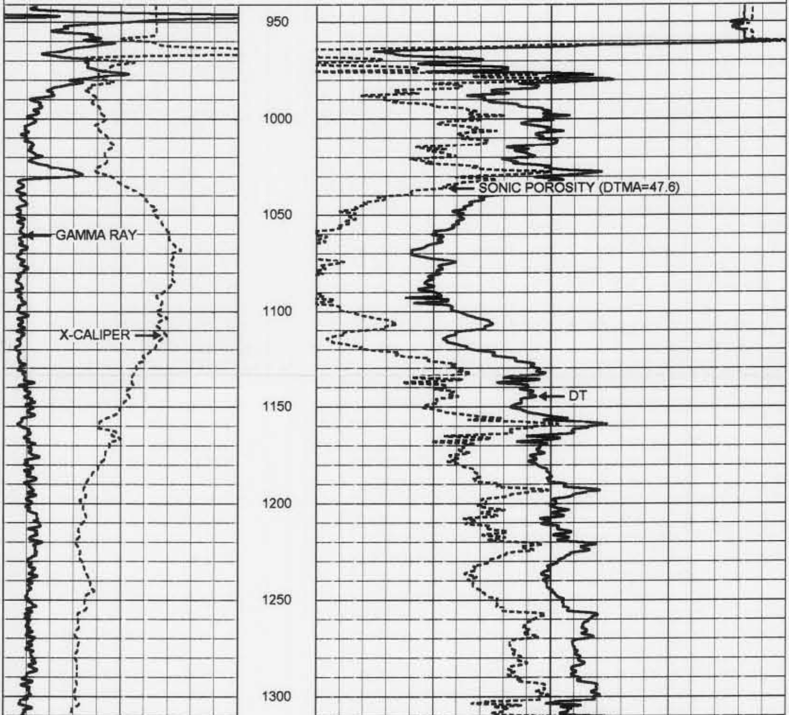
0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0

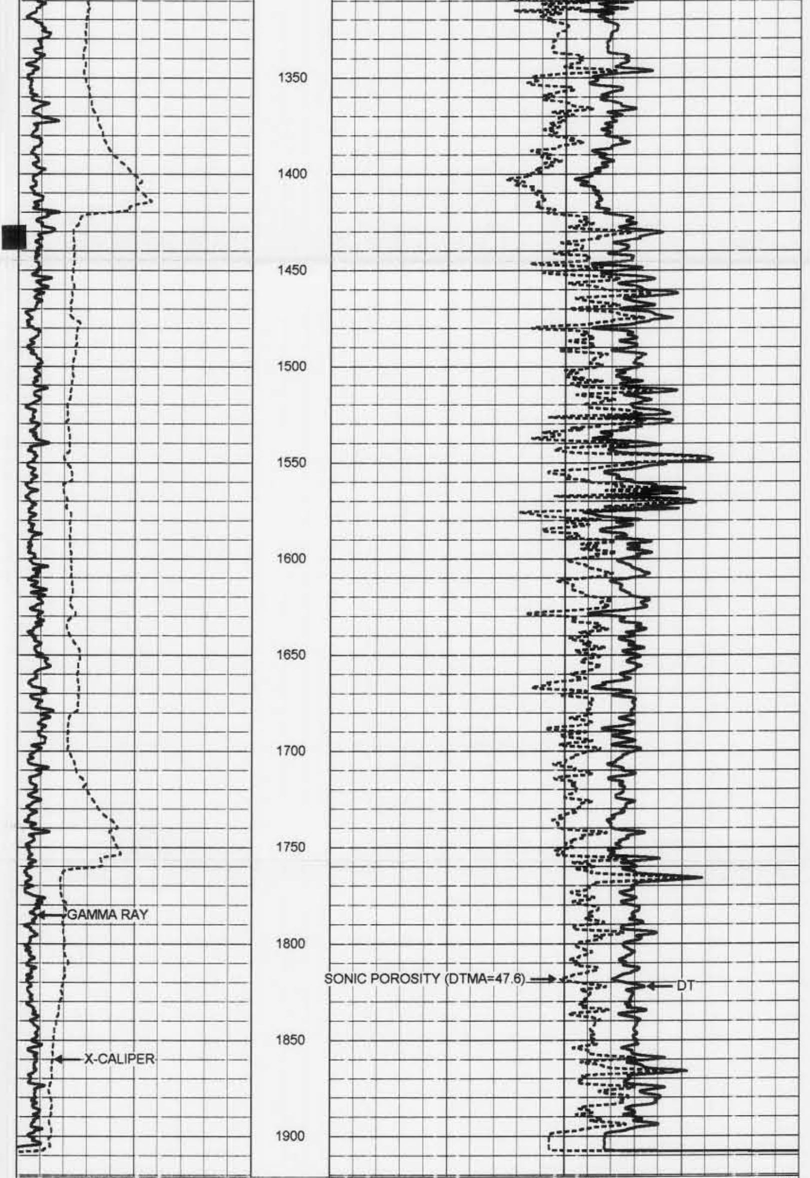
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run4/pass8
Presentation Format: son_por
Dataset Creation: Mon Nov 29 15:18:00 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

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





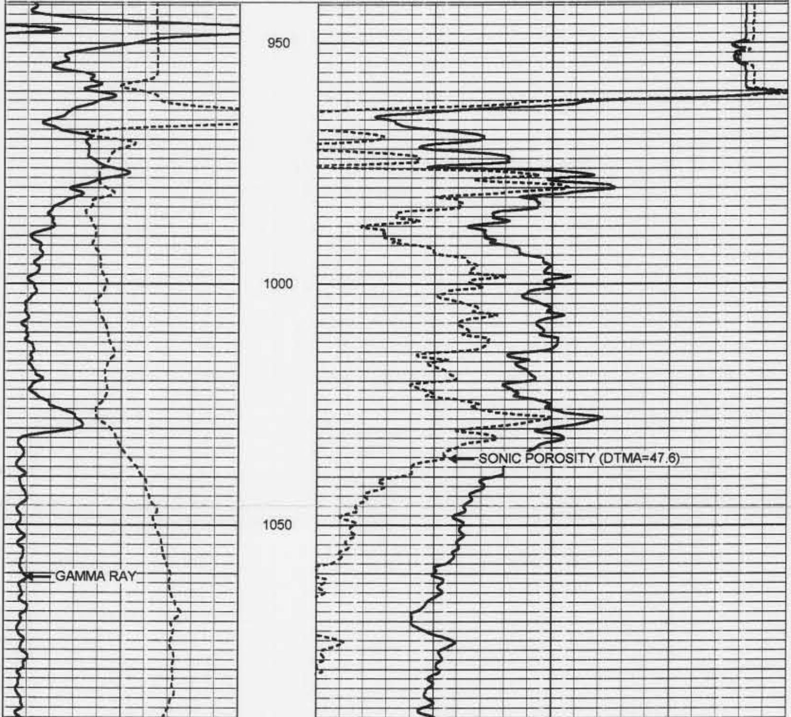
0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0

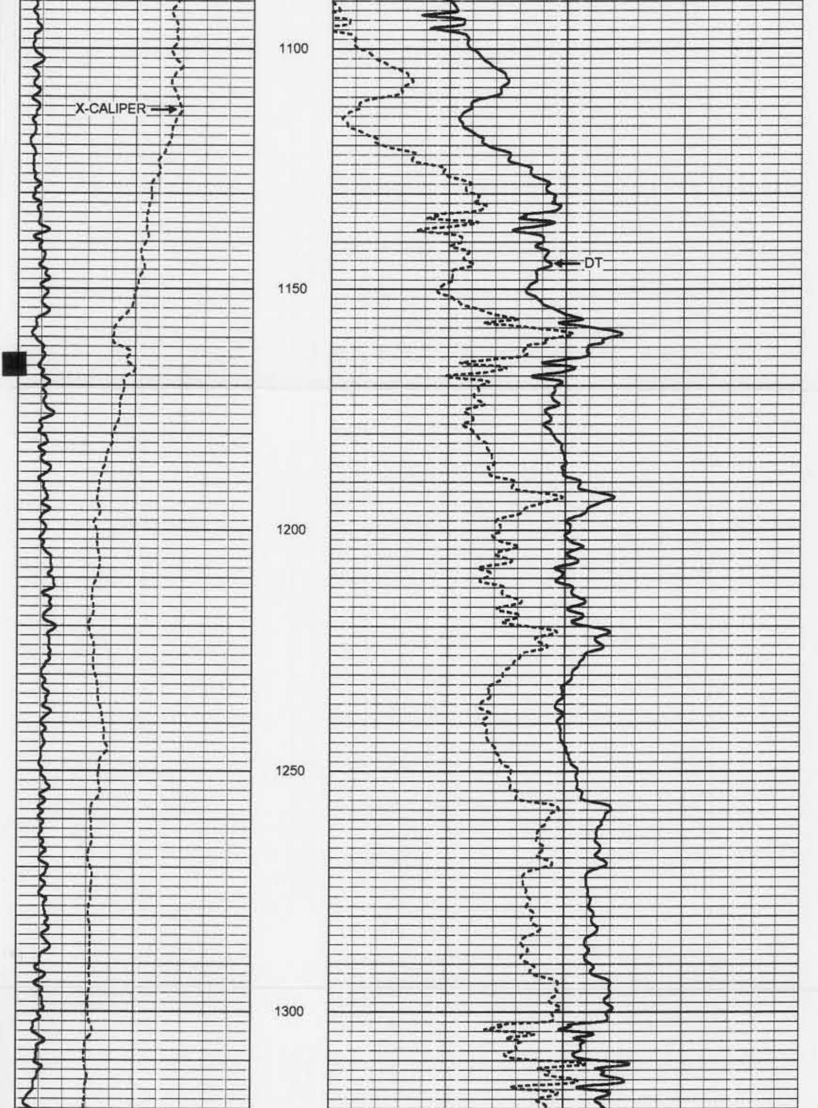
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

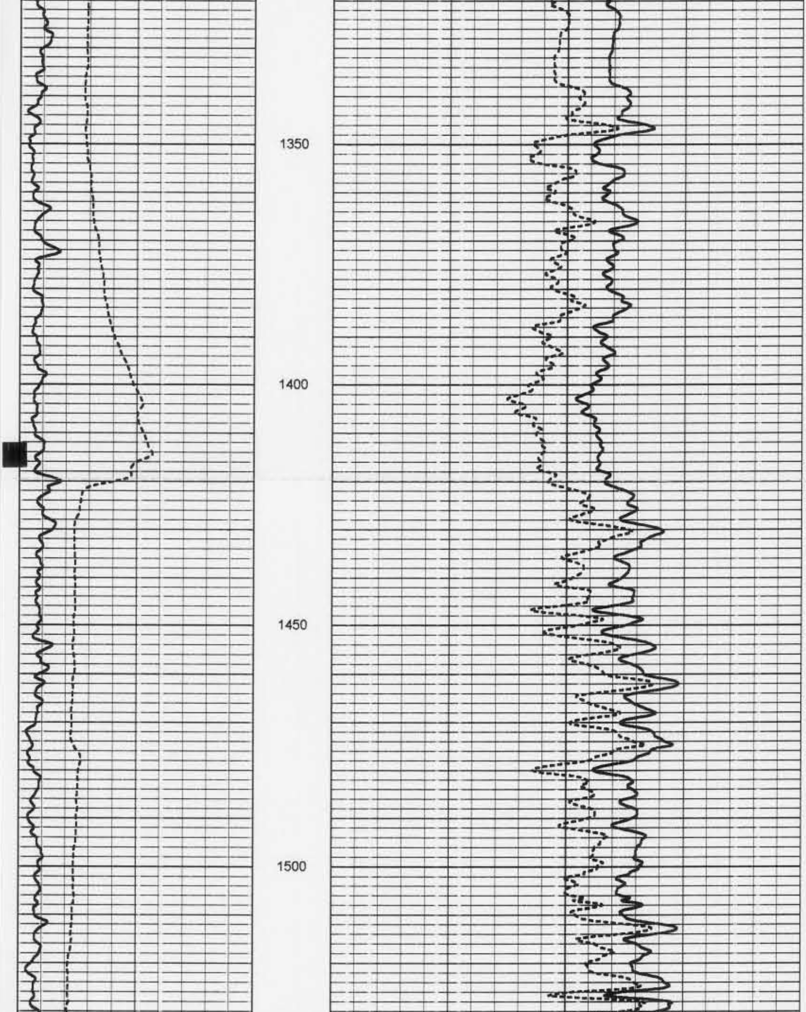
MAIN PASS

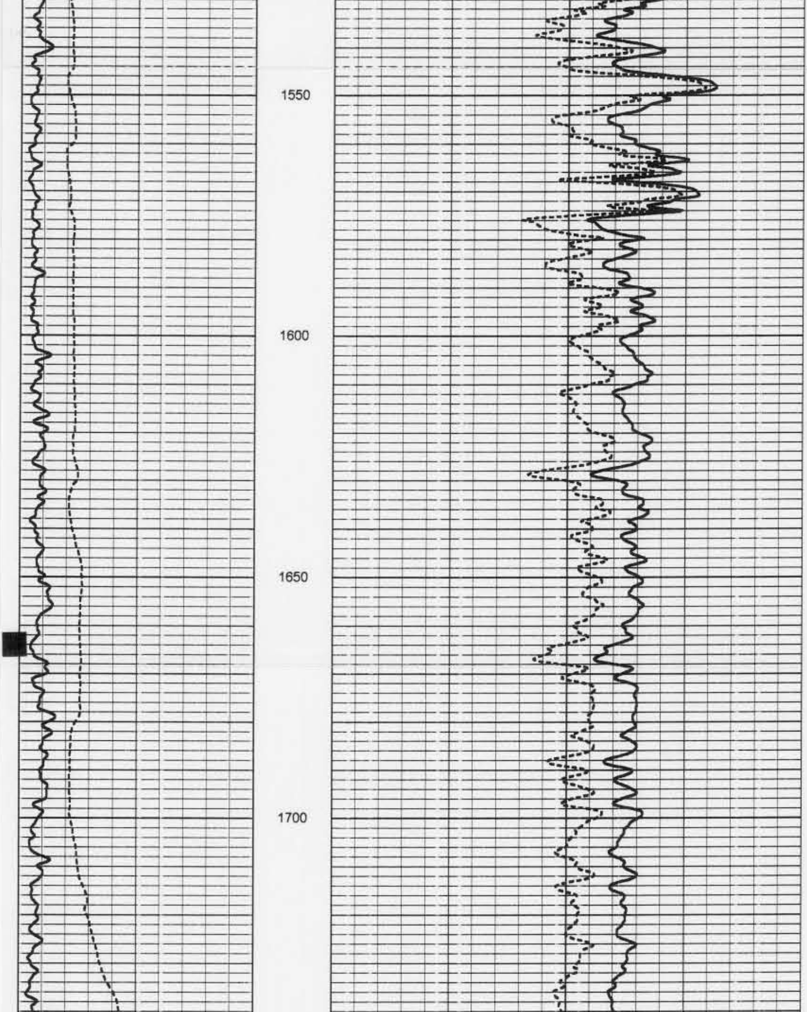
Database File:	ntmbmw1.db
Dataset Pathname:	run4/pass8
Presentation Format:	son_por
Dataset Creation:	Mon Nov 29 15:18:00 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240

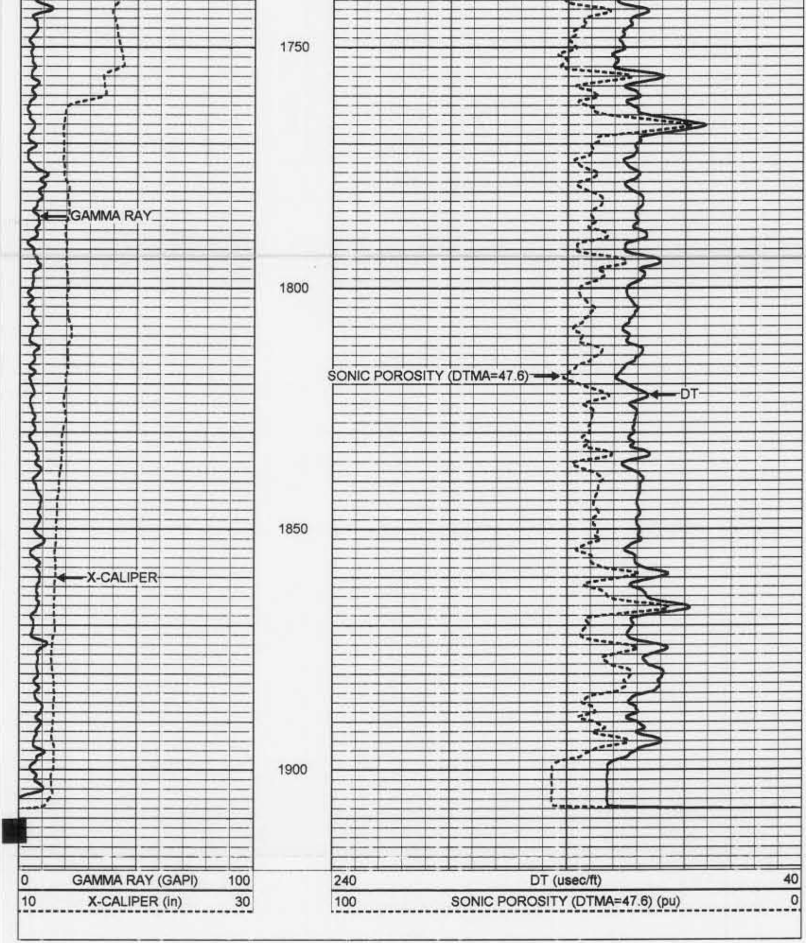
0	GAMMA RAY (GAPI)	100	240	DT (usec/ft)	40
10	X-CALIPER (in)	30	100	SONIC POROSITY (DTMA=47.6) (pu)	0







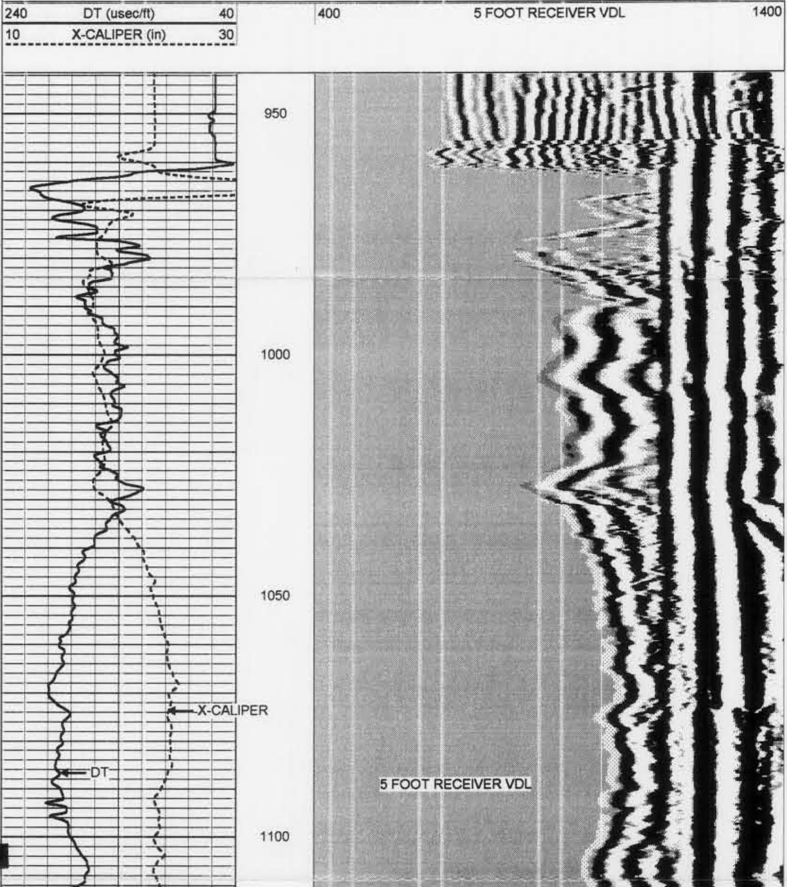


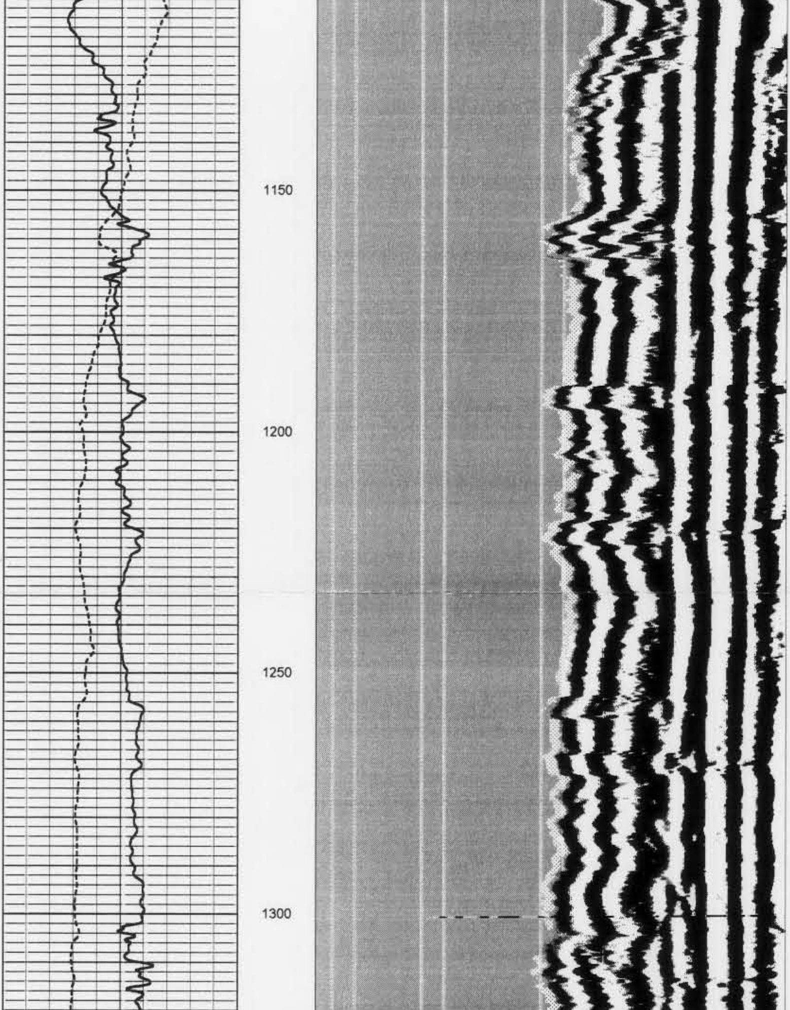


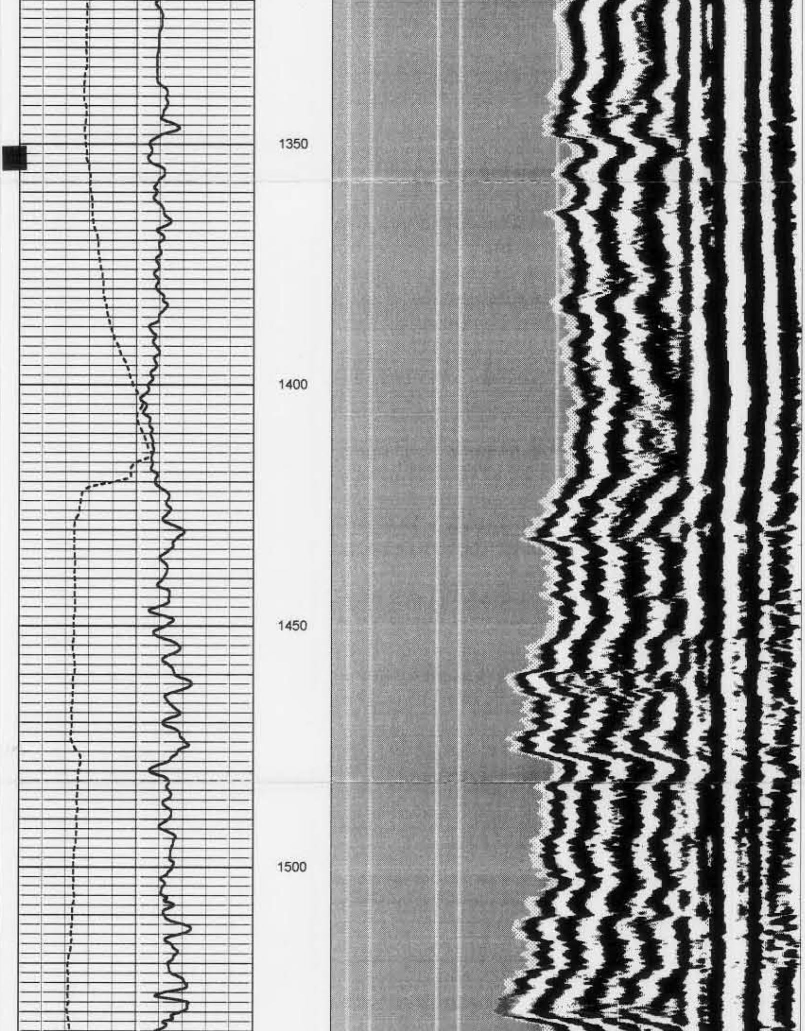
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

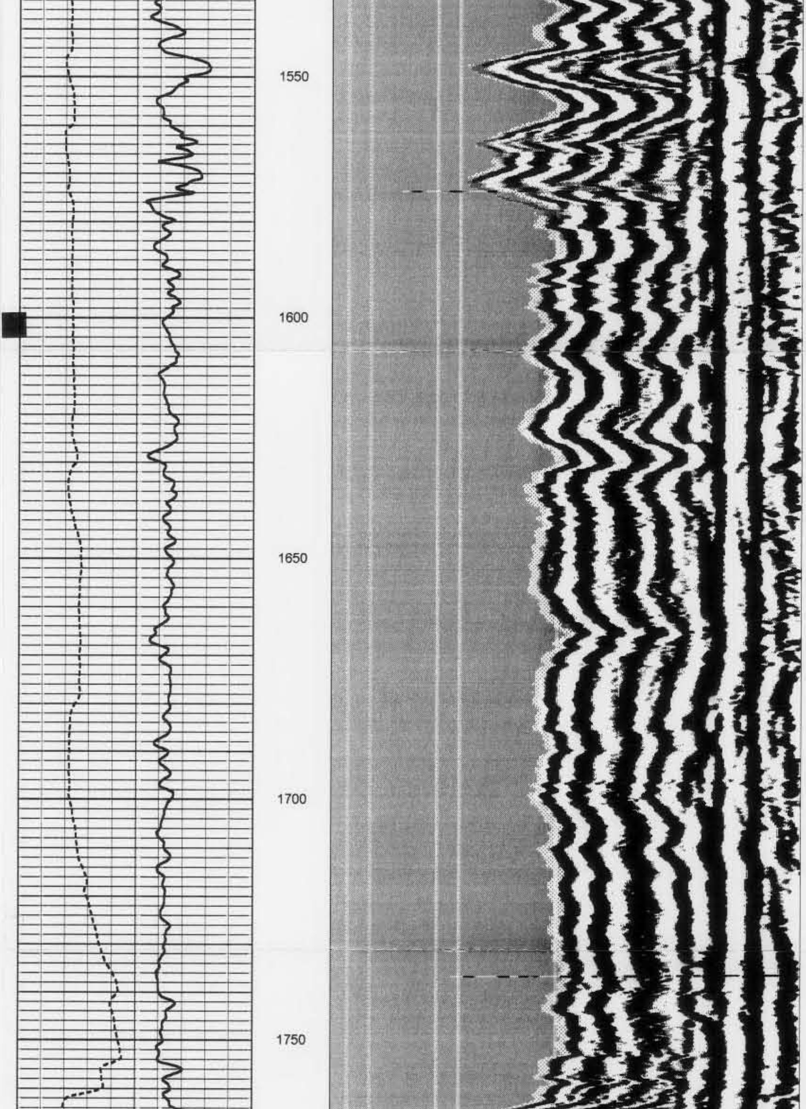
MAIN PASS

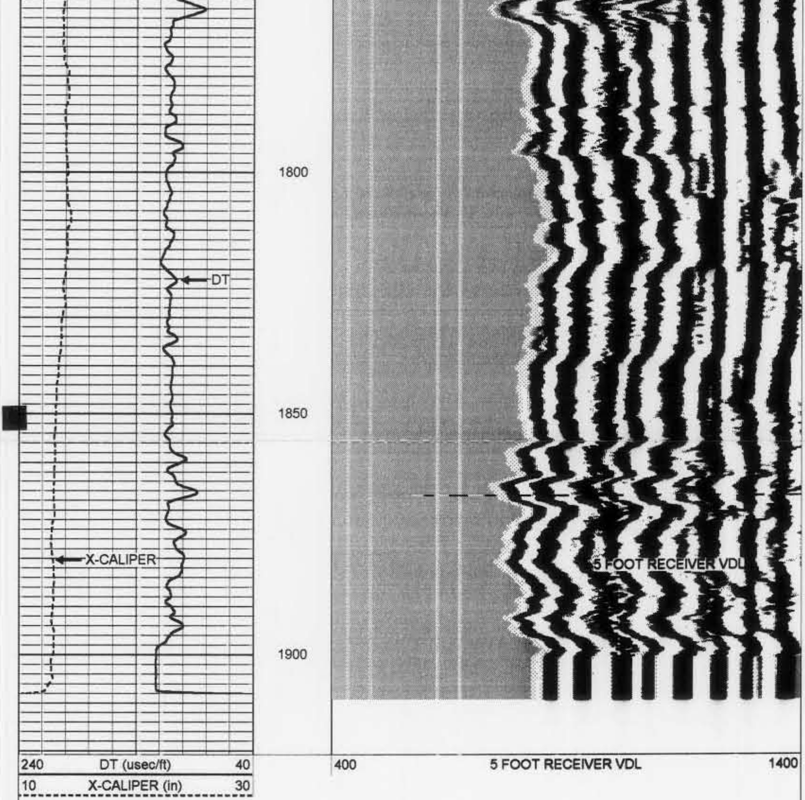
Database File:	ntmbmw1.db
Dataset Pathname:	run4/pass8
Presentation Format:	son_vdl
Dataset Creation:	Mon Nov 29 15:18:00 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240







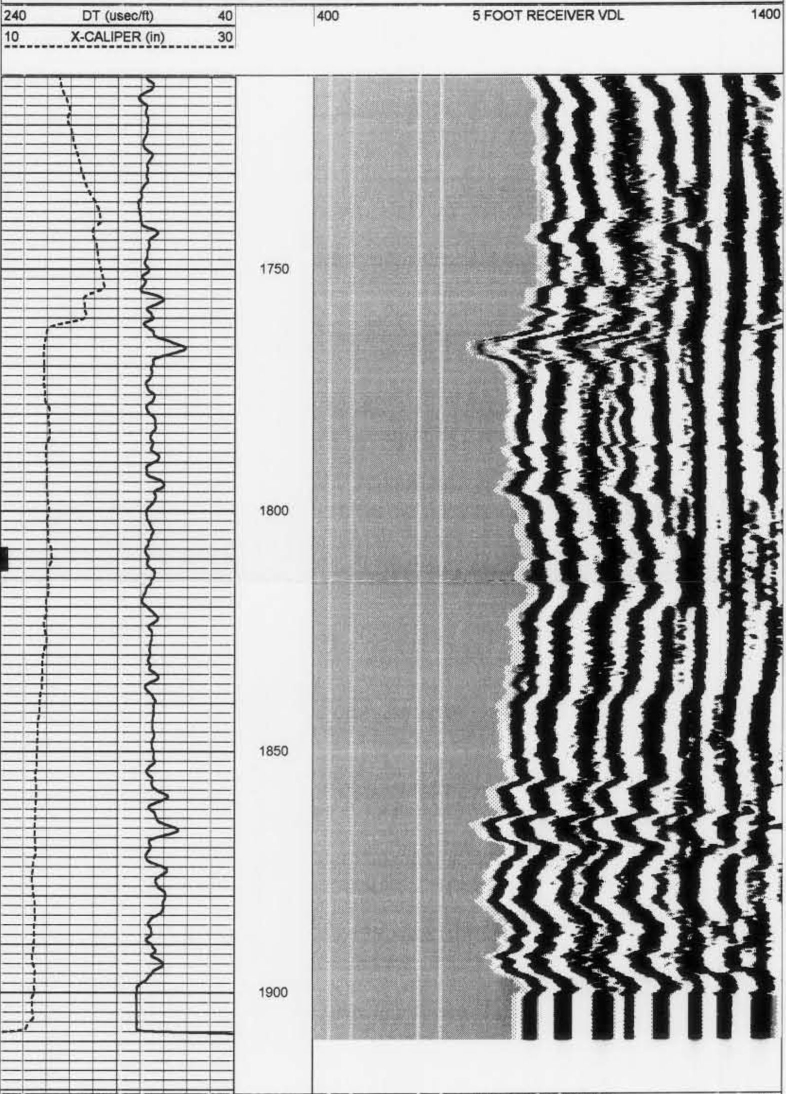




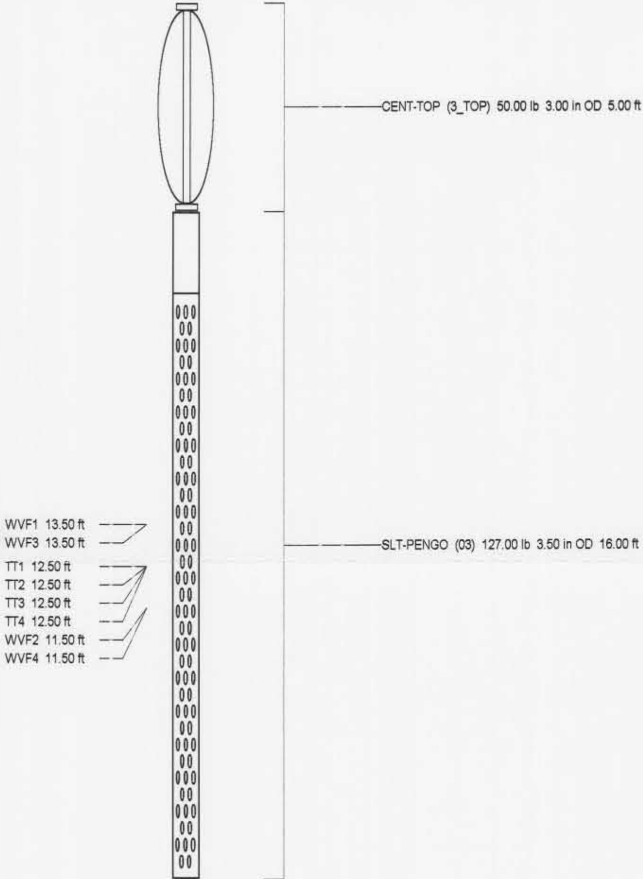
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

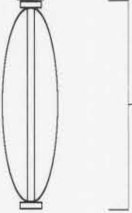
REPEAT PASS

Database File: ntmbmw1.db
Dataset Pathname: run4/pass7
Presentation Format: son_vdl
Dataset Creation: Mon Nov 29 15:09:37 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



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





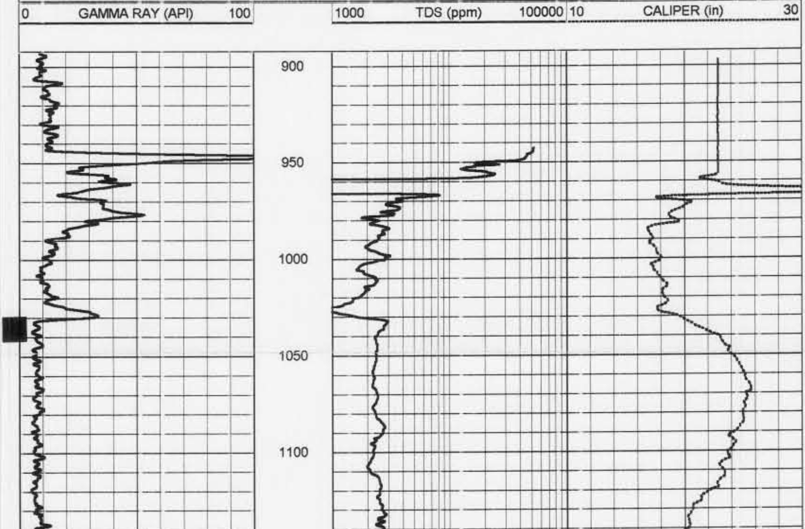
CENT-5FTSB (2_5FTSB) 50.00 lb 1.69 in OD 5.00 ft

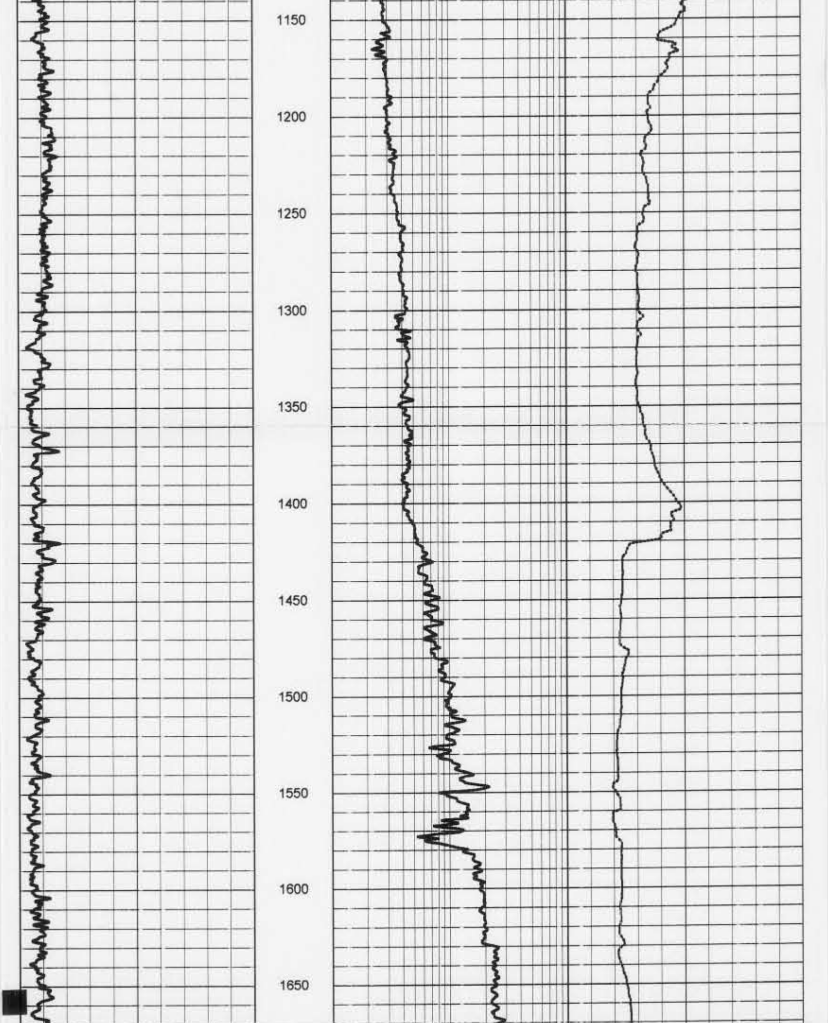
Dataset: run4/pass8
Total Length: 26.00 ft
Total Weight: 227.00 lb
O.D. 3.50 in

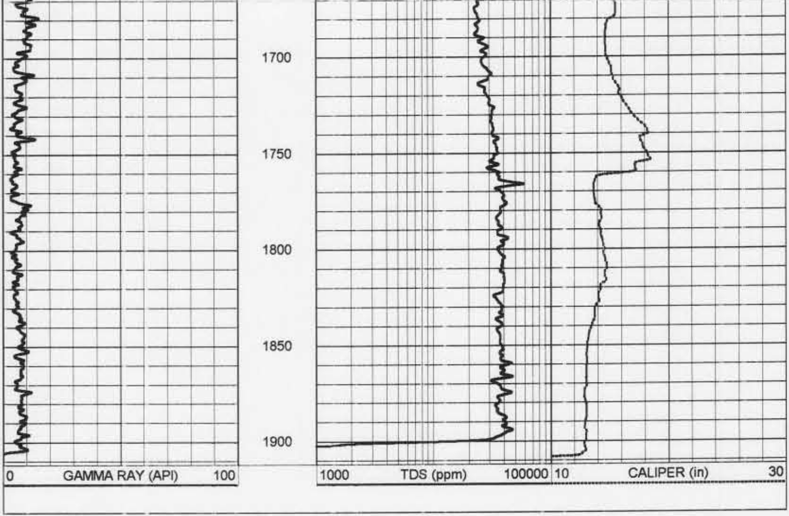
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

LOG DERIVED TDS

Database File: ntmbmw1.db
Dataset Pathname: run/_mpk1_
Presentation Format: tds
Dataset Creation: Mon Nov 29 15:49:19 2004
Charted by: Depth in Feet scaled 1:600







YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLUID CONDUCTIVITY
TEMPERATURE
LOG

Company	CITY OF NORTH MIAMI
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EX
County	DADE
State	FLORIDA

Company CITY OF NORTH MIAMI BEACH W.T.P
Well MW #1
Field NORWOOD-OEFFLER W.T.P EXP.
County DADE State FLORIDA

Location

Other Services
SEE
COMMENTS

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

Date	NOV. 29, 2004		
Run Number	FOUR		
Depth Driller	1910'		
Depth Logger	1910'		
Bottom Logged Interval	1910'		
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	ON ARRIVAL		
Time Logger on Bottom	1230		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	FERGUSON		
Witnessed By	C. GEASLER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String				
Liner				

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Comments

X-Y CALIPER
DUAL INDUCTION
BOREHOLE COMPENSATED SONIC
BOREHOLE TELEVIEWER
FLOWMETER

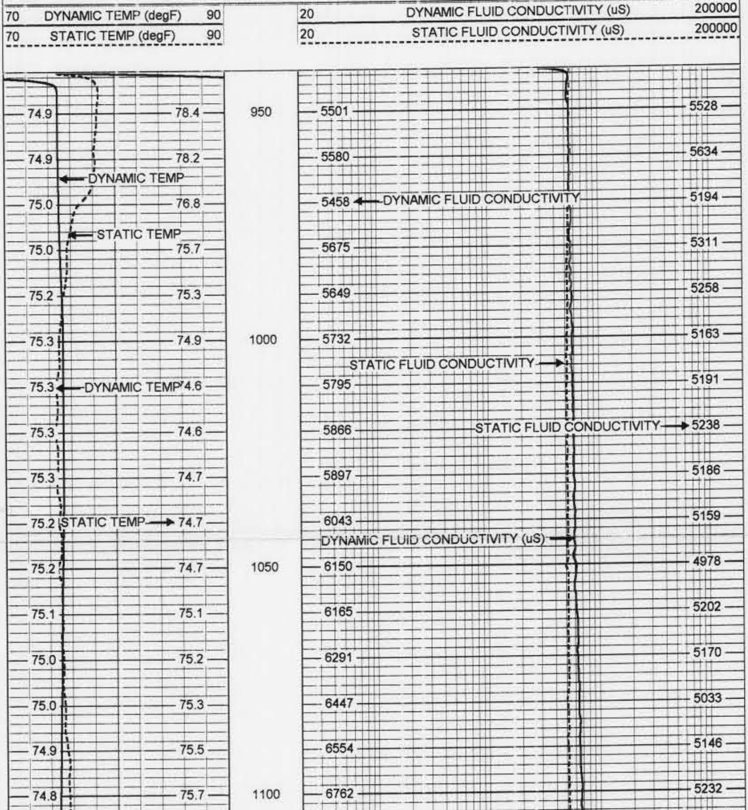
FLOW RATE = 500 GPM

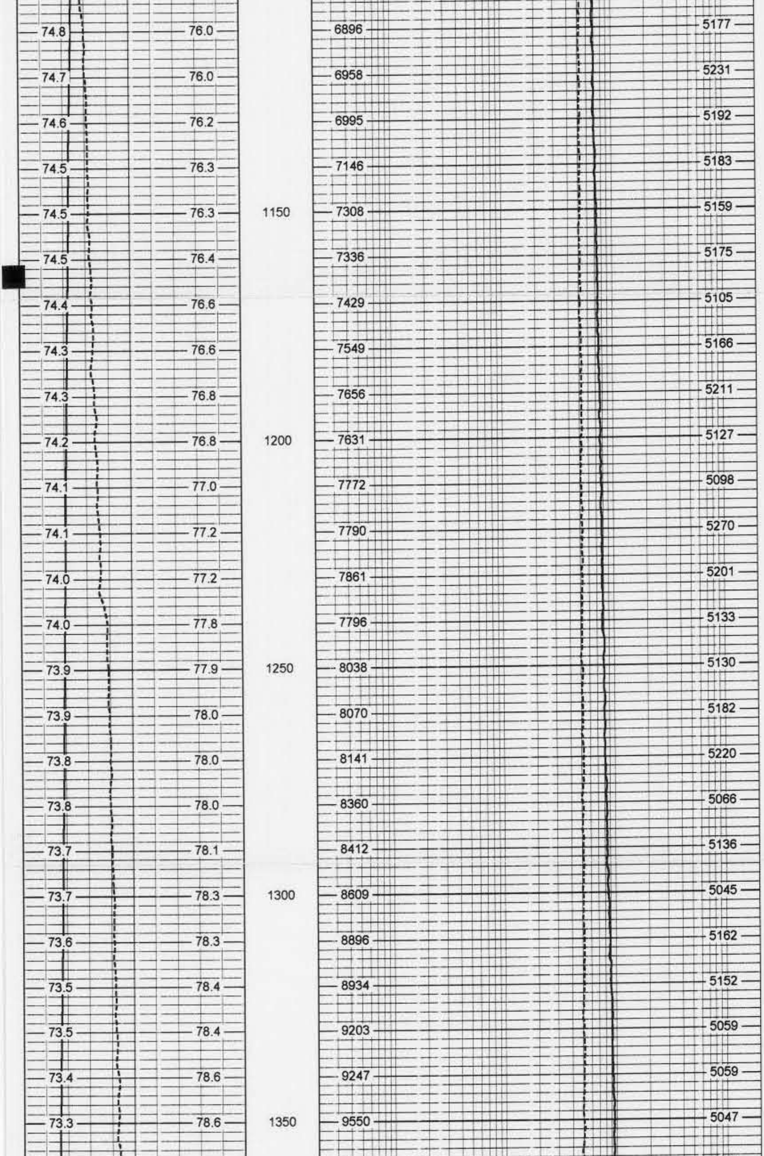
YOUNGQUIST BROTHERS, Inc

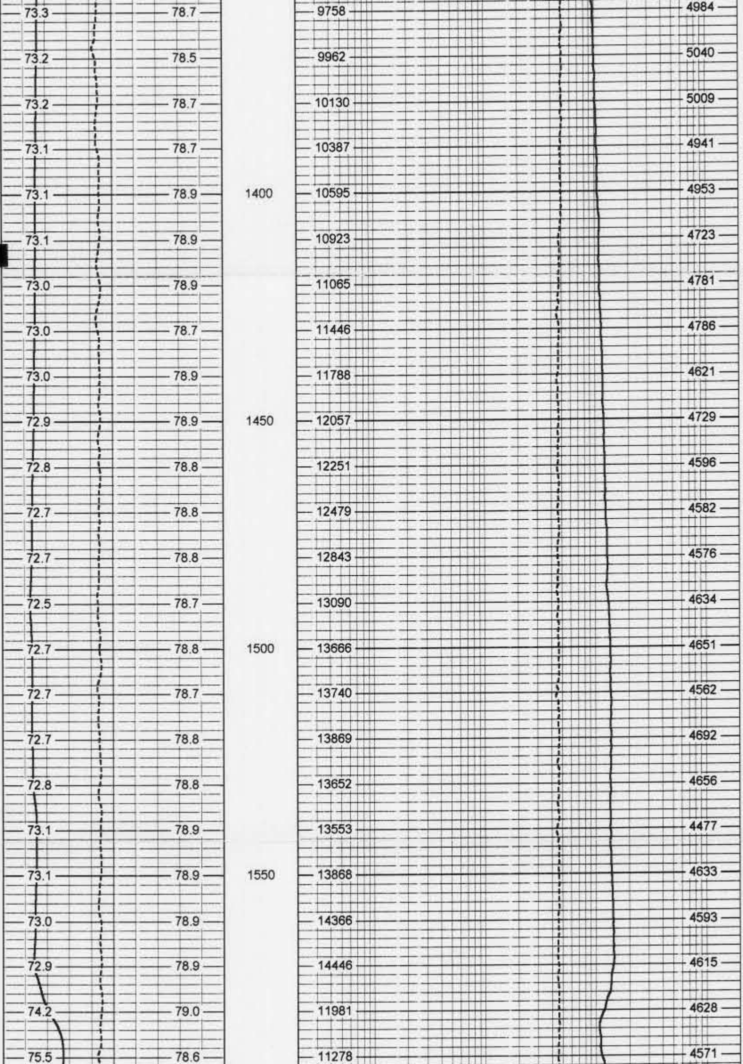
GEOPHYSICAL LOGGING DIVISION

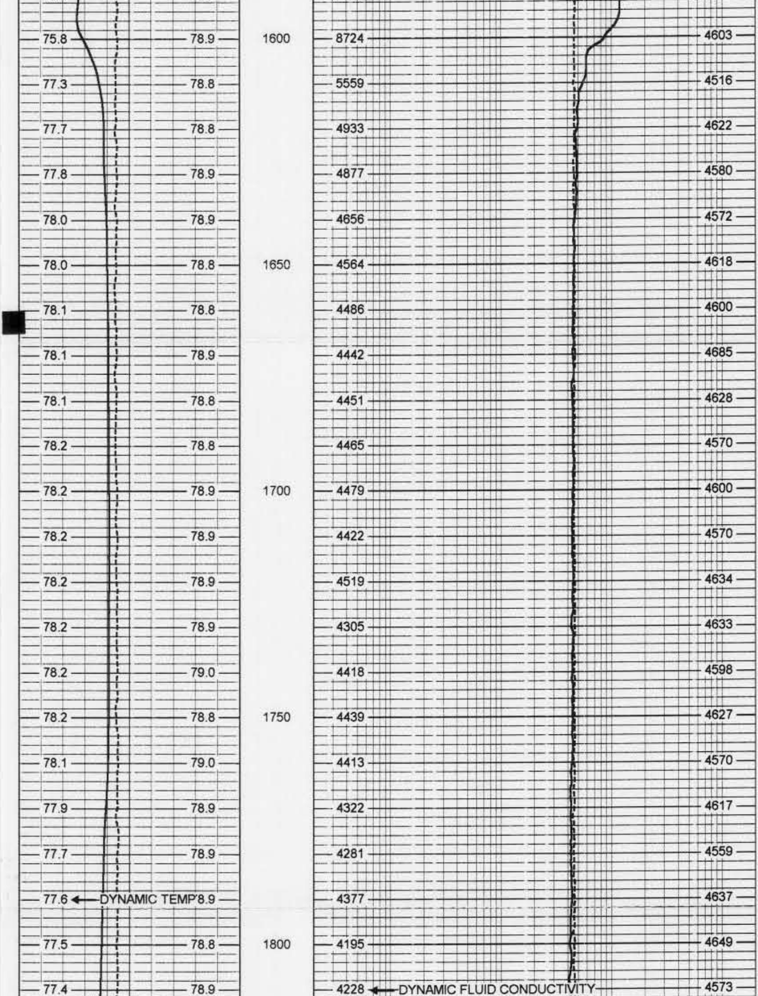
MERGED FCT - 500 GPM

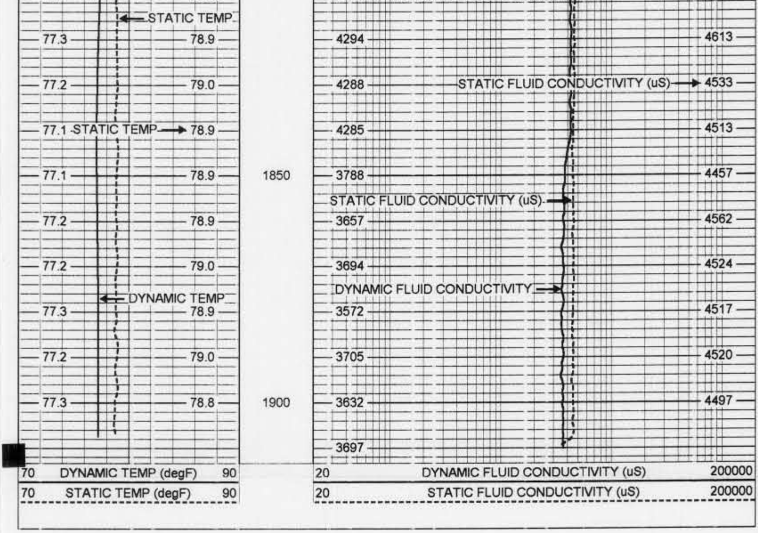
Database File: ntmbmw1.db
Dataset Pathname: run4/pass14
Presentation Format: frt_mg
Dataset Creation: Mon Nov 29 23:58:54 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240











FRT Calibration Report

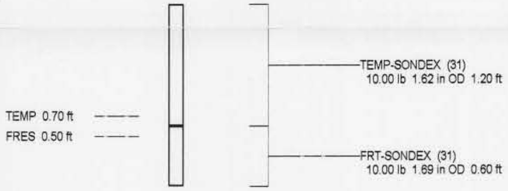
Serial Number: 31
Tool Model: SONDEX
Performed: Thu Apr 22 09:03:45 2004

Point #	Reading		Reference
1	30.817	cps	1000.000
2	171.328	cps	10000.000
3	445.517	cps	25000.000
4	965.867	cps	50000.000
5		cps	
6		cps	

Temperature Calibration Report

Serial Number: 31
Tool Model: SONDEX
Performed: Thu Apr 22 09:31:10 2004

Point #	Reading		Reference	
1	128.595	cps	41	degF
2	265.557	cps	70	degF
3	697.393	cps	156	degF



Dataset:	run4/pass14
Total Length:	1.80 ft
Total Weight:	20.00 lb
O.D.	1.69 in

YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER
GAMMA RAY
LOG

Company CITY OF NORTH MIAMI
Well MW #1
Field NORWOOD-OEFFLER W.T.P EX
County DADE
State FLORIDA

Company **CITY OF NORTH MIAMI BEACH W.T.P**
Well **MW #1**
Field **NORWOOD-OEFFLER W.T.P EXP.**
County **DADE** State **FLORIDA**

Location

Other Services
SEE
COMMENTS

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

Date	NOV. 29, 2004		
Run Number	FOUR		
Depth Driller	1910'		
Depth Logger	1910'		
Bottom Logged Interval	1910'		
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	ON ARRIVAL		
Time Logger on Bottom	1230		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	FERGUSON		
Witnessed By	M. ABBOTT		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String				
Liner				

<<< Fold Here >>>

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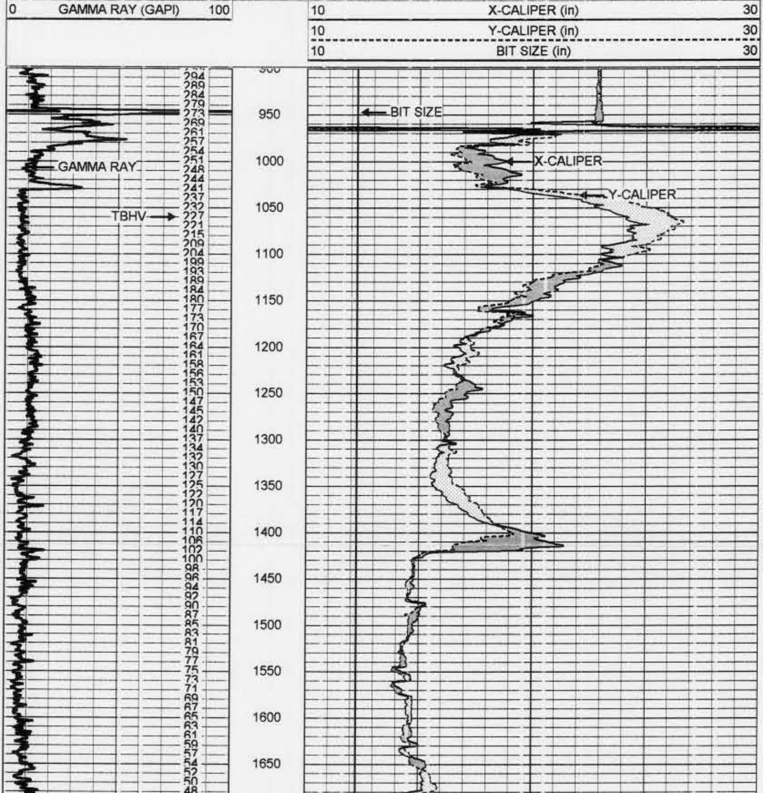
Comments

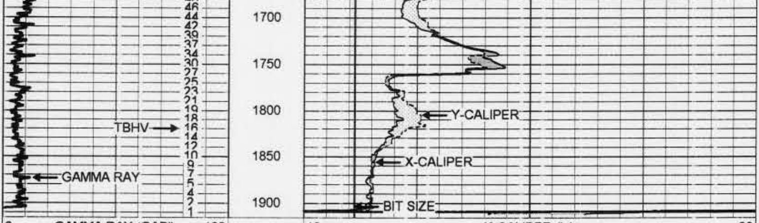
FLUID CONDUCTIVITY-TEMPERATURE
DUAL INDUCTION
BOREHOLE COMPENSATED SONIC
BOREHOLE TELEVIEWER
FLOWMETER

YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run4/pass3
Presentation Format: grxyc
Dataset Creation: Mon Nov 29 12:48:15 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200





0 GAMMA RAY (GAPI) 100

10 X-CALIPER (in) 30

10 Y-CALIPER (in) 30

10 BIT SIZE (in) 30

YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

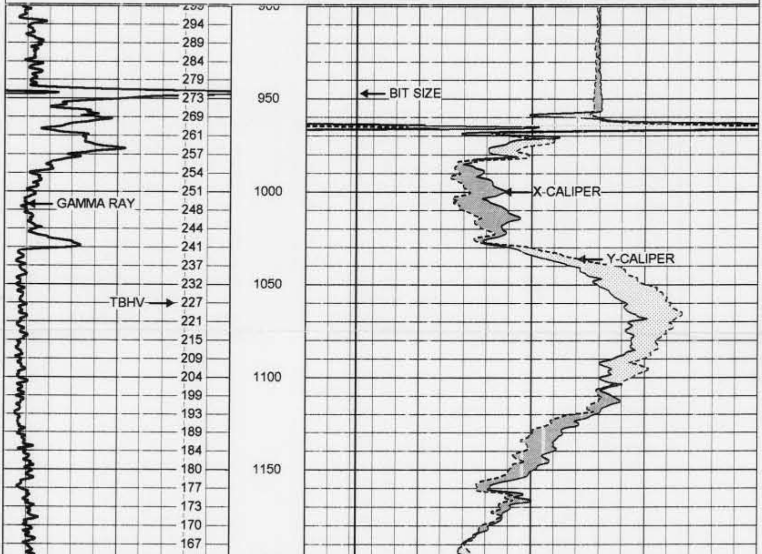
Database File: ntmbmw1.db
Dataset Pathname: run4/pass3
Presentation Format: grxyc
Dataset Creation: Mon Nov 29 12:48:15 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

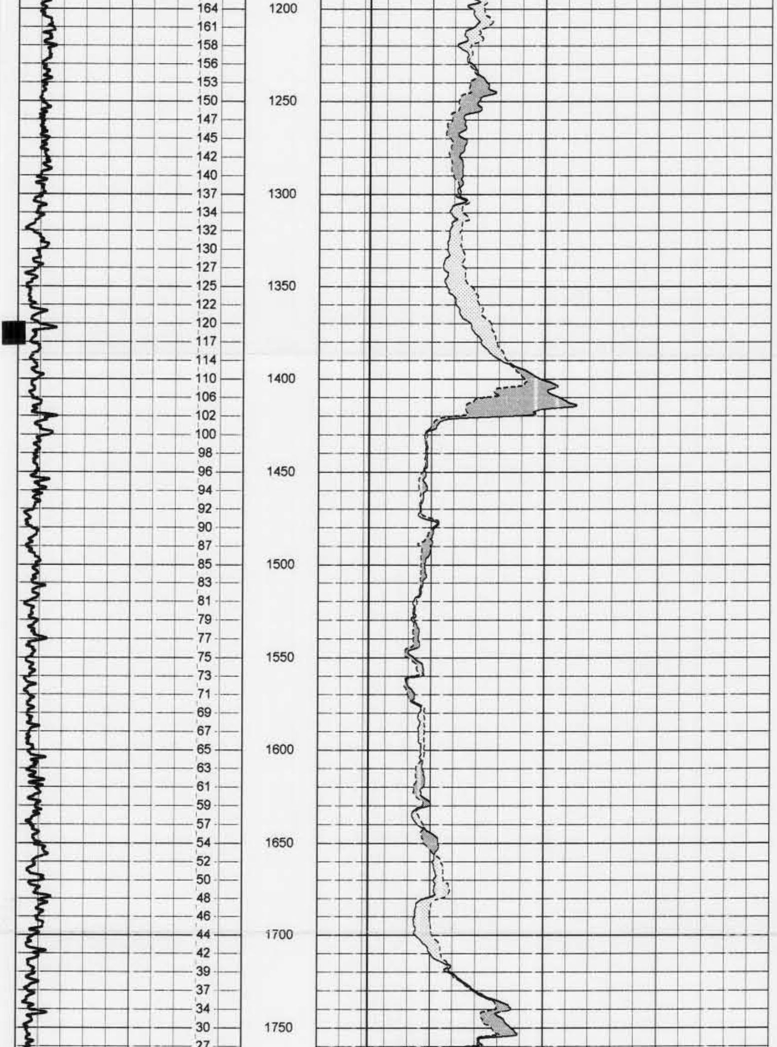
0 GAMMA RAY (GAPI) 100

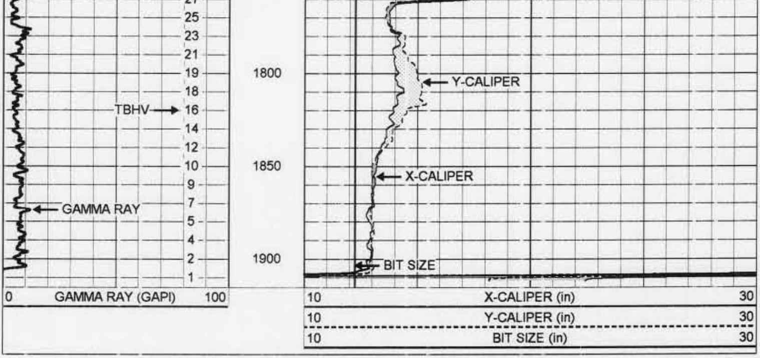
10 X-CALIPER (in) 30

10 Y-CALIPER (in) 30

10 BIT SIZE (in) 30



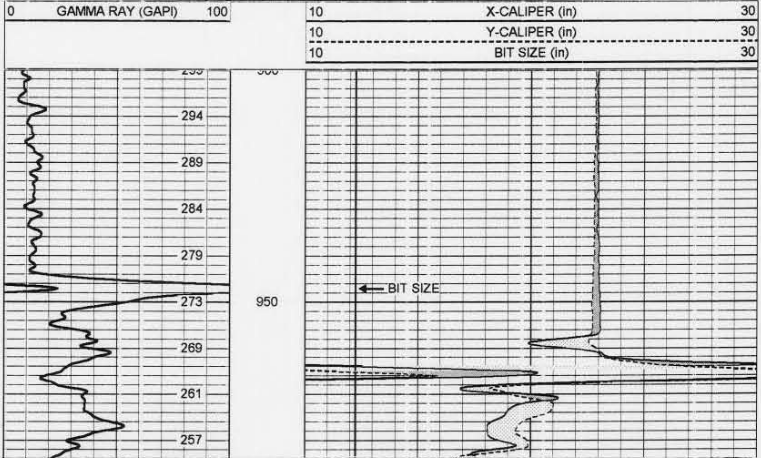


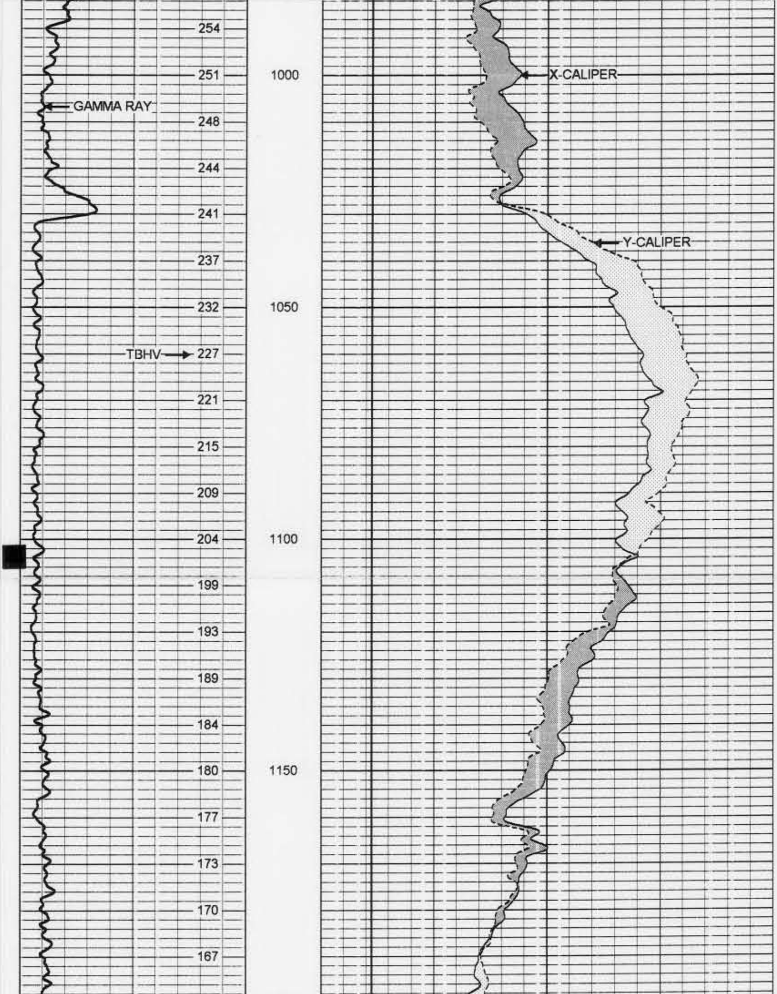


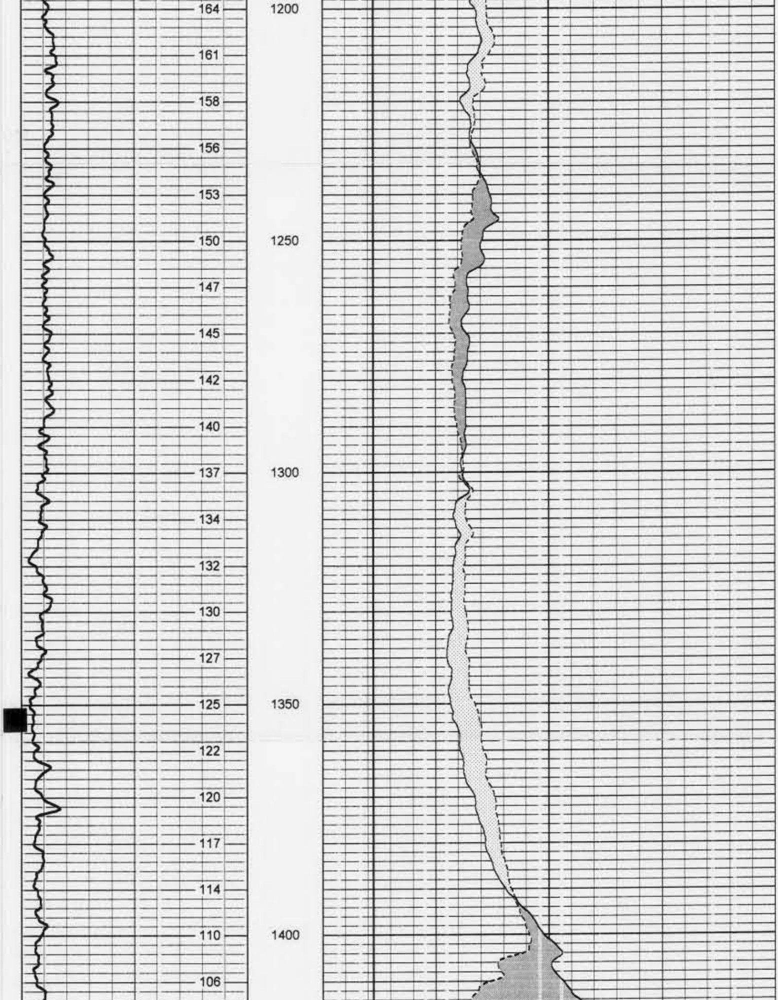
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

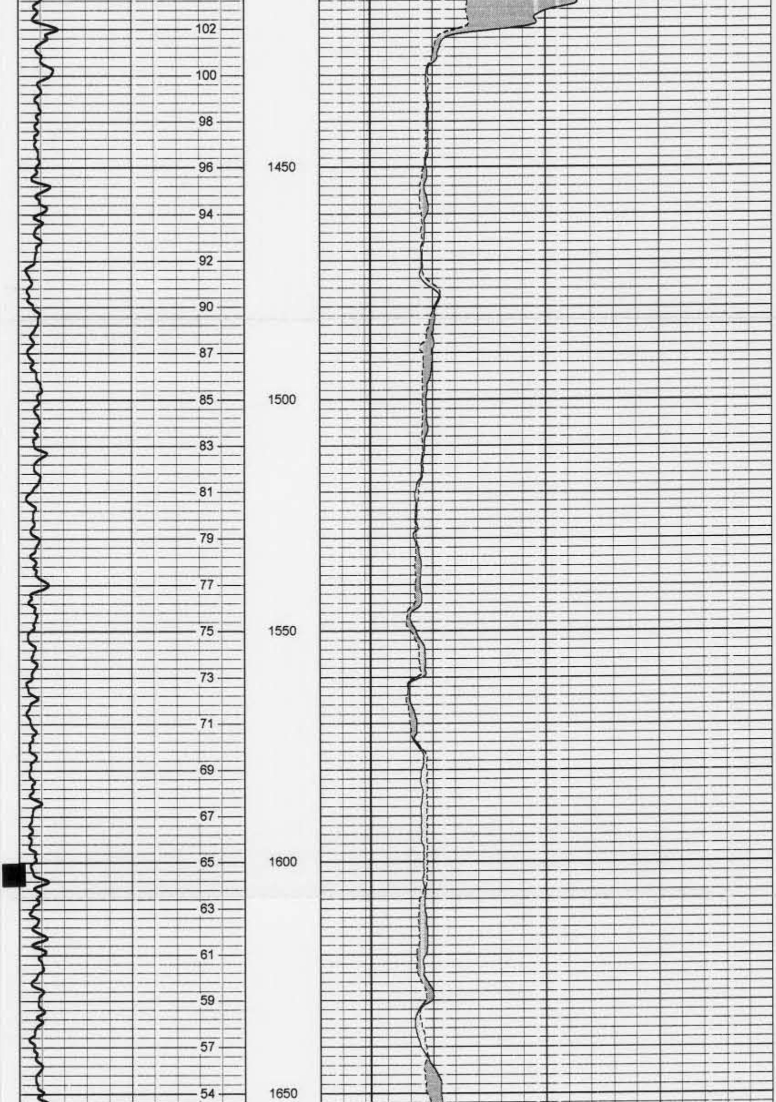
MAIN PASS

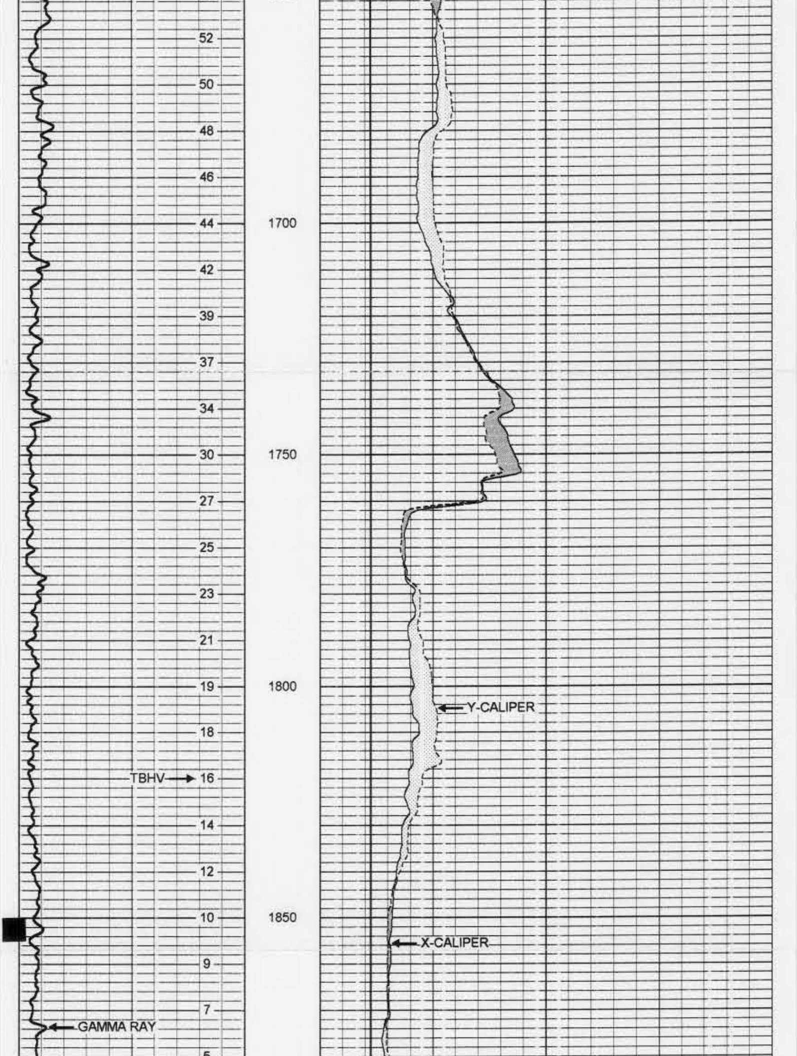
Database File: ntmbmw1.db
Dataset Pathname: run4/pass3
Presentation Format: grxyc
Dataset Creation: Mon Nov 29 12:48:15 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

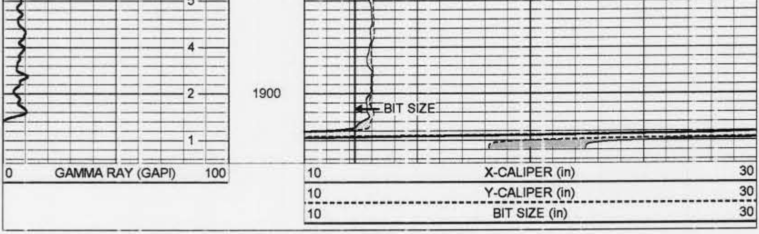








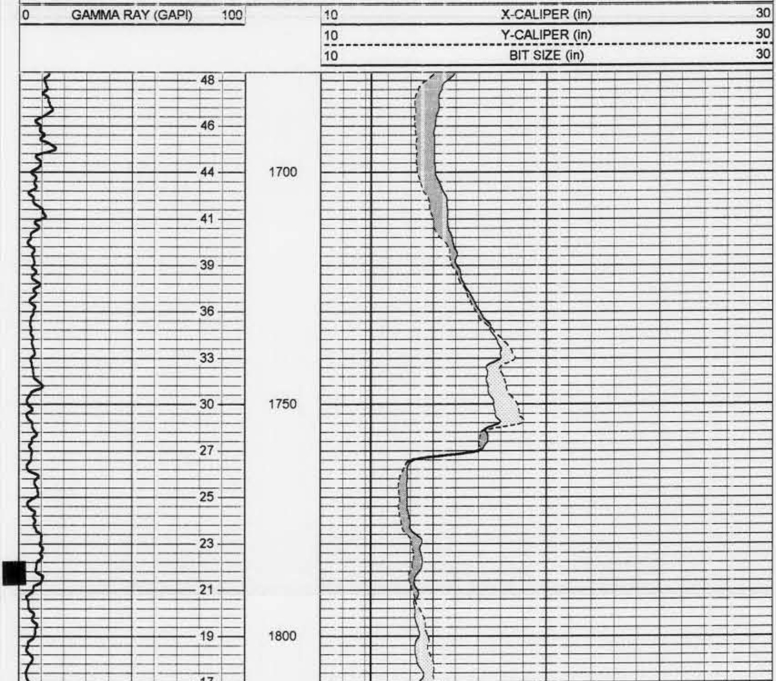


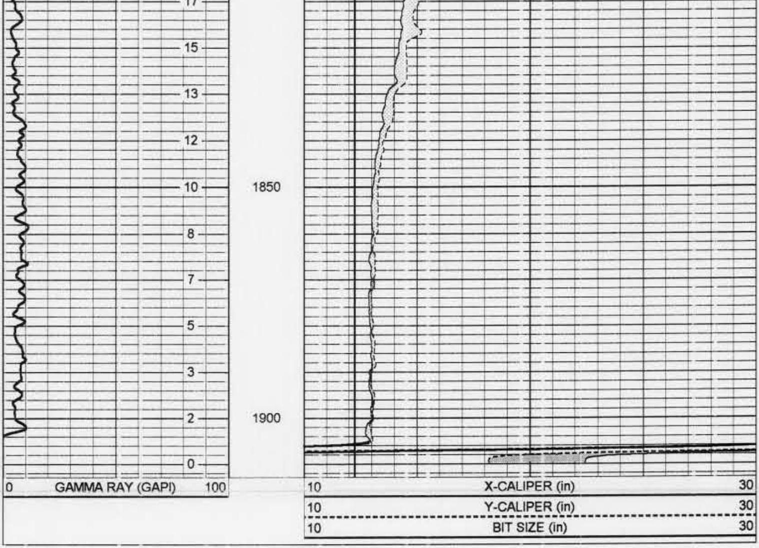


YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: ntmbmw1.db
Dataset Pathname: run4/pass2
Presentation Format: grxyc
Dataset Creation: Mon Nov 29 12:32:58 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





XY Caliper Calibration Report

Serial Number/Model: 06SM-XYCSM
Performed: Sun Nov 28 05:41:06 2004

	Ring		X Caliper		Y Caliper	
1:	5.81	in	312.513	cps	356.557	cps
2:	13.25	in	411.912	cps	452.553	cps
3:	41	in	843.043	cps	882.683	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

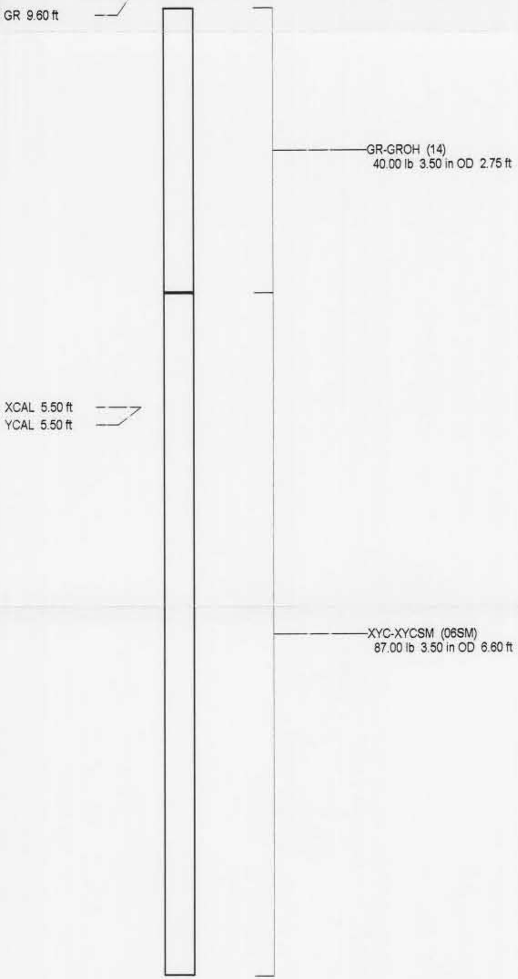
Gamma Ray Calibration Report

Serial Number: 14
Tool Model: GROH
Performed: Thu Apr 22 14:58:52 2004

Calibrator Value: 120 GAPI

Background Reading: 29.8187 cps
Calibrator Reading: 196.663 cps

Sensitivity: 0.719232 GAPI/cps



Dataset:	run4/pass3
Total Length:	9.35 ft
Total Weight:	127.00 lb
O.D.	3.50 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLOWMETER LOG

Company CITY OF NORTH MIAMI
Well MW #1
Field NORWOOD-OEFFLER W.T.P EX
County DADE
State FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EXP.
County	DADE State FLORIDA
Location	
Other Services	SEE COMMENTS

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

Date	NOV. 29, 2004		
Run Number	FOUR		
Depth Driller	1910'		
Depth Logger	1910'		
Bottom Logged Interval	1910'		
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	ON ARRIVAL		
Time Logger on Bottom	1230		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	FERGUSON		
Witnessed By	C. GEASLER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String				
Liner				

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Comments

X-Y CALIPER
FLUID COND/TEMP
DUAL INDUCTION
BOREHOLE TELEVIEWER
BOREHOLE COMPENSATED SONIC

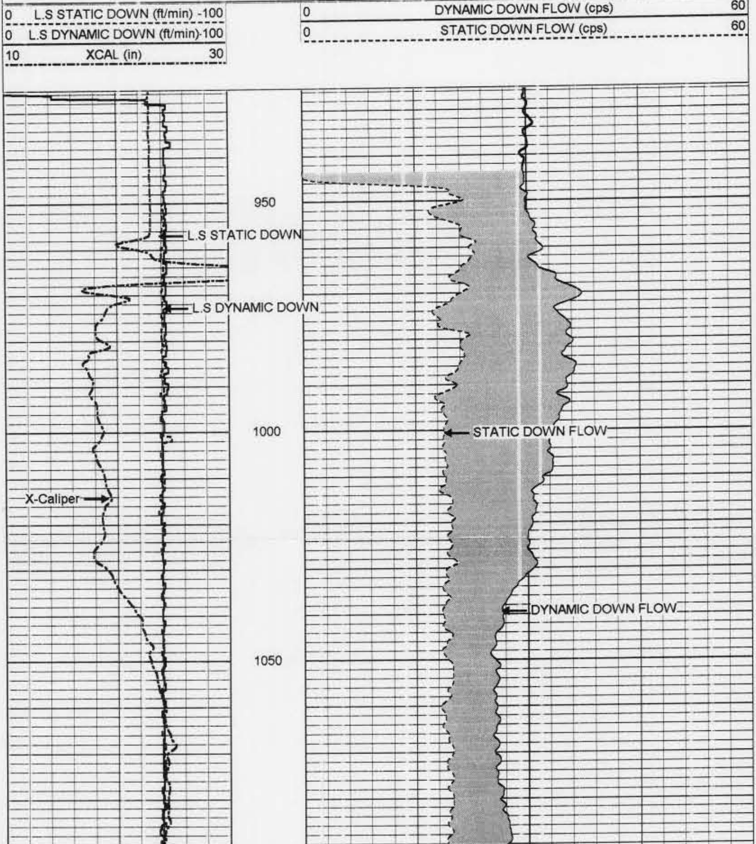
FLOWRATE = 480 GPM

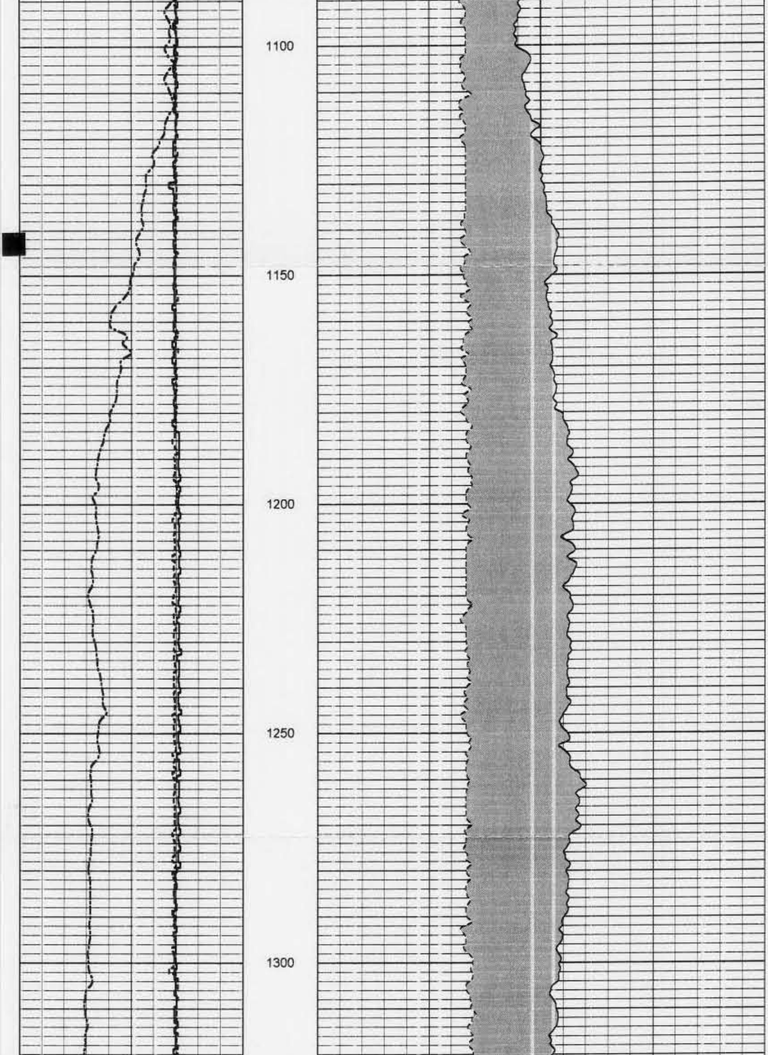
YOUNGQUIST BROTHERS, Inc

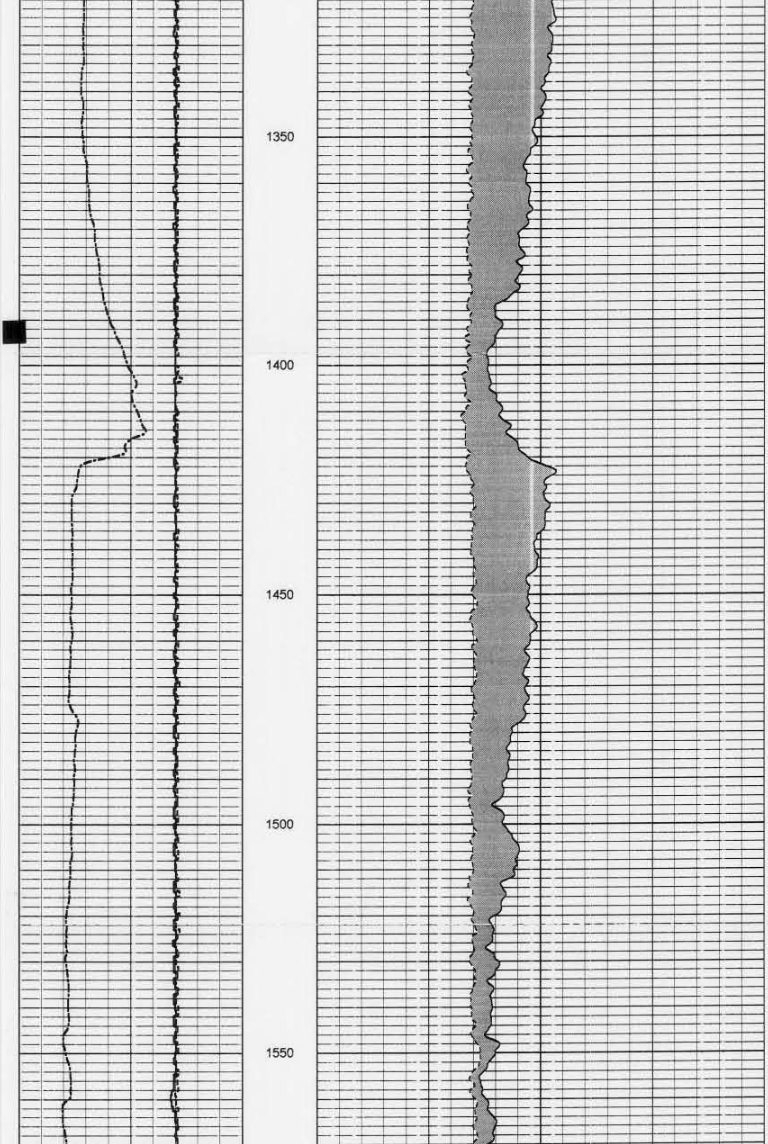
GEOPHYSICAL LOGGING DIVISION

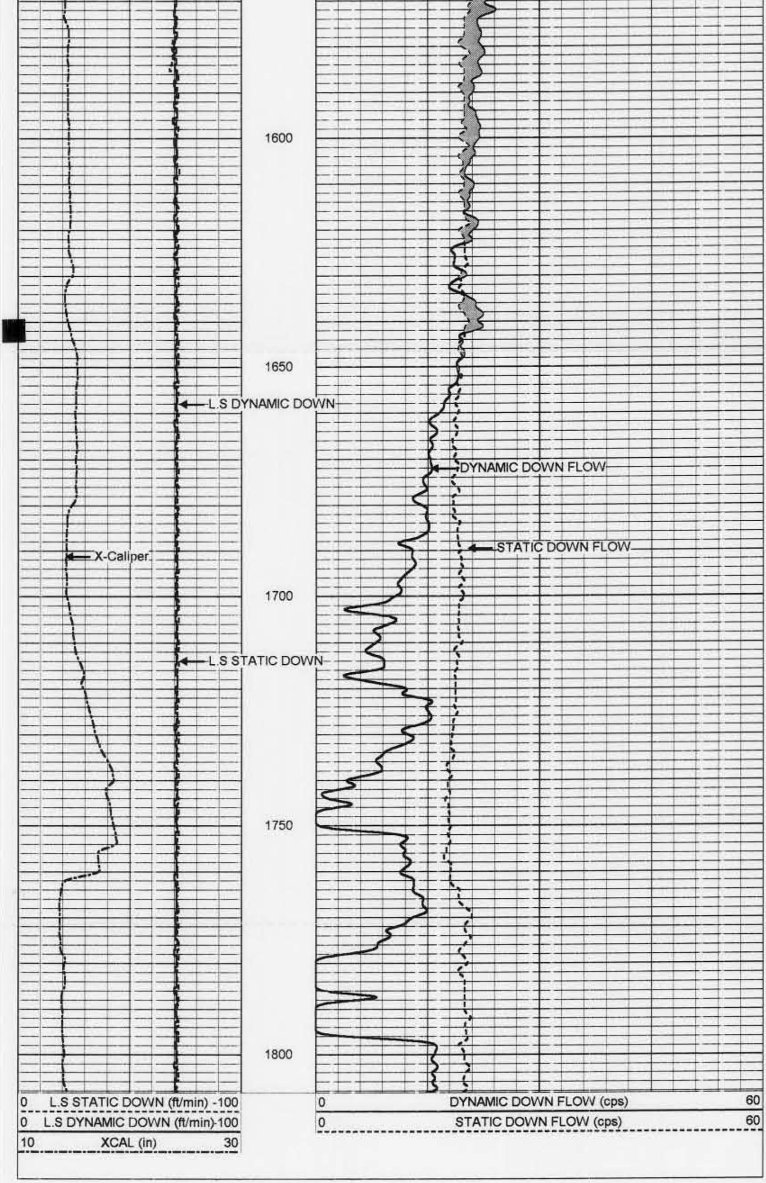
MERGED FLOW - 480 GPM

Database File:	ntmbmw1.db
Dataset Pathname:	run4/pass15
Presentation Format:	fm_dnmg
Dataset Creation:	Tue Nov 30 00:40:28 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240





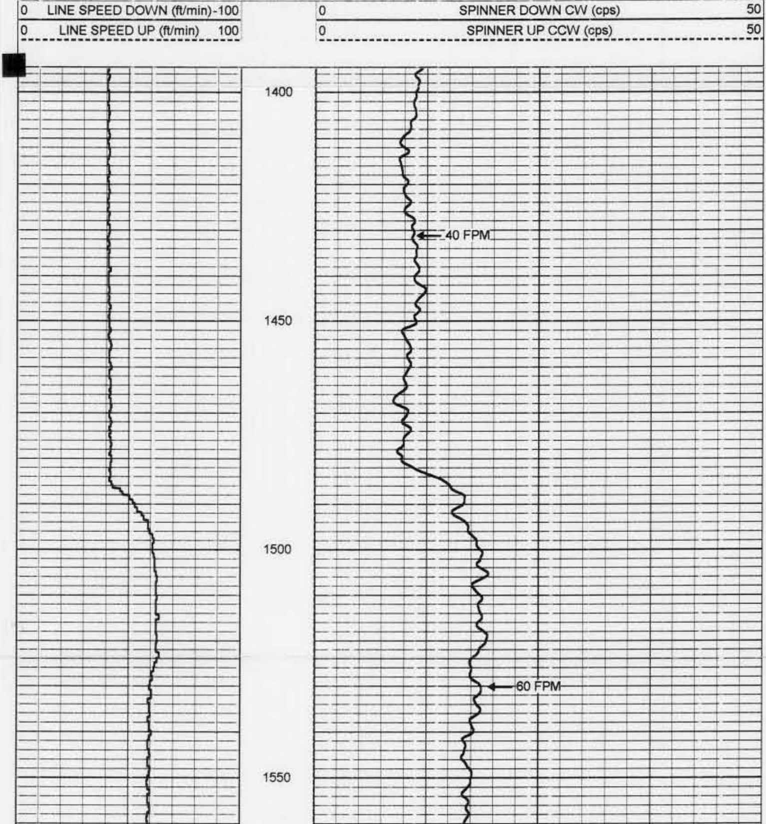


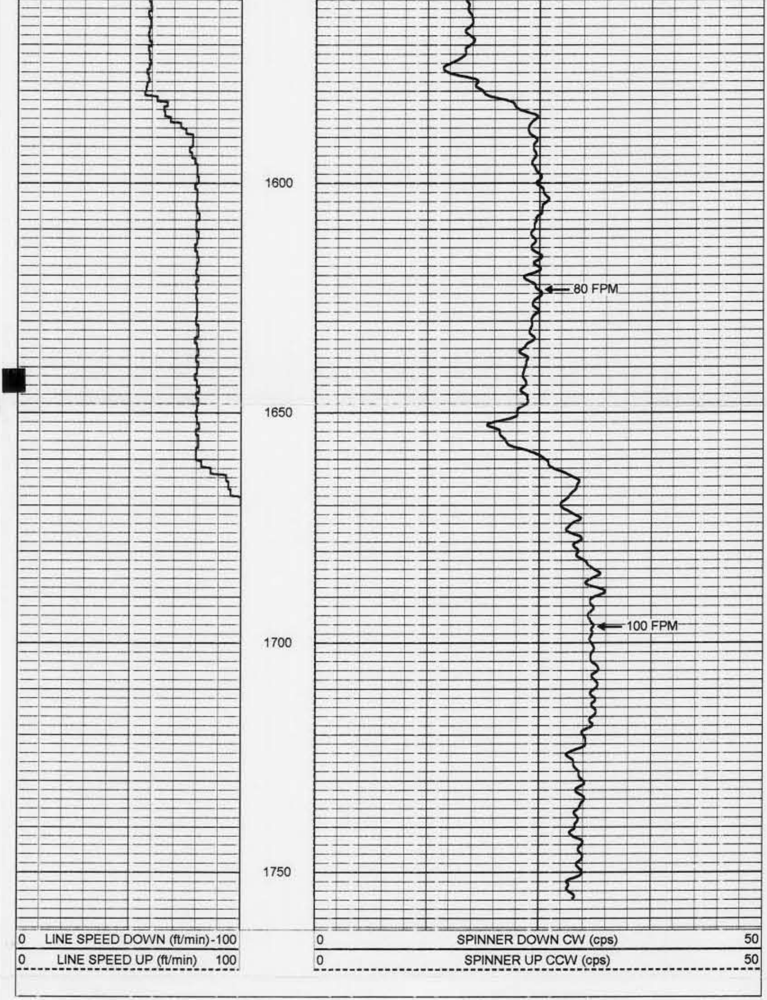


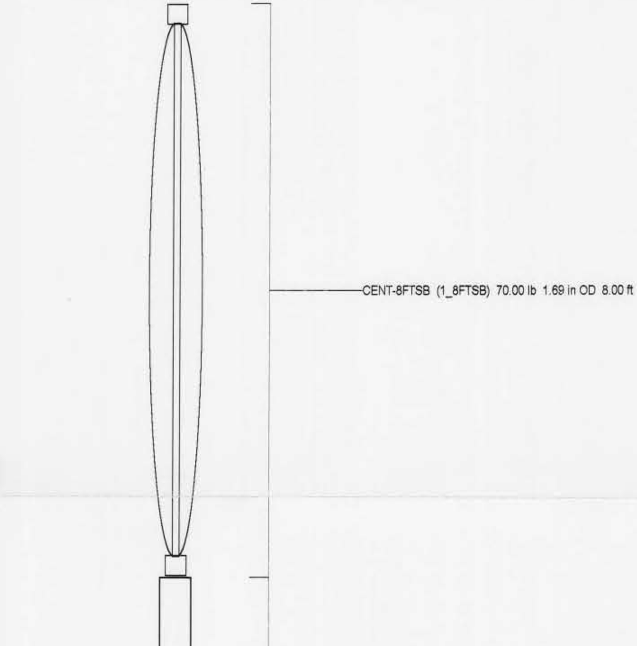
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLOW CALIBRATIONS

Database File:	ntmbmw1.db
Dataset Pathname:	run4/pass10
Presentation Format:	flowcals
Dataset Creation:	Mon Nov 29 20:28:55 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240






CENT-8FTSB (1_8FTSB) 70.00 lb 1.69 in OD 8.00 ft
FLOW-LARGE (65)
20.00 lb 3.75 in OD 3.12 ft
FLOWP 3.75 ft
FLOWN 3.75 ft
CENT-SHRT (5_SHRT) 30.00 lb 2.00 in OD 3.25 ft
MINMK 0.00 ft

Dataset:	run4/pass15
Total Length:	14.38 ft
Total Weight:	120.00 lb
O.D.	3.75 in

YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

DUAL INDUCTION
LL3/SP
LOG

Company CITY OF NORTH MIAMI
Well MW #1
Field NORWOOD-OEFFLER W.T.P EX
County DADE
State FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P		
Well	MW #1		
Field	NORWOOD-OEFFLER W.T.P EXP.		
County	DADE	State	FLORIDA

Location			Other Services SEE COMMENTS
Permanent Datum	PAD	Elevation	Elevation K.B. D.F. G.L.
Log Measured From	PAD		
Drilling Measured From	PAD		

Date	NOV. 29, 2004		
Run Number	FOUR		
Depth Driller	1910'		
Depth Logger	1910'		
Bottom Logged Interval	1910'		
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	ON ARRIVAL		
Time Logger on Bottom	1230		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	FERGUSON		
Witnessed By	M. ABBOTT		

	Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"				
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String				
Liner				

<<< Fold Here >>>

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Comments

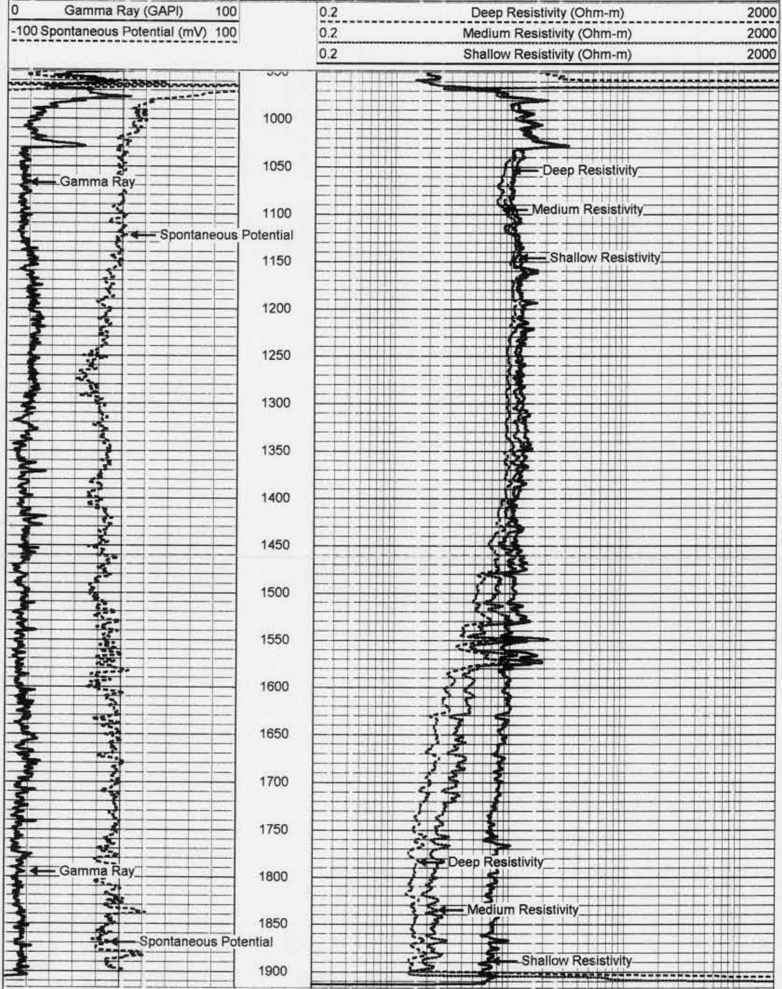
X-Y CALIPER
FLUID COND/TEMP
BOREHOLE COMPENSATED SONIC
BOREHOLE TELEVIEWER
FLOWMETER

YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run4/pass5
Presentation Format: dil
Dataset Creation: Mon Nov 29 13:55:41 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200



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

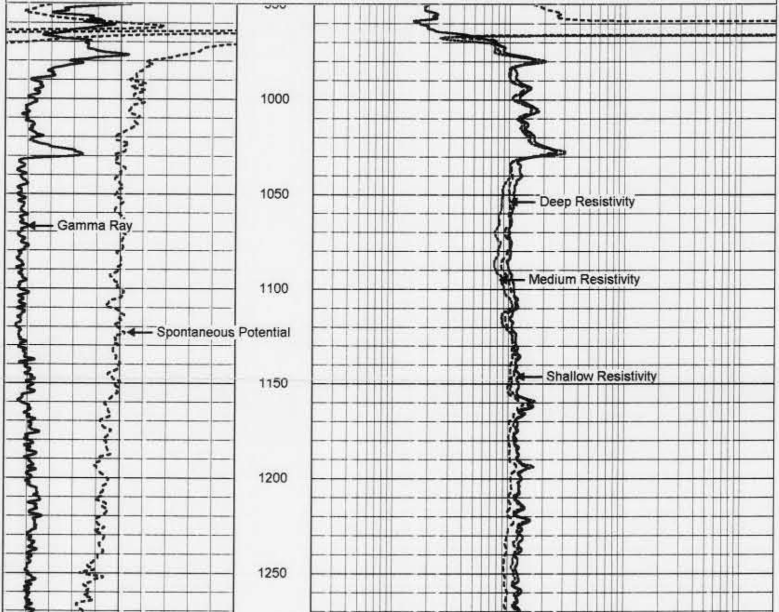
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

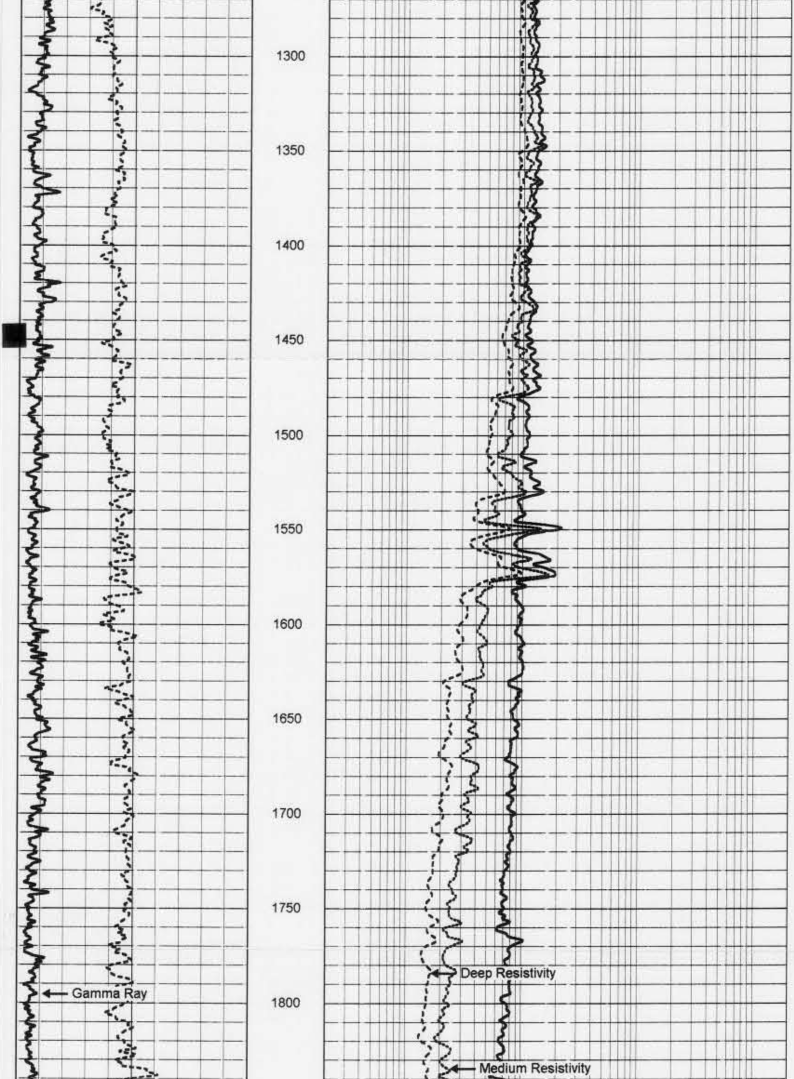
MAIN PASS

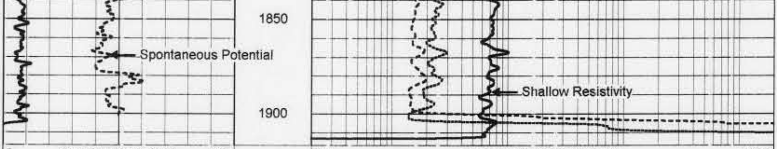
Database File: ntmbmw1.db
Dataset Pathname: run4/pass5
Presentation Format: dil
Dataset Creation: Mon Nov 29 13:55:41 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

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







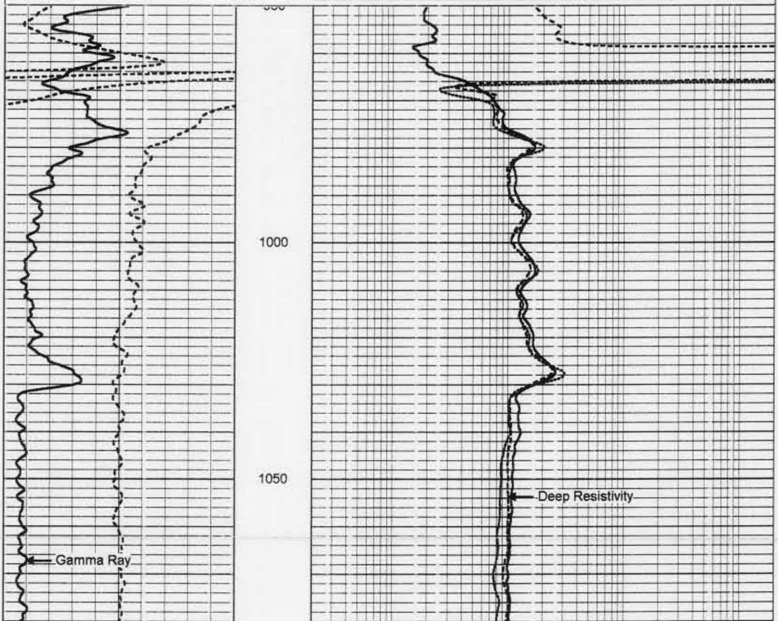
0	Gamma Ray (GAPI)	100	0.2	Deep Resistivity (Ohm-m)	2000
-100	Spontaneous Potential (mV)	100	0.2	Medium Resistivity (Ohm-m)	2000
			0.2	Shallow Resistivity (Ohm-m)	2000

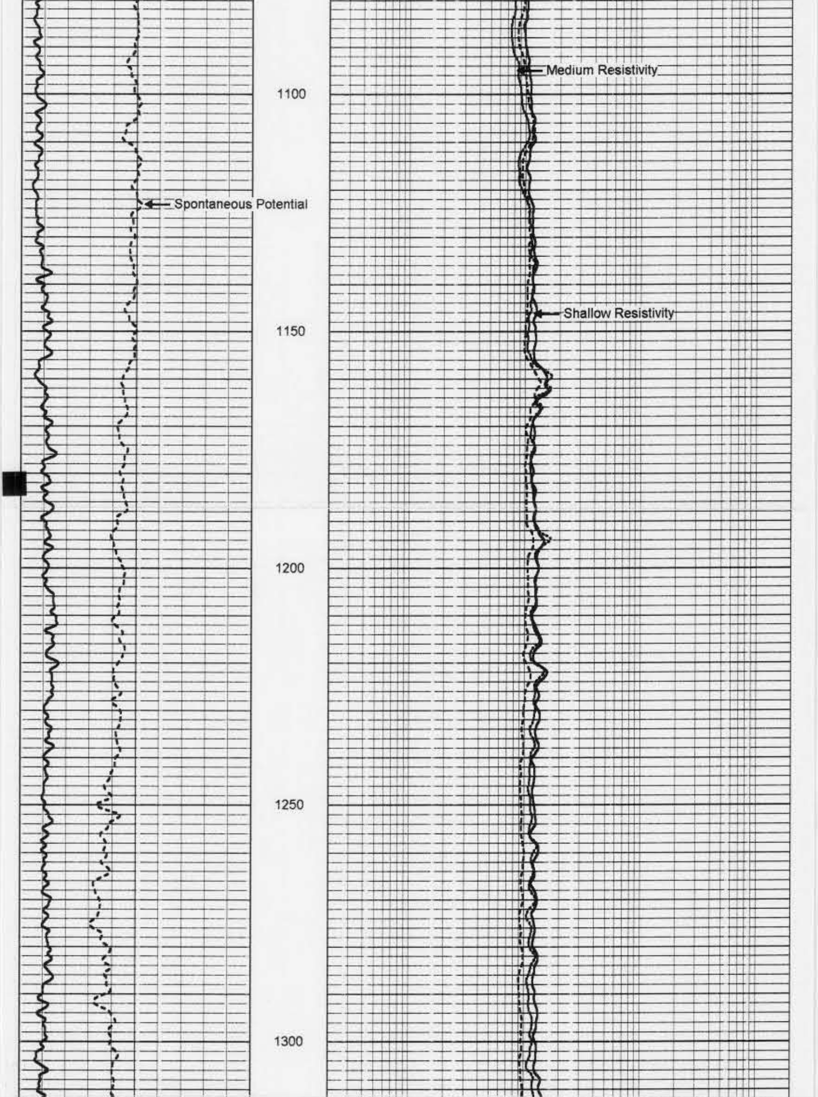
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

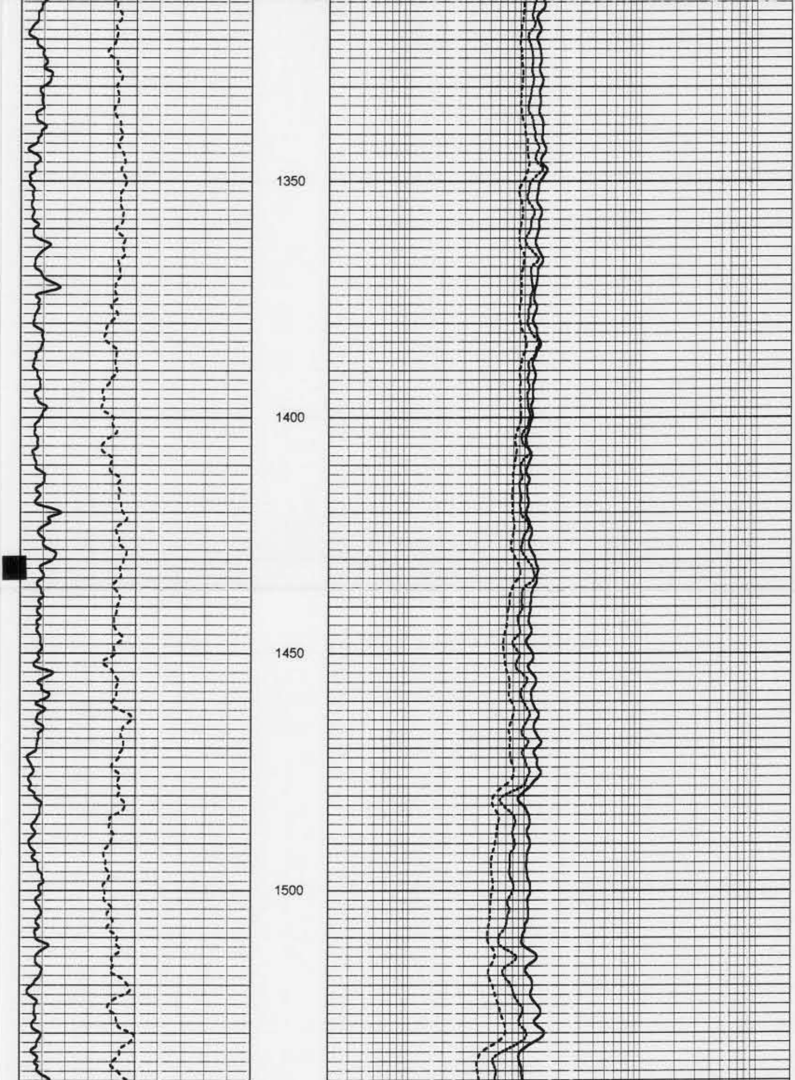
MAIN PASS

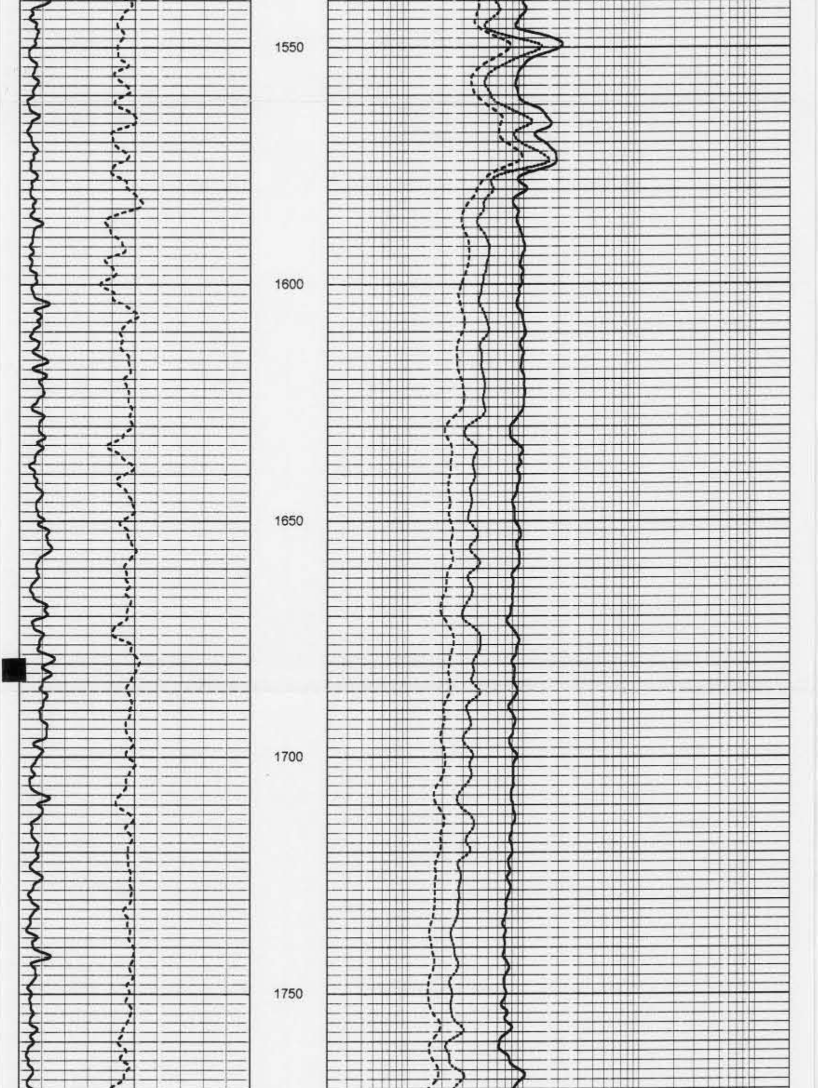
Database File:	ntmbmw1.db
Dataset Pathname:	run4/pass5
Presentation Format:	dil
Dataset Creation:	Mon Nov 29 13:55:41 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240

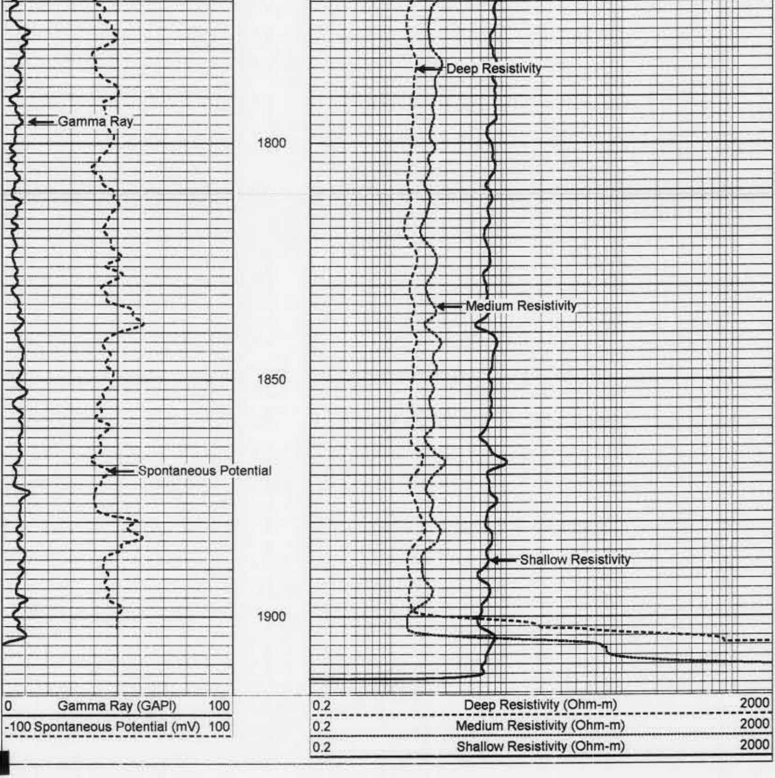
0	Gamma Ray (GAPI)	100	0.2	Deep Resistivity (Ohm-m)	2000
-100	Spontaneous Potential (mV)	100	0.2	Medium Resistivity (Ohm-m)	2000
			0.2	Shallow Resistivity (Ohm-m)	2000











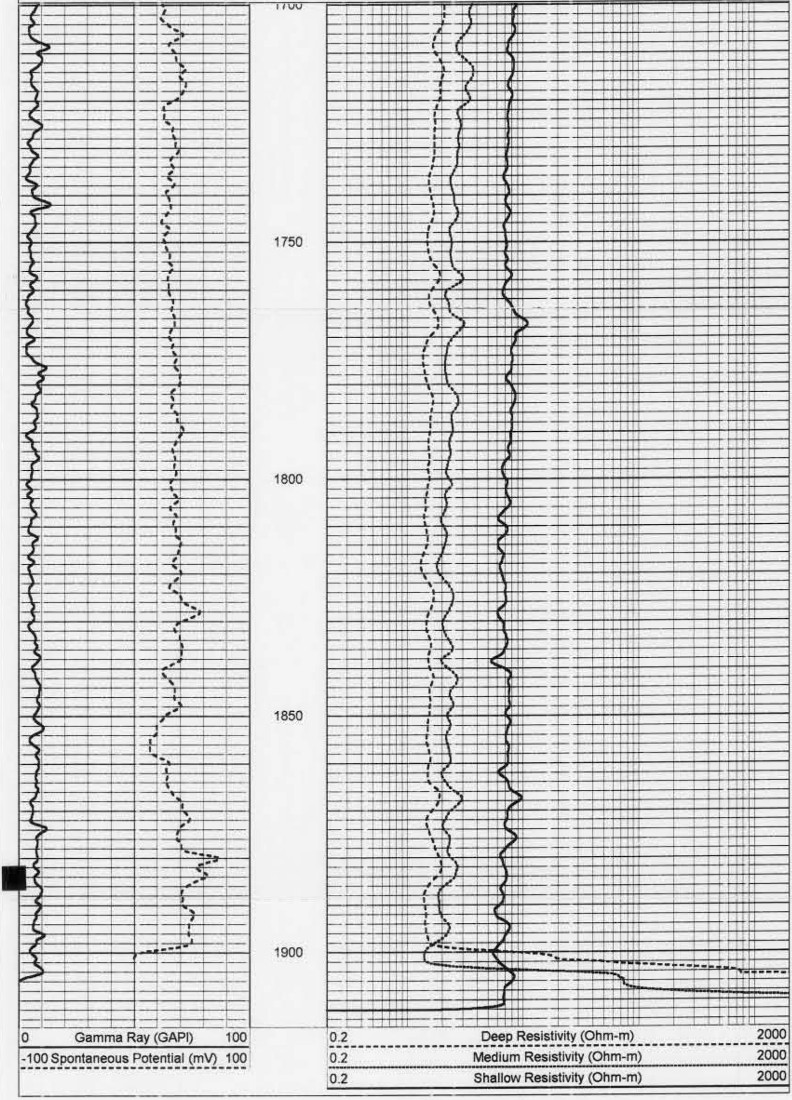
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File:	ntmbmw1.db
Dataset Pathname:	run4/pass4
Presentation Format:	dil
Dataset Creation:	Mon Nov 29 13:47:25 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240

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



Dual Induction Calibration Report

Serial-Model: 0606-R
Surface Cal Performed: Thu Apr 22 13:19:43 2004
Downhole Cal Performed: Mon Nov 29 13:34:49 2004
After Survey Verification Performed: Mon Nov 29 14:24:22 2004

Surface Calibration

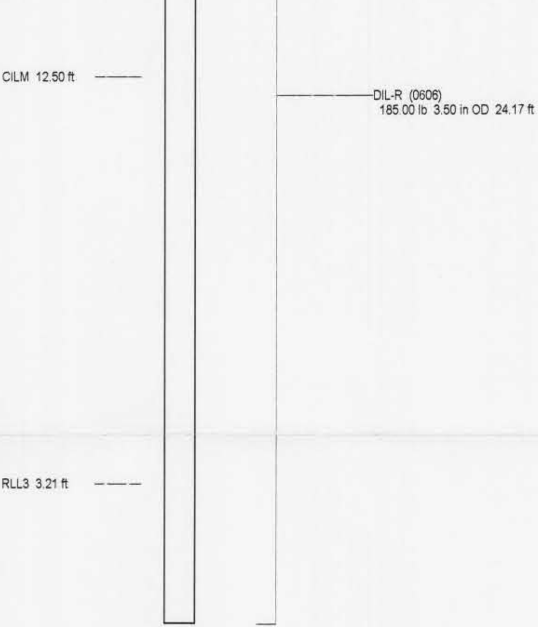
	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.027	0.642	V	0.000	400.000	mmho-m	597.907	16.143
Medium	-0.012	0.799	V	0.000	464.000	mmho-m	572.133	6.866
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.008	0.617	V	20.920	384.470	mmho-m	596.963	16.144
Medium	0.012	0.736	V	12.740	427.710	mmho-m	573.164	5.862

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	14.096	385.894	mmho-m	19.289	388.610	mmho-m	0.993	5.286
Medium	13.008	434.069	mmho-m	7.432	433.713	mmho-m	1.012	-5.738
Shallow	0.033	2.384	V	13.000	1300.000	Ohm-m	547.479	-5.014

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	22.318	394.207	mmho-m	14.096	385.894	mmho-m	0.993	5.286
Medium	12.603	435.979	mmho-m	13.008	434.069	mmho-m	1.012	-5.738
Shallow	11.617	1136.157	Ohm-m	13.000	1300.000	Ohm-m	1.144	-0.295



Dataset: run4/pass6
Total Length: 24.17 ft
Total Weight: 185.00 lb
O.D. 3.50 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER GAMMA RAY LOG

Company	CITY OF NORTH MIAMI
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EX
County	DADE
State	FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EXP.
County	DADE
State	FLORIDA

Location

Other Services	NONE			
Permanent Datum	PAD	Elevation	Elevation	K.B.
Log Measured From	PAD			D.F.
Drilling Measured From	PAD			G.L.

Date	DEC. 16, 2004		
Run Number	SEVEN		
Depth Driller	1573'		
Depth Logger	1573'		
Bottom Logged Interval	1573'		
Top Log Interval	CASING		
Open Hole Size	22.5"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	NA		
Estimated Cement Top	NA		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	0430		
Equipment Number	101		
Location	FT. MYERS		
Recorded By	CATHEY		
Witnessed By	G. YOUNG		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"	FIVE	22.5"	CASING	1573'
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String				
Liner				

<<< Fold Here >>>

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Comments

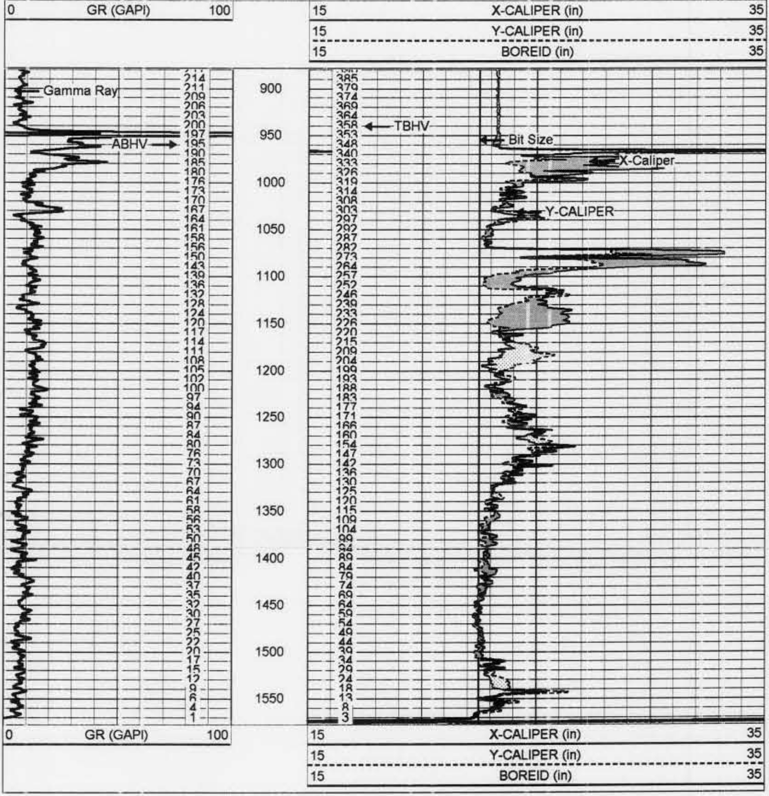
BOREHOLE VOLUMES IN BARRELS
FOR 16" CASING

YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

MAIN PASS

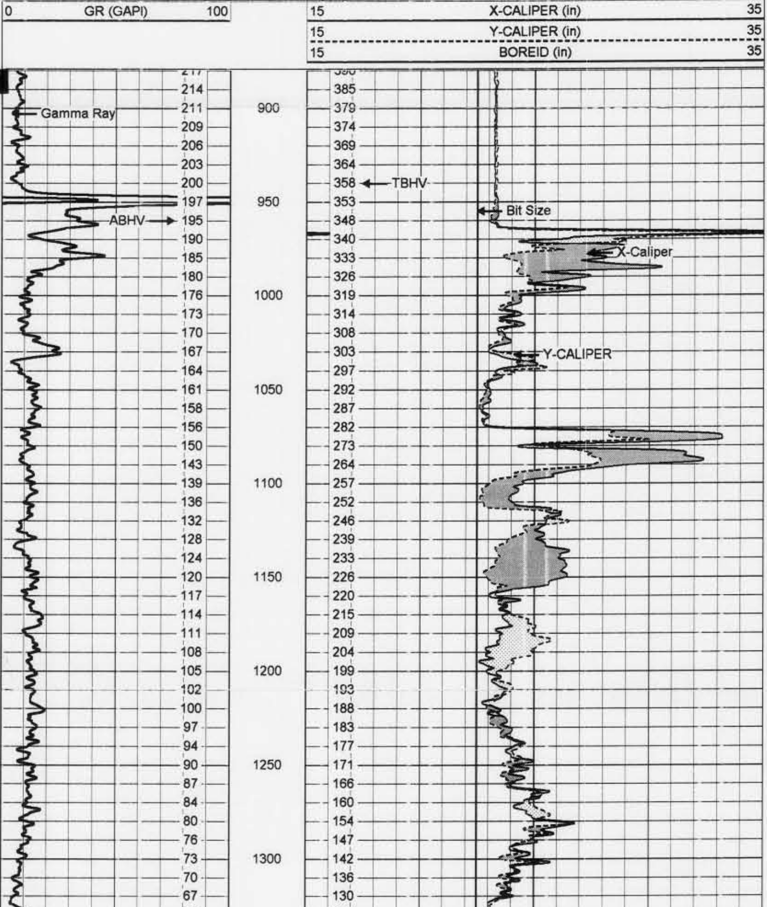
Database File:	ntmbmw1.db
Dataset Pathname:	run7/pass2.1
Presentation Format:	grxyc
Dataset Creation:	Thu Dec 16 05:22:17 2004 by Calc 6.2_B4
Charted by:	Depth in Feet scaled 1:1200

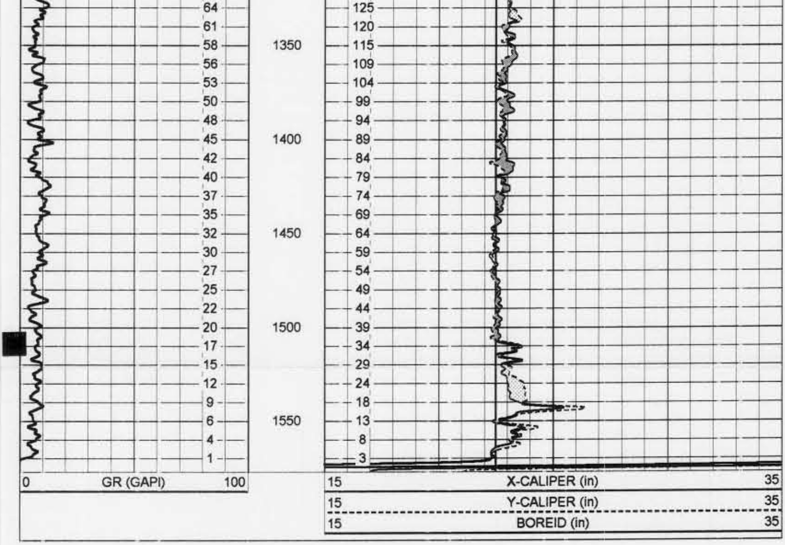


YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File:	ntmbmw1.db
Dataset Pathname:	run7/pass2.1
Presentation Format:	grxyc
Dataset Creation:	Thu Dec 16 05:22:17 2004 by Calc 6.2_B4
Charted by:	Depth in Feet scaled 1:600

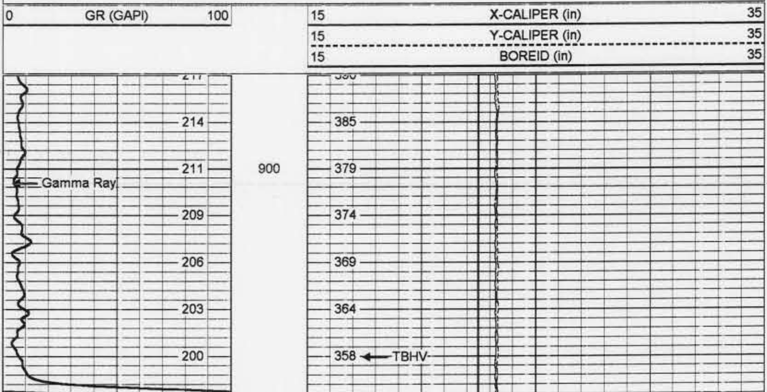


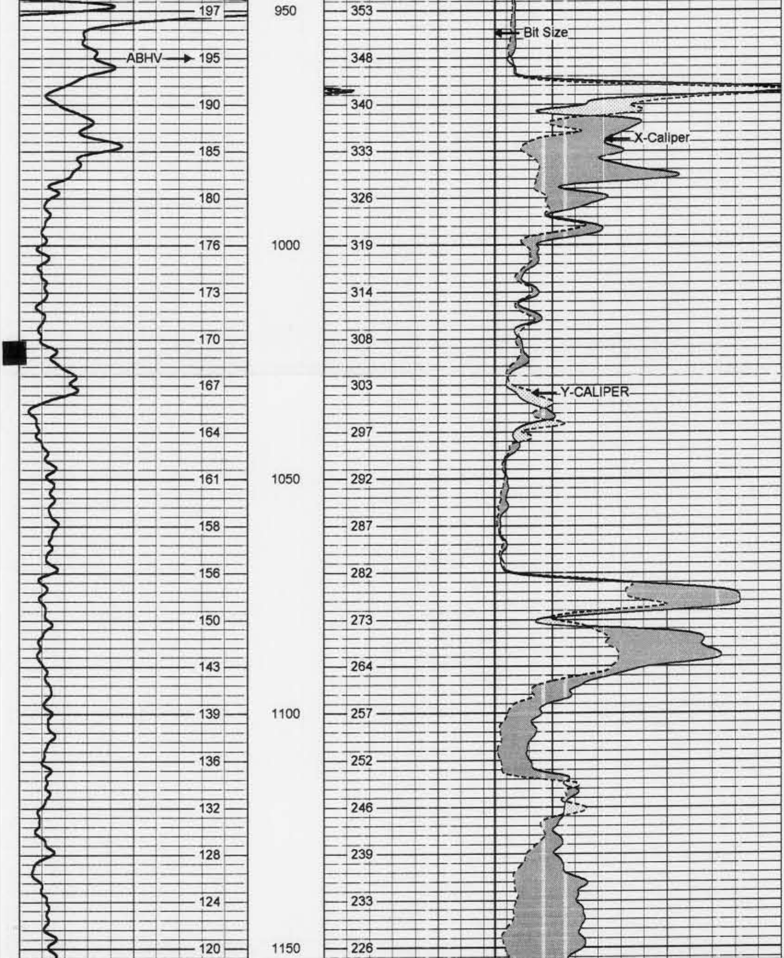


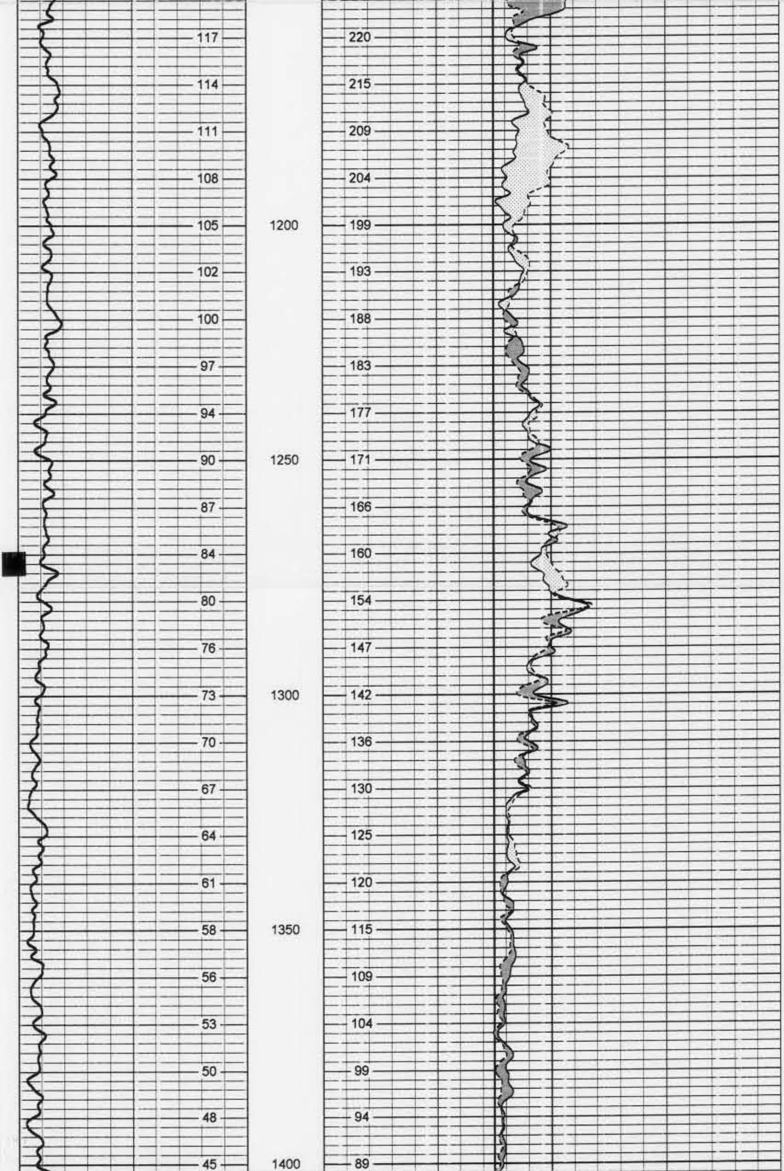
YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

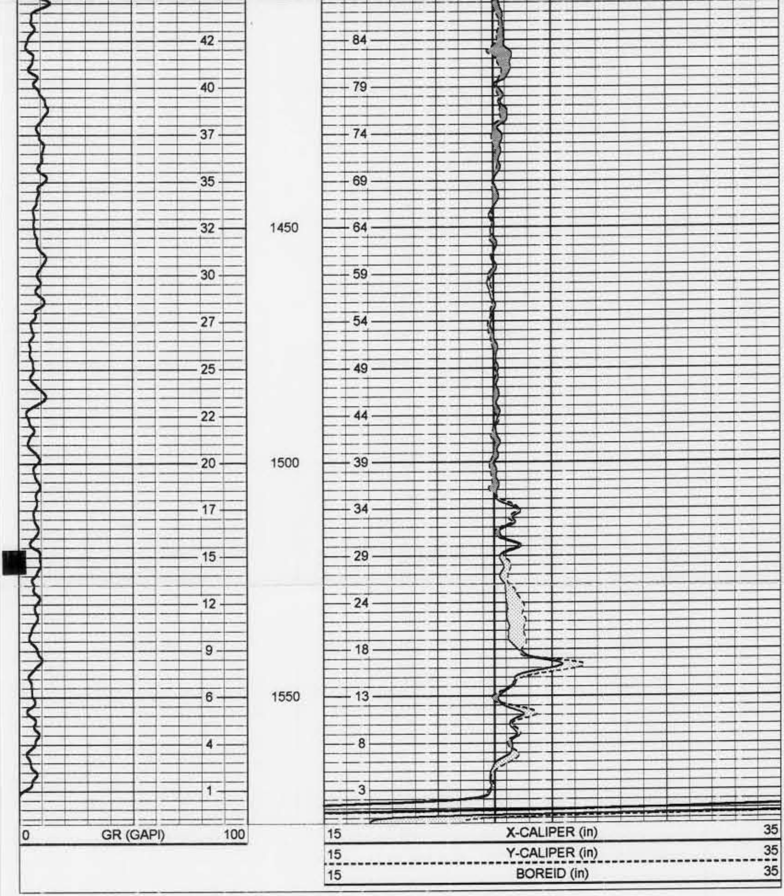
MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run7/pass2.1
Presentation Format: grxyc
Dataset Creation: Thu Dec 16 05:22:17 2004 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240





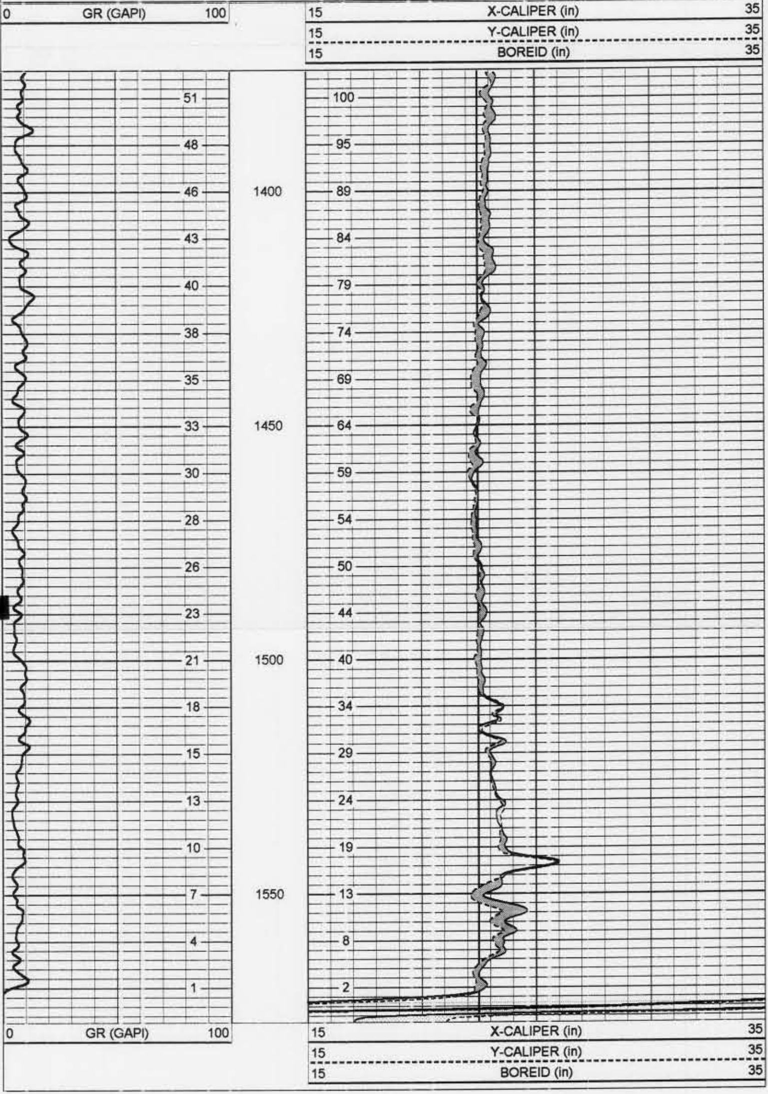




YOUNGQUIST
BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: ntmbmw1.db
Dataset Pathname: run7/pass1.1
Presentation Format: grxyc
Dataset Creation: Thu Dec 16 05:24:49 2004 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240



XY Caliper Calibration Report

Serial Number/Model: 02SM-XYCSM
Performed: Thu Dec 16 04:33:01 2004

Ring			X Caliper		Y Caliper	
1:	10	in	562.062	cps	497.397	cps
2:	20	in	715.816	cps	654.855	cps
3:	30	in	902.703	cps	841.542	cps
4:	55	in	1442.14	cps	1398.6	cps
5:		in		cps		cps
6:		in		cps		cps

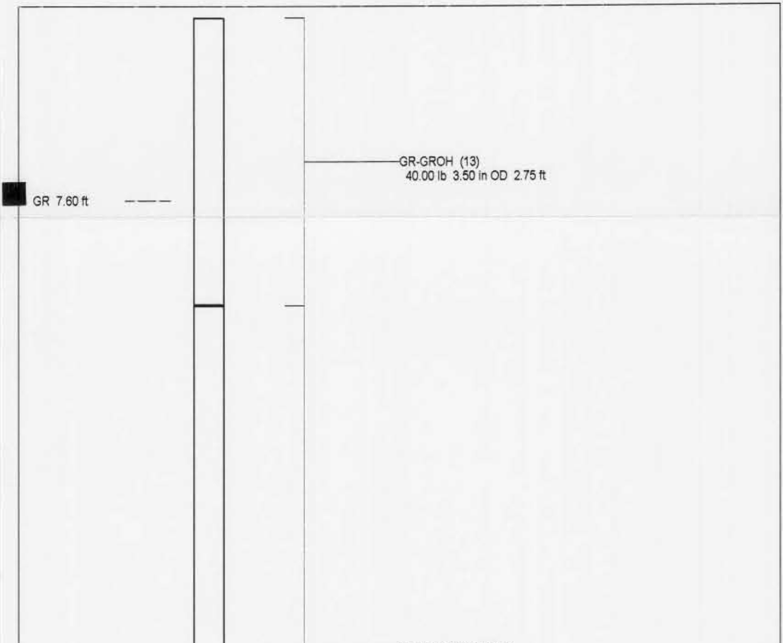
Gamma Ray Calibration Report

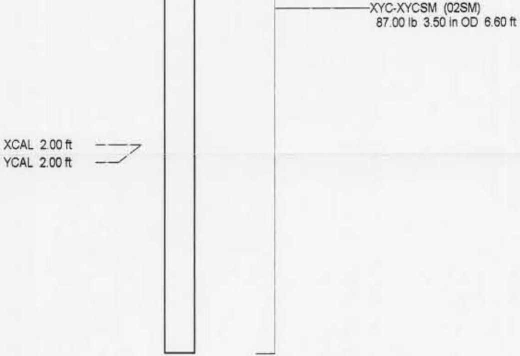
Serial Number: 13
Tool Model: GROH
Performed: Fri Dec 10 09:51:05 2004

Calibrator Value: 120 GAPI

Background Reading: 31.9319 cps
Calibrator Reading: 122.789 cps

Sensitivity: 1.32075 GAPI/cps





Dataset: run7/pass2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in

YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER GAMMA RAY LOG

Company	CITY OF NORTH MIAMI
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EX
County	DADE
State	FLORIDA

Company	CITY OF NORTH MIAMI BEACH W.T.P
Well	MW #1
Field	NORWOOD-OEFFLER W.T.P EXP.
County	DADE State FLORIDA
Location	
Other Services	CBL

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

Date	DEC. 21, 2004		
Run Number	NINE		
Depth Driller	1850'		
Depth Logger	1850'		
Bottom Logged Interval	1850'		
Top Log Interval	1400'		
Open Hole Size	12.25"		
Type Fluid	WATER		
Density / Viscosity	NA		
Max. Recorded Temp.	N/A		
Estimated Cement Top	N/A		
Time Well Ready	ON ARRIVAL		
Time Logger on Bottom	2200		
Equipment Number	103		
Location	FT. MYERS		
Recorded By	FERGUSON		
Witnessed By	R. WALTHER		

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	40"	SURFACE	485"	FIVE	22.5"	CASING	1573'
TWO	12.25"	CASING	985'				
THREE	28.5"	CASING	970'				
FOUR	12.25"	CASING	1910'				

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	30"	.375 W.T.	SURFACE	480'
Prot. String	24"	.375 W.T.	SURFACE	960'
Production String	16"	.5 W.T.	SURFACE	1570'
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

ABHV CALCULATED FOR 6.625" CASING IN BARRELS

YOUNGQUIST BROTHERS, Inc

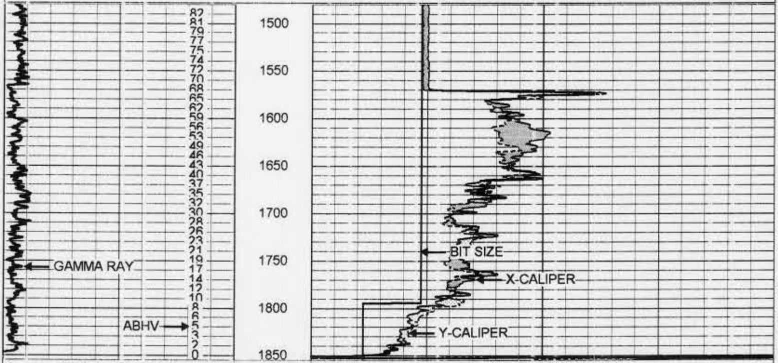
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run9/pass2
Presentation Format: grxyc
Dataset Creation: Tue Dec 21 22:27:52 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200

0 GAMMA RAY (GAPI) 100

10 X-CALIPER (in) 30
10 Y-CALIPER (in) 30
10 BIT SIZE (in) 30



0 GAMMA RAY (GAPI) 100

10 X-CALIPER (in) 30
10 Y-CALIPER (in) 30
10 BIT SIZE (in) 30

YOUNGQUIST BROTHERS, Inc

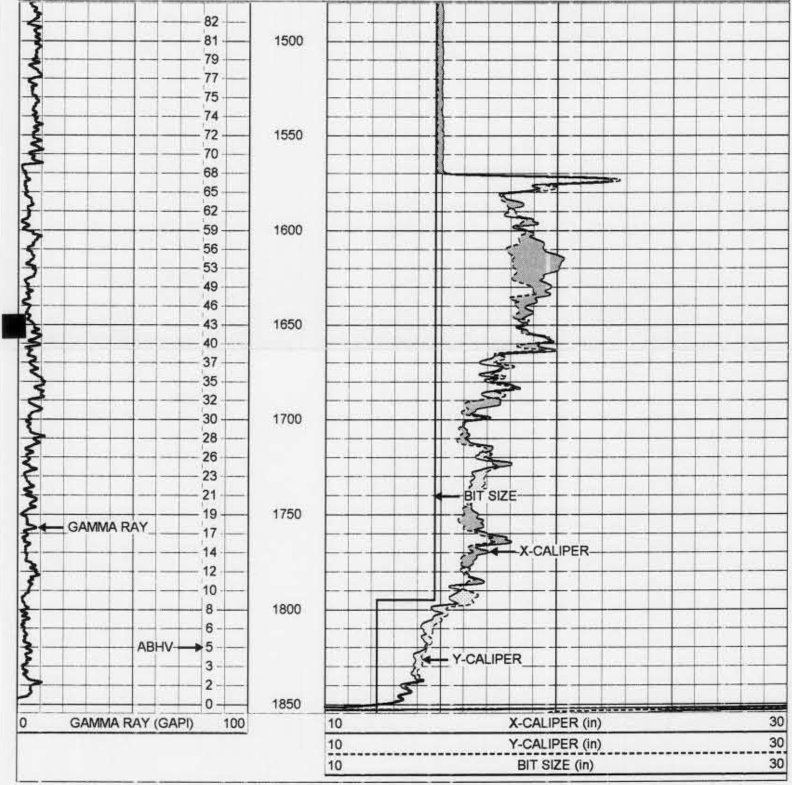
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run9/pass2
Presentation Format: grxyc
Dataset Creation: Tue Dec 21 22:27:52 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 100

10 X-CALIPER (in) 30
10 Y-CALIPER (in) 30
10 BIT SIZE (in) 30

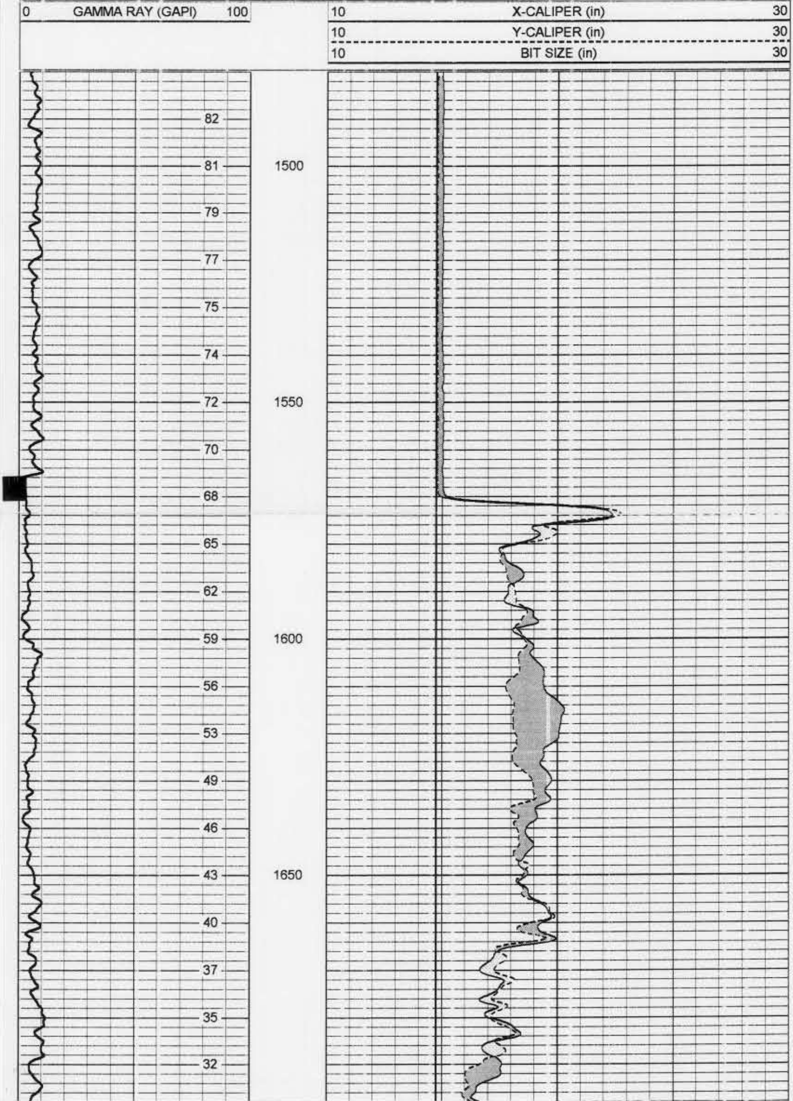


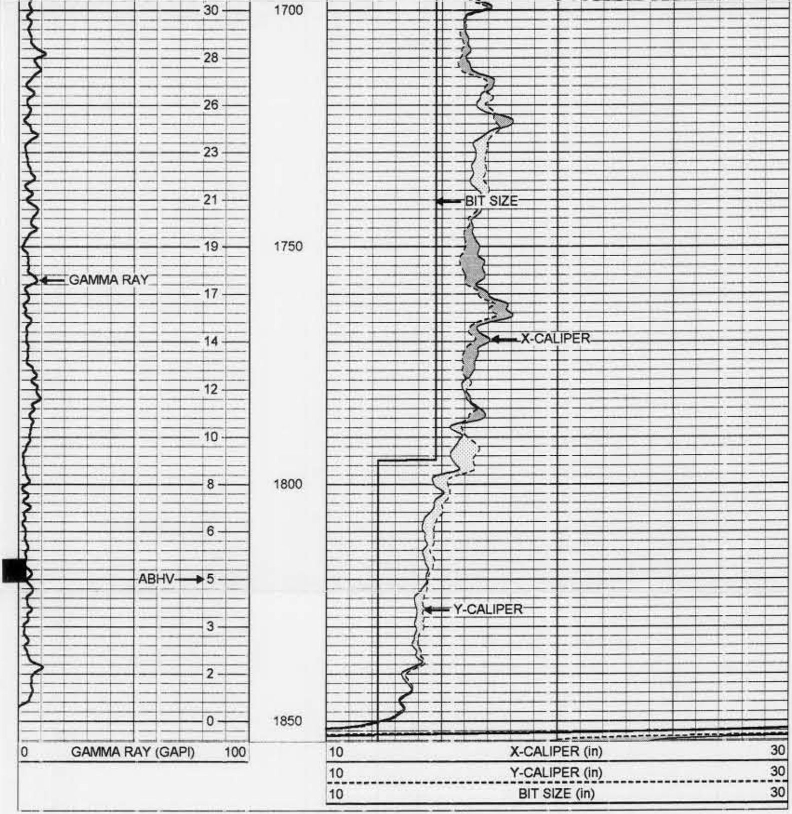
YOUNGQUIST BROTHERS, Inc

GEOPHYSICAL LOGGING DIVISION

MAIN PASS

Database File: ntmbmw1.db
Dataset Pathname: run9/pass2
Presentation Format: grxyc
Dataset Creation: Tue Dec 21 22:27:52 2004 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

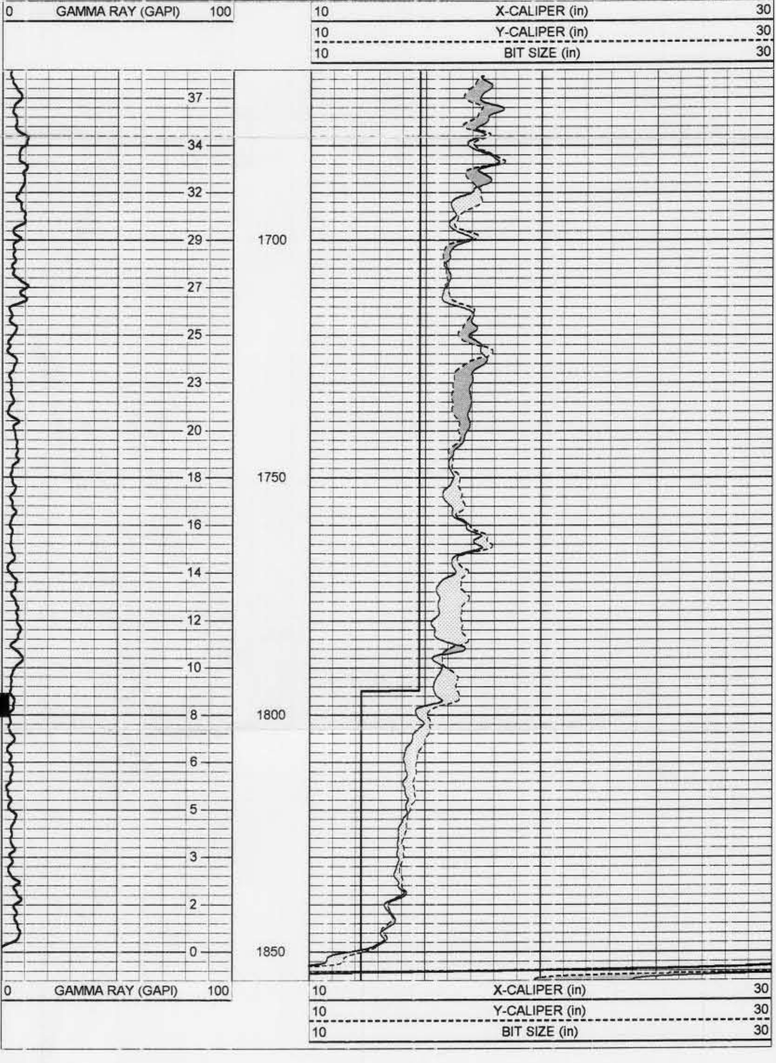




YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File:	ntmbmw1.db
Dataset Pathname:	run9/pass1
Presentation Format:	grxyc
Dataset Creation:	Tue Dec 21 22:14:09 2004 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240



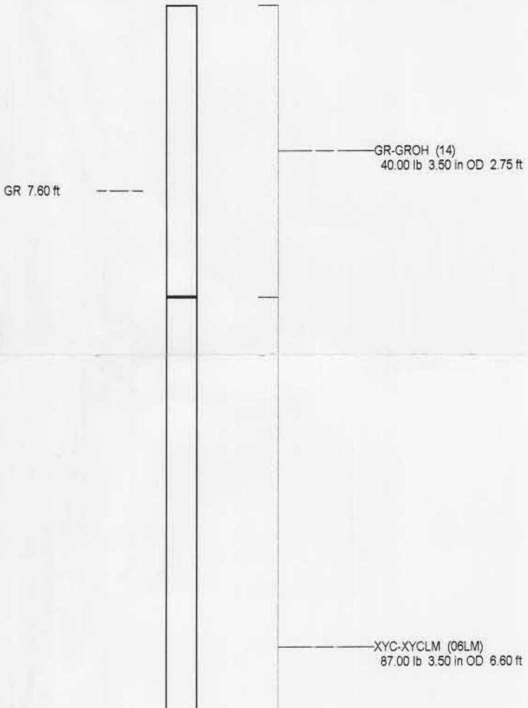
XY Caliper Calibration Report

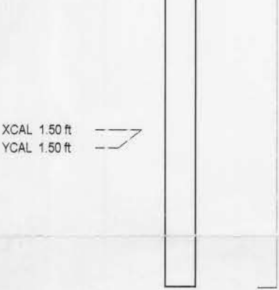
Serial Number/Model: 06LM-XYCLM
Performed: Tue Dec 21 21:56:31 2004

Ring			X Caliper		Y Caliper	
1:	5.81	in	307.207	cps	350.951	cps
2:	13.25	in	411.411	cps	450.851	cps
3:	40	in	844.344	cps	884.484	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	14	
Tool Model:	GROH	
Performed:	Thu Apr 22 14:58:52 2004	
Calibrator Value:	120	GAPI
Background Reading:	29.8187	cps
Calibrator Reading:	196.663	cps
Sensitivity:	0.719232	GAPI/cps





Dataset: run9/pass2
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.50 in