Company VAUGHN & SAWYER
Well OCEAN 1
Field CHOKOLOSKEE
County BROWARD
State FLORIDA
Date 08-Oct-2008
Run 1
Depth Log Type GAMMA RAY
Depth Reference KB
Log Reference KB
Elevation KB 0.00 ft
Elevation GL 0.00 ft
Elevation DF 0.00 ft
Log Interval 1500.00 - 1800.00 ft
Scale 1:50
Depth Unit ft

YOUNGQUIST GEOPHYSICAL, Inc.
Schlumberger Company

GAMMA RAY
OCEAN 1
VAUGHN & SAWYER
BROWARD COUNTY
FLORIDA

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Comments

OTHER SERVICES
S-V CALIPER/GAMMA RAY
DUAL INDUCTION/GAMMA RAY
DUAL INDUCTION/GAMMA RAY
VIDEO

MAIN PASS

YOUNGQUIST GEOPHYSICAL, Inc.
Schlumberger Company

Elevation Zero 0.00 ft
Datum Reference kerrmc1.dfl
Depth Reference KB
Depth Unit ft
Date Logged Thu Jun 05 20:02:44 2008
Depth Driller 1800.00 ft
Depth Logged 1799.0 ft
Casing Shoe 1800.00 ft
Casing Size 7 in
Casing Weight 20.00 lb/ft
Casing Grade J-55
Casing Type CASING
Casing Condition GOOD
Casing Fluid Type WATER
Bit Size 6.125 in
Bit Type ROLLER BIT
Bit Condition GOOD
Max Temp 0.0 degF
Max Deviation 0.0 deg
Max Dogleg 0.0 deg/100ft
Max Dogleg Depth 0.0 ft
Max Tension 0.0 lbf
Max Tension Depth 0.0 ft
Max Speed 0.0 ft/min
Max Speed Depth 0.0 ft
Max Pressure 0.0 psi
Max Pressure Depth 0.0 ft
Max Flow 0.0 gpm
Max Flow Depth 0.0 ft
Max Density 0.0 lb/gal
Max Density Depth 0.0 ft
Max Viscosity 0.0 sec/qt
Max Viscosity Depth 0.0 ft
Max Temperature 0.0 degF
Max Temperature Depth 0.0 ft
Max Pump Pressure 0.0 psi
Max Pump Pressure Depth 0.0 ft
Max Pump Rate 0.0 gpm
Max Pump Rate Depth 0.0 ft
Max Pump Power 0.0 hp
Max Pump Power Depth 0.0 ft
Max Pump Efficiency 0.0 %
Max Pump Efficiency Depth 0.0 ft
Max Pump Stroke 0.0 in
Max Pump Stroke Depth 0.0 ft
Max Pump Cycle 0.0 cycle/min
Max Pump Cycle Depth 0.0 ft
Max Pump Volume 0.0 gal/cycle
Max Pump Volume Depth 0.0 ft
Max Pump Flow 0.0 gpm
Max Pump Flow

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL LOGGING SYSTEMS

6-625" FIBF CASING BEFORE & AFTER CEMENTING CEMENT BOND LOG with VDL

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Other Services	CONDUCTIVITY
Permanent Datum	PAD
Log Measured From	PAD
Drilling Measured From	PAD
Elevation	13.33
Elevation	13.33
Elevation	13.33
Elevation	13.33
Date	10-14-06
Date	10-14-06
Date	10-14-06

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

Company	HAZEN & SAWYER
Well	CDMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Date	10-15-2006

Comments: BOREHOLE CONDITIONED SONIC WITH VDL & LOG DERIVED TDS

Company: HAZEN & SAWYER
Well: PEELE-DIXIE
Field: PEELE-DIXIE
County: BROWARD
State: FLORIDA
Date: 10-15-2006
Comments: BOREHOLE CONDITIONED SONIC WITH VDL & LOG DERIVED TDS

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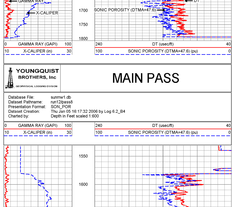
Comments

OTHER SERVICES
X-Y CALIPER/GAMMA RAY
FLUID CONDUCTIVITY/ TEMP
DUAL INDUCTION/LLS/SP
VIDEO

MAIN PASS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

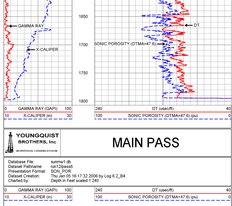
Database File: summ1.db
Dataset Pathname: run12/pass4
Presentation Format: SONIC_PDB
Dataset Creation: Thu Jan 05 16:17:32 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:120



MAIN PASS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

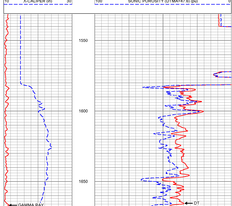
Database File: summ1.db
Dataset Pathname: run12/pass4
Presentation Format: SONIC_PDB
Dataset Creation: Thu Jan 05 16:17:32 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



MAIN PASS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

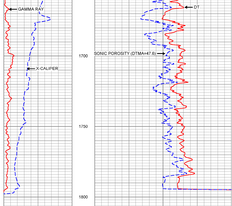
Database File: summ1.db
Dataset Pathname: run12/pass4
Presentation Format: SONIC_PDB
Dataset Creation: Thu Jan 05 16:17:32 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



MAIN PASS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

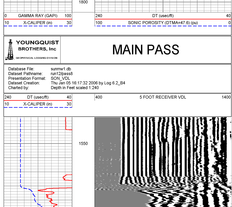
Database File: summ1.db
Dataset Pathname: run12/pass4
Presentation Format: SONIC_VDL
Dataset Creation: Thu Jan 05 16:17:32 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



MAIN PASS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

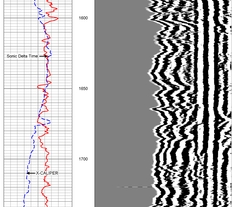
Database File: summ1.db
Dataset Pathname: run12/pass4
Presentation Format: SONIC_VDL
Dataset Creation: Thu Jan 05 16:17:32 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



REPEAT PASS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

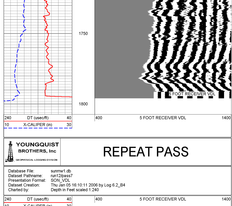
Database File: summ1.db
Dataset Pathname: run12/pass9
Presentation Format: SONIC_VDL
Dataset Creation: Thu Jan 05 16:10:11 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

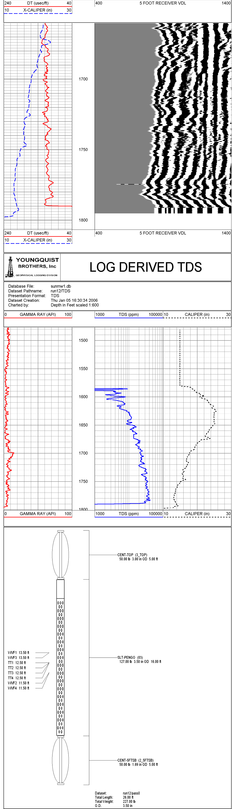


LOG DERIVED TDS

YOUNGQUIST BROTHERS, Inc.
SUPERVISION, LICENSED SYSTEMS

Database File: summ1.db
Dataset Pathname: run12/PASS9
Presentation Format: TDS
Dataset Creation: Thu Jan 05 16:30:34 2006
Charted by: Depth in Feet scaled 1:600





YOUNGQUIST BROTHERS, Inc.
SEISMOLOGICAL LOGGING SYSTEMS

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXIE
County BROWARD
State FLORIDA

BOREHOLE COMPUTED SONIC/VDL LOG

Permanent Datum:	GL
Log Measured From:	KB
Drilling Measured From:	KB
Elevation:	13.33
Elevation:	KB 13.33
GL 10.33	
Date:	10-Mar-08
Run Number:	ONE
Depth Driller:	1600
Depth Logger:	1600
Bottom Log Interval:	1600
Top Log Interval:	0
Casing Driller:	30 @ 0
Casing Logger:	30
Bit Size:	17.5
Type Fluid in the Hole:	WATER
Density / Viscosity:	1.0 / 28
Max. Rec. Temp. (°F):	85
Estimated Cement Top:	0
Time Logger on Bottom:	10:10:00
Unit Number:	1012
Witnessed By:	MR. BRIAN

Comments

OTHER SERVICES
X-Y CALIPER/ GAMMA RAY
FLUID CONDUCTIVITY/TEMPERATURE
DIALUSIP
VIDEO

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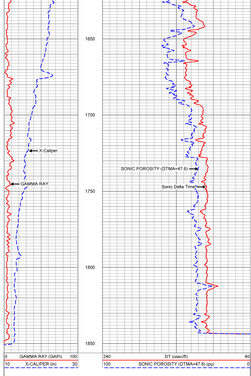
YOUNGQUIST BROTHERS, Inc
SEISMOLOGICAL LOGGING SYSTEM

MAIN PASS

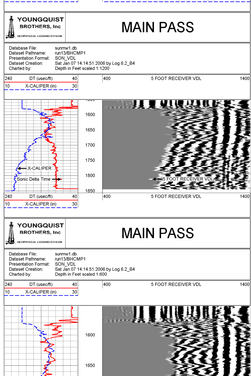
Database File: sunrise1.db
Dataset Pathname: run13/BHCMP1
Presentation Format: SON_POR
Dataset Creation: Sat Jan 07 14:14:51 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



YOUNGQUIST BROTHERS, Inc
SEISMOLOGICAL LOGGING SYSTEM

MAIN PASS

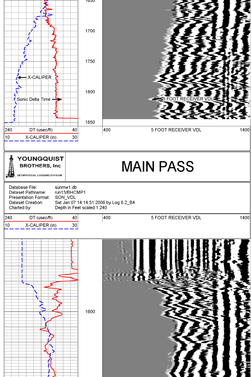
Database File: sunrise1.db
Dataset Pathname: run13/BHCMP1
Presentation Format: SON_VDL
Dataset Creation: Sat Jan 07 14:14:51 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



YOUNGQUIST BROTHERS, Inc
SEISMOLOGICAL LOGGING SYSTEM

MAIN PASS

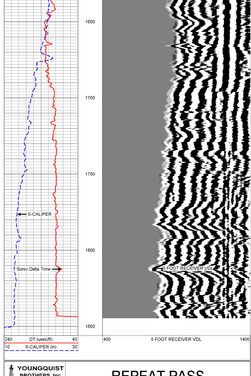
Database File: sunrise1.db
Dataset Pathname: run13/BHCMP1
Presentation Format: SON_VDL
Dataset Creation: Sat Jan 07 14:14:51 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600



YOUNGQUIST BROTHERS, Inc
SEISMOLOGICAL LOGGING SYSTEM

MAIN PASS

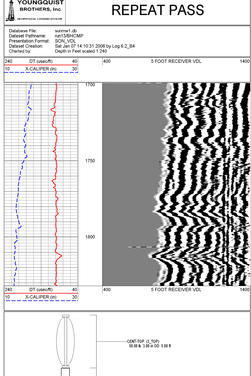
Database File: sunrise1.db
Dataset Pathname: run13/BHCMP1
Presentation Format: SON_VDL
Dataset Creation: Sat Jan 07 14:14:51 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

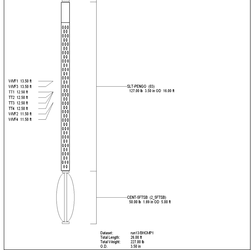


YOUNGQUIST BROTHERS, Inc
SEISMOLOGICAL LOGGING SYSTEM

REPEAT PASS

Database File: sunrise1.db
Dataset Pathname: run13/BHCMP1
Presentation Format: SON_VDL
Dataset Creation: Sat Jan 07 14:10:31 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





Company	HOOTS & SANFOR
Well	FEDERAL
Field	WILDCAT
County	HOLMES
State	FLORIDA
Date	10-Jan-2005
Run No.	ONE
Depth Driller	1500
Depth Logger	1500
Bottom Log Int.	1500
Top Log Int.	SURFACE
Casing Driller	8 5/8 @ 0
Casing Logger	8 5/8 @ 0
Bit Size	7 7/8
Type Fluid in Hole	WATER
Dens. / Visc.	N/A
pH / Fluid Loss	N/A
Source of Sample	FLOWING
Rm @ Meas. Temp.	N/A
Rmf @ Meas. Temp.	N/A
Rmc @ Meas. Temp.	N/A
Source Rmf / Rmc	N/A
Rm @ BHT	N/A
Time Since Circ.	N/A
Max. Rec. Temp.	70
Equip. Location	N/A
Recorded By	N/A
Witnessed By	N/A

YOUNGQUIST BROTHERS, Inc.
SPECTRAL GAMMA RAY
SONIC
CALIPER
DENSITY
NEUTRON
PROCESSED
DIPMETER
ARRAY INDUCTION
SHALLOW FOCUSED ELECTRIC
COMPENSATED NEUTRON
LITHO DENSITY
GEOLOGY
MUD LOGGING
CONSULTING
PRODUCTION SERVICES

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CUSTOMER

MAIN PASS

Operator Co.: HOOTS & SANFOR
Operator Well: FEDERAL
Operator Field: WILDCAT
Operator County: HOLMES
Operator State: FLORIDA
Other Services: SPECTRAL GAMMA RAY, SONIC, CALIPER, DENSITY, NEUTRON, PROCESSED DIPMETER, ARRAY INDUCTION, SHALLOW FOCUSED ELECTRIC, COMPENSATED NEUTRON, LITHO DENSITY
Date: Run No. ONE 10-Jan-2005 Log No.1 Job No. 10-Jan-2005
Operator Rig: FLOWING
Depth Driller: 1500
Depth Logger: 1500
Bottom Log Int.: 1500
Top Log Int.: SURFACE
Casing Driller: 8 5/8 @ 0
Casing Logger: 8 5/8 @ 0
Bit Size: 7 7/8
Type Fluid in Hole: WATER
Dens. / Visc.: N/A
pH / Fluid Loss: N/A
Source of Sample: FLOWING
Rm @ Meas. Temp.: N/A
Rmf @ Meas. Temp.: N/A
Rmc @ Meas. Temp.: N/A
Source Rmf / Rmc: N/A
Rm @ BHT: N/A
Time Since Circ.: N/A
Max. Rec. Temp.: 70
Equip. Location: N/A
Recorded By: N/A
Witnessed By: N/A

GAMMA RAY (API) 0 — 10 CALIPER (in) 6 — 16 — 27 Caliper(in) — SONIC PORSITY (SFTBHC) (% pu) — 1000 — 1500

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

(16" CASING) CEMENT TOP TEMPERATURE LOG

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Location	PEELE-DIXIE W/T P
Permanent Datum	PAD
Log Measured From	PAD
Drilling Measured From	K. F.
Elevation	13.23
	D.F. 13.23
	G.L.
Other Services	NONE

Date	DEC. 29, 2005		
Depth Driller	1540		
Depth Logged Interval	1540		
Bottom Logged Interval	1540		
Type Fluid in Hole	SALINE		
Salinity, Viscosity	35K, 34		
Density, Viscosity	9.2 LB/G		
Maximum Recorded Temp.	91		
Estimated Cement Top	N/A		
Time Logger on Bottom	N/A		
Equipment Number	GV-PORTABLE		
Location	GV		
Recorded By	D. ROSS		
Witnessed By	CONSULTANT		

Casing Record	Size	Weight	Top	Bottom
Surface String	16"	65	0	1541
Production String	8 5/8"	24	0	1541
	5 1/2"	17	0	1541
	4 1/2"	9.5	0	1541
	3 1/2"	9.2	0	1541
	2 7/8"	6.5	0	1541
	2 3/8"	4.7	0	1541
	1 1/2"	2.9	0	1541
	1"	1.7	0	1541
Bit Record	Bit Number	16		
	Diameter	16"		
	Type	TRICONE		
	Serial Number	16		
	Condition	1-1-WT-A-E-I-NO-TD		
Run Number		16		
Depth In		0		
Depth Out		1541		

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Comments

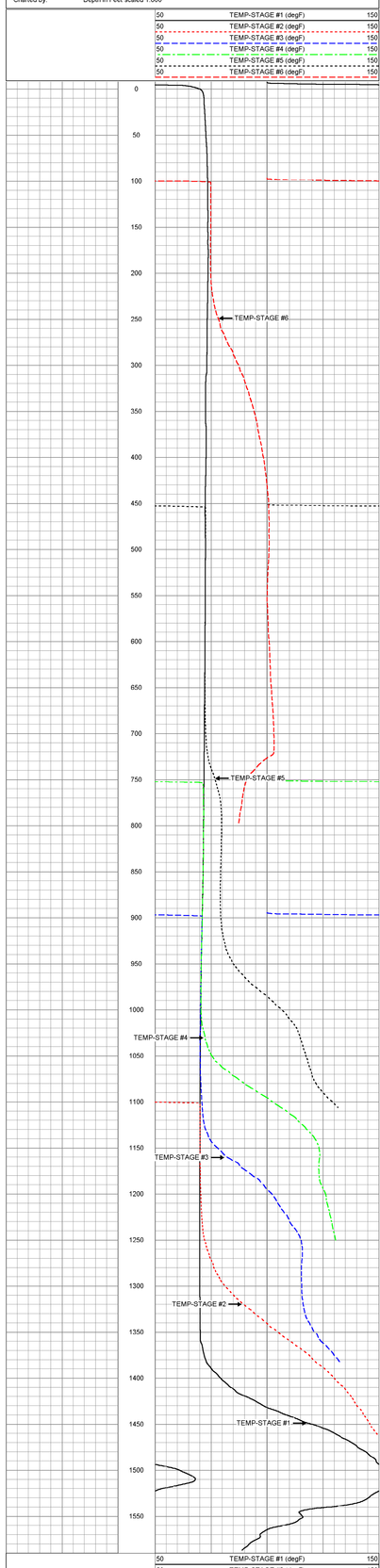
STAGE# 1 LOGGED @0700 ON 12/29/05
STAGE# 2 LOGGED @1800 ON 12/29/05
STAGE# 3 LOGGED @0800 ON 12/30/05
STAGE# 4 LOGGED @2130 ON 12/30/05
STAGE# 5 LOGGED @1100 ON 12/31/05
STAGE# 6 LOGGED @0730 ON 1/1/06

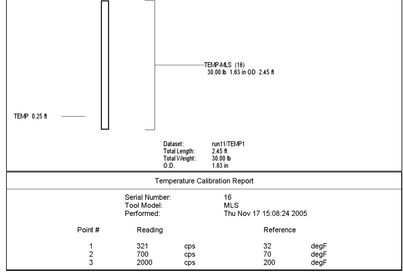
<<< Fold Here >>>

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MERGED CTL

Database File: sunmw1.db
Dataset Pathname: run11/TEMP1
Presentation Format: CTL_MG
Dataset Creation: Thu Dec 29 07:04:57 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600





Dataset: run11/TEMP1
Total Length: 2.45 ft
Total Weight: 30.00 lb
O.D. 1.63 in

Temperature Calibration Report

Serial Number: 16
Tool Model: MLS
Performed: Thu Nov 17 15:08:24 2005

Point #	Reading		Reference	
1	321	cps	32	degF
2	700	cps	70	degF
3	2000	cps	200	degF

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXEE
County	BROWARD
State	FLORIDA

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

(CEMENT TOP) TEMPERATURE 6.625" FRP CASING LOG

Company	HAZEN & SAWYER		
Well	DZMW-1		
Field	PEELE-DIXIE		
County	BROWARD	State	FLORIDA
Location	PEEL-DIXIE W1 T P	Other Services	SEE COMMENTS

Permanent Datum	PAD	Elevation	13.33
Log Measured From	PAD	K.B. Elevation	
Drilling Measured From	PAD	D.F. Elevation	13.33

Date	JAN 31, 2006		
Run Number	TW		
Depth Driller	1640'		
Depth Logger	1640'		
Bottom Logged Interval	1640'		
Top Log Interval	0'		
Open Hole Size	6.625"		
Type Fluid in Hole	WATER		
Max Recorded Temp.	NA		
Estimated Cement Top	1320		
Time Well Ready	NA		
Time Logger on Bottom	NA		
Equipment Number	1320		
Location	PEELE DIXIE		
Recorded By	T. LEWIS		
Witnessed By	MR. ROSS		

Bit Size	Type Fluid	Density	Viscosity	PH	Fluid Loss	Source of Sample	Rm	Rmf	Rmc	Source Rmf/Rmc	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source Rm	Rm @ BHT	Time Since Circ.	Time Since Stopped	Max. Rec. Temp.	Equipment Location	Recorded By	Witnessed By
6.625"	FRP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Run No.	Bit No.	Depth Drilled	From	To	Hole Size	Casing Size	Weight	Depth Set	Type Joint	Bit Type	Type Mud	Density	Viscosity	PH	Fluid Loss	Source Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source Rmf/Rmc	Rm @ BHT
ONE	NA	NA	NA	NA	6.625"	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

<<< Fold Here >>>

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Comments

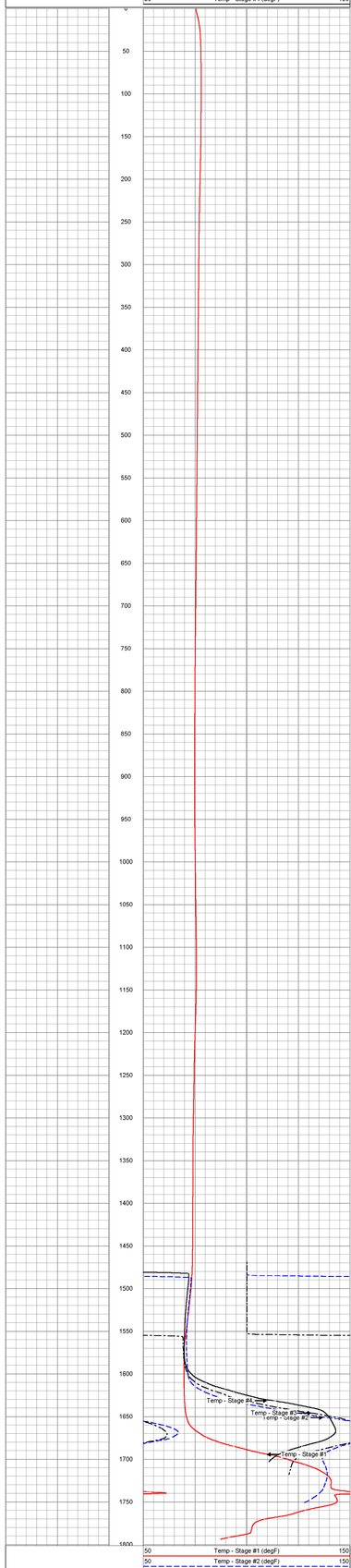
CTL
MERGE

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

CTL MERGE

Database File: sunmw1.db
Dataset Pathname: run15/CTL1
Presentation Format: CTL_MG
Dataset Creation: Sun Jan 22 19:51:27 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600

50	Temp - Stage #1 (degF)	150
50	Temp - Stage #2 (degF)	150
50	Temp - Stage #3 (degF)	150
50	Temp - Stage #4 (degF)	150

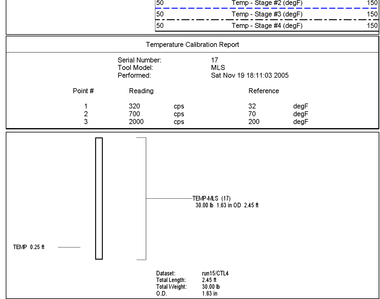


50	Temp - Stage #1 (degF)	150
50	Temp - Stage #2 (degF)	150
50	Temp - Stage #3 (degF)	150
50	Temp - Stage #4 (degF)	150

Temperature Calibration Report

Serial Number: 17
Tool Model: MLS
Performed: Sat Nov 19 18:11:03 2005

Point #	Reading		Reference	
1	320	cps	32	degF
2	700	cps	70	degF
3	2000	cps	200	degF



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

(CEMENT TOP) TEMPERATURE 16" CASING LOG

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXIE
County BROWARD
State FLORIDA

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXIE
County BROWARD State FLORIDA
Location PEELE-DIXEE W.T.P
Other Services SEE COMMENTS

Permanent Datum	PAD	Elevation 15.23	Elevation K.B.
Log Measured From	PAD		D.F.
Drilling Measured From	PAD		G.L. 15.23

Date	24-JAN- 2006
Run Number	SIXTEEN
Depth Driller	1850'
Depth Logger	1800'
Bottom Logged Interval	1800'
Top Log Interval	1400'
Open Hole Size	12.25"
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Well Ready	1930
Time Logger on Bottom	2000
Equipment Number	103
Location	FT. MYERS
Recorded By	LEE
Witnessed By	LARGEY

Borehole Record

Run Number	Bit	From	To
ONE	40.5"	SURFACE	157'
THREE	32.5"	CASING	1013'
FIVE	22.5"	CASING	1579'
ELEVEN	22.5"	CASING	1581'

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T.	SURFACE	157'
Prot. String	24"	.375 W.T.	SURFACE	1008'
Production String	16"	.500 W.T.	SURFACE	1581'
Liner	6.625" FRP	.625"	SURFACE	1800'

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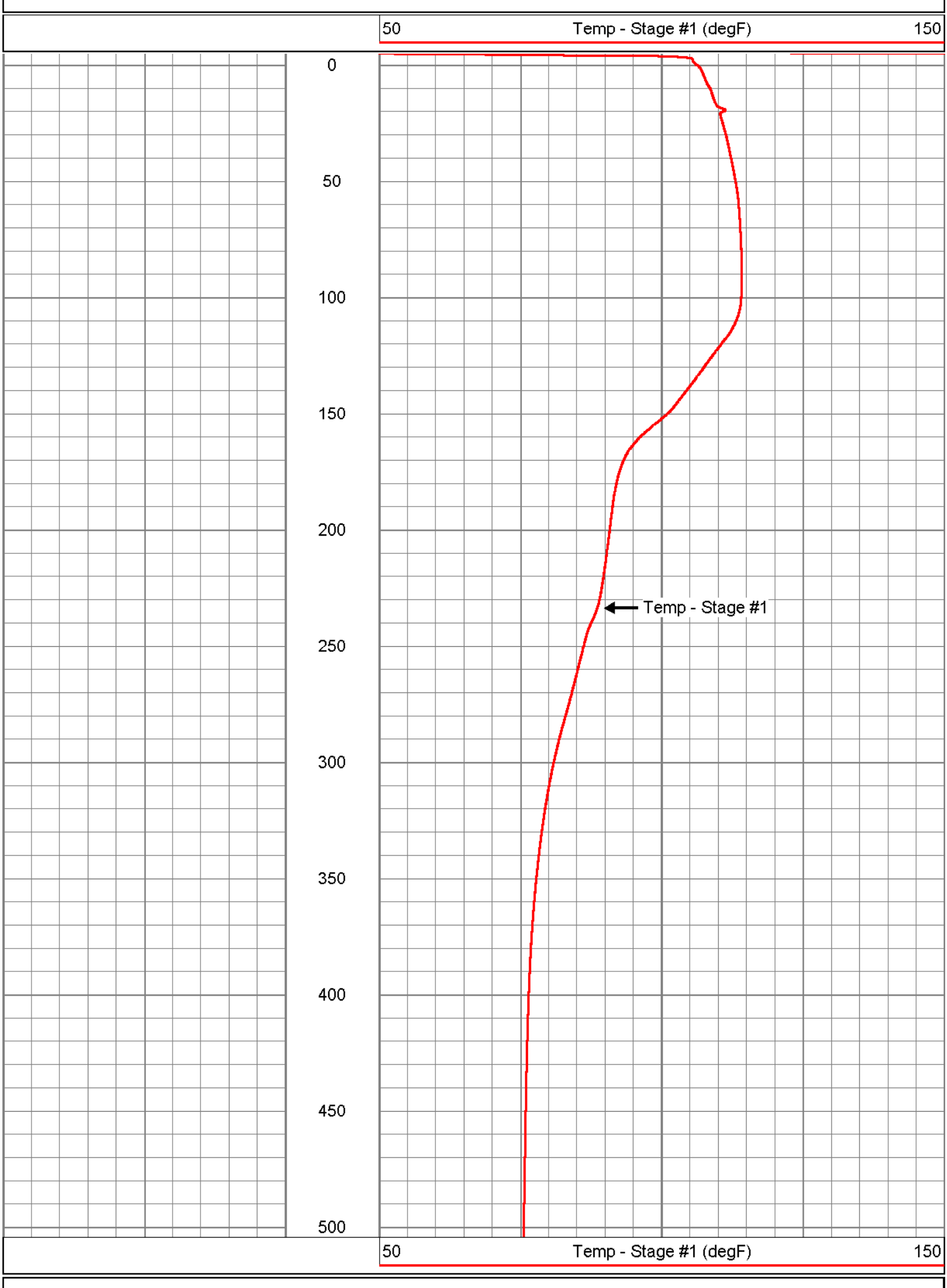
Comments

CTL
FINAL 16" CASING

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

CTL #1

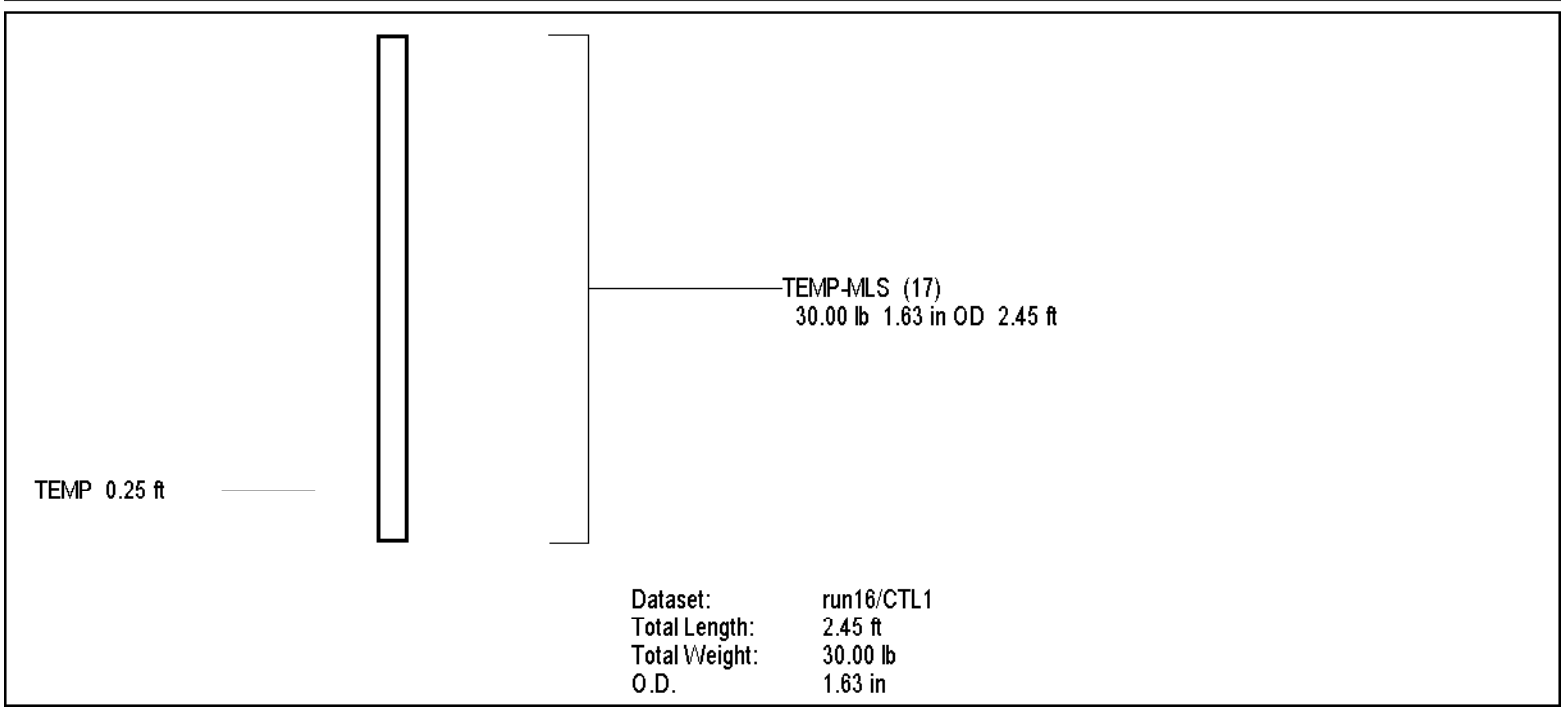
Database File: sunmw1.db
Dataset Pathname: run16/CTL1
Presentation Format: CTL_MG
Dataset Creation: Wed Jan 25 11:39:33 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600



Temperature Calibration Report

Serial Number: 17
Tool Model: MLS
Performed: Sat Nov 19 18:11:03 2005

Point #	Reading		Reference	
1	320	cps	32	degF
2	700	cps	70	degF
3	2000	cps	200	degF



Dataset: run16/CTL1
Total Length: 2.45 ft
Total Weight: 30.00 lb
O.D. 1.63 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

34" CASING (CEMENT TOP) TEMPERATURE LOG

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXEE
County BROWARD
State FLORIDA

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXEE
County BROWARD State FLORIDA
Location PEELE-DIXEE W.T.P
Other Services SEE COMMENTS

Permanent Datum	PAD	Elevation 15.23	Elevation K.B.
Log Measured From	PAD		D.F.
Drilling Measured From	PAD		G.L. 15.23

Date	19-NOV-2005
Run Number	TWO
Depth Driller	148'
Depth Logger	148'
Bottom Logged Interval	148'
Top Log Interval	SURFACE
Open Hole Size	40.5"
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	GARRATTE

Borehole Record

Run Number	Bit	From	To
ONE	40.5"	SURFCAE	157'

Tubing Record

Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T.	SURFACE	157'
Prot. String				
Production String				
Liner				

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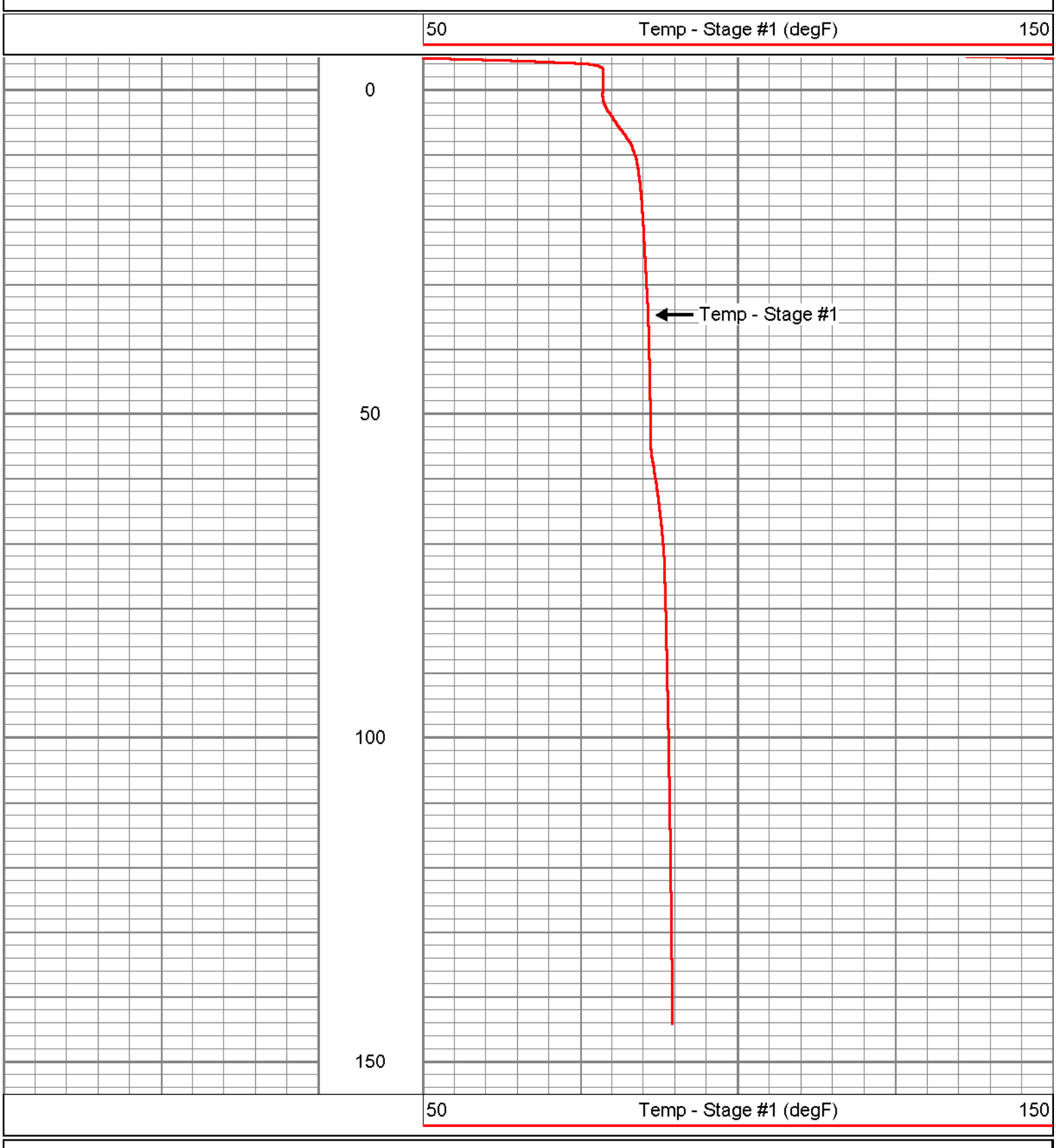
Comments

CTL
34" CASING.

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

STAGE #1

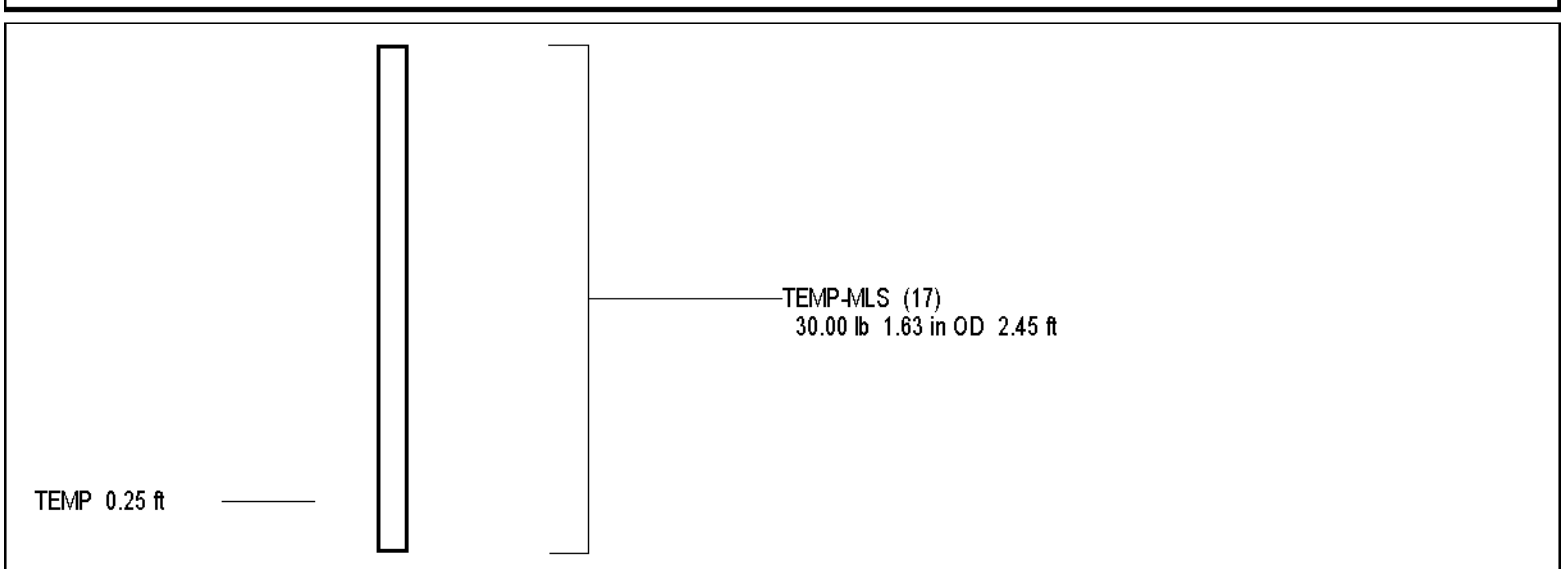
Database File: sunmw1.db
Dataset Pathname: run2/CTL1
Presentation Format: CTL_MG
Dataset Creation: Sat Nov 19 18:23:02 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



Temperature Calibration Report

Serial Number: 17
Tool Model: MLS
Performed: Sat Nov 19 18:11:03 2005

Point #	Reading		Reference	
1	320	cps	32	degF
2	700	cps	70	degF
3	2000	cps	200	degF



Dataset: run2/CTL1
Total Length: 2.45 ft
Total Weight: 30.00 lb
O.D. 1.63 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

(CEMENT TOP) 24" CASING TEMPERATURE LOG

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXEE
County BROWARD
State FLORIDA

Company	HAZEN & SAWYER		
Well	DZMW-1		
Field	PEELE-DIXEE		
County	BROWARD	State	FLORIDA
Location	PEELE-DIXEE W.T.P	Other Services	SEE COMMENTS
Permanent Datum	PAD	Elevation	15.23
Log Measured From	PAD	K.B.	
Drilling Measured From	PAD	D.F.	
		G.L.	15.23

Date	26-NOV-2005
Run Number	FOUR
Depth Driller	1008'
Depth Logger	1008'
Bottom Logged Interval	1008'
Top Log Interval	SURFACE
Open Hole Size	32.5"
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	PETERSON

Borehole Record

Run Number	Bit	From	To
ONE	40.5"	SURFCAE	157'
THREE	32.5"	CASING	1013'

Tubing Record

Size	Weight	From	To

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T.	SURFACE	157'
Prot. String	24"	.375 W.T.	SURFACE	1008'
Production String				
Liner				

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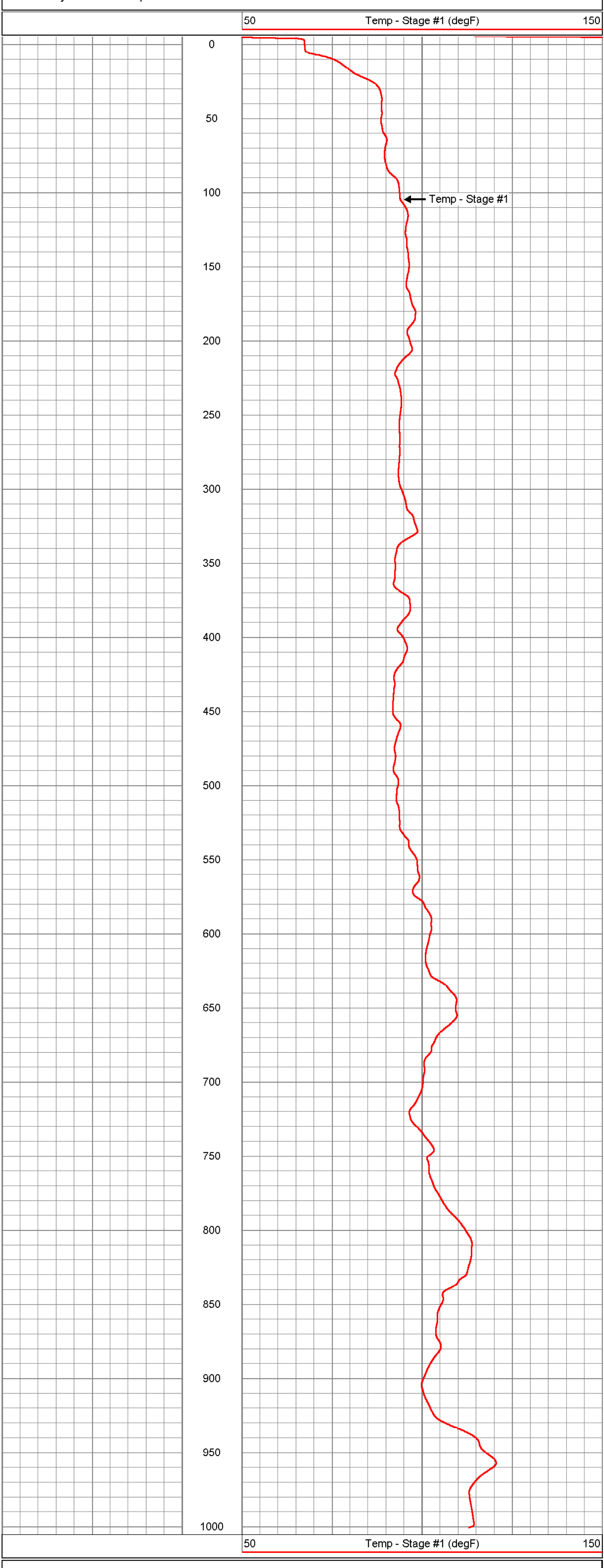
Comments

NONE

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

STAGE #1

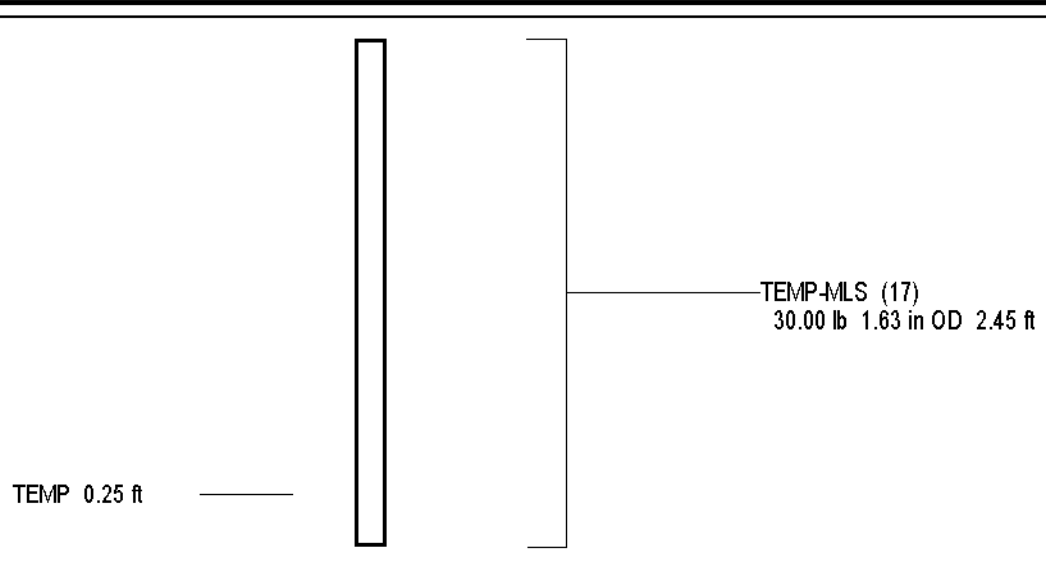
Database File: sunmw1.db
Dataset Pathname: run4/CTL1
Presentation Format: CTL_MG
Dataset Creation: Sat Nov 26 07:46:46 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600



Temperature Calibration Report

Serial Number: 17
Tool Model: MLS
Performed: Sat Nov 19 18:11:03 2005

Point #	Reading		Reference	
1	320	cps	32	degF
2	700	cps	70	degF
3	2000	cps	200	degF



Dataset: run4/CTL1
Total Length: 2.45 ft
Total Weight: 30.00 lb
O.D. 1.63 in

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL LOGGING DIVISION

DUAL INDUCTION LL3/SP LOG

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA

Location	PEELE-DIXEE W.T.P		Other Services: SEE COMMENTS
Permanent Datum:	PAD	Elevation: 15.23	Elevation: K.B. 0.0 D.F. 0.0 G.L. 15.23
Log Measured From	PAD		
Drilling Measured From	PAD		

Date	JAN-5-06
Run Number	TWELVE
Depth Driller	1800'
Depth Logger	1800'
Bottom Logged Interval	1800'
Top Log Interval	CASING
Drilling Fluid Type	WATER
Type Fluid	WATER
Density / Viscosity	NA
Max. Recorded Temp.	NA
Estimated Cement Top	NA
Time Logger at Bottom	ON ARRIVAL
Time Logger on Bottom	1300
Equipment Number	103
Location	FT MYERS
Recorded By	GOODWIN
Witnessed By	LADSKY

Bore-hole Record				Casing Record			
Run Number	Bit	To	Size	Weight	From	To
ONE	22.0"	SURFACE				
TWELVE	22.0"	CASING	10.75"			
EIGHT	22.0"	CASING	16.0"			
ELEVEN	22.0"	CASING	13.0"			

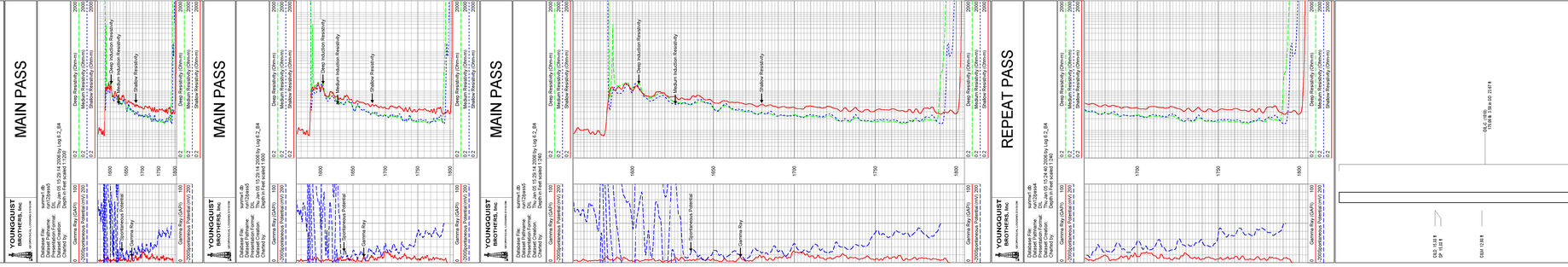
Tubing Record					
Tubing Record	NA				
Prod. String	24"	1700' W.T.	SURFACE	TBG	1700'
Prod. String	24"	315' W.T.	SURFACE	TBG	1000'
Production String					
Liner					

*** Field Notes ***

Interpretations are based on distances from centerline of other measurements and are correct and do not guarantee the accuracy of results of any interpretations and are at best, except in the case of gross or willful negligence on our part, to indicate approximate trends. Our charges are based on our standard schedule of charges and are not based on the results of our interpretations. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Company

OTHER SERVICES
X-Y CALIPER/GAMMA RAY
FLUID DENSITY/FLOW/TEMP
SONIC
VDEO



CLS 1L0 8
GF 1L0 8

CLU 12L0 8

CLL3 1L0 8

DL-C 0R0L
1R0L8 8 3/8A-0D 2L0T 8

verifiyed
1L0 8
1R0L8
1T0L8
Total length:
1L0 8

Dual Induction Calibration Report

Serial-Model:
Dual Induction Performed:
Borehole Fluid Performed:
After Survey Verification Performed:

1010-C
Thu Jan 05 15:11:22 2006
Thu Jan 05 15:11:22 2006
Thu Jan 05 15:24:42 2006

Surface Calibration:

Loop:	Air	Loop	Readings: Air	Loop	References: Air	Loop	Results: m	b
Deep	-0.005	0.647	V	0.000	400.000	mmho-m	613.288	2.3202
Medium	0.010	0.714	V	0.000	444.000	mmho-m	658.380	-0.2811
Shallow				0.000		mmho-m		
Internal:	Zero	Cal	Readings: Zero	Cal	References: Zero	Cal	Results: m	b
Deep	0.009	0.451	V	2.000	397.000	mmho-m	613.324	3.1454
Medium	0.007	0.710	V	-1.120	442.000	mmho-m	658.667	-2.7114

Downhole Calibration:

Internal:	Zero	Readings: Cal	Zero	References: Cal	Zero	Results: m	b
Deep	8.527	397.993	mmho-m	7.550	400.239	mmho-m	0.988	1.270
Medium	-1.332	442.238	mmho-m	-1.898	441.400	mmho-m	0.994	2.409
Shallow	0.000	0.000		0.000	0.000	mmho-m	1.000	0.000

After Survey Verification:

Internal:	Zero	Readings: Cal	Zero	References: Cal	Zero	Results: m	b'
Deep	8.527	397.993	mmho-m	7.550	400.239	mmho-m	0.988	1.270
Medium	-1.332	442.238	mmho-m	-1.898	441.400	mmho-m	0.994	2.409
Shallow	0.000	0.000		0.000	0.000	mmho-m	1.000	0.000

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXEE
County	BROWARD
State	FLORIDA

DUAL INDUCTION LL3/SP LOG

Company	HAZEN & SAWYER	Other Services	SSS
Well	DZMW-1		CAMMD/15
Field	PEELE-DIXEE		
County	BROWARD		
State	FLORIDA		
Location			
		Permanent Datum	PAD
		Log Measured From	PAD
		Drilling Measured From	PAD
Elevation	1.123	K.B.	1.123
		D.F.	
		G.L.	1.123

| | | |

Company	HAZEN & SAWYER
Well	ASHV
Field	DOUGLAS COUNTY
County	BROWARD
State	FLORIDA
Date	05/24/2005
Time	11:00
Depth Reference	KELLY BUSHING
Elevation	0.00
Log Measured From	KELLY BUSHING
Permanent Datum	GROUND LEVEL
Drilling Measured From	KELLY BUSHING
Log Date	05/24/2005
Run Number	ONE
Depth Driller	1100.00
Depth Logger	1100.00
Bottom Log Interval	1100.00
Top Log Interval	0.00
Casing Driller	0.00 @ 0.00
Casing Logger	0.00
Bit Size	0.00
Type Fluid in Hole	NONE
Density	0.00
Viscosity	0.00
Fluid Loss	0.00
Source of Sample	NONE
Rm @ Measured Temp	0.00 @ 0.00
Rmf @ Measured Temp	0.00 @ 0.00
Rmc @ Measured Temp	0.00 @ 0.00
Source of Rmf/Rmc	NONE
Rm @ BHT	0.00
Time Since Circulation	0.00
Max Recorded Temp	0.00
Equipment Number	5900
Location	DOUGLAS COUNTY
Recorded By	D. SAWYER
Witnessed By	J. CLEVELAND

YOUNGQUIST BROTHERS, Inc.

GEOPHYSICAL LOG

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Comments

6" CALIPER
GAMMA RAY

ABOVE COMPUTED BATCH OF CASING
2000.00

YOUNGQUIST BROTHERS, Inc.

MAIN PASS

Database File sonhvr1.db
Dataset Name ASHV
Presentation Format dual
Dataset Creation Mon Nov 03 16:39:04 2008
Charted by: Depth in Feet scaled 1:1200

Gamma Ray (GAPI) 0 150
Hydrophonic Potential (mV) 100 -100

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

YOUNGQUIST BROTHERS, Inc.
Geophysical Logging

Company	DAZATA & SAWYER
Well	DOWN 1
Field	PELE CREEK
County	BROWARD
State	FLORIDA
Date	11/15/2004
Time	12:00
Run No.	1
Depth Driller	1700
Depth Logger	1700
Bottom Log Interval	1700
Top Log Interval	0
Casing Driller	0
Casing Logger	0
Bit Size	0
Type Fluid in Hole	SALT WATER
Density	10.3
Viscosity	0
Max Rec Temp	0
Equipment	1
Location	0
Recorded By	D. SAWYER
Witnessed By	D. SAWYER

DUAL INDUCTION ELECTRICAL LOG

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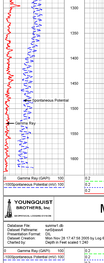
CONTENTS

MAIN PASS
MAIN PASS
MAIN PASS
REPEAT PASS

MAIN PASS

YOUNGQUIST BROTHERS, Inc.

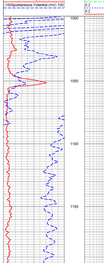
Database File: summ1.db
Dataset Pathname: run5pass4
Presentation Format: DIL
Dataset Creation: Mon Nov 29 17:47:04 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:600



MAIN PASS

YOUNGQUIST BROTHERS, Inc.

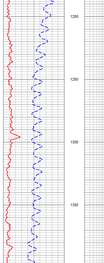
Database File: summ1.db
Dataset Pathname: run5pass5
Presentation Format: DIL
Dataset Creation: Mon Nov 29 17:47:06 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:600



MAIN PASS

YOUNGQUIST BROTHERS, Inc.

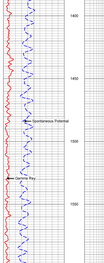
Database File: summ1.db
Dataset Pathname: run5pass6
Presentation Format: DIL
Dataset Creation: Mon Nov 29 17:47:08 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:240

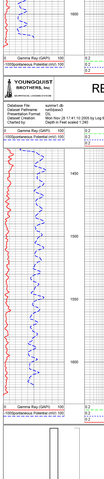


REPEAT PASS

YOUNGQUIST BROTHERS, Inc.

Database File: summ1.db
Dataset Pathname: run5pass3
Presentation Format: DIL
Dataset Creation: Mon Nov 29 17:41:10 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:240





Serial Model: 1010-C
Surface Cal Performed: Thu Nov 17 14:49:18 2005
Downhole Cal Performed: Mon Nov 28 17:22:31 2005
After Survey Verification Performed: Mon Nov 29 17:34:34 2005

Surface Calibration

	Readings			References		Results	
Loop:	Air	Loop:		Air	Loop:	m	b
Deep:	-0.005	0.947	V	0.000	400.000	mmho-m	413.398	3.502
Medium:	0.010	0.774	V	0.000	404.000	mmho-m	408.388	-6.281

Internal

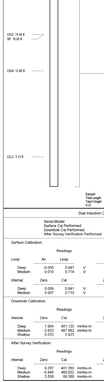
	Zero	Cal		Zero	Cal	m	b
Deep:	0.009	2.041	V	8.610	397.000	mmho-m	415.374	3.104
Medium:	0.007	0.710	V	1.510	402.000	mmho-m	403.667	0.714

Downhole Calibration

Internal	Zero	Cal	Zero	Cal	m	b
Deep:	7.914	401.122	mmho-m	8.139	398.000	mmho-m	0.987	0.000
Medium:	0.832	407.922	mmho-m	0.855	401.400	mmho-m	0.993	0.000
Shallow:	0.000	0.473		0.000	99.900	mmho-m	205.134	-0.168

After Survey Verification

	Readings			Targets		Results	
Internal	Zero	Cal	Zero	Cal	m'	b'
Deep:	7.914	401.122	mmho-m	8.139	400.000	mmho-m	0.987	0.000
Medium:	0.849	409.632	mmho-m	0.855	407.982	mmho-m	0.993	0.000
Shallow:	0.000	0.473		0.000	99.900	mmho-m	205.134	-0.168



1	10/24/2007	ADDED FLOWRATE & ADDITIONAL STATIONS	
0	10/23/2007	INITIAL ISSUE	
REV	DATE	DESCRIPTION	

SCHLUMBERGER

CHEMICAL INJECTION

CHEMICAL INJECTION

SCHLUMBERGER

CHEMICAL INJECTION

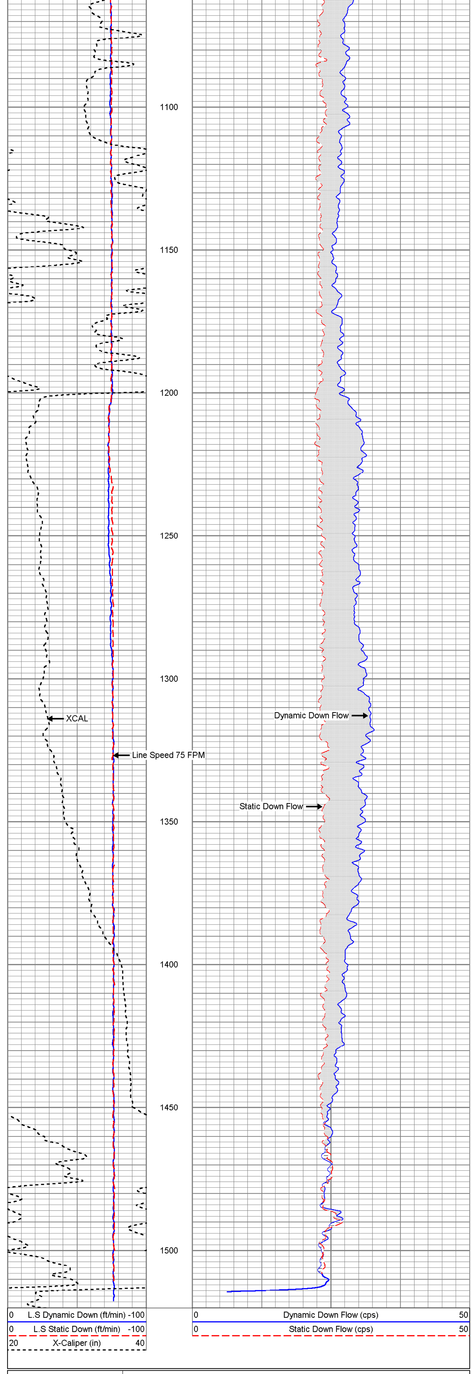
SCHLUMBERGER

CHEMICAL INJECTION

**SCHLUMBERGER

Project:	Project # 0401201
Client:	Cliffs Natural Resources
Site:	Pinnacle Mine
Well:	PW-1
Test Date:	4/20/2011
Test Time:	8:00 AM
Pump Type:	Submersible
Pump Intake:	1,000 ft
Static Water Level:	0.00 ft
Pump Setting:	1,000 ft
Measuring Point:	Top of Casing
Measuring Point Elevation:	0.00 ft
Casing Diameter:	6 in
Casing Length:	1,000 ft
Casing Material:	Steel
Screen Length:	0 ft
Screen Diameter:	0 in
Screen Material:	
Screen Slot Size:	
Gravel Pack:	
Aquifer Thickness:	
Aquifer Material:	
Aquifer Type:	
Test Type:	Step Test
Test Duration:	24 hrs
Recovery Duration:	24 hrs
Discharge Method:	Discharge Line
Discharge Rate:	1,500 GPM
Water Temp:	50 F
Weather:	Clear
Barometric Pressure:	29.5 in
Barometric Efficiency:	0 %
Barometric Correction:	0 ft
Comments:	

Comments: Pinnacle Mine Step Test Data. Pumping Well PW-1 (1,000 ft deep, 6 in diameter, 1,000 ft of 6 in steel casing, no screen, no gravel pack, pump intake at 1,000 ft). Pumping rate 1,500 GPM. Observation well PW-2 (1,000 ft deep, 6 in diameter, 1,000 ft of 6 in steel casing, no screen, no gravel pack, pump intake at 1,000 ft). Pumping well PW-1 was pumped at 1,500 GPM for 24 hours and then allowed to recover for 24 hours. Pumping well PW-1 was then

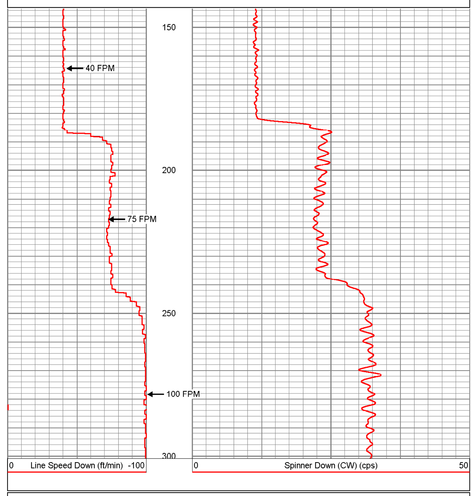


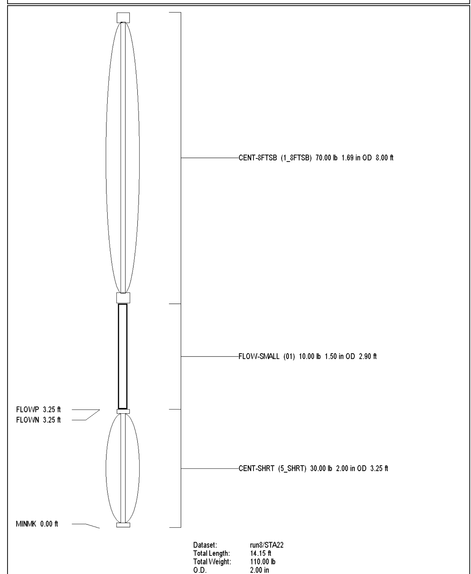
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

CALS 40, 75 & 100 FPM

Database File: sunmw1.db
Dataset Pathname: run8/FMCALS
Presentation Format: FLOWCALS
Dataset Creation: Wed Dec 14 19:33:49 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

0 Line Speed Down (ft/min) -100
0 Spinner Down (CW) (cps) 50





Dataset: run8/STA22
Total Length: 14.15 ft
Total Weight: 110.00 lb
O.D. 2.00 in

Company	Schlumberger
Well	Well Name: 2-1 SAMPLE WELL
Field	Field: SAMPLE FIELD
Location	Location: SAMPLE LOCATION
Date	Date: 01-Jan-2000
Time	Time: 00:00:00
Operator	Operator: SAMPLE OPERATOR
Tool	Tool: PSI
Serial Number	Serial Number: 1
Calibration Date	Calibration Date: 01-Jan-2000
Calibration Time	Calibration Time: 00:00:00
Calibration Pressure	Calibration Pressure: 1000 PSI
Calibration Temperature	Calibration Temperature: 25 C
Gauge Type	Gauge Type: Quartz
Gauge Serial Number	Gauge Serial Number: 1
Gauge Range	Gauge Range: 0 - 5000 PSI
Gauge Resolution	Gauge Resolution: 0.01 PSI
Gauge Accuracy	Gauge Accuracy: 0.02 %
Gauge Calibration Date	Gauge Calibration Date: 01-Jan-2000
Gauge Calibration Time	Gauge Calibration Time: 00:00:00

1. Pressures are measured in PSI and temperatures in Deg. C unless otherwise specified.
2. Time is in hh:mm:ss format and is based on the time zone specified in the header.
3. Calibration Date and Time are the last calibration performed before the data was recorded.

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PSI
SAMPLE WELL
01-JAN00 - 1:00:00

STATIONARY @ 950'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 975'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1000'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1025'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1050'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1075'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1100'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1125'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1150'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1175'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1200'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1225'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1250'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1275'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1300'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1325'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1350'

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

STATIONARY @ 1375'

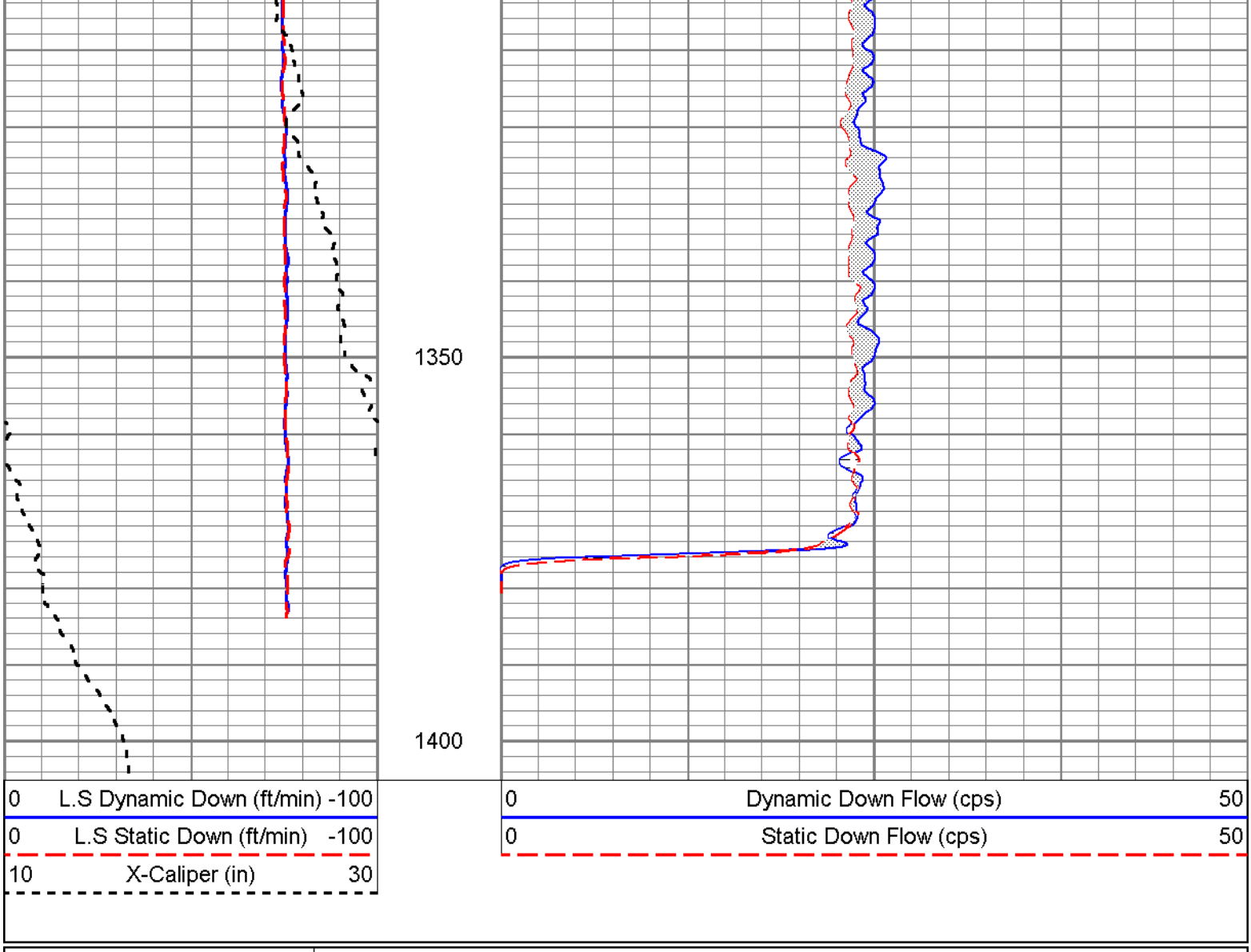
Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

FLOWRATE = 1400 GPM

Pressure (PSI) 1,000 / 900 / 800 / 700 / 600 / 500 / 400 / 300 / 200 / 100 / 0

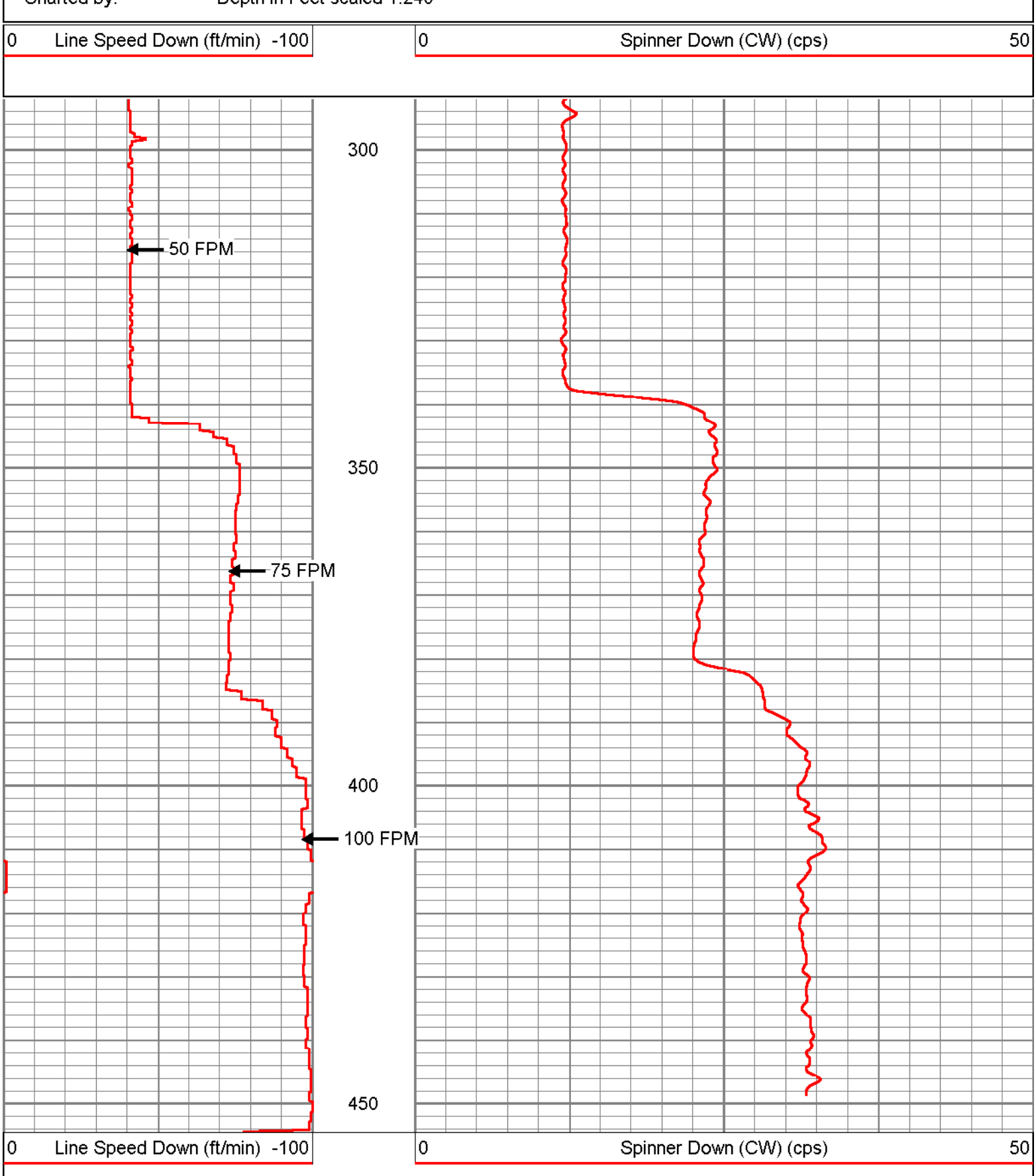
Time (hh:mm:ss) 00:00:00 / 00:05:00 / 00:10:00 / 00:15:00 / 00:20:00 / 00:25:00 / 00:30:00 / 00:35:00 / 00:40:00 / 00:45:00 / 00:50:00 / 00:55:00 / 01:00:00

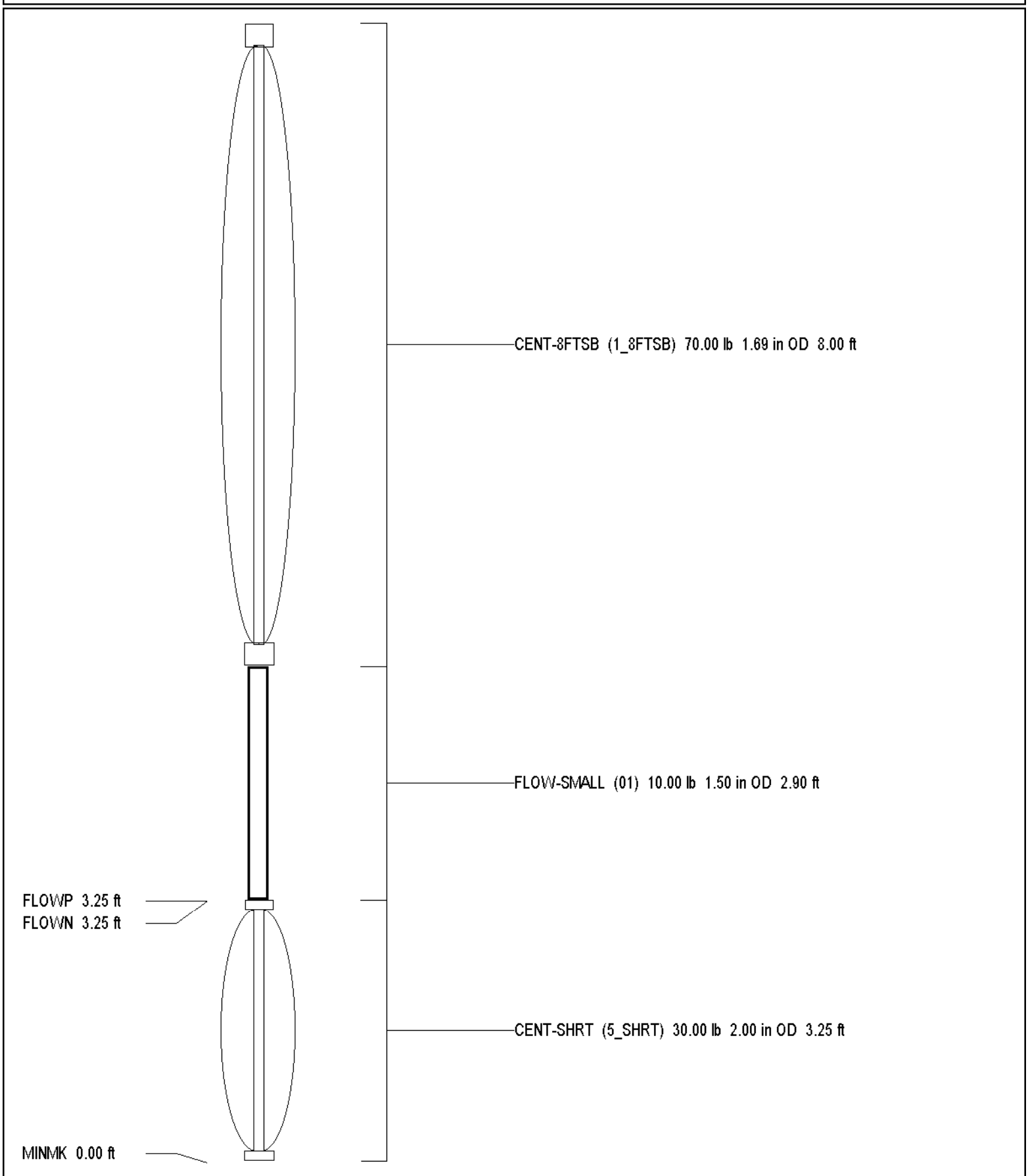


YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLOW CALS 40,75 & 100 FPM

Database File: sunmw1.db
Dataset Pathname: run9/FMCAL
Presentation Format: FLOWCALS
Dataset Creation: Thu Dec 22 12:43:11 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





Dataset: run9/STA18
Total Length: 14.15 ft
Total Weight: 110.00 lb
O.D. 2.00 in

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLUID CONDUCTIVITY TEMPERATURE LOG

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXIE
County BROWARD
State FLORIDA

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXIE
County BROWARD State FLORIDA

Location: PEELE-DIXEE W.T.P
Other Services: SEE COMMENTS

Permanent Datum	PAD	Elevation	15.23
Log Measured From	PAD		K.B.
Drilling Measured From	PAD		D.F.
			G.L. 15.23

Date	JAN-5-06
Run Number	TWELVE
Depth Driller	1800'
Depth Logger	1800'
Bottom Logged Interval	1800'
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	1300
Equipment Number	103
Location	FT. MYERS
Recorded By	GOODWIN
Witnessed By	LARGEY

Borehole Record

Run Number	Bit	From	To
ONE	40.5"	SURFACE	157'
THREE	32.5"	CASING	1013'
FIVE	22.5"	CASING	1579'
ELEVEN	22.5"	CASING	1581'

Tubing Record

	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T.	SURFACE	157'
Prot. String	24"	.375 W.T.	SURFACE	1008'
Production String				
Liner				

<< Fold Here >>

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

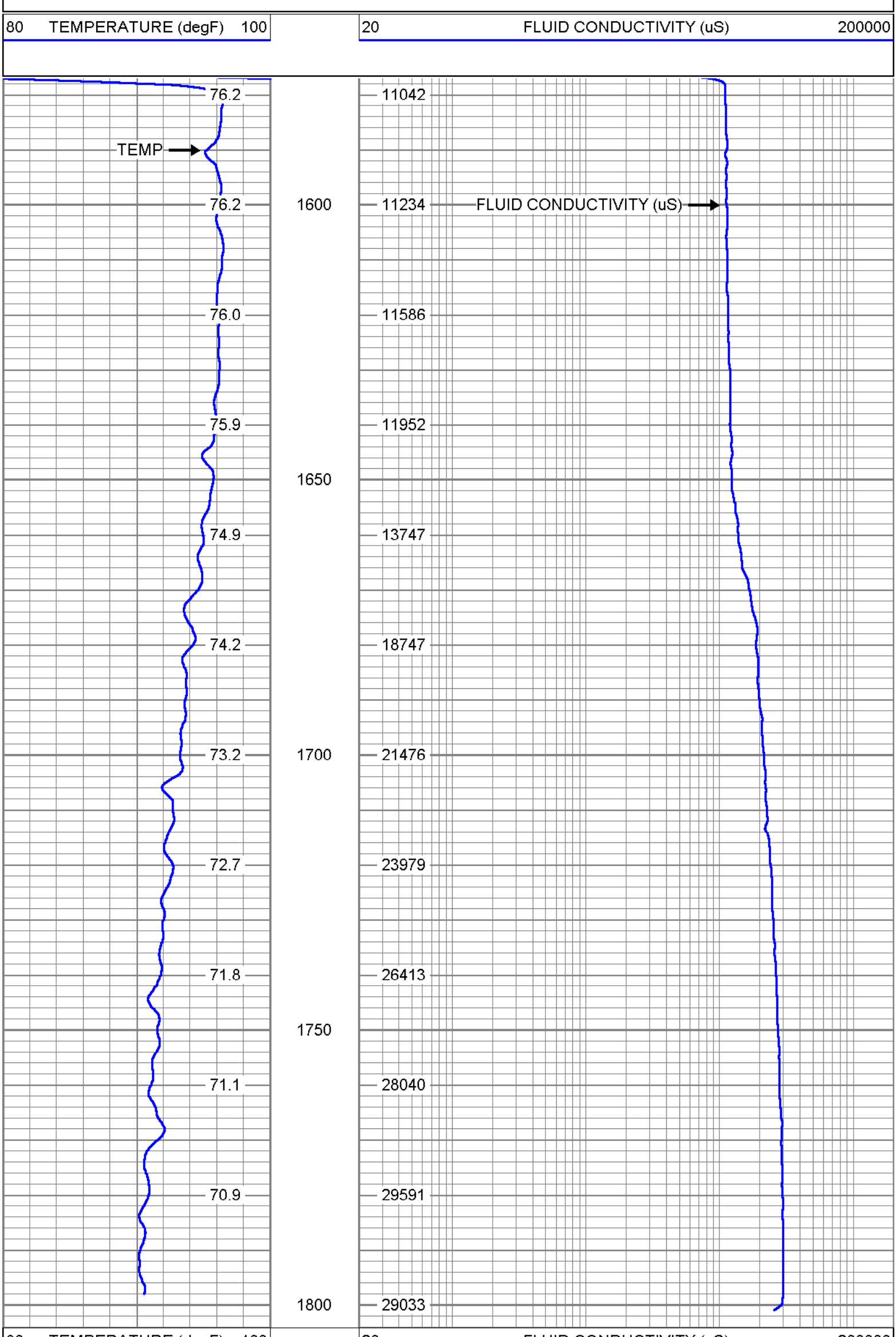
Comments

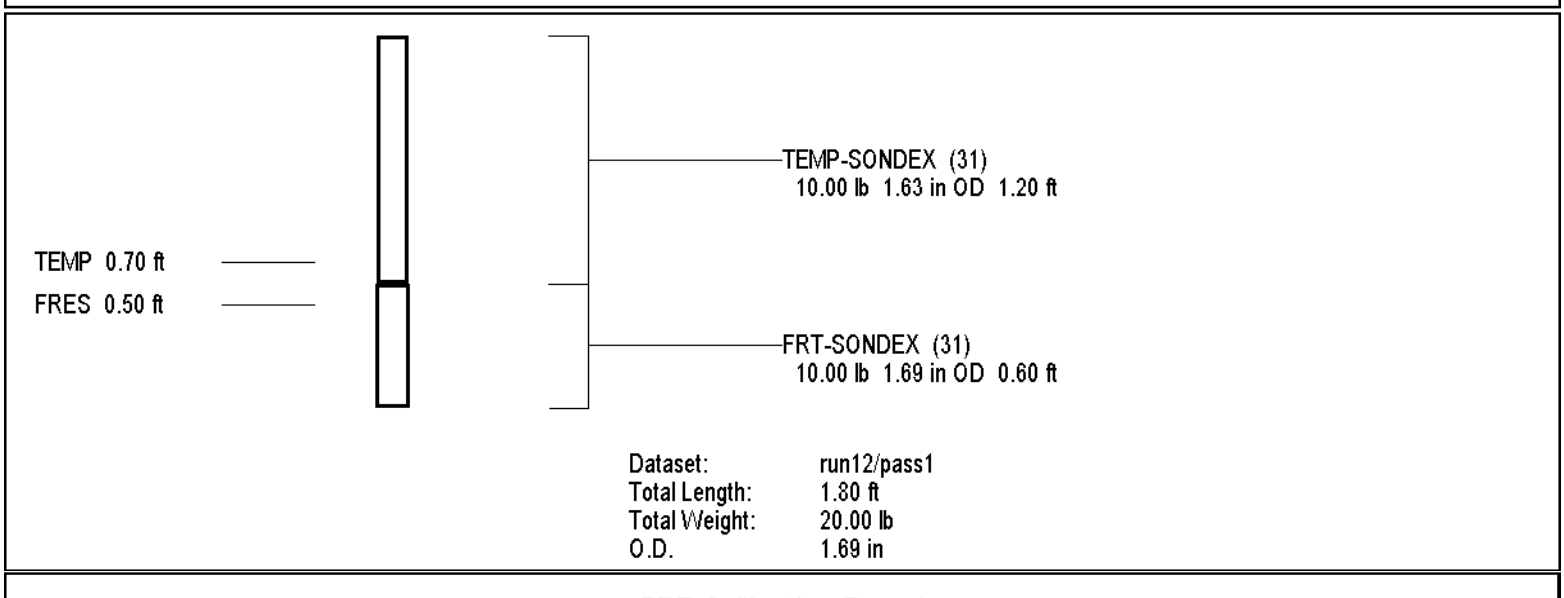
OTHER SERVICES:
X-Y CALIPER/ GAMMA RAY
DUAL INDUCTION
SONIC
VIDEO

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

STATIC PASS

Database File: sunmw1.db
Dataset Pathname: run12/pass1
Presentation Format: FRTTEMP
Dataset Creation: Thu Jan 05 14:11:53 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240





Dataset: run12/pass1
Total Length: 1.80 ft
Total Weight: 20.00 lb
O.D. 1.69 in

FRT Calibration Report

Serial Number: 31
Tool Model: SONDEX
Performed: Thu Nov 17 15:03:36 2005

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 Nov 17 15:03:50 2005

Point #	Reading		Reference	
1	128.595	cps	41	degF
2	265.556	cps	70	degF
3	697.393	cps	156	degF

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLUID CONDUCTIVITY TEMPERATURE LOG

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA

Company	HAZEN & SAWYER		
Well	DZMW-1		
Field	PEELE-DIXIE		
County	BROWARD	State	FLORIDA
Location	PEELE-DIXEE W.T.P		Other Services SEE COMMENTS
Permanent Datum	PAD	Elevation 15.23	Elevation
Log Measured From	PAD		K.B.
Drilling Measured From	PAD		D.F.
			G.L. 15.23

Date	JAN-7-06
Run Number	THIRTEEN
Depth Driller	1850'
Depth Logger	1850'
Bottom Logged Interval	1850'
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	103
Location	FT. MYERS
Recorded By	LEE
Witnessed By	LARGEY

Borehole Record

Run Number	Bit	From	To
ONE	40.5"	SURFACE	157'
THREE	32.5"	CASING	1013'
FIVE	22.5"	CASING	1579'
ELEVEN	22.5"	CASING	1581'

Tubing Record

	Size	Weight	From	To

Casing Record

	Size	Wgt/Ft	Top	Bottom
Surface String	34"	.375 W.T.	SURFACE	157'
Prot. String	24"	.375 W.T.	SURFACE	1008'
Production String	16"	.500 W.T.	SURFACE	1581'
Liner				

<< Fold Here >>

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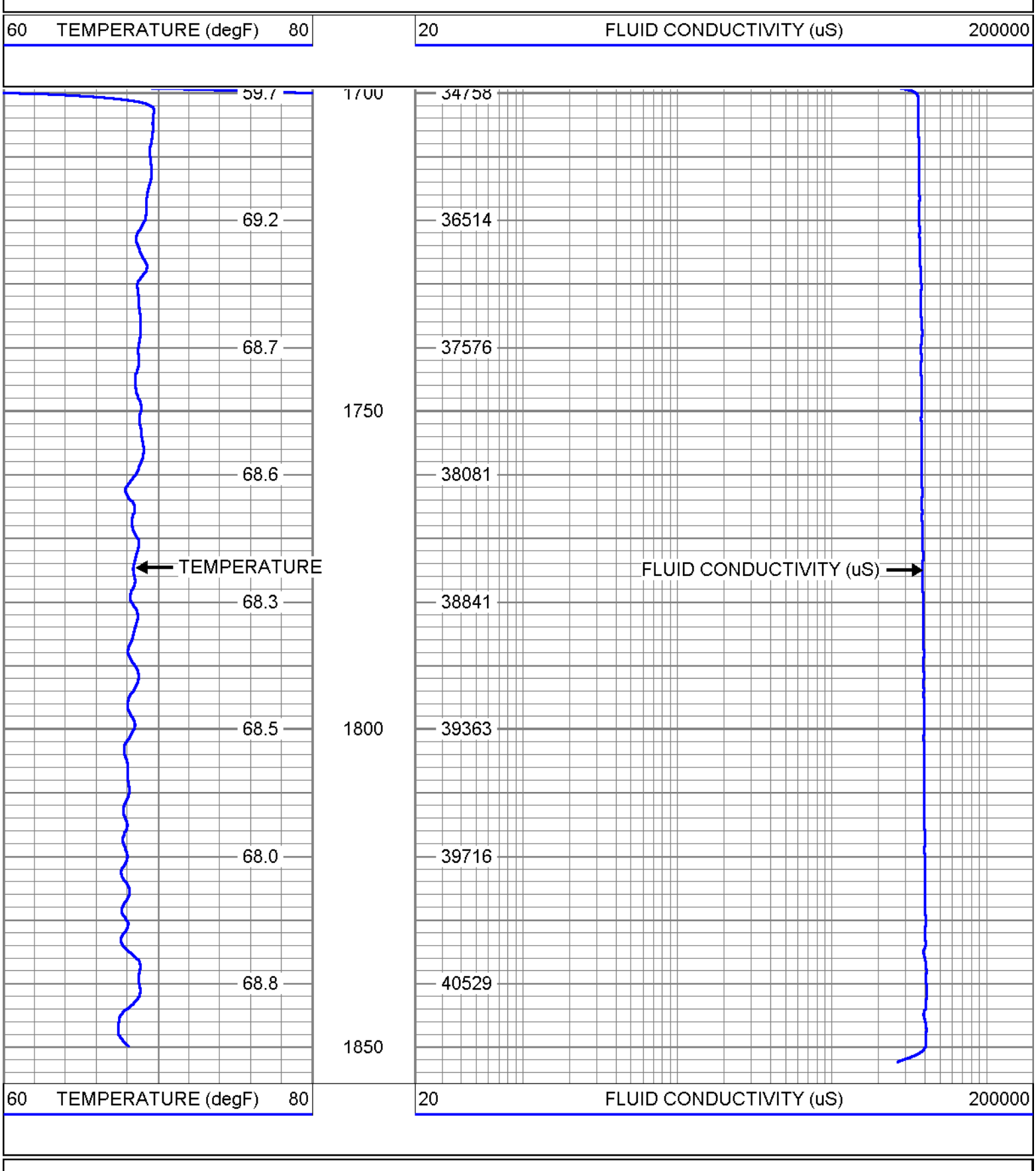
Comments

OTHER SERVICES:
X-Y CALIPER/ GAMMA RAY
DUAL INDUCTION
SONIC
VIDEO

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

STATIC PASS

Database File:	sunmw1.db
Dataset Pathname:	run13/FRT
Presentation Format:	FRTTEMP
Dataset Creation:	Sat Jan 07 11:22:51 2006 by Log 6.2_B4
Charted by:	Depth in Feet scaled 1:240



FRT Calibration Report

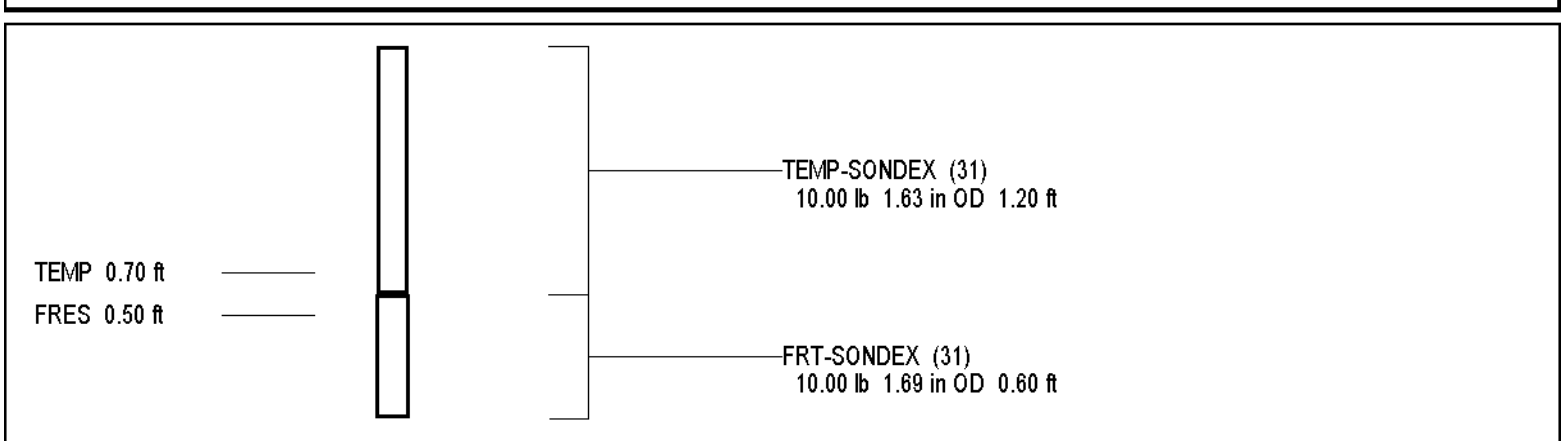
Serial Number:	31
Tool Model:	SONDEX
Performed:	Thu Nov 17 15:03:36 2005

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 Nov 17 15:03:50 2005

Point #	Reading		Reference	
1	128.595	cps	41	degF
2	265.556	cps	70	degF
3	697.393	cps	156	degF



Dataset:	run13/FRT
Total Length:	1.80 ft
Total Weight:	20.00 lb
O.D.	1.69 in

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL LOGGING SYSTEM

FLUID CONDUCTIVITY TEMPERATURE LOG

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXEE
County	BROWARD
State	FLORIDA
Date	
Location	Long Measured From: KB, 0.0 ft Above Perm. Datum
Elev.	Elevations: KB: , DF: , GL:
Log Measured From	KB, 0.0 ft Above Perm. Datum
Drilling Measured From	KB
Permanent Datum	GL
Elevation	10.00
Date	08/ 01/ 03
Run Number	ONE
Depth Driller	1200.00
Depth Logger	1200.00
Bottom Logged Interval	1200.00
Top Logged Interval	2.00
Casing Driller Size @ Depth	8.625 @ 2.00
Casing Logger Size @ Depth	8.625 @ 2.00
Bit Size	7.875
Type Fluid in Hole	WATER
Density	1.00
Viscosity	1.00
Max. Rec. Temp.	73.00
Estimated Cement Top	
Equipment	1320
Location	
Recorded By	D. WILLIAMS
Witnessed By	

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXEE
County BROWARD
State FLORIDA

PEELE-DIXEE W.T.P.

Permanent Datum: GL Elevation: 10.00
Log Measured From: KB, 0.0 ft Above Perm. Datum
Drilling Measured From: KB
Date: 08/ 01/ 03
Run Number: ONE
Depth Driller: 1200.00
Depth Logger: 1200.00
Bottom Logged Interval: 1200.00
Top Logged Interval: 2.00
Casing Driller Size @ Depth: 8.625 @ 2.00
Casing Logger Size @ Depth: 8.625 @ 2.00
Bit Size: 7.875
Type Fluid in Hole: WATER
Density: 1.00
Viscosity: 1.00
Max. Rec. Temp.: 73.00
Estimated Cement Top:
Equipment: 1320
Location:
Recorded By: D. WILLIAMS
Witnessed By:

Run 1 Field Name: 0.0

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Comments

FLOWMETER
WATER SAMPLE
FLOWRATE = 1,320 GMP

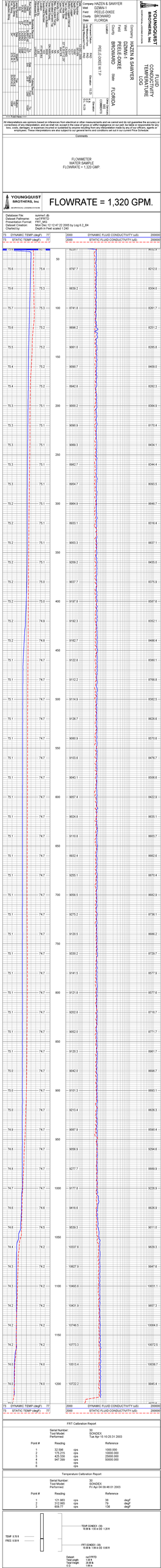
YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL LOGGING SYSTEM

FLOWRATE = 1,320 GPM.

Database File: summer1.db
Dataset Pathname: run1/FRT2D
Presentation Format: FRT_Calibration
Dataset Created: Wed Dec 12 12:47:22 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

73 DYNAMIC TEMP (degF) 77
73 STATIC TEMP (degF) 77

2000 DYNAMIC FLUID CONDUCTIVITY (uS) 200000
2000 STATIC FLUID CONDUCTIVITY (uS) 200000



73 DYNAMIC TEMP (degF) 77
73 STATIC TEMP (degF) 77

2000 DYNAMIC FLUID CONDUCTIVITY (uS) 200000
2000 STATIC FLUID CONDUCTIVITY (uS) 200000

FRT Calibration Report

Serial Number: 30
Tool Model: SONDEX
Performed: Tue Apr 15 10:25:31 2003

Point #	Reading		Reference
1	32.596	cps	1000.000
2	125.000	cps	5000.000
3	425.335	cps	25000.000
4	947.399	cps	50000.000
5		cps	
6		cps	

Temperature Calibration Report

Serial Number: 30
Tool Model: SONDEX
Performed: Fri Apr 04 09:46:01 2003

Point #	Reading		Reference	
1	121.965	cps	38	degF
2	409.000	cps	73	degF
3	608.77	cps	138	degF

Company HAZEN & SAWYER
Comp. CDWA
Field PEELE-DIXIE
County BROWARD
State FLORIDA

Date 10/29/03
Time 12:00:00
Field PEELE-DIXIE
Well DIXIE A & SAWYER
Date FLORIDA
Elevation 0.00 F
Perm. Datum GROUND LEVEL
Log Measured FROM KB
Drilling Measured FROM KB
Elev.: K.B. 0.00
D.F. 0.00
G.L. 0.00

YOUNGQUIST BROTHERS, Inc.

Geophysical Consultants

FLUID TEMPERATURE LOG

PO Box 1304 Ashland, Oregon 97520 (541) 488-6836 FAX (541) 488-6837

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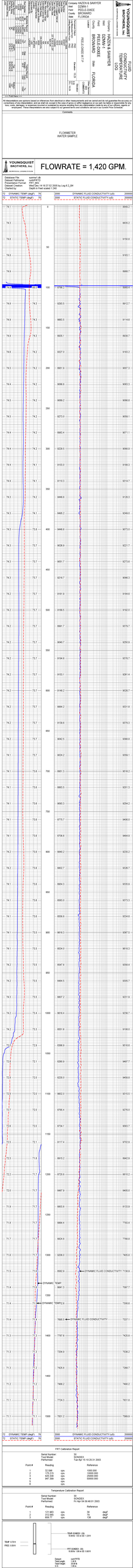
Comments

FLOWMETER
WATER SAMPLE

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

FLOWRATE = 1,420 GPM.

Database File: spinner1.db
Dataset Pathname: run5/RT72
Dataset Digitized On: 2 Jun 2003
Dataset Created: Wed Dec 14 10:37:32 2005 by Log 4.2_B4
Charted by: Depth in Feet scaled 1:240



FRT Calibration Report

Serial Number:	32
Tool Model:	SONDEX
Performed:	Tue Apr 15 10:25:31 2003

Point #	Reading		Reference
1	52.596	cps	1000.000
2	175.215	cps	10000.000
3	425.556	cps	20000.000
4	947.350	cps	30000.000

Temperature Calibration Report

Serial Number:	32
Tool Model:	SONDEX
Performed:	Fri Apr 04 09:46:01 2003

Point #	Reading		Reference	
1	121.963	cps	32	degF
2	312.000	cps	76	degF
3	808.77	cps	126	degF

YOUNGQUIST BROTHERS, Inc.

Company HAZEN & SAWYER
COMM 1
Field PEELE-DIXIE
County BROWARD
State FLORIDA

Comments HAZEN & SAWYER
COMM 1
PEELE-DIXIE
BROWARD FLORIDA

Date 11-Dec-05
Time Recorded Fluid Temp. Recorded Fluid Cond. Logging Speed 20 FPM
Depth Reference KB
Elevation 10.00 ft
Permanent Datum GL
Log Measured from KB 10.00 ft Above Perm. Datum

FLUID CONDUCTIVITY TEMPERATURE LOG

Not to Scale

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Comments

FLOWMETER
WATER SAMPLE

YOUNGQUIST BROTHERS, Inc.

FLOWRATE = 1400 GPM

Database File: summer1.db
Dataset Pathname: run0/PRT01
Dataset Digitized On: 2005
Dataset Creation: Thu Dec 22 12:03:25 2005 Ls-Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

FIT Calibration Report

Serial Number: 30
Tool Model: SONDEX
Performed: Tue Apr 15 10:35:31 2003

Point #	Reading		Reference	
1	32.590	cps	1000.000	
2	175.215	cps	10000.000	
3	425.336	cps	25000.000	
4	947.399	cps	50000.000	
5		cps		
6		cps		

Temperature Calibration Report

Serial Number: 30
Tool Model: SONDEX
Performed: Fri Apr 04 09:46:01 2003

Point #	Reading		Reference	
1	121.983	cps	38	degF
2	312.065	cps	79	degF
3	605.77	cps	130	degF

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXEE
County	BROWARD
State	FLORIDA

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

Company HAZEN & SAWYER
Well DZMW-1
Field PEELE-DIXEE
County BROWARD
State FLORIDA

X-Y CALIPER GAMMA RAY LOG

Permanent Datum: PAD
Log Measured From: PAD
Drilling Measured From: PAD

Elevation 13.23
Elevation

Location: PEELE-DIXEE W T P

Other Services: CBL

Date: 5-Jun-2005
Run Number: ONE
Depth Driller: 151.0
Depth Logger: 151.0
Bottom Logged Interval: 151.0
Top Log Interval: SURFACE
Casing Driller Size: 34" @ 0.0
Casing Logger Size: 34" @ 0.0
Bit Size: 14.0
Type Fluid in Hole: WATER
Density: NA
Viscosity: NA
Fluid Level: FULL
Max Recorded Temp: 90 DEGREES
Estimated Cement Top: NA
Time Logger at Bottom: 0:00
Time Circulation Ceased: 0:00
Equipment Number: CXY-0000-0004
Location: FT MYERS
Recorded By: D. SCHOLL
Witnessed By: GARRETT

Run: 1
Service Order: 0
Depth Reached: 151.0
Top: SURFACE
Bottom: 151.0
Size: 14.0
Weight: NA
Type Fluid in Hole: WATER
Viscosity: NA
Density: NA
Fluid Level: FULL
Max Rec. Temp.: 90
Equipment: CXY-0000-0004
Location: FT MYERS
Recorded By: D. SCHOLL
Witnessed By: GARRETT

Time Since Circulation: 0:00
Time Since Cement Job: 0:00
Time Logger on Bottom: 0:00
Max Logger Temp.: NA
Max Logger Speed: NA
Equipment Number: CXY-0000-0004
Location: FT MYERS
Recorded By: D. SCHOLL
Witnessed By: GARRETT

<<< Fold Here >>>

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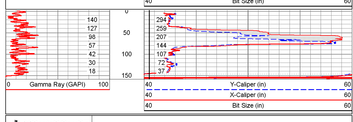
Comments

ABHV COMPUTED WITH 34" CASING.
(BBLS)

MAIN PASS

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

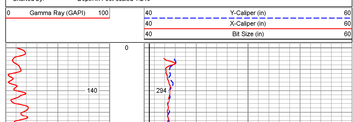
Database File: sunmw1.db
Dataset Pathname: XYC
Presentation Format: GRXY-AHV
Dataset Creation: Fri Nov 18 20:49:18 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200



MAIN PASS

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

Database File: sunmw1.db
Dataset Pathname: XYC
Presentation Format: GRXY-AHV
Dataset Creation: Fri Nov 18 20:49:18 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600



MAIN PASS

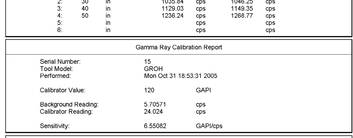
YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

Database File: sunmw1.db
Dataset Pathname: XYC
Presentation Format: GRXY-AHV
Dataset Creation: Fri Nov 18 20:49:18 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

REPEAT PASS

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

Database File: sunmw1.db
Dataset Pathname: XYCRP
Presentation Format: GRXY-AHV
Dataset Creation: Fri Nov 18 20:57:11 2005 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



XY Caliper Calibration Report

Serial Number/Model: 01LM-XYCLM
Performed: Fri Nov 18 20:44:41 2005

	Ring		X Caliper		Y Caliper	
1:	20	in	943.744	cps	944.945	cps
2:	30	in	1035.84	cps	1046.25	cps
3:	40	in	1129.03	cps	1149.35	cps
4:	50	in	1236.24	cps	1268.77	cps
5:		in		cps		cps
6:		in		cps		cps

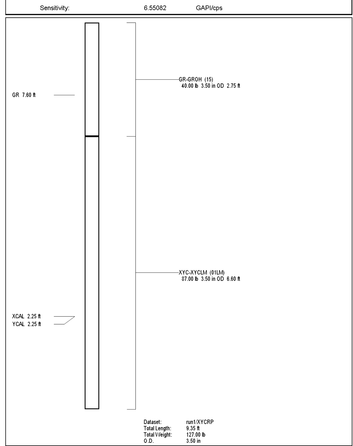
Gamma Ray Calibration Report

Serial Number: 15
Tool Model: GROH
Performed: Mon Oct 31 18:53:31 2005

Calibrator Value: 120 GAPI

Background Reading: 5.70571 cps
Calibrator Reading: 24.024 cps

Sensitivity: 6.55082 GAPI/cps



Dataset: run1XYCRP
Total Length: 9.35 ft
Total Weight: 127.00 lb
O.D. 3.58 in

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Date	
Comments	
Operator	
Witness	
Truck	
Engineer	
Depth Reference	
Depth Offset	
Logging Speed	
Tool Type	
Serial Number	
Calibration Date	
Calibration Number	
Tool Length	
Tool Diameter	
Tool Weight	
Tool Specifications	
Logging Company	
Logging Date	
Logging Time	
Run Number	
Log Number	
Depth Reference	
Depth Offset	
Logging Speed	
Tool Type	
Serial Number	
Calibration Date	
Calibration Number	
Tool Length	
Tool Diameter	
Tool Weight	
Tool Specifications	
Logging Company	
Logging Date	
Logging Time	
Run Number	
Log Number	

YOUNGQUIST BROTHERS, Inc.

HAZEN & SAWYER
DZMW-1
PEELE-DIXIE
BROWARD
FLORIDA

X + CALIPER
GAMMA RAY
CCL

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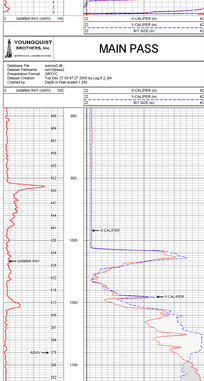
Comments

ANNULAR BOREHOLE VOLUME IN BARRELS FOR 18" CASING

YOUNGQUIST BROTHERS, Inc.

MAIN PASS

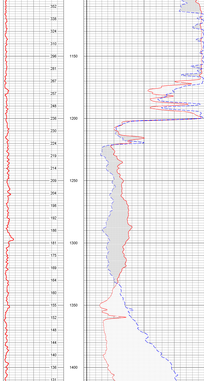
Database File: sunrise2.db
Dataset Pathname: run10dpass2
Presentation Format: GR/CCL
Dataset Creation: Tue Dec 21 05:47:37 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:240



YOUNGQUIST BROTHERS, Inc.

MAIN PASS

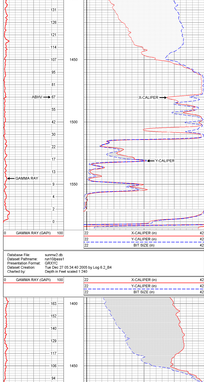
Database File: sunrise2.db
Dataset Pathname: run10dpass2
Presentation Format: GR/CCL
Dataset Creation: Tue Dec 21 05:47:37 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:240



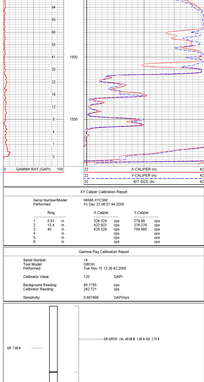
YOUNGQUIST BROTHERS, Inc.

MAIN PASS

Database File: sunrise2.db
Dataset Pathname: run10dpass2
Presentation Format: GR/CCL
Dataset Creation: Tue Dec 21 05:47:37 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:240



Database File: sunrise2.db
Dataset Pathname: run10dpass2
Presentation Format: GR/CCL
Dataset Creation: Tue Dec 21 05:34:40 2005 by Log 6.2_84
Charted by: Depth in Feet scaled 1:240



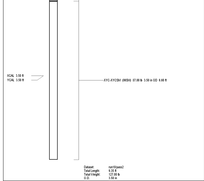
XY Caliper Calibration Report

Serial Number/Model:	08084 XY/12M
Performed:	Fri Dec 23 09:57:44 2005

	Ring	X Caliper		Y Caliper	
1	0.81 in	328.526	cps	279.98	cps
2	13.4 in	402.625	cps	339.208	cps
3	40 in	628.529	cps	784.965	cps
4			cps		cps
5			cps		cps
6			cps		cps

Gamma Ray Calibration Report

Serial Number:	14
Model:	12M
Performed:	Tue Nov 15 13:38:42 2005
Calibrator Value:	120 GAPI
Background Reading:	45.1700 cps
Calibrator Reading:	242.721
Sensitivity:	0.607469 GAPI/cps



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING SYSTEMS

X-Y CALIPER GAMMA RAY LOG

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXEE
County	BROWARD
State	FLORIDA

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXEE
County	BROWARD
State	FLORIDA
Location	
Other Services	GR, IES, CONDUCTIVITY
Permanent Datum	GROUND LEVEL
Log Measured From	PAD
Drilling Measured From	PAD
Elevation	13.00
	K.B.
	D.F.
	G.L.

Date	Run	Depth Driller	Depth Logger	Bottom Logged Interval	Top Log Interval	Casing Driller	Casing Logger	Bit Size
06/04/06	ONE	1240	1240	1240	SURFACE	16	16	12.25
06/05/06	TWO	1240	1240	1240	SURFACE	16	16	12.25
06/06/06	THREE	1240	1240	1240	SURFACE	16	16	12.25

Equipment: 1132 Operator: D. Kirk

Field Engineer: D. Kirk

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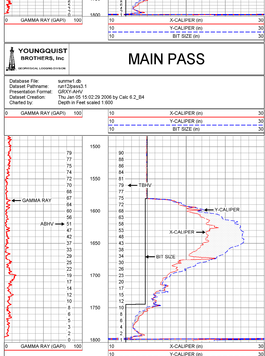
Comments

OTHER SERVICES
FLUID CONDUCTIVITY TEMP
DUAL INDUCTION
SONIC
VIDEO

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING SYSTEMS

MAIN PASS

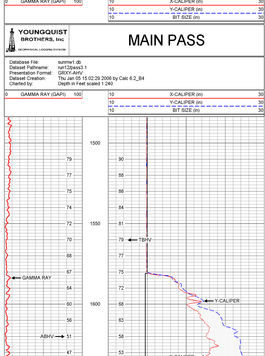
Database File: summ1.db
Dataset Pathname: run12pass3.1
Presentation Format: GRXY.AHV
Dataset Creation: Thu Jan 05 15:02:29 2006 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:600



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING SYSTEMS

MAIN PASS

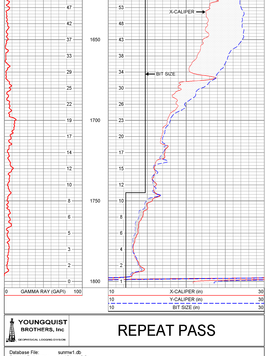
Database File: summ1.db
Dataset Pathname: run12pass3.1
Presentation Format: GRXY.AHV
Dataset Creation: Thu Jan 05 15:02:29 2006 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:600



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING SYSTEMS

MAIN PASS

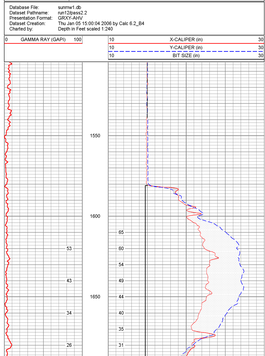
Database File: summ1.db
Dataset Pathname: run12pass3.1
Presentation Format: GRXY.AHV
Dataset Creation: Thu Jan 05 15:02:29 2006 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240

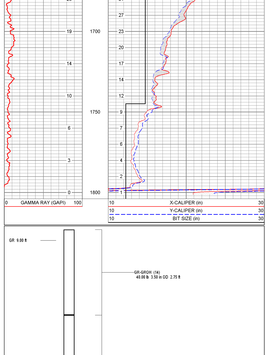


YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING SYSTEMS

REPEAT PASS

Database File: summ1.db
Dataset Pathname: run12pass2.2
Presentation Format: GRXY.AHV
Dataset Creation: Thu Jan 05 15:00:04 2006 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240





Dataset: run12pass3.1
Total Length: 5.00 ft
Total Weight: 137.00 lb
O.D.: 3.50 in

XY Caliper Calibration Report

Serial Number/Model: 0603A-XYCSM
Performed: Thu Jan 05 14:39:31 2006

Ring		X Caliper		Y Caliper	
1	5.81 in	326.527	cps	280.881	cps
2	13.4 in	425.926	cps	378.577	cps
3	15 in	450	cps	401	cps
4	40 in	826.527	cps	786.186	cps
A	in		cps		cps
B	in		cps		cps

Gamma Ray Calibration Report

Serial Number: 19
Tool Model: GR3CH
Performed: Tue Nov 15 13:26:42 2005

Calibrator Value: 120 GAPI

Background Reading: 45.1785 cps
Calibrator Reading: 242.721 cps

Sensitivity: 0.607466 GAPI/cps

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL LOGGING DIVISION

X-Y CALIPER GAMMA RAY LOG

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA

Company	HAZEN & SAWYER
Well	DZMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Location	Lat. Measured From: NAD 83 Long. Measured From: NAD 83 Lat. Reference: Long. Reference:
Elevation:	15.23 G.L. 0.00 D.F. 15.23 K.B.
Date	Logging Date 11-Jan-2006
Run Number	ONE
Depth Driller	1650
Depth Logger	1650
Bottom Logged Interval	1650
Top Logged Interval	1000
Casing Driller	1000
Casing Logger	1000
Bit Size	6.125
Type Fluid in Hole	SALT WATER
Density	8.4
Viscosity	28
Fluid Level	FULL
Max. Rec. Temp.	29
Equipment	5B
Location	CORAL SPRINGS
Recorded By	R. KIRKLEY
Witnessed By	

*** Field Notes ***

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Comments

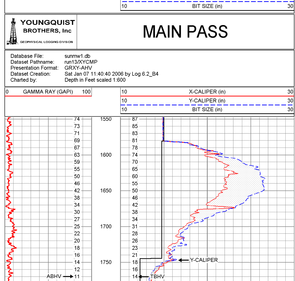
OTHER SERVICES:
FLUID CONDUCTIVITY/TEMPERATURE
DUAL INDUCTION
SONIC
VIDEO

ABHV COMPUTED WITH 6.625" FRP
(BBLS)

YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

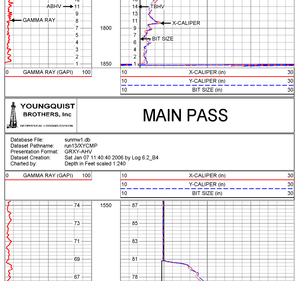
Database File: sumrw1.db
Dataset Pathname: run13XYCMP
Presentation Format: GRXY-AHV
Dataset Creation: Sat Jan 07 11:40:40 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:1200



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

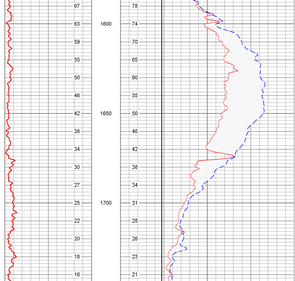
Database File: sumrw1.db
Dataset Pathname: run13XYCMP
Presentation Format: GRXY-AHV
Dataset Creation: Sat Jan 07 11:40:40 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:600



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MAIN PASS

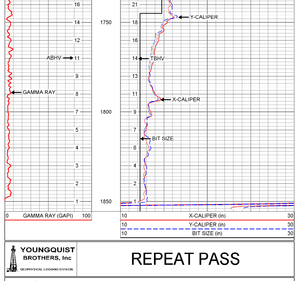
Database File: sumrw1.db
Dataset Pathname: run13XYCMP
Presentation Format: GRXY-AHV
Dataset Creation: Sat Jan 07 11:40:40 2006 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

REPEAT PASS

Database File: sumrw1.db
Dataset Pathname: run13XYCRP
Presentation Format: GRXY-AHV
Dataset Creation: Sat Jan 07 11:32:46 2006 by Calc 6.2_B4
Charted by: Depth in Feet scaled 1:240



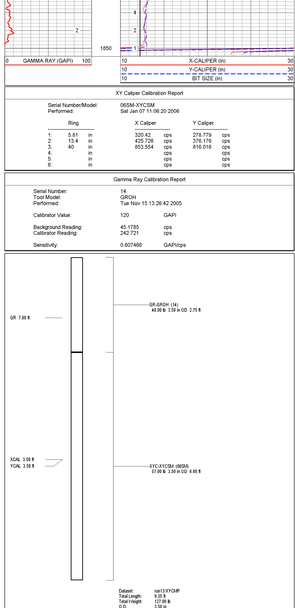
XY Caliper Calibration Report

Serial Number/Model: 0608A-XYCSM
Performed: Sat Jan 07 11:06:20 2006

	Ring		X Caliper		Y Caliper	
1:	5.51	in	320.42	cps	378.779	cps
2:	13.4	in	425.726	cps	376.179	cps
3:	40	in	653.554	cps	816.016	cps
4:		in		cps		cps
5:		in		cps		cps
6:		in		cps		cps

Gamma Ray Calibration Report

Serial Number:	14
Tool Model:	GROH
Performed:	Tue Nov 15 13:26:42 2005
Calibrator Value:	120 GAPI
Background Reading:	45.1785 cps
Calibrator Reading:	242.721 cps
Sensitivity:	0.607466 GAPI/cps



Company	NAZON & SAWYER
Well	DELLSIEP
Field	ABAN COMPLETED
County	BROWARD
State	FLORIDA
Other	
Location	
Sec	Twp	Rge
Permanent Datum	GROUND LEVEL
Log Measured From	GROUND LEVEL
Drilling Measured From	GROUND LEVEL
Elevation	
Elevation	
Elevation	
Date	03-03-2009
Run Number	ONE
Depth Driller	1000
Depth Logger	1000
Bottom Logged Interval	1000
Top Log Interval	0
Casing Driller	0
Casing Logger	0
Bit Size	6 1/2
Type Fluid in Hole	FRESH WATER
Density / Viscosity	
Max Rec Temp	
Estimated Cement Top	
Equipment	5 MILE
Witnessed By	
Witnessed By	
Witnessed By	

All interpretations, or opinions based on inferences from electrical or other measurements are in service and do not guarantee the accuracy or correctness of any interpretation, and we shall not 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 as set forth in our current price schedule.

COMMENTS

DELLSIEP
ABAN COMPLETED WITH 6" CASING
(DELS)

MAIN PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

Datafame File: wyn001.df
Dataset Pathname: wyn001.pth
Presentation Format: QBDT-ANG
Dataset Creation: Wed Mar 25 16:03:06 2009 by Calc 6.2_B4
Charactersitics: Calibrated; Depth Shifted; Clipped

Gamma Ray (GAPI) 150 | 0 | 1 Caliper (in) | 6 | 2 Caliper (in) | 6 | 3Caliper (in) | 6 | 4 Caliper (in) | 6 | 5 Caliper (in) | 6 | 6 Caliper (in) | 6 | Mn Scan (in) | 0 | 1000

MAIN PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

Datafame File: wyn001.df
Dataset Pathname: wyn001.pth
Presentation Format: QBDT-ANG
Dataset Creation: Wed Mar 25 16:03:06 2009 by Calc 6.2_B4
Charactersitics: Calibrated; Depth Shifted; Clipped

Gamma Ray (GAPI) 150 | 0 | 1 Caliper (in) | 6 | 2 Caliper (in) | 6 | 3Caliper (in) | 6 | 4 Caliper (in) | 6 | 5 Caliper (in) | 6 | 6 Caliper (in) | 6 | Mn Scan (in) | 0 | 1000

MAIN PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

Datafame File: wyn001.df
Dataset Pathname: wyn001.pth
Presentation Format: QBDT-ANG
Dataset Creation: Wed Mar 25 16:03:06 2009 by Calc 6.2_B4
Charactersitics: Calibrated; Depth Shifted; Clipped

Gamma Ray (GAPI) 150 | 0 | 1 Caliper (in) | 6 | 2 Caliper (in) | 6 | 3Caliper (in) | 6 | 4 Caliper (in) | 6 | 5 Caliper (in) | 6 | 6 Caliper (in) | 6 | Mn Scan (in) | 0 | 1000

REPEAT PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

Datafame File: wyn001.df
Dataset Pathname: wyn001.pth
Presentation Format: QBDT-ANG
Dataset Creation: Wed Mar 25 16:08:36 2009 by Calc 6.2_B4
Charactersitics: Calibrated; Depth Shifted; Clipped

Gamma Ray (GAPI) 150 | 0 | 1 Caliper (in) | 6 | 2 Caliper (in) | 6 | 3Caliper (in) | 6 | 4 Caliper (in) | 6 | 5 Caliper (in) | 6 | 6 Caliper (in) | 6 | Mn Scan (in) | 0 | 1000

31 Caliper Calibration Report

Serial Number/Model Performed: 312-M-0711-M
Wed Feb 18 16:07:07 2009

Ring	X Caliper	Y Caliper
6 in	6.000 in	6.000 in
4 in	4.000 in	4.000 in
2 in	2.000 in	2.000 in
1 in	1.000 in	1.000 in
0 in	0.000 in	0.000 in

	X Caliper	Y Caliper
Slope	0.000	0.000
Intercept	0.000	0.000
Correlation	1.000	1.000

Gamma Ray Calibration Report

Serial Number/ Total Model	30
Calibration Date	2009-Jan-12 16:40:00 2009
Calibration Value	120 GAPI
Background Reading	0.7000 cps
Calibrator Reading	24.024 cps
Sensitivity	0.03000 CAPS/cps

GR SENSOR, CN
GR 1&4 R, C,D R, C,D R

HDI SENSOR, XDR
GR 1&4 R, C,D R, C,D R

Dataset Pathname: wyn001.pth
Presentation Format: QBDT-ANG
Dataset Creation: Wed Mar 25 16:03:06 2009 by Calc 6.2_B4
Charactersitics: Calibrated; Depth Shifted; Clipped

Company	HAZEN & SAWYER
Well	CCMW-1
Field	PEELE-DIXIE
County	BROWARD
State	FLORIDA
Date	11-Nov-2005
Time	09:46:01
Depth Reference	GROUND LEVEL
Elevation	0.00
Depth Datum	0.00
Depth Unit	FEET
Log Measured From	0.00
Drilling Measured From	0.00
Permanent Datum	GROUND LEVEL
Elevation	0.00
Log Measured From	0.00
Drilling Measured From	0.00
Run Number	ONE
Date	11-Nov-2005
Depth Driller	0.00
Depth Logger	0.00
Top Log Interval	0.00
Bottom Log Interval	0.00
Casing Driller Size	0.00 @ 0.00
Casing Logger	NONE
Bit Size	0.00
Type Fluid in Hole	NONE
Density	0.00
Viscosity	0.00
Fluid Loss	0.00
Source of Sample	NONE
Rm @ Measured Temp	0.00 @ 0.00
Rmf @ Measured Temp	0.00 @ 0.00
Rmc @ Measured Temp	0.00 @ 0.00
Source Rmf / Rmc	NONE / NONE
Rm @ BHT	0.00
Time Since Circulation	0.00
Time Since Stop	0.00
Max Recorded Temp	0.00
Equipment Number	1120
Location	PEELE-DIXIE WTP
Recorded By	D. HAYES
Witnessed By	

YOUNGQUIST BROTHERS, Inc.

Company: HAZEN & SAWYER
Field: PEELE-DIXIE
County: BROWARD
State: FLORIDA

X, Y, CALIPER GAMMA RAY LOG

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 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.

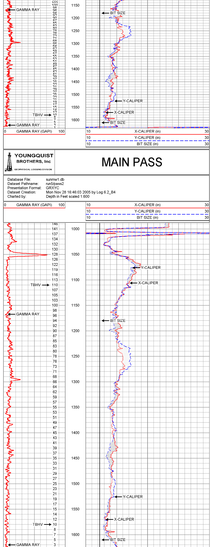
CAVERNS

BOREHOLE VOLUME IN BARRELS

MAIN PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

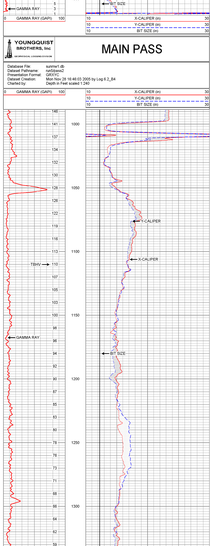
Database File: summer1.db
Dataset Pathname: GR/CALI
Presentation Format: GR/CALI
Dataset Creation: Mon Nov 28 16:46:03 2005 by Log E_Z_64
Charted by: Depth in Feet scaled 1:1200



MAIN PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

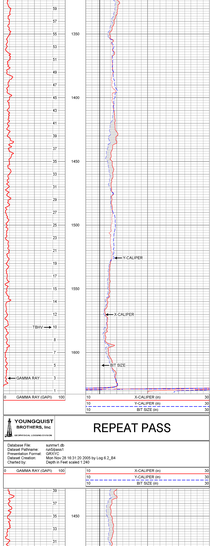
Database File: summer1.db
Dataset Pathname: GR/CALI
Presentation Format: GR/CALI
Dataset Creation: Mon Nov 28 16:46:03 2005 by Log E_Z_64
Charted by: Depth in Feet scaled 1:200



MAIN PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

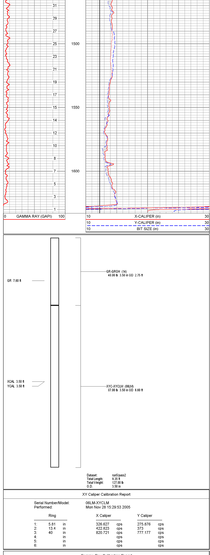
Database File: summer1.db
Dataset Pathname: GR/CALI
Presentation Format: GR/CALI
Dataset Creation: Mon Nov 28 16:46:03 2005 by Log E_Z_64
Charted by: Depth in Feet scaled 1:600



REPEAT PASS

YOUNGQUIST BROTHERS, Inc.
GEOPHYSICAL CONSULTANTS

Database File: summer1.db
Dataset Pathname: GR/CALI
Presentation Format: GR/CALI
Dataset Creation: Mon Nov 28 16:31:30 2005 by Log E_Z_64
Charted by: Depth in Feet scaled 1:240



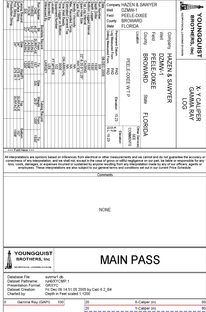
XY Caliper Calibration Report

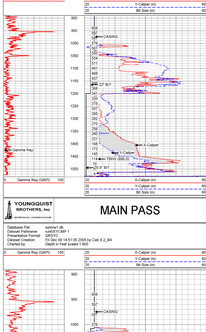
Serial Number/Model	00.98.XY.CL.B
Performed	Mon Nov 28 15:29:33 2005

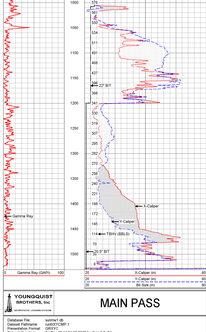
Ring	X Caliper	Y Caliper
1 0.0 in	226.601 qtr	275.876 qtr
2 12.0 in	422.623 qtr	419.976 qtr
3 40 in	820.725 qtr	777.177 qtr
4 in	qtr	qtr
5 in	qtr	qtr
6 in	qtr	qtr

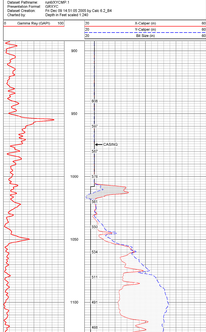
Gamma Ray Calibration Report

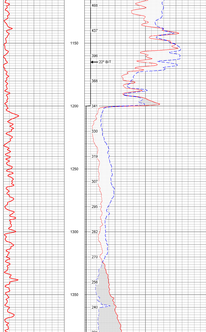
Serial Number	94TS041
Tool Model	GR/CH
Performed	Tue Nov 15 13:28:42 2005
Calibrator Value	120 GAPI
Background Reading	45.1705 cps
Calibrator Reading	242.7272 cps
Sensitivity	0.607468 GAPI/cps







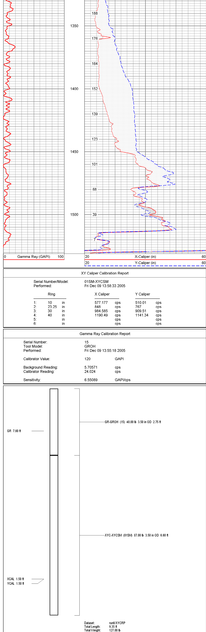




X/Y Caliper Calibration Report

Serial Number/Model Performed	
Fri Dec 09 15:58:05 2005	

Ring		X Caliper		Y Caliper	
1	10	in	977.777	cps	932.01 cps
2	20	in	1.0000	cps	1.0000
3	30	in	988.385	cps	950.01 cps
4	40	in	1190.49	cps	1141.34 cps
5		in		cps	cps
6		in		cps	cps
7		in		cps	cps

Gamma Ray Calibration Report

Serial Number:	15	
Tool Model Performed:	GR(X) Fri Dec 09 15:55:16 2005	
Calibrator Value:	120	GAPI
Background Reading:	0.10571	cps
Calibrator Reading:	24.024	cps
Sensitivity:	0.22000	GAPI/cps