



SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG

WELL LOCATION

County COLLIER  
 Station I.D. 0213000095  
 Date 12/04/96 Well No. F.G.S. SUNNIZLAND # 1  
 Latitude 26 18 00 Longitude 81 20 44 X=386757 Y=714942  
NE 1/4 SW 1/4 NE 1/4 SW 1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.C.S. Date Drilled 12/03/96

DATUM

L.S. +20.00' T.O.C. +1.30'

FLUID QUALITY

Date NA Time NA Source of Sample NA  
 Q NA mg/l Type of Fluid FORMATION WATER  
 Temp. 88.6 F o/C Field Density NA @ o/C  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: E.P. DAUENHAUER Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

WELL CONSTRUCTION

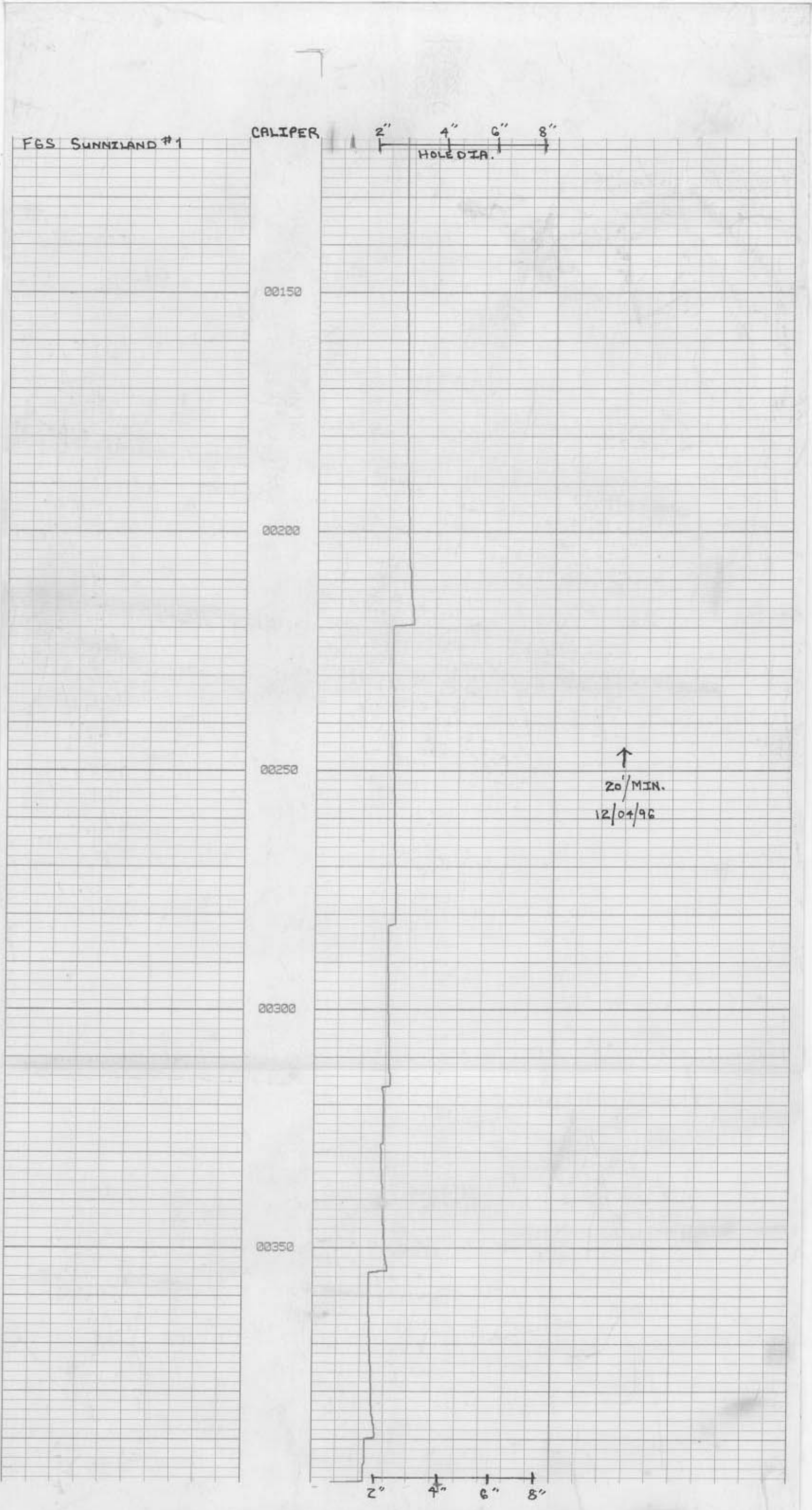
Drilling Method: Rot.  Air  CT  Auger  Other WIRE LINE CORE  
 I. Depth-Driller 400' I. Depth-Logger 400'  
 Casing Depth Driller 130' Casing Depth Logger 130'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.25" From 0' To 400' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen NA Screen Int. From NA To NA  
 Yield Flow ? C.F.M. Well Use EXPLORATION/MONITOR

TYPE OF SURVEYS RUN

Lateral 6'  Density   
 Caliper  ccl   
 Flow meter  Fluid Sampler   
 16".64" normals  Temperature   
 Neutron  Delta Temp.   
 Natural Gamma  SP   
 Fluid Resistivity  Single Pt.

COMMENTS

PART 1 OF 2





SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG

WELL LOCATION

County COLLIER  
Station I.D. 0210000026  
Date 12/04/96 Well No. F.G.S. SUNNILAND # 1  
Latitude 26 18 00 Longitude 81 20 44 X=386757 Y=714962  
NE1/4 SW1/4 NE1/4 SW1/4 Section 17 Township 48S Range 30E  
Owner F.G.S. Phone ?  
Driller F.G.S. Date Drilled 12/03/96

DATUM

L.S. +20.00' T.O.C. +1.30'

FLUID QUALITY

Date NA Time NA Source of Sample NA  
CINA mg/l Type of Fluid FORMATION WATER  
Temp. 88.6 F o/C Field Density NA o/C  
T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
Logged By: E.P. DAUENHAUER Witnessed By: no witness  
Scale NA  
Digitized By: NA

WELL CONSTRUCTION

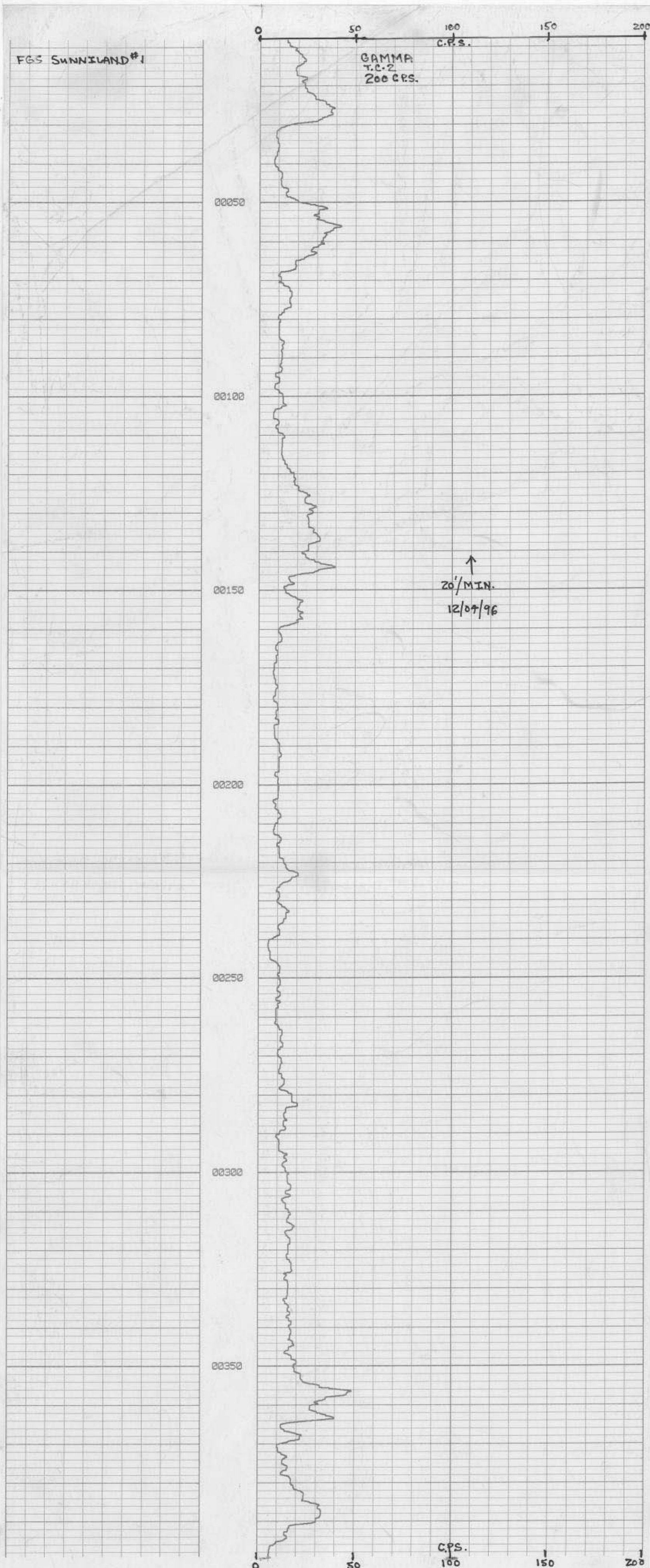
Drilling Method: Rot(X) Air( ) CT( ) Auger( ) Other WIRE LINE CORE  
T. Depth-Driller 400' T. Depth-Logger 400'  
Casing Depth Driller 130' Casing Depth Logger 130'  
Bit Size 3 1/4" Casing Dia. I.D. 4"  
Hole Dia. 3.75" From 0' To 400' Dia. NA From NA To NA  
Type of Casing STEEL Casing Thickness .375  
Type of Screen NA Screen Int. From NA To NA  
Yield Flow ? G.P.M. Well Use EXPLORATION/MONITOR

TYPE OF SURVEYS RUN

Lateral 6' ( ) Density ( )  
Caliper (X) ccl ( )  
Flow meter ( ) Fluid Sampler ( )  
16".64" normals (X) Temperature (X)  
Neutron ( ) Delta Temp. (X)  
Natural Gamma (X) SP (X)  
Fluid Resistivity (X) Single Pt. (X)

COMMENTS

PART 1 OF 2





**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG**

**WELL LOCATION**

County COLLIER  
 Station I.D. 021000095  
 Date 12/04/96 Well No. F.G.S. SUNNILAND # 1  
 Latitude 26 18 00 Longitude 81 20 44 X=386757 Y=718242  
NE 1/4 SW 1/4 NE 1/4 SW 1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.G.S. Date Drilled 12/03/96

**DATUM**

L.S. +20.00' T.O.C. +1.30'

**FLUID QUALITY**

Date NA Time NA Source of Sample NA  
 Cl NA mg/l Type of Fluid FORMATION WATER  
 Temp. 88.6 F o/C Field Density NA o/C  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: E.P. DAUCHHAUER Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

**WELL CONSTRUCTION**

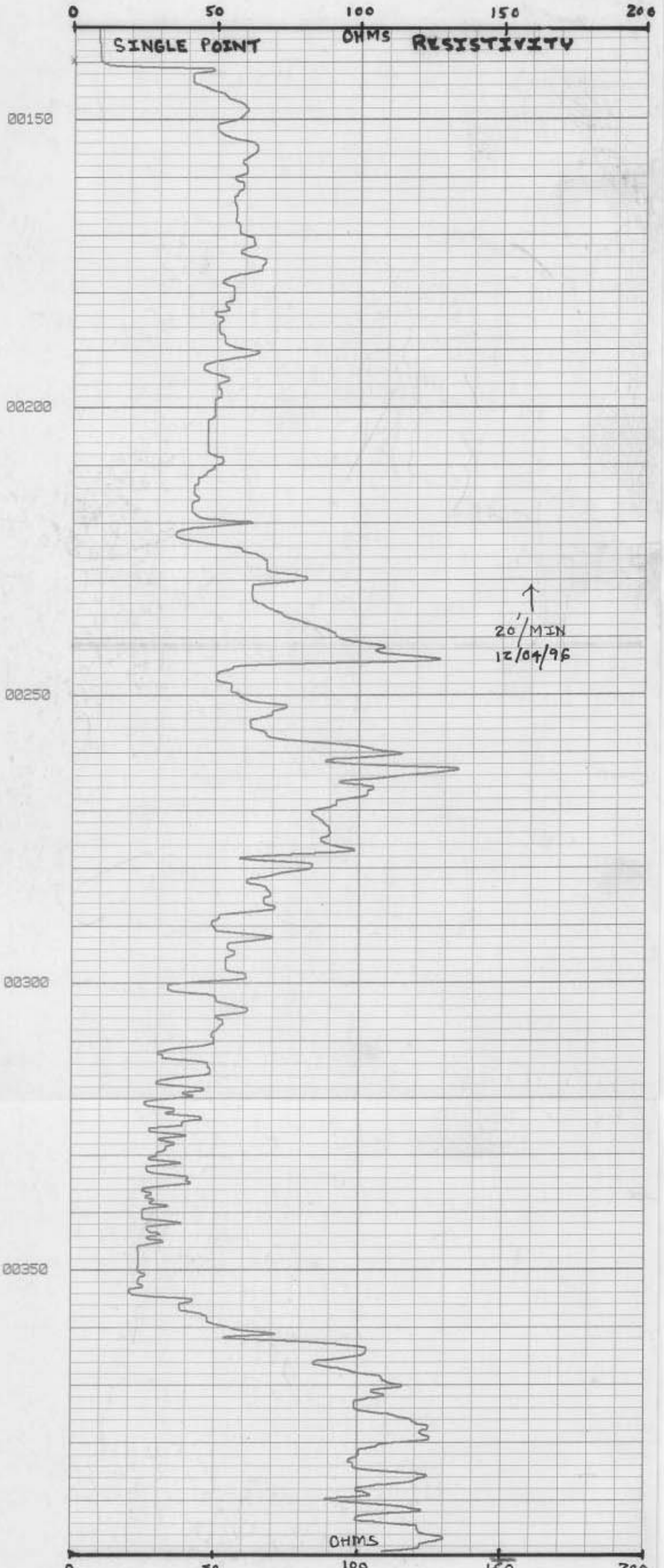
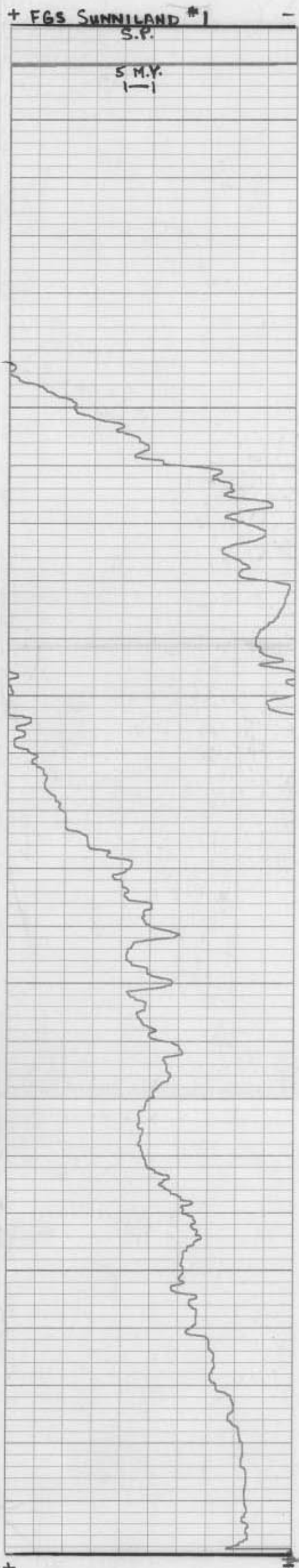
Drilling Method: Rot.  Av.  CT  Auger  Other WIRE LINE CORE  
 T. Depth-Driller 400' T. Depth-Logger 400'  
 Casing Depth Driller 130' Casing Depth Logger 130'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.75" From 0' To 400' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen NA Screen Int. From NA To NA  
 Yield Flow ? C.P.M. Well Use EXPLORATION/MONITOR

**TYPE OF SURVEYS RUN**

Lateral  Density   
 Caliper  ccl   
 Flow meter  Fluid Sampler   
 16", 64" normals  Temperature   
 Neutron  Delta Temp.   
 Natural Gamma  SP   
 Fluid Resistivity  Single PL.

**COMMENTS**

PART 1 OF 2





**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG**

**WELL LOCATION**

County COLLIER  
 Station I.D. 021000026  
 Date 12/04/96 Well No. F.G.S. SUNNILAND # 1  
 Latitude 26 18 00 Longitude R1 20 34 X=388757 Y=714942  
NE1/4 SW1/4 NE1/4 SW1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.G.S. Date Drilled 12/03/96

**DATUM**

L.S. +20.00' T.O.C. +1.30'

**FLUID QUALITY**

Date NA Time NA Source of Sample NA  
 CINA mg/l Type of Fluid FORMATION WATER  
 Temp. 88.6 F a/C Field Density NA @ a/C  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: E.P. DAUENHAUER Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

**WELL CONSTRUCTION**

Drilling Method: Rot. (X) Air ( ) CT ( ) Auger ( ) Other WIRE LINE CORE  
 T. Depth-Driller 400' T. Depth-Logger 400'  
 Casing Depth Driller 130' Casing Depth Logger 130'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.25" From 0' To 400' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen NA Screen Int. From NA To NA  
 Yield Flow ? C.P.M. Well Use EXPLORATION/MONITOR

**TYPE OF SURVEYS RUN**

Lateral B'	( )	Density	( )
Caliper	(X)	col	( )
Flow meter	( )	Fluid Sampler	( )
16", 64" normals	(X)	Temperature	(X)
Neutron	( )	Delta Temp.	(X)
Natural Gamma	(X)	SP	(X)
Fluid Resistivity	(X)	Single Pt.	(X)

**COMMENTS**

PART 1 OF 2

**TEMPERATURE**

**FGS SUNNILAND #1**

88 89 90 91  
 GRADIENT DIFFERENTIAL

00350

00300

00250

00200

00150

↑ DOWN LOG  
 20/MIN.  
 12/04/96

T. E. T. D  
 88 x 89 90 91



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG**

**WELL LOCATION**

County COLLIER  
 Station ID 021000096  
 Date 12/04/96 Well No. F.G.S. SUNNILAND # 1  
 Latitude 26 18 00 Longitude 81 20 44 X=386797 Y=715942  
NE 1/4 SW 1/4 NE 1/4 SW 1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.G.S. Date Drilled 12/03/96

**DATUM**

L.S. +20.00' T.O.C. +1.30'

**FLUID QUALITY**

Date NA Time NA Source of Sample NA  
 CHA mg/l Type of Fluid FORMATION WATER  
 Temp. 88.6 F o/C Field Density NA o/c  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: E.P. DAUENHAUER Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

**WELL CONSTRUCTION**

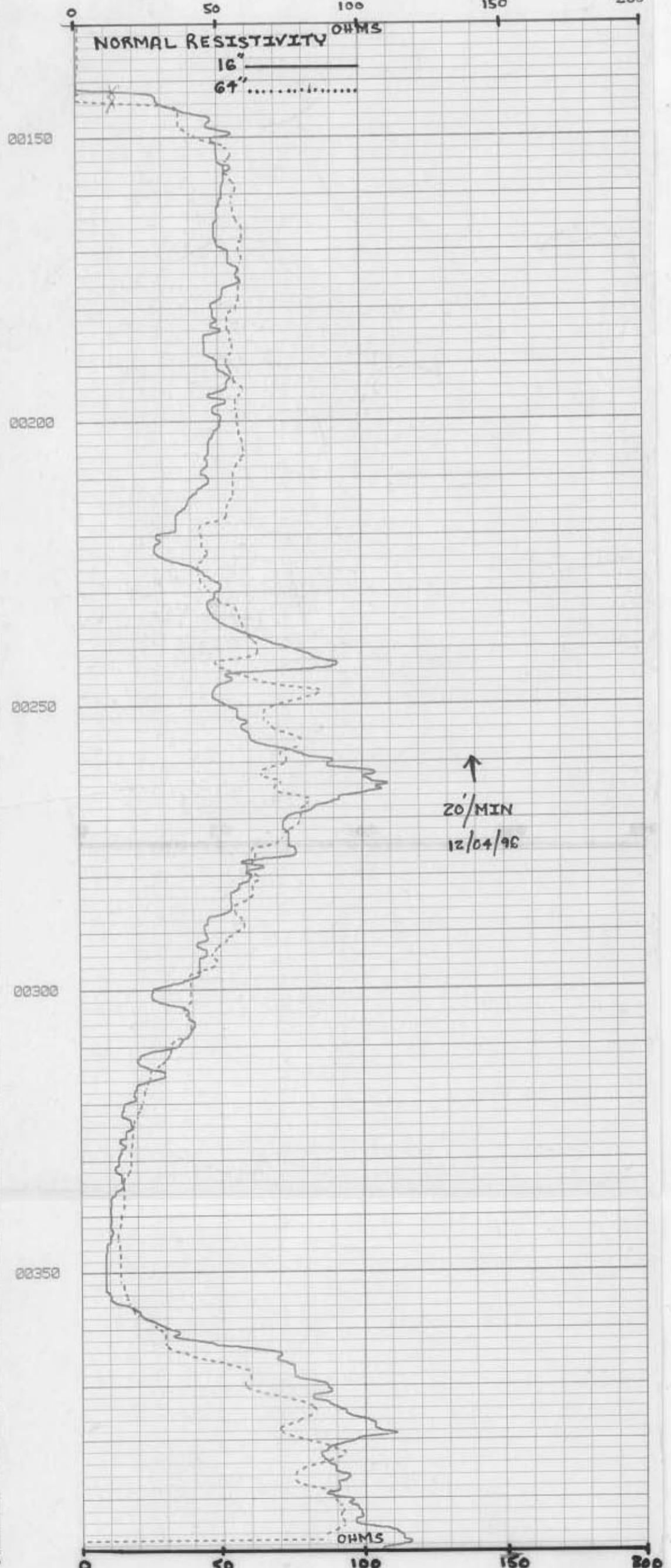
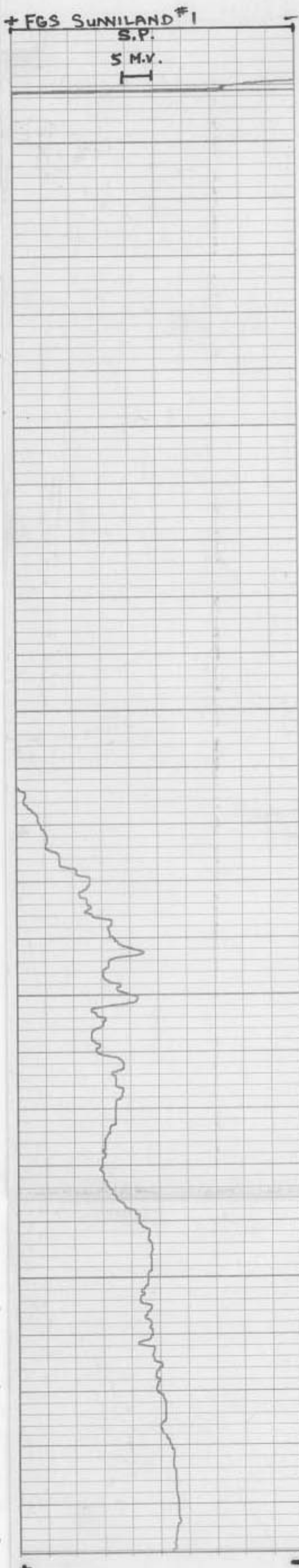
Drilling Method: Rot.  Air  CT  Auger  Other WIRE LINE CORE  
 T. Depth-Driller 400' T. Depth-Logger 400'  
 Casing Depth Driller 130' Casing Depth Logger 150'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.75" From 0' To 400' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen NA Screen Int. From NA To NA  
 Yield Flow 2 G.P.M. Well Use EXPLORATION/MONITOR

**TYPE OF SURVEYS RUN**

Lateral  Density   
 Caliper  ccl   
 Flow meter  Fluid Sampler   
 16" 64" normals  Temperature   
 Neutron  Delta Temp.   
 Natural Gamma  SP   
 Fluid Resistivity  Single Pt.

**COMMENTS**

PART 1 OF 2





SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG

WELL LOCATION

County COLLIER  
Station ID 0210000095  
Date 03/10/97 Well No. F.G.S. SUNNILAND # 1  
Latitude 26.18.00 Longitude 81.20.44 X=386757 Y=714942  
NE1/4 SW1/4 NE 1/4 SW 1/4 Section 17 Township 48S Range 30E  
Owner F.G.S. Phone ?  
Driller F.G.S. Date Drilled 03/10/97

DAFUM

L.S. +20.00' T.O.C. +1.30'

FLUID QUALITY

Date NA Time NA Source of Sample NA  
Cl NA mg/l Type of Fluid NA  
Temp. NA o/C Field Density NA o/C  
T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
Logged By: D. DEMONSTRANT Witnessed By: no witness  
Scale NA  
Digitized By: NA

WELL CONSTRUCTION

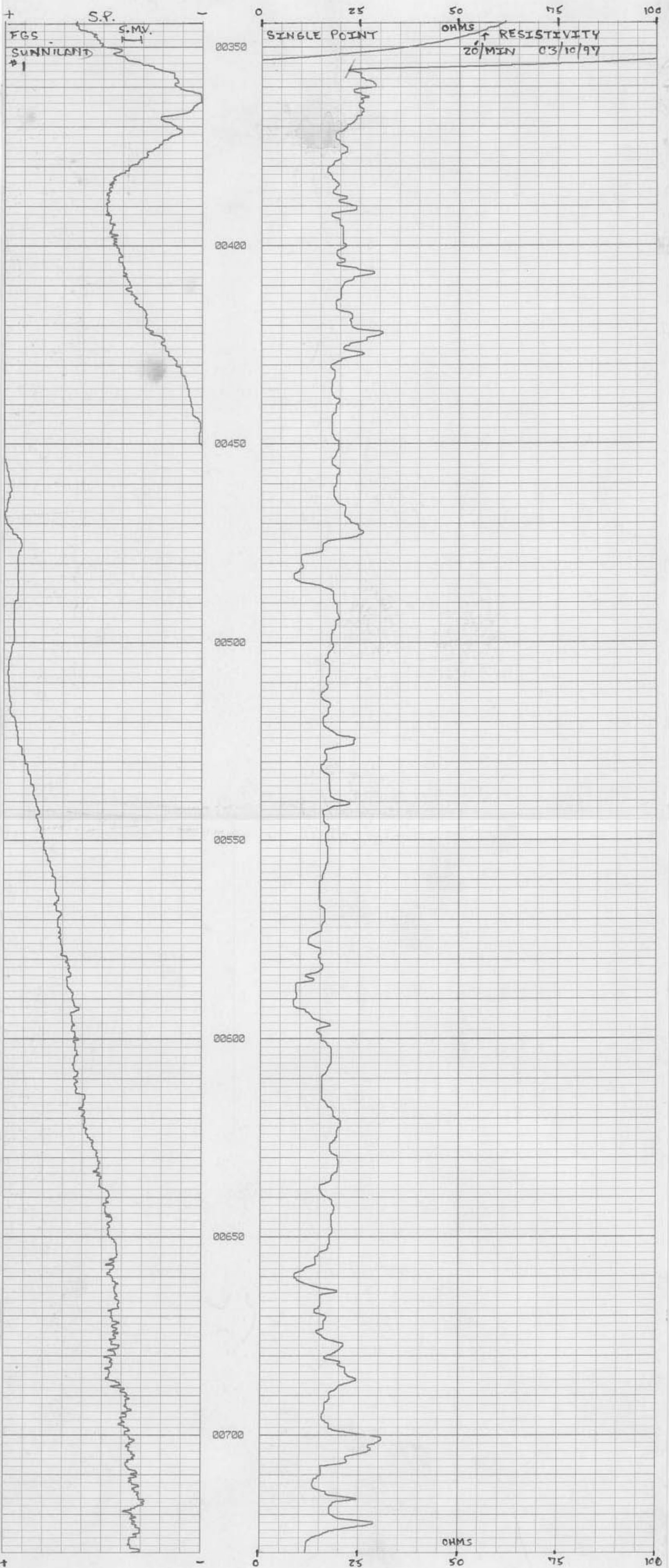
Drilling Method: Rot. (X) Air ( ) CT ( ) Other WIRE LINE CORE  
T. Depth-Driller NA T. Depth-Logger 730'  
Casing Depth Driller NA Casing Depth Logger 350'  
Bit Size 3 1/4" Casing Dia. I.D. 4"  
Hole Dia. 3.75" From 0' To 730' Dia. NA From NA To NA  
Type of Casing STEEL Casing Thickness .375  
Type of Screen OPEN HOLE Screen Int. From NA To NA  
Yield Flow NA Well Use EXPLORATION/MONITOR

TYPE OF SURVEYS RUN

Lateral 6' ( ) Density ( )  
Caliper (X) ccl ( )  
Flow meter ( ) Fluid Sampler ( )  
16".64" normals (X) Temperature ( )  
Neutron (X) Delta Temp. ( )  
Natural Gamma (X) SP ( )  
Fluid Resistivity ( ) Single PL ( )

COMMENTS

PART 2 OF 2





**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG**

**WELL LOCATION**

County COLLIER  
 Station I.D. 0210000086  
 Date 03/10/97 Well No. F.G.S. SUNNILAND # 1  
 Latitude 26 18 00 Longitude 81 20 44 X=386757 Y=714842  
NE1/4 SW1/4 NE1/4 SW1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.G.S. Date Drilled 03/10/97

**DATUM**

L.S. +20.00' T.O.C. +1.30'

**FLUID QUALITY**

Date NA Time NA Source of Sample NA  
 Cl NA mg/l Type of Fluid NA  
 Temp. NA o/C Field Density NA o/C  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: D. DEMONSTRANTI Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

**WELL CONSTRUCTION**

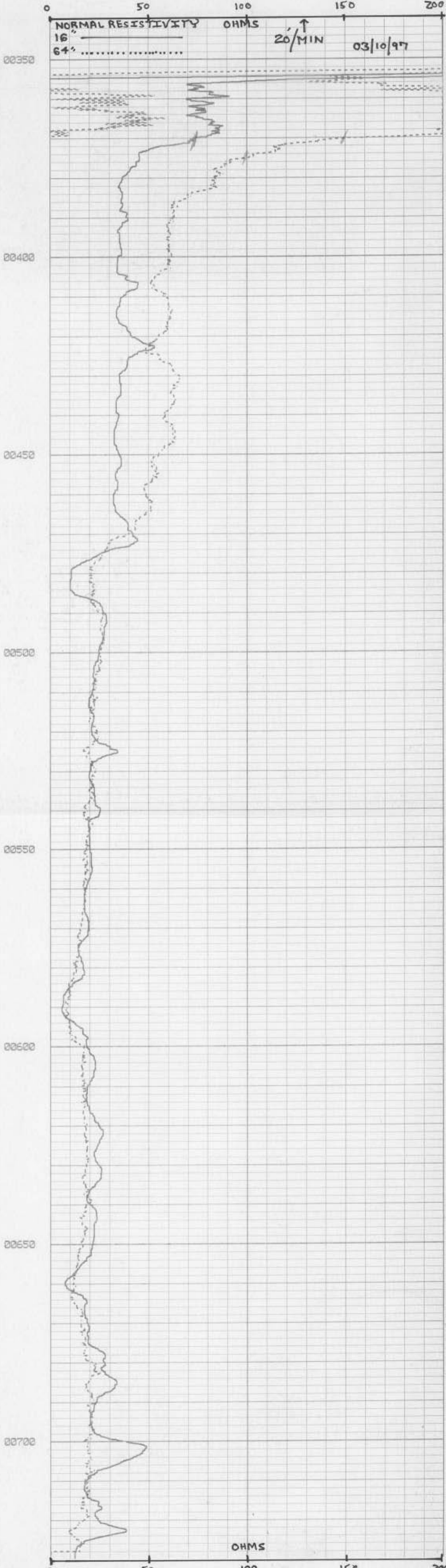
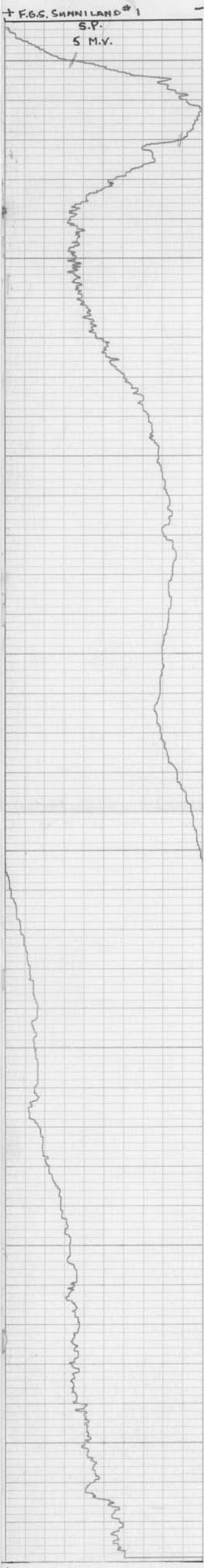
Drilling Method: Rot.  Air  CT  Auger  Other WIRE LINE CORE  
 T. Depth-Driller NA T. Depth-Logger 730'  
 Casing Depth Driller NA Casing Depth Logger 350'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.75" From 0' To 730' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen OPEN HOLE Screen Int. From NA To NA  
 Yield Flow NA Well Use EXPLORATION/MONITOR

**TYPE OF SURVEYS RUN**

Lateral 6'  Density   
 Caliper  ccl   
 Flow meter  Fluid Sampler   
 16", 64" normals  Temperature   
 Neutron  Delta Temp.   
 Natural Gamma  SP   
 Fluid Resistivity  Single Pt.

**COMMENTS**

PART 2 OF 2





SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG

WELL LOCATION

County COLLIER  
 Station I.D. 021000086  
 Date 03/10/97 Well No. F.G.S. SUNNILAND # 1  
 Latitude 26 18 00 Longitude 81 20 44 X=386757 Y=714942  
NE 1/4 SW 1/4 NE 1/4 SW 1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.G.S. Date Drilled 03/10/97

DATUM

L.S. +20.00' T.O.C. +1.30'

FLUID QUALITY

Date NA Time NA Source of Sample NA  
 Cl NA mg/l Type of Fluid NA  
 Temp. NA °C Field Density NA ° o/c  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: D. DEMONSTRANT Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

WELL CONSTRUCTION

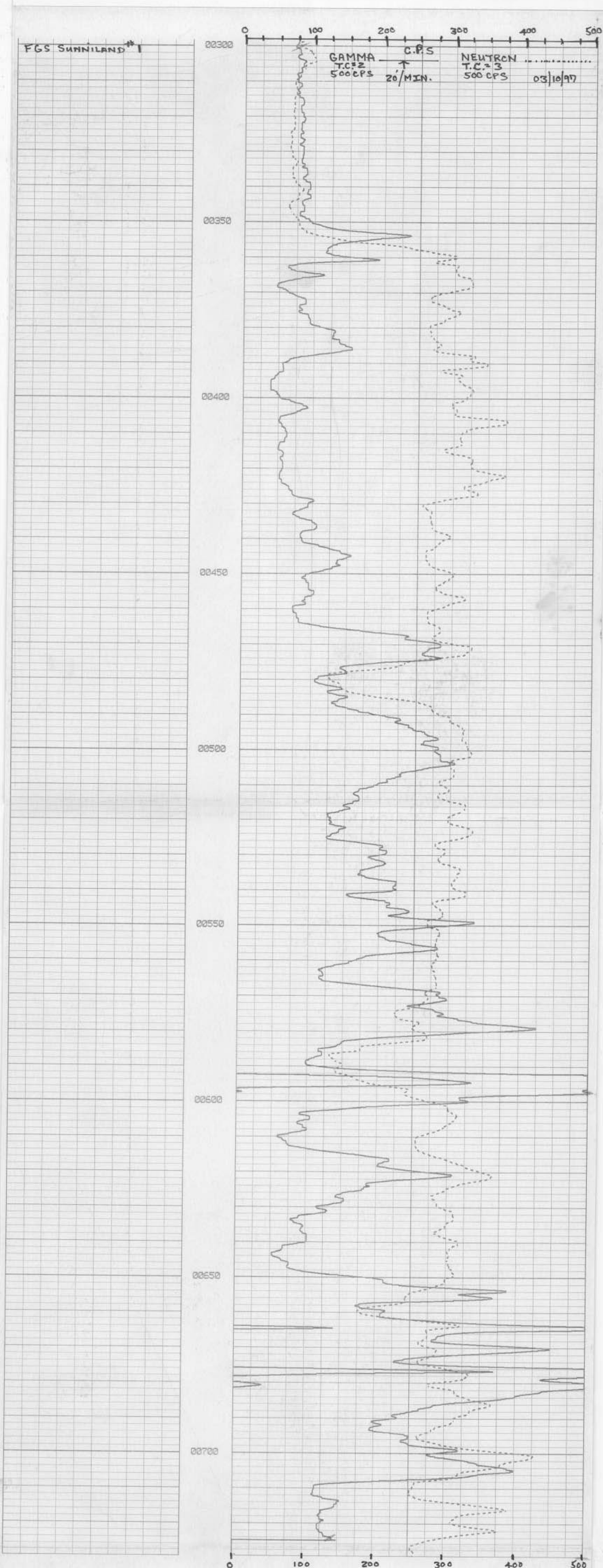
Drilling Method: Rot. (X) Air ( ) CT ( ) Auger ( ) Other WIRE LINE CORE  
 T. Depth-Driller NA T. Depth-Logger 730'  
 Casing Depth Driller NA Casing Depth Logger 350'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.75" From 0' To 730' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen OPEN HOLE Screen Int. From NA To NA  
 Yield Flow NA Well Use EXPLORATION/MONITOR

TYPE OF SURVEYS RUN

Lateral 6' ( ) Density ( )  
 Caliper (X) ccl ( )  
 Flow meter ( ) Fluid Sampler ( )  
 16".64" normals (X) Temperature ( )  
 Neutron ( ) Delta Temp. ( )  
 Natural Gamma ( ) SP (X)  
 Fluid Resistivity ( ) Single Pt. (X)

COMMENTS

PART 2 OF 2







SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WELL LOG

WELL LOCATION

County COLLIER  
 Station I.D. 021000026  
 Date 03/10/97 Well No. F.G.S. SUNNILAND # 1  
 Latitude 26 18 00 Longitude 81 20 44 X=388257 Y=714942  
NE 1/4 SW 1/4 NE 1/4 SW 1/4 Section 17 Township 48S Range 30E  
 Owner F.G.S. Phone ?  
 Driller F.G.S. Date Drilled 03/10/97

DATUM

L.S. +20.00' T.O.C. +1.30'

FLUID QUALITY

Date NA Time NA Source of Sample NA  
 Q NA mg/l Type of Fluid NA  
 Temp. NA °C Field Density NA ° a/C  
 T.D.S. NA mg/l Spec. Cond. NA umhos/cm  
 Logged By: D. DEMONSTRANTI Witnessed By: no witness  
 Scale NA  
 Digitized By: NA

WELL CONSTRUCTION

Drilling Method: Rot. (X) Air ( ) CT ( ) Auger ( ) Other WIRE LINE CORE  
 T. Depth-Driller NA T. Depth-Logger 730'  
 Casing Depth Driller NA Casing Depth Logger 350'  
 Bit Size 3 1/4" Casing Dia. I.D. 4"  
 Hole Dia. 3.75" From 0' To 730' Dia. NA From NA To NA  
 Type of Casing STEEL Casing Thickness .375  
 Type of Screen OPEN HOLE Screen Int. From NA To NA  
 Yield Flow NA Well Use EXPLORATION/MONITOR

TYPE OF SURVEYS RUN

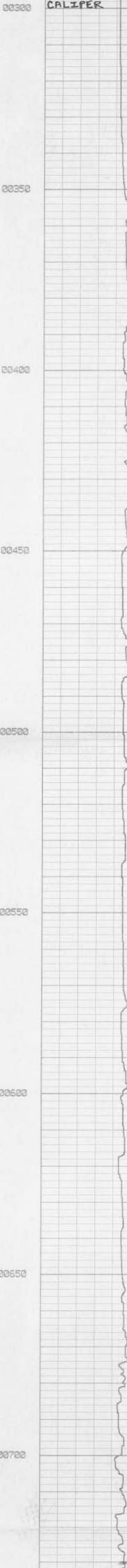
Lateral 6' ( ) Density ( )  
 Caliper ( ) cd ( )  
 Flow meter ( ) Fluid Sampler ( )  
 16".64" normals (X) Temperature ( )  
 Neutron (X) Delta Temp. ( )  
 Natural Gamma (X) SP (X)  
 Fluid Resistivity ( ) Single Pt. (X)

COMMENTS

PART 2 OF 2

F.G.S. SUNNILAND #1

00300 CALIPER 2" 1" 6" 8" 10" HOLE DIA. 20'/MIN 03/10/97



GEOPHEX, LTD.  
TAMPA, FLORIDA

ACOUSTIC VELOCITY  
RELATIVE AMPLITUDE  
SIGNATURE LOG

COMPANY UNIVERSITY OF MIAMI  
WELL UM/SFAMD/FCS SUNNILAND #1  
FIELD N/A

COUNTY COLLIER  
STATE FL

LOCATION  
SUNNILAND, FL

Preparation date: 03/09/97  
Log Log Interval: 2000 FEET  
Drilling Interval: 750'

Run No. 3-9-97  
Date 03-09-97  
Depth-Logger 750'

Bit Log Interval 2000'  
Top Log Interval 5'

Tube Log PERMITTING  
Type Fluid In Hole PERMITTING

Salinity PPM CL N/A  
Density N/A  
Level N/A

Play Rec Temp N/A  
Operating Rig Time N/A  
Recorded By JKL

Recommended By K. COHNINCHINI  
Attended By N/A  
Job Tkt. No. 0012

CASING RECORD

TUBING RECORD

Size 4" P.C.  
Type N/A  
Weight N/A

Depth-Logger 750'  
Bit Log Interval 2000'  
Top Log Interval 5'

Tube Log PERMITTING  
Type Fluid In Hole PERMITTING

Salinity PPM CL N/A  
Density N/A  
Level N/A

Play Rec Temp N/A  
Operating Rig Time N/A  
Recorded By JKL

Recommended By K. COHNINCHINI  
Attended By N/A  
Job Tkt. No. 0012

CWP 065 1.2616

REFERENCE LITERATURE:

REMARKS: TAPE 2-97-1  
TDDL CHASSIS AVL 002

UDL REFERENCES FOR RECEIVER, RECEIVER SPACING = 1 FOOT.  
LDS1 ROBS IN HOLE, TOP OF ROBS APPROX. 750' BLS.

NOTICE: 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 interpretations, 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 one of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule. GEOPHEX, LTD.

