

WELL STATION IDENTIFICATION

FORM RP-37 - Rev. 10/78

PAGE 1 OF 2

(COMPLETE THIS FORM ONLY FOR THE INITIAL SURVEY OF EACH WELL)

WELL LOCATION CARD ONE

1	10	16	20	37	54	57	59	63	66	68	71
STATION I. D.	SURVEY DATE	A CARD C	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LON DEG	LON MIN	LON SEC	
Q85000044	051679	W11	MF-20	MARTIN	027	09	30.00	080	36	20.00	

WELL LOCATION CARD TWO

1	17	20	37	39	42	45	61
STATION I. D.	SURVEY DATE	A CARD C	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA
		W12	SE1/4; SE1/4; NE1/4	22	38S	37E	UPPER EAST COAST

OK P

WELL DATUM CARD

1	17	20	26	32	38	44	59
STATION I. D.	SURVEY DATE	A CARD C	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)
		W21			1.00		MSL-; LS-X; TOC-X

WELL OWNERSHIP CARD

1	17	20	37	54	57	64	80
STATION I. D.	SURVEY DATE	A CARD C	NAME OF OWNER	GROVE/PROPERTY NAME	AREA CODE	TELEPHONE	WELL USE
		W31	BOBS GROVE	BOBS GROVE	305	461.8057	IRRIGATION

WELL ORIGIN CARD

1	17	20	37	54	71	76
STATION I. D.	SURVEY DATE	A CARD C	DRILLER/ DRILLING COMPANY	OFFICE OF DRILLER (CITY)	DRILLING METHOD	DATE COMPLETED
		W41	MCCULLERS & HOWARD	VERO BEACH	ROTARY	050779

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
 COLUMN 16 IS AN ACTION CODE WITH THE FOLLOWING PERMISSABLE STATES - 1 (CREATE NEW RECORD),
 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).



WELL STATION IDENTIFICATION

FORM RP-38 - Rev. 10/78

PAGE 2 OF 2

(COMPLETE THIS FORM ONLY FOR THE INITIAL SURVEY OF EACH WELL)

WELL DESCRIPTION - CONSTRUCTION CARD ONE

1	10	16	20	27	34	41	48	54	59	68
STATION I. D.	SURVEY DATE	CARD C	TOTAL DEPTH -DRILLER (FT)	TOTAL DEPTH -LOGGER (FT)	CASING DEPTH -DRILLER (FT)	CASING DEPTH -LOGGER (FT)	CASING I.D. (INCHES)	BIT SIZE (INCHES)	DRILLER LOG AVAIL.	
085000044	05.16.79	W5.1	1200	1200		434	80	7.750	YES-X; NO-	

WELL DESCRIPTION - CONSTRUCTION CARD TWO

1	17	20	37	54	59	64	69	73
STATION I. D.	SURVEY DATE	CARD C	TYPE OF SCREEN	TYPE OF PACKING	DIA. OF SCREEN	SLOT SIZE (INCHES)	SCREEN BEGINS	SCREEN ENDS (FT)
		W5.2						

WELL DESCRIPTION - CONFIGURATION CARD. SECTION ONE (TOP)

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	CARD C	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.1	0	BLACK STEEL	8.00	0		0.3	

WELL DESCRIPTION - CONFIGURATION CARD. SECTION TWO

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	CARD C	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.2	0.2						

WELL DESCRIPTION - CONFIGURATION CARD. SECTION THREE

1	17	20	22	39	44	49	54	59	75
STATION I. D.	SURVEY DATE	CARD C	SEC	TYPE OF CASING	NOM. DIA. (INCHES)	BEGIN DEPTH	END DEPTH (FEET)	THICKNESS (INCHES)	TYPE OF ANNULUS FILL
		W6.3	0.3						

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
 COLUMN 16 IS AN ACTION CODE WITH THE FOLLOWING PERMISSABLE STATES - 1 (CREATE NEW RECORD),
 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).
 CARD TYPES <W64>, <W65>, <W69> MAY ALSO BE USED TO PROVIDE DATA FOR A TOTAL OF NINE SECTIONS.

15/81

WELL SURVEY REPORT

FORM RP-39 -- Rev. 10/78

(USE ONE FORM/DAY/WELL)

SURVEY CARD

1	10	16	20	37	54	56	58	60	62	64	66	68	70	72										
STATION I. D.	SURVEY DATE	CARD C	LOGGED BY	WITNESSED BY	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
085.000044	05.16.79	W71	ANDERSON	BRAUN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

*INSERT AN <X> IN EACH COLUMN FOR WHICH A SURVEY WAS CONDUCTED. SURVEY CODES ARE LISTED BELOW:

<input checked="" type="checkbox"/> = CALIPER	<input checked="" type="checkbox"/> = NATURAL GAMMA	<input checked="" type="checkbox"/> = TEMPERATURE GRADIENT
<input checked="" type="checkbox"/> = FLOWMETER	<input checked="" type="checkbox"/> = FLUID RESISTIVITY	<input checked="" type="checkbox"/> = DELTA TEMPERATURE
<input checked="" type="checkbox"/> = 16-INCH NORMAL RESISTIVITY	H = GAMMA GAMMA DENSITY	<input checked="" type="checkbox"/> = SPONTANEOUS POTENTIAL
<input checked="" type="checkbox"/> = 64-INCH NORMAL RESISTIVITY	<input checked="" type="checkbox"/> = CASING COLLAR LOCATOR	N = POINT RESISTANCE
<input checked="" type="checkbox"/> = NEUTRON POROSITY	J = FLUID SAMPLER	<input checked="" type="checkbox"/> = 6-FOOT LATERAL RESISTIVITY

FLUID QUALITY CARD ONE

1	17	20	37	54	60	63
STATION I. D.	SURVEY DATE	CARD C	SAMPLE SOURCE (WELLHEAD, ETC.)	TYPE FLUID	DATE SAMPLED	TIME SAMPLED
		W81	WELLHEAD	WATER	05.16.79	1.40.0

FLUID QUALITY CARD TWO

1	17	20	25	32	35	41	47	53	60	64	70	75
STATION I. D.	SURVEY DATE	CARD C	TEMP. OF SAMPLE	C FIELD SP. GRAVITY	FIELD PH	CHLORIDE (MG/L)	DISSOLVED SOLIDS	SPEC. COND. (U-MHO/CM)	STATIC WATER LEVEL (FEET)	W/L REF FROM	FLOW RATE (GAL/MIN)	PUMP RATE (GAL/MIN)
		W82	81.30°F									

COMMENT CARDS

1	17	20	40	60	76
STATION I. D.	SURVEY DATE	CARD C	COMMENTS - LINE 1	COMMENTS - LINE 2	COMMENTS - LINE 3
		W91			
1	17	20	40	60	76
STATION I. D.	SURVEY DATE	CARD C	COMMENTS - LINE 4	COMMENTS - LINE 5	COMMENTS - LINE 6
		W92			

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.

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2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).

CARD TYPES <W93>, <W94>, <W99> MAY ALSO BE USED TO PROVIDE UP TO A TOTAL OF TWENTY-SEVEN COMMENT LINES.



WELL LOG

WELL LOCATION

County Martin County
 Station I. D. 0 8 5 0 0 0 4 4
 Date 5/16/79 Well No. MF-20
 Latitude 27° 9' 30.00" Longitude 80° 36' 20.00"
 SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22 Township 38S Range 37E
 Owner Bob's Grove Phone (305) 461-9057
 Driller McCullers & Howard Date Drilled 5/7/79

DATUM

K.B. L.S. W T.O.C. 10 Above L.S.

FLUID QUALITY

Date 5/16/79 Time 1400 Source of Sample wellhead
 Cl. mg/l Type of Fluid water
 Temp. 81.3 OF ϕ Field Density @ ϕ °C
 T.D.S. mg/l Spec. Cond. umhos/cm
 Logged By: Anderson Witnessed By: Braun

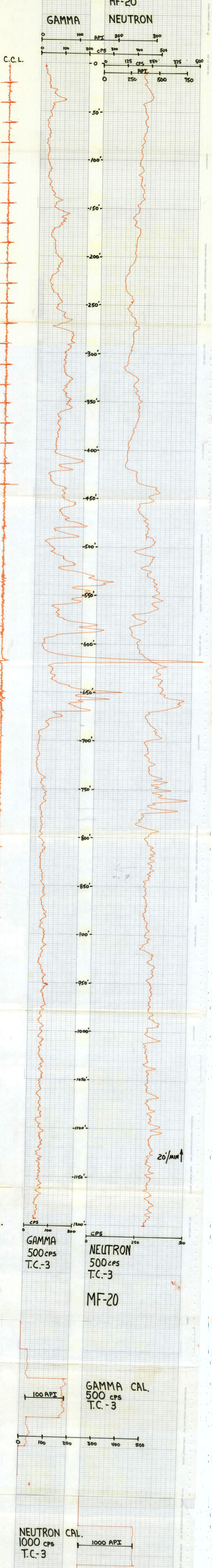
WELL CONSTRUCTION

Drilling Method: Rot X Air CT Auger Other
 T. Depth - Driller 1200' T. Depth - Logger 1200'
 Casing Depth Driller 434' Casing Depth Logger -
 Bit Size 7.75" Casing Dia. I.D. 8.0"
 Hole Dia. From To Dia. From To
 Type of Casing black steel Casing Thickness .3"
 Type of Screen open hole Screen Int. From To
 Type of Packing irrigation Well Use irrigation
 Static Water Level Date
 Yield Flow Pump

TYPE OF SURVEYS RUN

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

Comments: poor fluid resistivity due to short in tool



C.C.L. 1200'
 CPS 0 100 200
 GAMMA
 500 CPS
 T.C.-3

CPS 0 250 500
 NEUTRON
 500 CPS
 T.C.-3

MF-20

100 API
 GAMMA CAL.
 500 CPS
 T.C.-3

0 100 200 300 400 500

NEUTRON CAL.
 1000 CPS
 T.C.-3

1000 API
 CPS 0 500 1000



WELL LOG

WELL LOCATION
 County Martin County
 Station I. D. 0 8 5 0 0 0 4 4
 Date 5/16/79 Well No. MF-20
 Latitude 27° 9' 30.00" Longitude 80° 36' 20.00"
 SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22 Township 38S Range 37E
 Owner Bob's Grove Phone (305) 461-8057
 Driller McCullers & Howard Date Drilled 5/7/79

WELL CONSTRUCTION
 Drilling Method: Rot Air CT Auger Other
 T. Depth - Driller 1200' T. Depth - Logger 1200'
 Casing Depth Driller 434' Casing Depth Logger
 Bit Size 7.75" Casing Dia. I.D. 8.0"
 Hole Dia. From To Dia. From To
 Type of Casing black steel Casing Thickness .3"
 Type of Screen open hole Screen Int. From To
 Type of Packing Well Use irrigation
 Static Water Level Date
 Yield Flow Pump

DATUM
 K.B. L.S. T.O.C. 1.0 above L.S.

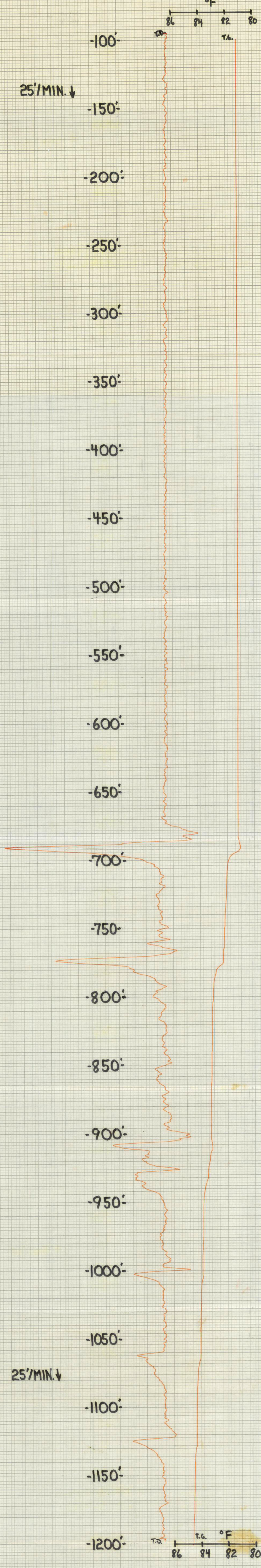
FLUID QUALITY
 Date 5/16/79 Time 1400 Source of Sample wellhead
 Cl mg/l Type of Fluid water
 Temp. 81.3 °F Field Density @ °C
 T.D.S. mg/l Spec. Cond. umhos/cm
 Logged By: Anderson Witnessed By: Braun

Comments:

MF-20

TEMPERATURE DIFFERENTIAL

TEMPERATURE GRADIENT



TEMPERATURE DIFFERENTIAL

TEMPERATURE GRADIENT

MF-20



WELL LOG

WELL LOCATION

County Martin County
 Station I. D. 0 8 5 0 0 0 4 4
 Date 5/16/79 Well No. MF-20
 Latitude 27° 9' 30.00" Longitude 80° 36' 20.00"
 SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22 Township 38S Range 37E
 Owner Bob's Grove Phone (305) 461-8057
 Driller McCullers & Howard Date Drilled 5/7/79

DATUM

K.B. _____ L.S. 10 Above L.S. T.O.C. 10 Above L.S.

FLUID QUALITY

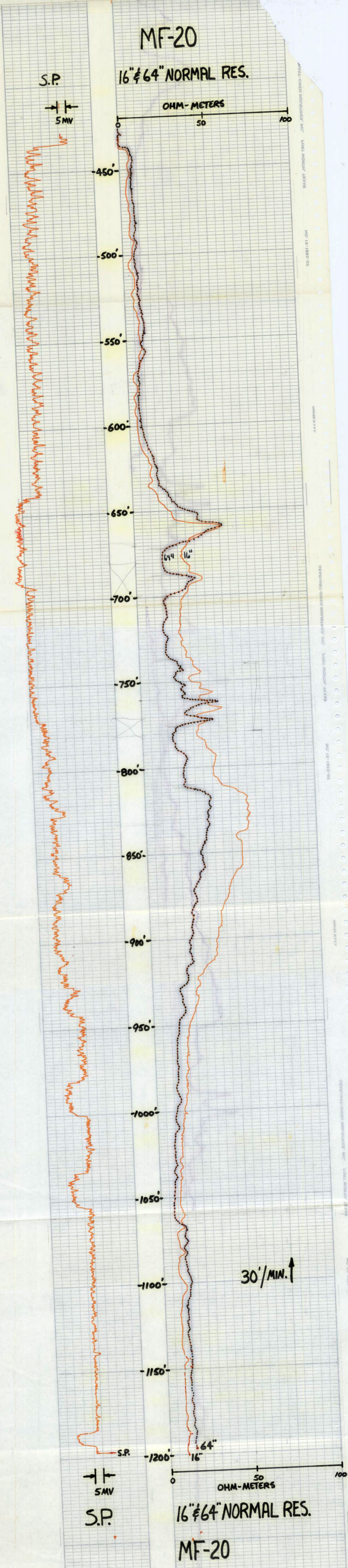
Date 5/16/79 Time 1400 Source of Sample wellhead
 Cl _____ mg/l Type of Fluid water
 Temp. 81.3 °F @ _____ °C Field Density _____
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
 Logged By: Anderson Witnessed By: Braun
 Comments: _____

WELL CONSTRUCTION

Drilling Method: Rot X Air CT Auger _____ Other _____
 T. Depth - Driller 1200' T. Depth - Logger 1200'
 Casing Depth Driller 434' Casing Depth Logger _____
 Bit Size 7.75" Casing Dia. I.D. 8.0"
 Hole Dia. _____ From _____ To _____ Dia. _____ From _____ To _____
 Type of Casing black steel Casing Thickness .3"
 Type of Screen open hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use irrigation
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

TYPE OF SURVEYS RUN

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



S.P.

MF-20
16" & 64" NORMAL RES.

OHM-METERS

5MV

-450'

-500'

-550'

-600'

-650'

-700'

-750'

-800'

-850'

-900'

-950'

-1000'

-1050'

-1100'

-1150'

-1200'

30'/MIN. ↑

S.P.

S.P.

MF-20

16" & 64" NORMAL RES.

OHM-METERS

5MV



WELL LOG

WELL LOCATION

County Martin County

Station I. D. 0 8 5 0 0 0 4 4

Date 5/16/79 Well No. MF-20

Latitude 27° 9' 30.00" Longitude 80° 36' 20.00"

SE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 22 Township 38S Range 37E

Owner Bob's Grove Phone (305) 461-8057

Driller McCullers & Howard Date Drilled 5/7/79

DATUM

K.B. _____ L.S. 104 T.O.C. f.O. Above L.S.

FLUID QUALITY

Date 5/16/79 Time 1400 Source of Sample wellhead

Cl _____ mg/l Type of Fluid water

Temp. 81.3 °F ϕ Field Density @ °C

T.D.S. _____ mg/l Spec. Cond. _____ μ mhos/cm

Logged By: Anderson Witnessed By: Braun

Comments: _____

WELL CONSTRUCTION

Drilling Method: Rot Air CT Auger Other _____

T. Depth - Driller 1200' T. Depth - Logger 1200'

Casing Depth Driller 434' Casing Depth Logger _____

Bit Size 7.75" Casing Dia. I.D. 8.0"

Hole Dia. _____ From _____ To _____ Dia. From _____ To _____

Type of Casing black steel Casing Thickness .3"

Type of Screen open hole Screen Int. From _____ To _____

Type of Packing _____ Well Use irrigation

Static Water Level _____ Date _____

Yield Flow _____ Pump _____

TYPE OF SURVEYS RUN

Lateral Density ()

Caliper ocl (X)

Flow meter Fluid Sampler ()

16' - 84" normals Temperature (X)

Neutron Delta Temp. (X)

Natural Gamma SP (X)

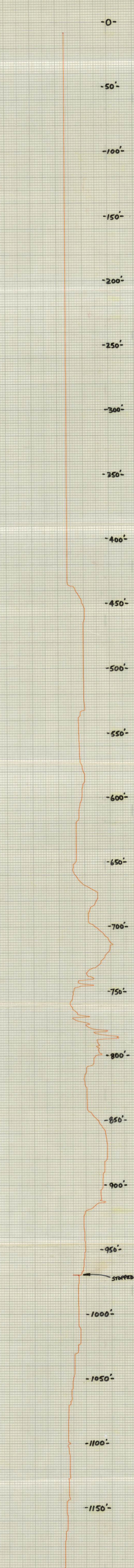
Fluid Resistivity

MF-20

HOLE DIA.



CALIPER



MF-20



WELL LOG

WELL LOCATION
 County Martin County
 Station I. D. 0 8 5 0 0 0 4 4
 Date 5/16/79 Well No. MF-20
 Latitude 27° 9' 30.00" Longitude 80° 36' 20.00"
SE 1/4 SE 1/4 NE 1/4 Section 22 Township 38S Range 37E
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 Driller McCullers & Howard Date Drilled 5/7/79

WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 1200' T. Depth - Logger 1200'
 Casing Depth Driller 434' Casing Depth Logger _____
 Hole Size 7.75" From _____ To _____ Dia. I.D. 8.0"
 Type of Casing black steel Casing Thickness .3"
 Type of Screen open hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use Irrigation
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

DATUM
 K.B. _____ L.S. 4.0" T.O.C. X/O Above L.S.

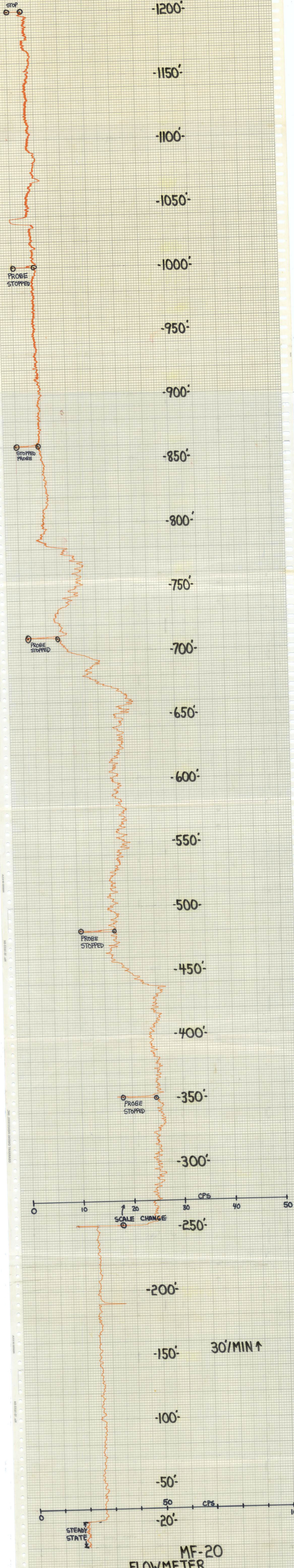
FLUID QUALITY
 Date 5/16/79 Time 1400 Source of Sample wellhead
 Cl _____ mg/l Type of Fluid water
 Temp. 81.3 °F °K Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm

Logged By: Anderson Witnessed By: Braun
 Comments: _____

TYPE OF SURVEYS RUN

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

MF-20
FLOWMETER



MF-20
FLOWMETER