

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	CARD C	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LON DEG	LON MIN	LON SEC	
021000043	121480	W11	C-2031D	COLLIER	025	57	30	081	21	11	

WELL LOCATION CARD TWO

1	17	20	37	39	42	45	61
STATION I. D.	SURVEY DATE	CARD C	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA
		W12	NW1/4; NE1/4; NW1/4	07	52S	30E	LOWER WEST COAST

WELL DATUM CARD

1	17	20	26	32	38	44	59
STATION I. D.	SURVEY DATE	CARD C	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)
		W21		00			MSL; LS-X; TOC

WELL OWNERSHIP CARD

1	17	20	37	54	57	64	80
STATION I. D.	SURVEY DATE	CARD C	NAME OF OWNER	GROVE/PROPERTY NAME	AREA CODE	TELEPHONE	WELL USE
		W31	S. F. W. M. D.		305	6868800	MONITOR

WELL ORIGIN CARD

1	17	20	37	54	71	76
STATION I. D.	SURVEY DATE	CARD C	DRILLER/ DRILLING COMPANY	OFFICE OF DRILLER (CITY)	DRILLING METHOD	DATE COMPLETED
		W41	S. F. W. M. D.	W. P. B.	ROTARY	121480

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

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(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.	
021000043	121480	W5.1	420	415	430	430	58	9/8	YES	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)
		W52	OPEN HOLE					

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
		W6.10		P.V.C.	6.0			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
		W6202							

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
		W6303							

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.

WELL SURVEY REPORT

FORM RP-39
Rev. 12/79
(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
021000043	121480	W71	S. ANDERSON	P. DAUENHAEUER	X	X	X	X	X								X	X						

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

A = CALIPER	F = NATURAL GAMMA	K = TEMPERATURE GRADIENT
B = FLOWMETER	G = FLUID RESISTIVITY	L = DELTA TEMPERATURE
C = 16-INCH NORMAL RESISTIVITY	H = GAMMA GAMMA DENSITY	M = SPONTANEOUS POTENTIAL
D = 64-INCH NORMAL RESISTIVITY	I = CASING COLLAR LOCATOR	N = POINT RESISTANCE
E = NEUTRON POROSITY	J = FLUID SAMPLER	O = 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 AND MUD	121480	1400

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	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										

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 OF 3 PARTS		

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

WELL STATION IDENTIFICATION

(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	CARD C	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LON DEG	LON MIN	LON SEC	
0210000430	12881	W11C	-2031D	COLLIER	025	57	30	081	21	11	

WELL LOCATION CARD TWO

1	17	20	37	39	42	45	61
STATION I. D.	SURVEY DATE	CARD C	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA
		W12	NW1/4; NE1/4; NW1/4	07	52S	30E	LOWER WEST COAST

WELL DATUM CARD

1	17	20	26	32	38	44	59
STATION I. D.	SURVEY DATE	CARD C	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)
		W21					MSL-; LS-0; TOC-

WELL OWNERSHIP CARD

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

WELL ORIGIN CARD

1	17	20	37	54	71	76
STATION I. D.	SURVEY DATE	CARD C	DRILLER/ DRILLING COMPANY	OFFICE OF DRILLER (CITY)	DRILLING METHOD	DATE COMPLETED
		W41	S.F.W.M.D.	W.P.B.	ROTARY	

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).

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WELL STATION IDENTIFICATION

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(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.	
0210000430	12881	W5.1	880	800	430	430	58		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	OPEN HOLE					

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	P.V.C.	60	0	430	0.2	CEMENT

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	02						

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	03						

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 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.

W E L L S U R V E Y R E P O R T

(USE ONE FORM/DAY/WELL)

SURVEY CARD

1	10	16	20	37	54	56	58	60	62	64	66	68	70	72
STATION	SURVEY	CARD	LOGGED BY	WITNESSED BY	*	*	*	*	*	*	*	*	*	*
I. D.	DATE	C			A	B	C	D	E	F	G	H	I	J
021000043012881	W71	S. ANDERSON		L. LYLES	X					X				

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

A = CALIPER	F = NATURAL GAMMA	K = TEMPERATURE GRADIENT
B = FLOWMETER	G = FLUID RESISTIVITY	L = DELTA TEMPERATURE
C = 16-INCH NORMAL RESISTIVITY	H = GAMMA GAMMA DENSITY	M = SPONTANEOUS POTENTIAL
D = 64-INCH NORMAL RESISTIVITY	I = CASING COLLAR LOCATOR	N = POINT RESISTANCE
E = NEUTRON POROSITY	J = FLUID SAMPLER	O = 6-FOOT LATERAL RESISTIVITY

FLUID QUALITY CARD ONE

1	17	20	37	54	60	63
STATION	SURVEY	CARD	SAMPLE SOURCE	TYPE	DATE	TIME
I. D.	DATE	C	(WELLHEAD, ETC.)	FLUID	SAMPLED	SAMPLED
	W81		WELL HEAD	FORMATION	012881	1400

FLUID QUALITY CARD TWO

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

COMMENT CARDS

1	17	20	40	60	76
STATION	SURVEY	CARD	COMMENTS	COMMENTS	COMMENTS
I. D.	DATE	C	- LINE 1	- LINE 2	- LINE 3
	W91		2 OF 3 PARTS		

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

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).
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(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	LOX DEG	LOX MIN	LOX SEC	
081000043021181		W11	C-2031D	COLLIER	085	57	30	081	21	11	

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	NW1/4; NE1/4; NW1/4	07	52S	30E	LOWER WEST COAST

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					MSL-; LS-0; TOC-

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					MONITOR

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	S.F.W.M.D.	W.P.B.	ROTARY	

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
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 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).

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WELL STATION IDENTIFICATION

FORM RP-38 - Rev. 10/78

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(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.	
0810000430	081181	W51	880	800	430	430	58		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)
		W52	OPEN HOLE					

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
		W61	10	P.V.C.	60	0	430	08	CEMENT

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
		W62	02						

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
		W63	03						

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 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).
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W E L L S U R V E Y R E P O R T

(USE ONE FORM/DAY/WELL)

SURVEY CARD

1	10	16	20	37	54	56	58	60	62	64	66	68	70	72
STATION	SURVEY	CARD	LOGGED BY	WITNESSED BY	*	*	*	*	*	*	*	*	*	*
I. D.	DATE	C			A	B	C	D	E	F	G	H	I	J
					K	L	M	N	O	P	Q	R	S	T
0210000430	021181	W71	S. ANDERSON	P. DAUENHAEUER	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:

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D = 64-INCH NORMAL RESISTIVITY	I = CASING COLLAR LOCATOR	N = POINT RESISTANCE
E = NEUTRON POROSITY	J = FLUID SAMPLER	O = 6-FOOT LATERAL RESISTIVITY

FLUID QUALITY CARD ONE

1	17	20	37	54	60	63
STATION	SURVEY	CARD	SAMPLE SOURCE	TYPE	DATE	TIME
I. D.	DATE	C	(WELLHEAD, ETC.)	FLUID	SAMPLED	SAMPLED
		W81	WELLHEAD	FORMATION WATER	021181	1400

FLUID QUALITY CARD TWO

1	17	20	25	32	35	41	47	53	60	64	70	75
STATION	SURVEY	CARD	TEMP. OF	C FIELD SP.	FIELD	CHLORIDE	DISSOLVED	SPEC. COND.	STATIC WATER	W/L REF	FLOW RATE	PUMP RATE
I. D.	DATE	C	SAMPLE	F GRAVITY	PH	(MG/L)	SOLIDS	(U-MHO/CM)	LEVEL (FEET)	FROM	(GAL/MIN)	(GAL/MIN)
		W82	81.2° F					64400				

COMMENT CARDS

1	17	20	40	60	76
STATION	SURVEY	CARD	COMMENTS	COMMENTS	COMMENTS
I. D.	DATE	C	- LINE 1	- LINE 2	- LINE 3
		W91	3 OF 3 PARTS		

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

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

WELL LOCATION CARD ONE

1	10	16	20	37	54	57	59	63	66	68	71
STATION I. D.	SURVEY DATE	CARD C	WELL NO.	COUNTY	LAT DEG	LAT MIN	LAT SEC	LON DEG	LON MIN	LON SEC	
081000043	060383	W11C	-R031D	COLLIER	085	57	30	081	21	11	

WELL LOCATION CARD TWO

1	17	20	37	39	42	45	61
STATION I. D.	SURVEY DATE	CARD C	QUARTERSECTIONS	SEC	TOWN-SHIP	RANGE	WATER MANAGEMENT DISTRICT PLANNING AREA
		W12	NW1/4; NE1/4; NW1/4	07	52	S30E	

WELL DATUM CARD

1	17	20	26	32	38	44	59
STATION I. D.	SURVEY DATE	CARD C	KELLY BUSH-ING (FEET)	LAND SUR-FACE (FT)	TOP OF CASING (FT)	OTHER (FT) (SEE NOTES)	DATUM (CHECK ONE)
		W21		0			MSL-; LS-X; TOC-

WELL OWNERSHIP CARD

1	17	20	37	54	57	64	80
STATION I. D.	SURVEY DATE	CARD C	NAME OF OWNER	GROVE/PROPERTY NAME	AREA CODE	TELEPHONE	WELL USE
		W31	S.F.W.M.D.				MONITOR

WELL ORIGIN CARD

1	17	20	37	54	71	76
STATION I. D.	SURVEY DATE	CARD C	DRILLER/ DRILLING COMPANY	OFFICE OF DRILLER (CITY)	DRILLING METHOD	DATE COMPLETED
		W41	S.F.W.M.D.	W.P.B.	ROTARY	

NOTES: COLUMNS 1-16 ARE DUPLICATED IN EACH CARD.
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 2 (CHANGE ALL VALUES), OR 9 (DELETE OLD RECORD).

Jane

WELL STATION IDENTIFICATION

FORM RP-38 - Rev. 10/78

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(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.	
0210000430	060383	W5.1	880	800	430	430	58		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)
		W520	OPEN HOLE					

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
		W6.10		P.V.C.	60	0	430	02	CEMENT

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
		W6202							

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
		W6303							

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.

Jane

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	SURVEY	CARD	LOGGED BY	WITNESSED BY	*	*	*	*	*	*	*	*	*	*
I. D.	DATE	C			A	B	C	D	E	F	G	H	I	J
021000043060383	W71	S. ANDERSON			X				X				XX	

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

A = CALIPER	F = NATURAL GAMMA	K = TEMPERATURE GRADIENT
B = FLOWMETER	G = FLUID RESISTIVITY	L = DELTA TEMPERATURE
C = 16-INCH NORMAL RESISTIVITY	H = GAMMA GAMMA DENSITY	M = SPONTANEOUS POTENTIAL
D = 64-INCH NORMAL RESISTIVITY	I = CASING COLLAR LOCATOR	N = POINT RESISTANCE
E = NEUTRON POROSITY	J = FLUID SAMPLER	O = 6-FOOT LATERAL RESISTIVITY

FLUID QUALITY CARD ONE

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

FLUID QUALITY CARD TWO

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

COMMENT CARDS

1	17	20	40	60	76
STATION	SURVEY	CARD	COMMENTS	COMMENTS	COMMENTS
I. D.	DATE	C	- LINE 1	- LINE 2	- LINE 3
		W91	RUN A. ON WELL		

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

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

Jane



WELL LOG

WELL LOCATION

County COLLIER
 Station I. D. 021000043
 Date 02-11-81 Well No. C-2031D
 Latitude 025° 57' 30" Longitude 081° 21' 11"
 NW 1/4 NE 1/4 SW 1/4 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 880' T. Depth - Logger 800'
 Casing Depth Driller 430' Casing Depth Logger 430'
 Bit Size 5 1/2" Casing Dia. I.D. 5.8"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow 2600 GPM Pump _____

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-81 Time 1400 Source of Sample WELLHEAD
 Cl _____ mg/l Type of Fluid FORMATION WATER
 Temp. 81.2°F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DANENHAUER
 Comments: PART 3 OF 3 PARTS

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

C-2031D
FLOWMETER

RUN #3

100 90 80 70 60 50 40 30 20 10 0
CPS

STEADY STATE FLOW

-400'

-450'

-500'

60'/MIN

-550'

-600'

-650'

-700'

-750'

-800'

STEADY STATE FLOW

100 90 80 70 60 50 40 30 20 10 0
CPS

FLOWMETER
C-2031D



WELL LOG

WELL LOCATION

County COLLIER
 Station I. D. 02100043
 Date 02-11-81 Well No. C-2031D
 Latitude 025° 51' 30" Longitude 081° 21' 11"
 NW 1/4 NE 1/4 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 880' T. Depth - Logger 800'
 Casing Depth Driller 430' Casing Depth Logger 430'
 Bit Size 5 1/2" Casing Dia. I.D. 5.8"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen open wire Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow 7600 GPM Pump _____

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-81 Time 1400 Source of Sample WELLHEAD
 Cl _____ mg/l Type of Fluid FORMATION WATER
 Temp. 81.2°F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DANENHOFER
 Comments: PART 3 OF 3 PARTS

TYPE OF SURVEYS RUN

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

C-2031 FLOWMETER

RUN #4

CPS

0 10 20 30 40 50 60 70 80 90 100

-380'

-400'

-450'

-500'

-550'

-600'

-650'

-700'

-750'

-800'

STEADY STATE

60'/MIN
IN 6" PVC

STEADY STATE

CPS

0 10 20 30 40 50 60 70 80 90 100

FLOWMETER
C-2031D



WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 02-11-81 Well No. C-2031D
Latitude 025° 57' 30" Longitude 081° 21' 11"
NW ¼ NE ¼ SW ¼ Section 07 Township 52S Range 30E
Owner _____ Phone 305-686-8800
Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size 5 1/4" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN HOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow 760 GPM Pump _____

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

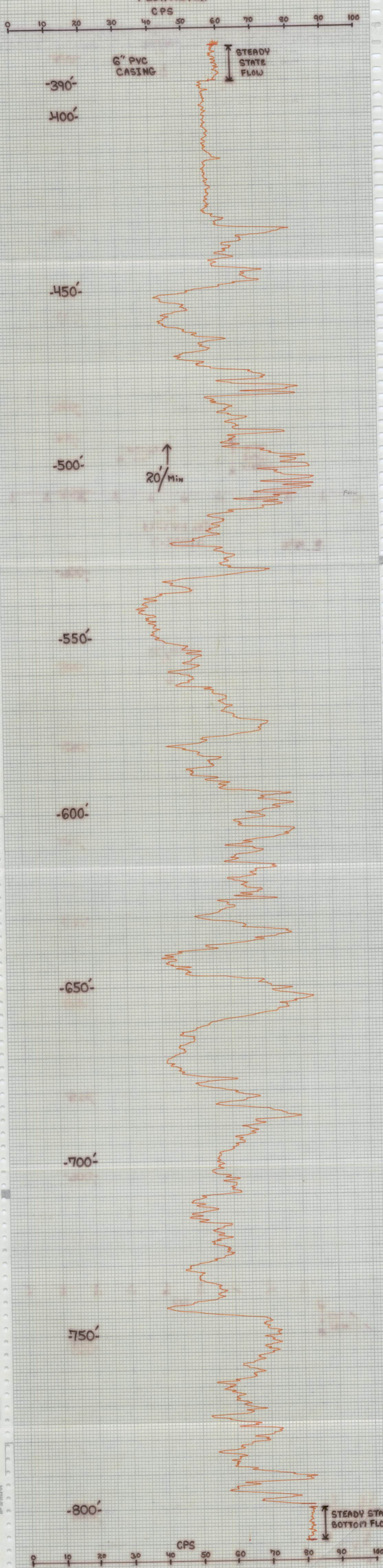
Date 02-11-81 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
Logged By: S. ANDERSON Witnessed By: P. DANENHOFER
Comments: PART 3 OF 3 PARTS

TYPE OF SURVEYS RUN

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

C-2031D
FLOWMETER

RUN #2





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 02-11-81 Well No. C-2031D
Latitude 025° 57' 30" Longitude 081° 21' 11"
N 1/4 NE 1/4 SW 1/4 Section 07 Township 52S Range 30E
Owner _____ Phone 305-686-8800
Driller S.F.W.M.D. Date Drilled 01-29-81

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

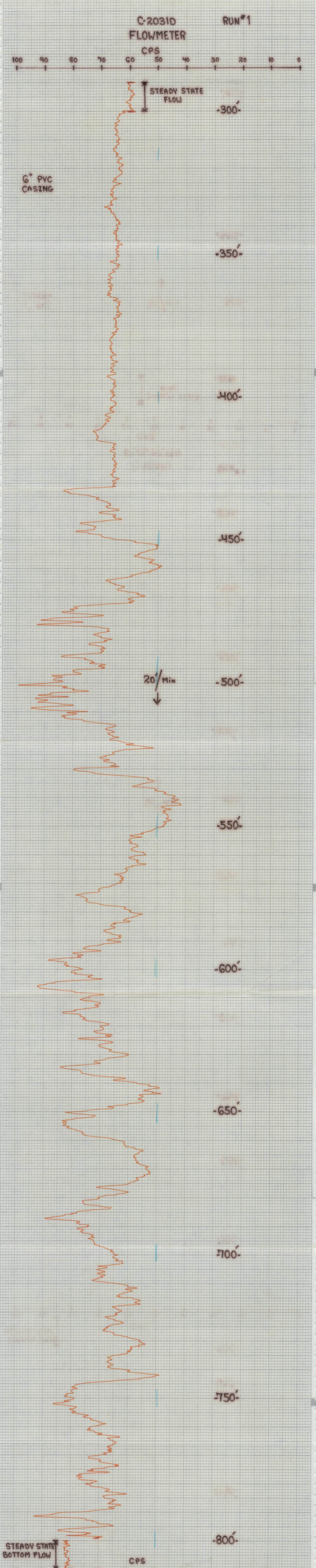
Date 02-11-81 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6.440 μmhos/cm
Logged By: S. ANDERSON Witnessed By: P. DAENHAGER
Comments: PART 3 OF 3 PARTS

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size 5 1/8" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN HOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow 3600 GPM Pump _____

TYPE OF SURVEYS RUN

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





WELL LOG

WELL LOCATION
County COLLIER
Station I. D. 021000073
Date 01-28-81 Well No. C-2031D
Latitude 025° 57' 30" Longitude 081° 21' 11"
NW 1/4 NE 1/4 Section 07 Township 52S Range 30E
Owner _____ Phone 305-686-8200
Driller S.F.W.M.D. Date Drilled 01-28-81

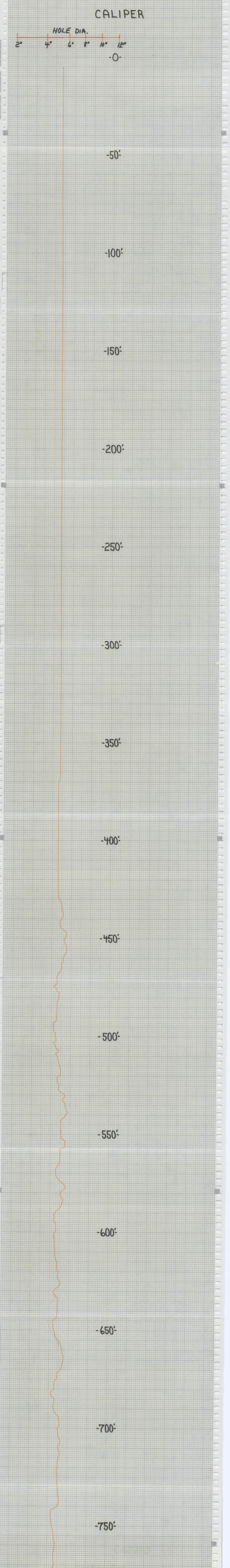
WELL CONSTRUCTION
Drilling Method: Rot. Air Auger Other _____
T. Depth - Driller 880 T. Depth - Logger 800
Casing Depth Driller 430 Casing Depth Logger 430
Bit Size 5 1/8" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 480 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN HOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow ≈ 600 GPM Pump _____

DATUM
K.B. _____ L.S. A.D. T.O.C. _____

FLUID QUALITY
Date 01-28-81 Time 1400 Source of Sample WELL HEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. _____ °C Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
Logged By: S. ANDERSON Witnessed By: J. LYLES
Comments: PART 2 OF 3 PARTS

TYPE OF SURVEYS RUN

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





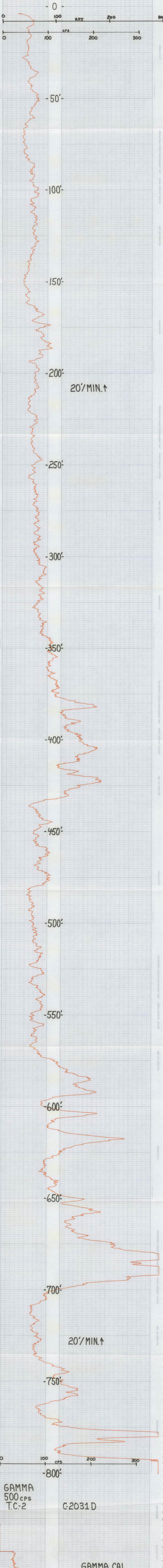
WELL LOG

WELL LOCATION
 County COLLIER
 Station I. D. 021000043
 Date 01-28-81 Well No. C-2031D
 Latitude 025° 57' 30" Longitude 081° 21' 11"
 NW 1/4 4E 4W 4N Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 01-28-81

DATUM
 K.B. _____ L.S. N.O. T.O.C. _____
 FLUID QUALITY
 Date 01-28-81 Time 1400 Source of Sample WELL HEAD
 Cl _____ mg/l Type of Fluid FRESHWATER
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
 Logged By: S. ANDERSON Witnessed By: L. LYLES
 Comments: PART 2 OF 3 PARTS

WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 880 T. Depth - Logger 860
 Casing Depth Driller 430 Casing Depth Logger 430
 Bit Size 5/8" Casing Dia. I.D. 5.8"
 Hole Dia. 6.0 From 0 To 480 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow ≈ 600 GPM Pump _____

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



GAMMA
 500 cps
 T.C.-2

C-2031D

GAMMA CAL.
 500 cps
 T.C.-2

100 API

0 100 200 300



WELL LOG

WELL LOCATION

County COLLIER
 Station I. D. 021000043
 Date 12-14-80 Well No. C-2031D
 Latitude 025° 51' 30" Longitude 081° 21' 11"
NW 1/4 NE 1/4 NW 1/4 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 12-14-80

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 12-14-80 Time 1400 Source of Sample WELL HEAD
 Cl _____ mg/l Type of Fluid FORMATION WATER
 Temp. _____ °C Field Density _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DAUENHAUER
 Comments: PART 1 OF 3 PARTS

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger _____ Other _____
 T. Depth - Driller 420 T. Depth - Logger 415
 Casing Depth Driller _____ Casing Depth Logger _____
 Bit Size 9/8 Casing Dia. I.D. 5.80"
 Hole Dia. 6.0 From 0 To 430 Dia. _____ From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date 12-14-80
 Yield Flow _____ Pump _____

TYPE OF SURVEYS RUN

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

C-2031D

CALIPER

HOLE DIA.

2" 4" 6" 8" 10" 12" 14" 16" 18" 20"

-0-

-50'-

-100'-

-150'-

-200'-

30'/MIN. ↑

-250'-

-300'-

-350'-

-400'-

-410'-

CALIPER

C-2031D

10" 12" 14" 16" 18" 20" 22" 24" 26" 28" 30" 32" 34" 36" 38" 40" 42" 44" 46" 48" 50" 52" 54" 56" 58" 60" 62" 64" 66" 68" 70" 72" 74" 76" 78" 80" 82" 84" 86" 88" 90" 92" 94" 96" 98" 100"



WELL LOG

WELL LOCATION
 County COLLIER
 Station I. D. 021000043
 Date 12-14-80 Well No. C-2031D
 Latitude 025° 57' 30" Longitude 081° 21' 11"
 NW 1/4 NE 1/4 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8900
 Driller S.F.W.M.D. Date Drilled 12-14-80

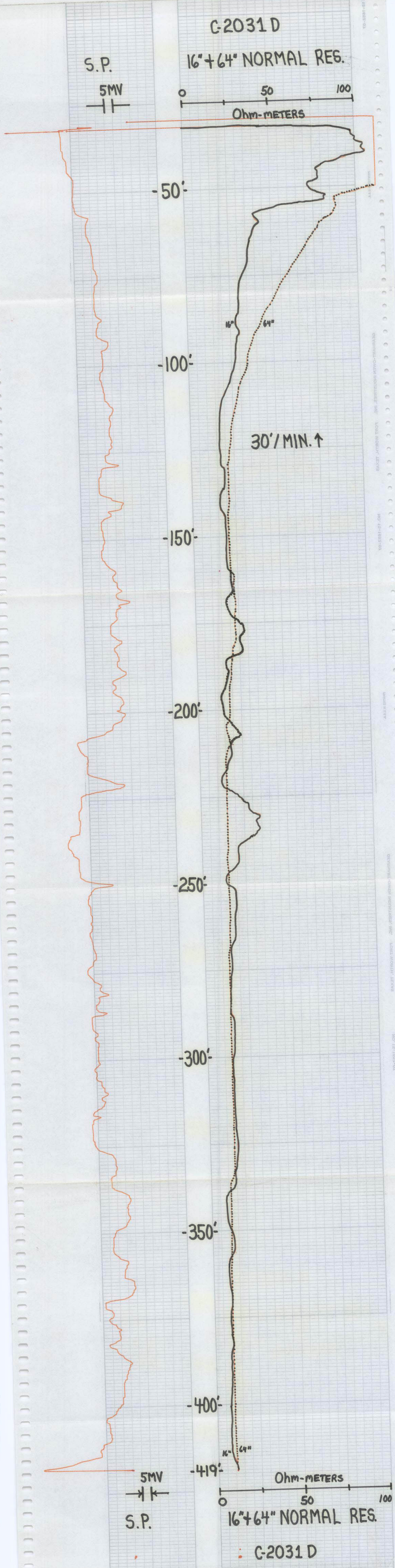
WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 420 T. Depth - Logger 415
 Casing Depth Driller _____ Casing Depth Logger _____
 Bit Size 97/8 Casing Dia. I.D. 5.90"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date 12-14-80
 Yield Flow _____ Pump _____

DATUM
 K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY
 Date 12-14-80 Time 1400 Source of Sample WELLHEAD
 Cl _____ mg/l Type of Fluid FORMATION WATER Mud
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DAVENHAUER
 Comments: PART 1 OF 3 PARTS

TYPE OF SURVEYS RUN

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





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 12-14-80 Well No. C-2031D
Latitude 025° 57' 30" Longitude 081° 21' 11"
NW 1/4 NE 1/4 Section 07 Township 52S Range 30E
Owner _____ Phone 305-686-8800
Driller S.F.W.M.D. Date Drilled 12-14-80

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 12-14-80 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. _____ °C Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
Logged By: S. ANDERSON Witnessed By: P. DAUENHAUER

WELL CONSTRUCTION

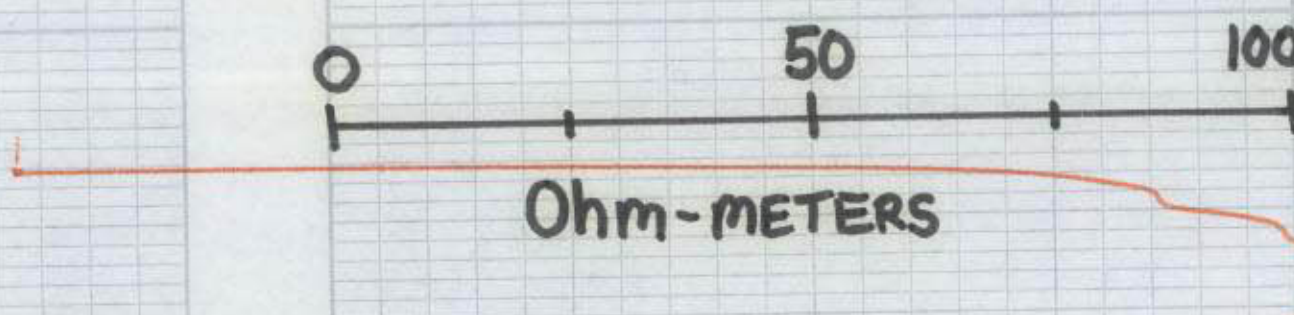
Drilling Method: Rot. Air CT Auger _____ Other _____
T. Depth - Driller 420 T. Depth - Logger 415
Casing Depth Driller _____ Casing Depth Logger _____
Bit Size 9 7/8 Casing Dia. I.D. 5.80"
Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN HOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date 12-14-80
Yield Flow _____ Pump _____

Comments: PART 1 OF 3 PARTS

TYPE OF SURVEYS RUN

- | | | | |
|-------------------|-------------------------------------|---------------|-----|
| Lateral 6' | <input checked="" type="checkbox"/> | Density | () |
| Caliper | () | chl | () |
| Flow meter | () | Fluid Sampler | () |
| 16", 64" normals | () | Temperature | () |
| Neutron | () | Delta Temp. | () |
| Natural Gamma | () | SP | () |
| Fluid Resistivity | () | | |

C-2031D
6' LATERAL



-50'

-100'

-150'

30'/MIN. ↑

-200'

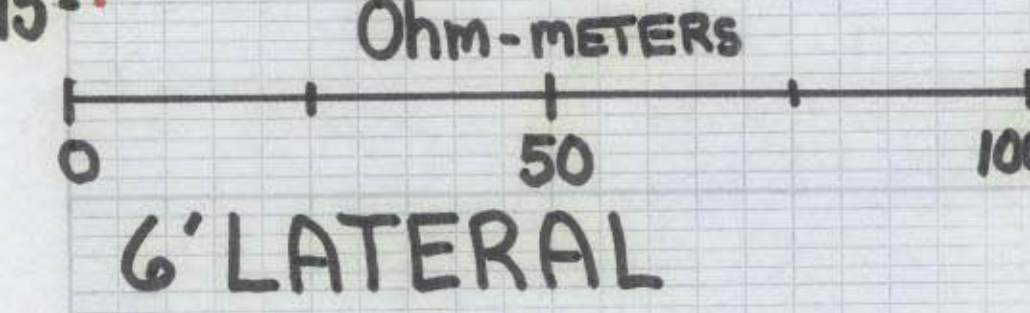
-250'

-300'

-350'

-400'

-415'



6' LATERAL

C-2031D



WELL LOG

WELL LOCATION
 County COLLIER
 Station I. D. 021000043
 Date 12-14-80 Well No. C-2031D
 Latitude: 025° 57' 30" Longitude 081° 21' 11"
 NW 1/4 NE 1/4 W 1/4 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 12-14-80

WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger _____ Other _____
 T. Depth - Driller 420 T. Depth - Logger 415
 Casing Depth Driller _____ Casing Depth Logger _____
 Bit Size 9 7/8 Casing Dia. I.D. 5.90"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date 12-14-80
 Yield Flow _____ Pump _____

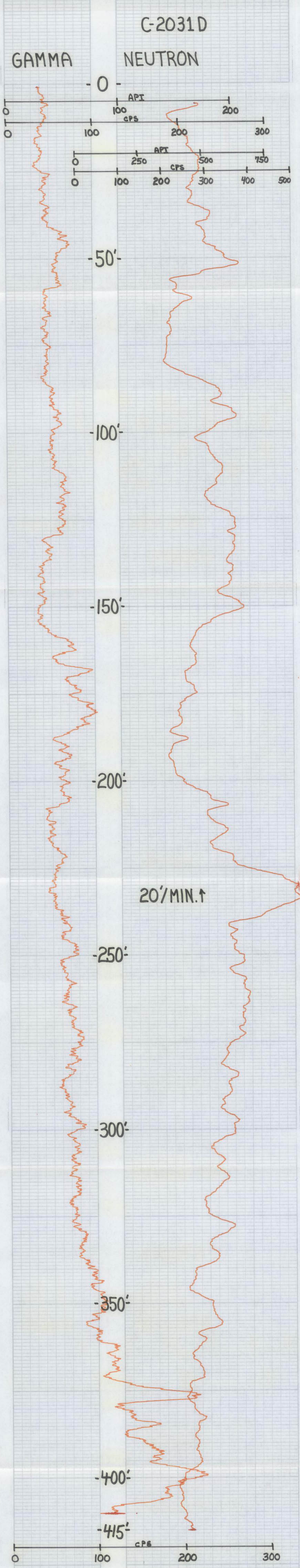
DATUM
 K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY
 Date 12-14-80 Time 1400 Source of Sample WELL HEAD
 Cl _____ mg/l Type of Fluid FRESHWATER
 Temp. _____ °C Field Density _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DAVENHAUER

Comments: PART 1 OF 3 PARTS

TYPE OF SURVEYS RUN

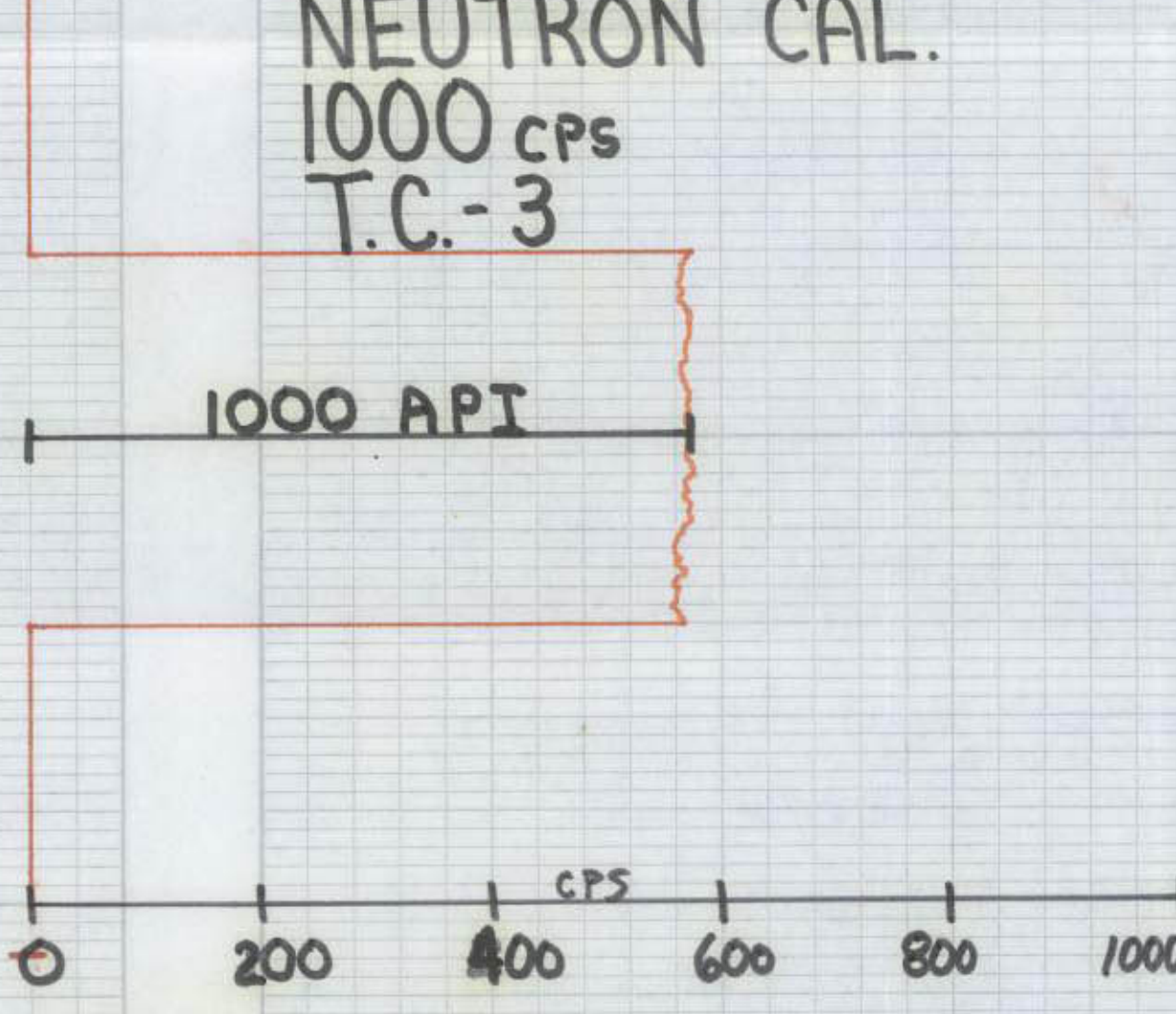
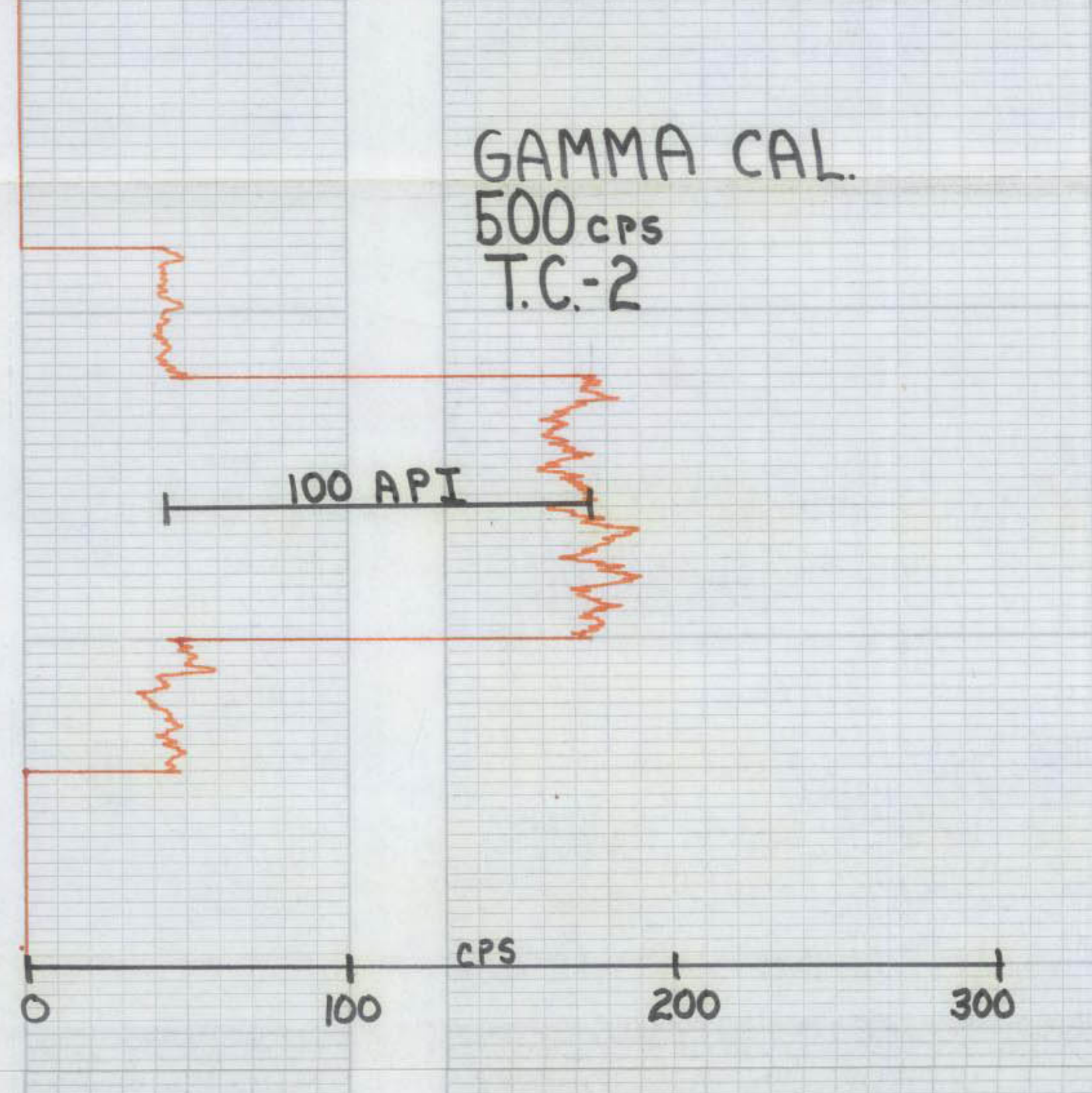
Lateral 6'	(X)	Density	()
Caliper	(X)	chl	()
Flow meter	()	Fluid Sampler	()
16", 64" normals	(X)	Temperature	()
Neutron	(X)	Delta Temp.	()
Natural Gamma	(X)	SP	(X)
Fluid Resistivity	()		



GAMMA
 500 CPS
 T.C.-2

NEUTRON
 500 CPS
 T.C.-3

C-2031D





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 06/03/83 Well No. C-2031D
Latitude 025°-57'-30" Longitude 081°-21'-11"
NW 1/4 NE 1/4 NW 1/4 Section 07 Township 52S Range 30E
Owner S.F.W.M.D. Phone _____
Driller S.F.W.M.D. Date Drilled _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0'

FLUID QUALITY

Date _____ Time _____ Source of Sample _____
Cl _____ mg/l Type of Fluid _____
Temp. _____ °C Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. _____ μmhos/cm
Logged By: S. ANDERSON Witnessed By: _____
Comments: RUN 4 ON WELL

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size _____ Casing Dia. I.D. 5.8"
Hole Dia. 6" From 0' To 800' Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.2"
Type of Screen OPENHOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow _____ Pump _____

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 ()

C-2031D
T.C.-4
FLOWMETER
CPS

100 90 80 70 60 50 40 30 20 10 0

-300'

-350'

-400'

-450'

-500'

-550'

-600'

-650'

-700'

-750'

-800'

30'/MIN.
↓

100 90 80 70 60 50 40 30 20 10 0

C.P.S.
FLOWMETER



WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 06/03/83 Well No. C-2031D
Latitude 025°-57'-30" Longitude 081°-21'-11"
NW 1/4 NE 1/4 NW 1/4 Section 07 Township 52S Range 30E
Owner S.F.W.M.D. Phone _____
Driller S.F.W.M.D. Date Drilled _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0'

FLUID QUALITY

Date _____ Time _____ Source of Sample _____
Cl _____ mg/l Type of Fluid _____
Temp. _____ °C Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
Logged By: S. ANDERSON Witnessed By: _____
Comments: RUN 4 ON WELL

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size _____ Casing Dia. I.D. 5.8"
Hole Dia. 6" From 0' To 800' Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.2"
Type of Screen OPENHOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow _____ Pump _____

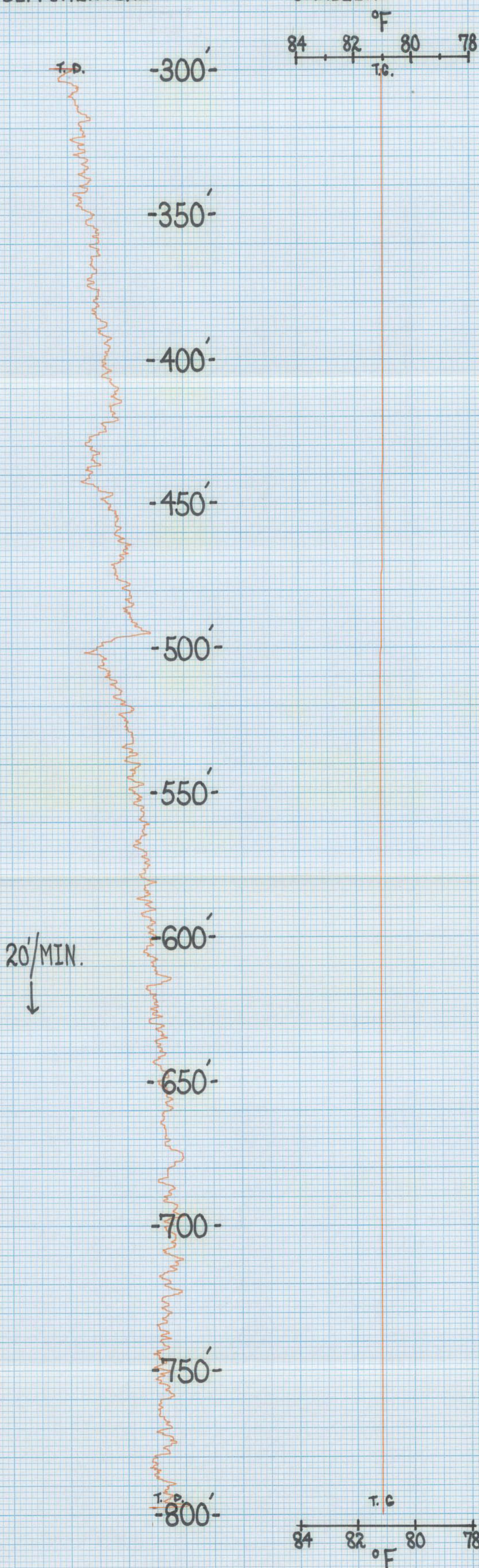
TYPE OF SURVEYS RUN

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

C-2031D

TEMPERATURE DIFFERENTIAL

TEMPERATURE GRADIENT



RECORDED CHARTED GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK
PRINTED IN U.S.A.
G339
RECORDED CHARTED GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK



WELL LOG

WELL LOCATION

County COLLIER
 Station I. D. 021000043
 Date 06/03/83 Well No. C-2031D
 Latitude 025°-57'-30" Longitude 081°-21'-11"
NW 1/4 NE 1/4 Section 07 Township 52S Range 30E
 Owner S.F.W.M.D. Phone _____
 Driller S.F.W.M.D. Date Drilled _____

DATUM

K.B. _____ L.S. _____ T.O.C. 0'

FLUID QUALITY

Date _____ Time _____ Source of Sample _____
 Cl _____ mg/l Type of Fluid _____
 Temp. _____ °C Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. _____ umhos/cm
 Logged By: S. ANDERSON Witnessed By: _____
 Comments: RUN 4 ON WELL

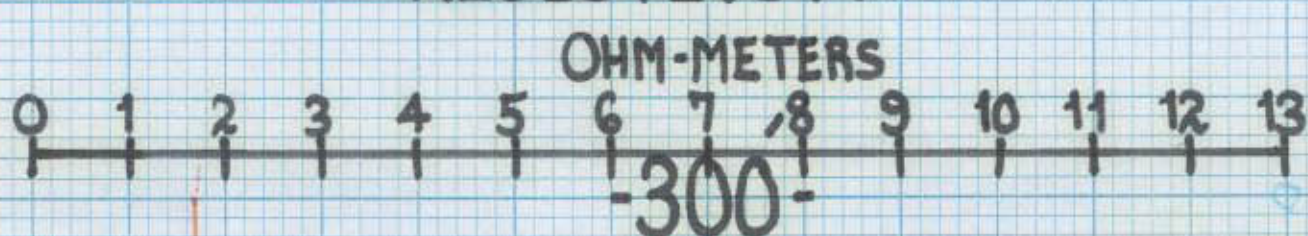
WELL CONSTRUCTION

Drilling Method: Rot Air CT Auger Other _____
 T. Depth - Driller 880' T. Depth - Logger 800'
 Casing Depth Driller 430' Casing Depth Logger 430'
 Bit Size _____ Casing Dia. I.D. 5.8"
 Hole Dia. 6" From 0' To 800' Dia. _____ From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.2"
 Type of Screen OPENHOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow _____ Pump _____

TYPE OF SURVEYS RUN

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

C-2031D
FLUID
RESISTIVITY



-350'

-400'

-450'

-500'

-550'

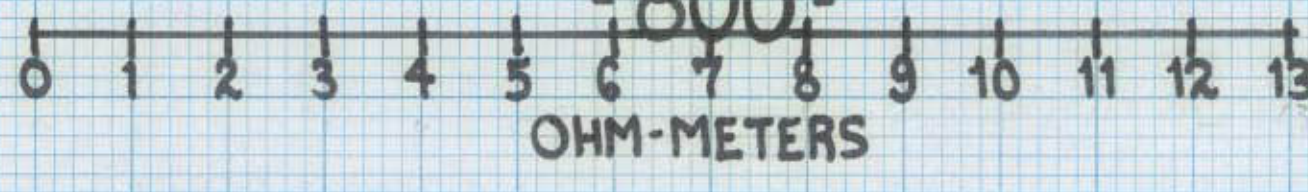
-600'

-650'

-700'

-750'

-800'



↑
20'/MIN.

RECORDING CHART GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK PRINTED IN U.S.A. 6339



WELL LOG

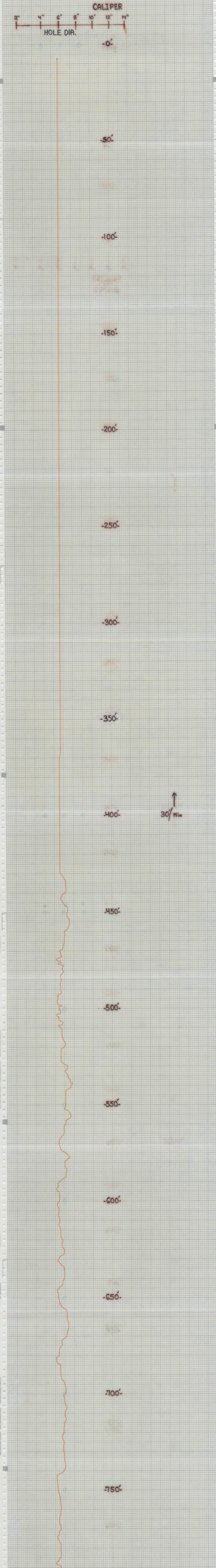
WELL LOCATION
 County COLLIER
 Station I. D. 021999943
 Date 02-11-81 Well No. C-2031D
 Latitude 025° 57' 30" Longitude 081° 21' 11"
 N. 1/4 NE 1/4 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION
 Drilling Method: Rot Air CT Auger Other _____
 T. Depth - Driller 880' T. Depth - Logger 890'
 Casing Depth Driller 430' Casing Depth Logger 430'
 Bit Size 5 1/8" Casing Dia. I.D. 5.8"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen open hole Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow 8600 GPM Pump _____

DATUM
 K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY
 Date 02-11-81 Time 1400 Source of Sample WELLHEAD
 Cl _____ mg/l Type of Fluid FORMATION WATER
 Temp. 81.2°F Field Density _____ °C
 T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DANENHAUER
 Comments: PART 3 OF 3 PARTS

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





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 02-11-81 Well No. C-2031D
Latitude 025°57'30" Longitude 081°21'11"
Section 07 Township 52S Range 30E
Owner _____ Phone 305-686-8800
Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size 5 1/2" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN MESH Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow 8600 GPM Pump _____

DATUM

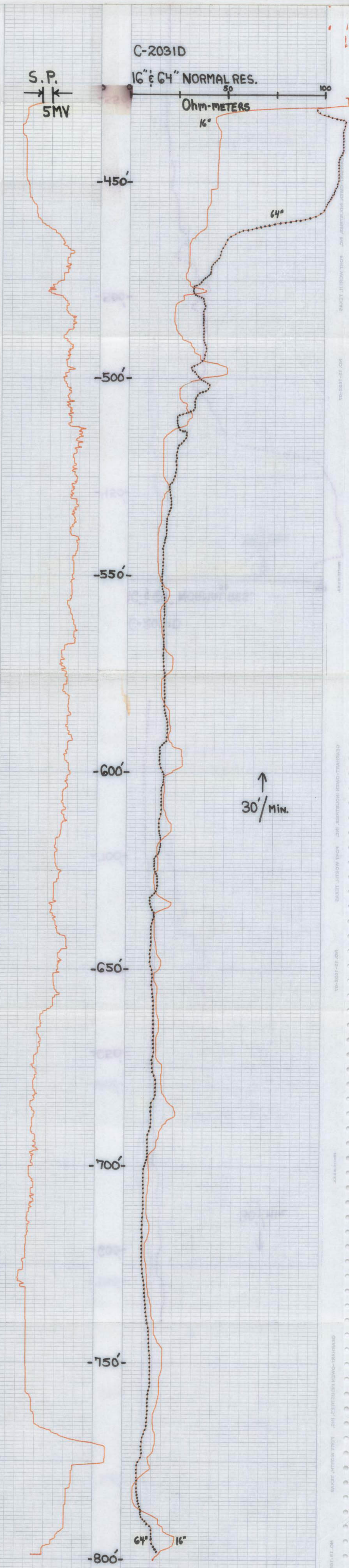
K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-81 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
Logged By: S. ANDERSON Witnessed By: P. DANENHOFER
Comments: PART 3 OF 3 PARTS

TYPE OF SURVEYS RUN

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





WELL LOG

WELL LOCATION

County COLLIER
 Station I. D. 021 0000 43
 Date 02-11-81 Well No. C-2031D
 Latitude 025° 57' 30" Longitude 081° 21' 11"
 Section 07 Township 52S Range 30E
 Owner _____ Phone 305-686-8800
 Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 880' T. Depth - Logger 800'
 Casing Depth Driller 430' Casing Depth Logger 430'
 Bit Size 5 1/4" Casing Dia. I.D. 5.8"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow 2600 GPM Pump _____

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-81 Time 1100 Source of Sample WELLHEAD
 Cl _____ mg/l Type of Fluid FORMATION WATER
 Temp. 81.2°F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 6,440 μ mhos/cm
 Logged By: S. ANDERSON Witnessed By: P. DAENHARDT
 Comments: PART 3 OF 3 PARTS

TYPE OF SURVEYS RUN

- | | | | |
|-------------------|-------------------------------------|---------------|-------------------------------------|
| Lateral 6' | <input checked="" type="checkbox"/> | Density | () |
| Caliper | <input checked="" type="checkbox"/> | ccl | () |
| Flow meter | <input checked="" type="checkbox"/> | Fluid Sampler | () |
| 16", 64" normals | <input checked="" type="checkbox"/> | Temperature | (X) |
| Neutron | <input checked="" type="checkbox"/> | Delta Temp. | <input checked="" type="checkbox"/> |
| Natural Gamma | <input checked="" type="checkbox"/> | SP | <input checked="" type="checkbox"/> |
| Fluid Resistivity | <input checked="" type="checkbox"/> | | |

C-2031D
 6' LATERAL

Ohm-METERS
 0 50 100

-450'

-500'

-550'

-600'

-650'

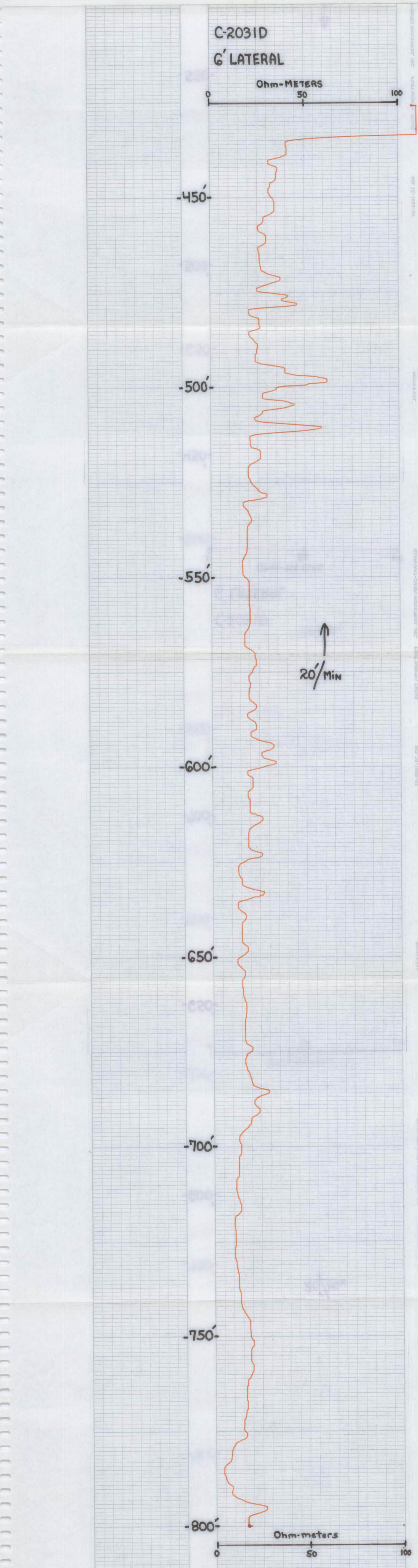
-700'

-750'

-800'

↑
 20'/Min

Ohm-meters
 0 50 100





WELL LOG

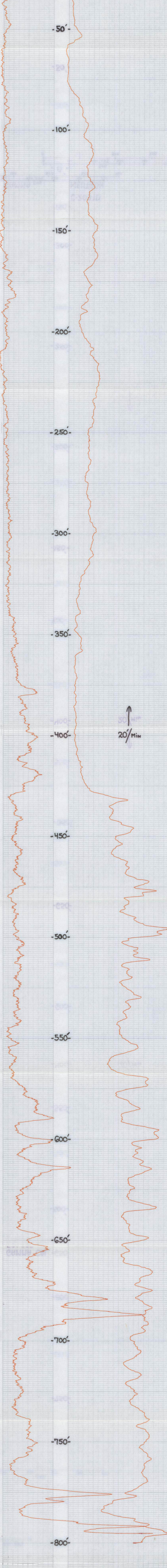
WELL LOCATION
 County COLLIER
 State I. D. 021 9999 43
 Date 02-11-81 Well No. C-2031D
 Lat. 025° 57' 30" Long. 081° 21' 11"
 N. NE 1/4 Section 07 Township 52S Range 30E
 Owner F.W.M.D. Phone 305-686-8800
 Driller F.W.M.D. Date Drilled 01-27-81

DATUM
 K.R. _____ L.S. 0.0 T.O.C. _____
 FLUID QUALITY
 Date 02-11-81 Time 1400 Source of Sample WELLHEAD
 Cl. _____ mg/l Type of Fluid FORMATION WATER
 Temp. 81.2°F Field Density _____ @ _____ °C
 T.D.S. _____ mg/l Spec. Cond. 6.440 umhos/cm
 Logged By: S. AMERSON Witnessed By: P. DANENHARDER
 Comments: PART 3 OF 3 PARTS

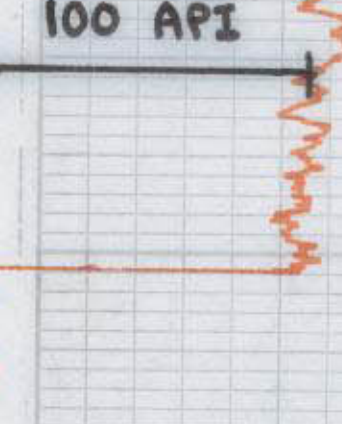
WELL CONSTRUCTION
 Drilling Method: Rot. Air CT Auger Other _____
 T. Depth - Driller 880' T. Depth - Logger 800'
 Casing Depth Driller 430' Casing Depth Logger 430'
 Bit Size 5 1/2" Casing Dia. I.D. 6.8"
 Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
 Type of Casing P.V.C. Casing Thickness 0.3"
 Type of Screen OPEN HOLE Screen Int. From _____ To _____
 Type of Packing _____ Well Use MONITOR
 Static Water Level _____ Date _____
 Yield Flow 400 GPM Pump _____

TYPE OF SURVEYS RUN
 Lateral 6'
 Caliper
 Flow meter
 12" 54" normals
 Neutron
 Natural Gamma
 Fluid Resistivity
 Density
 ccl
 Fluid Sampler
 Temperature
 Delta Temp.
 SP

C-2031D
 GAMMA cps NEUTRON



GAMMA CAL.
 500 CPS
 T.C.: 2



NEUTRON CAL.
 1000 CPS
 T.C.: 3





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 02-11-81 Well No. C-2031D
Latitude 025° 57' 30" Longitude 081° 21' 11"
N 1/4 Sec 10 E 1/4 Range 30E Section 07 Township 52S
Owner _____ Phone 305-686-8800
Driller S.F.W.M.D. Date Drilled 01-28-81

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

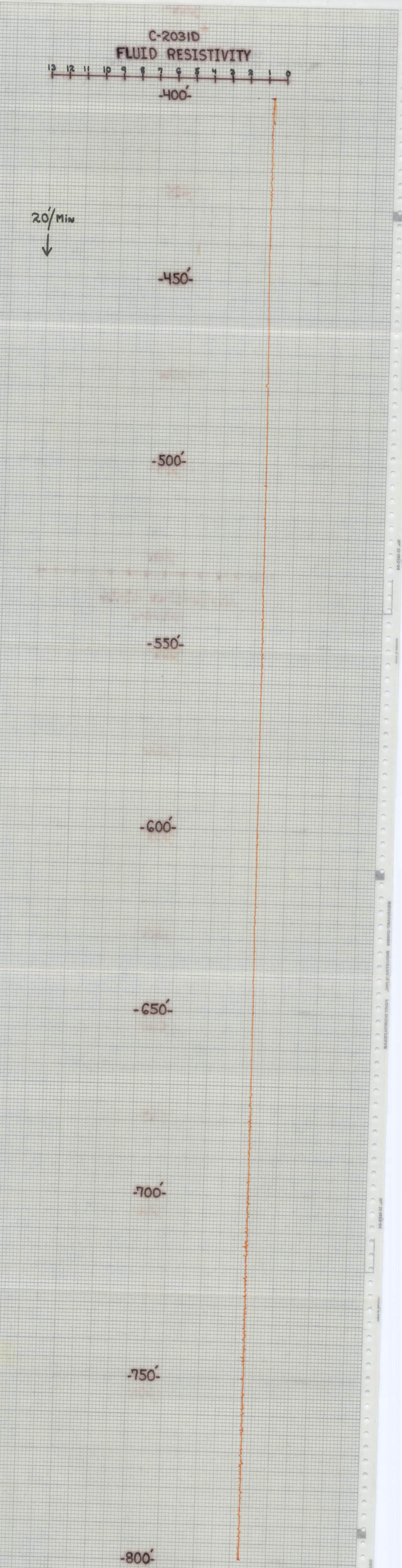
Date 02-11-81 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F * Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
Logged By: S. ANDERSON Witnessed By: P. DAENHARDER
Comments: PART 3 OF 3 PARTS

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size 5 1/4" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN MESH Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow 7600 GPM Pump _____

TYPE OF SURVEYS RUN

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





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 02L000043
Date 02-11-91 Well No. C-2031D
Latitude 025° 57' 30" Longitude 087° 21' 11"
Section 07 Township 52S Range 30E
Owner _____ Phone 305-686-8700
Driller S.F.W.M.D. Date Drilled 01-28-91

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-91 Time 1:00 Source of Sample WELL HEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6,440 μ mhos/cm
Logged By: S. ANDERSON Witnessed By: P. DANENHART

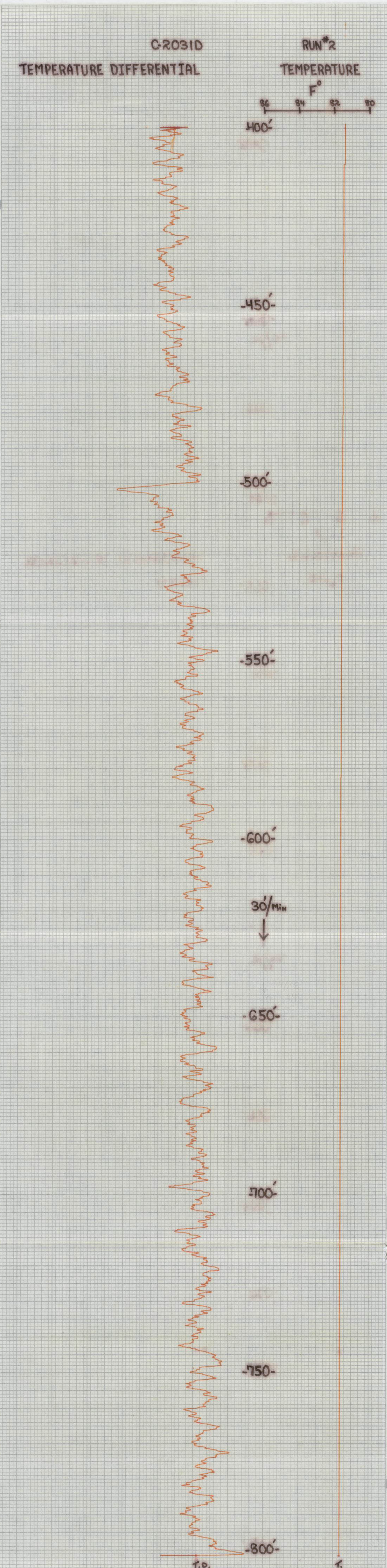
WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 820' T. Depth - Logger 800'
Casing Depth Driller 420' Casing Depth Logger 420'
Bit Size 5 1/4" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 420 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN MESH Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow 2600 GPM Pump _____

Comments: PART 3 OF 3 PARTS

TYPE OF SURVEYS RUN

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





WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021000043
Date 02-11-81 Well No. C-2031D
Latitude 025° 57' 30" Longitude 081° 21' 11"
NW 1/4 NE 1/4 SW 1/4 Section 07 Township 52S Range 30E
Owner _____ Phone 305-696-8800
Driller S.F.W.M.D. Date Drilled 01-29-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size 5 1/8" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 930 Dia. _____ From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN HOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow ~600 GPM Pump _____

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-81 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
Logged By: S. ANDERSON Witnessed By: P. DAENHARDER
Comments: PART 3 OF 3 PARTS

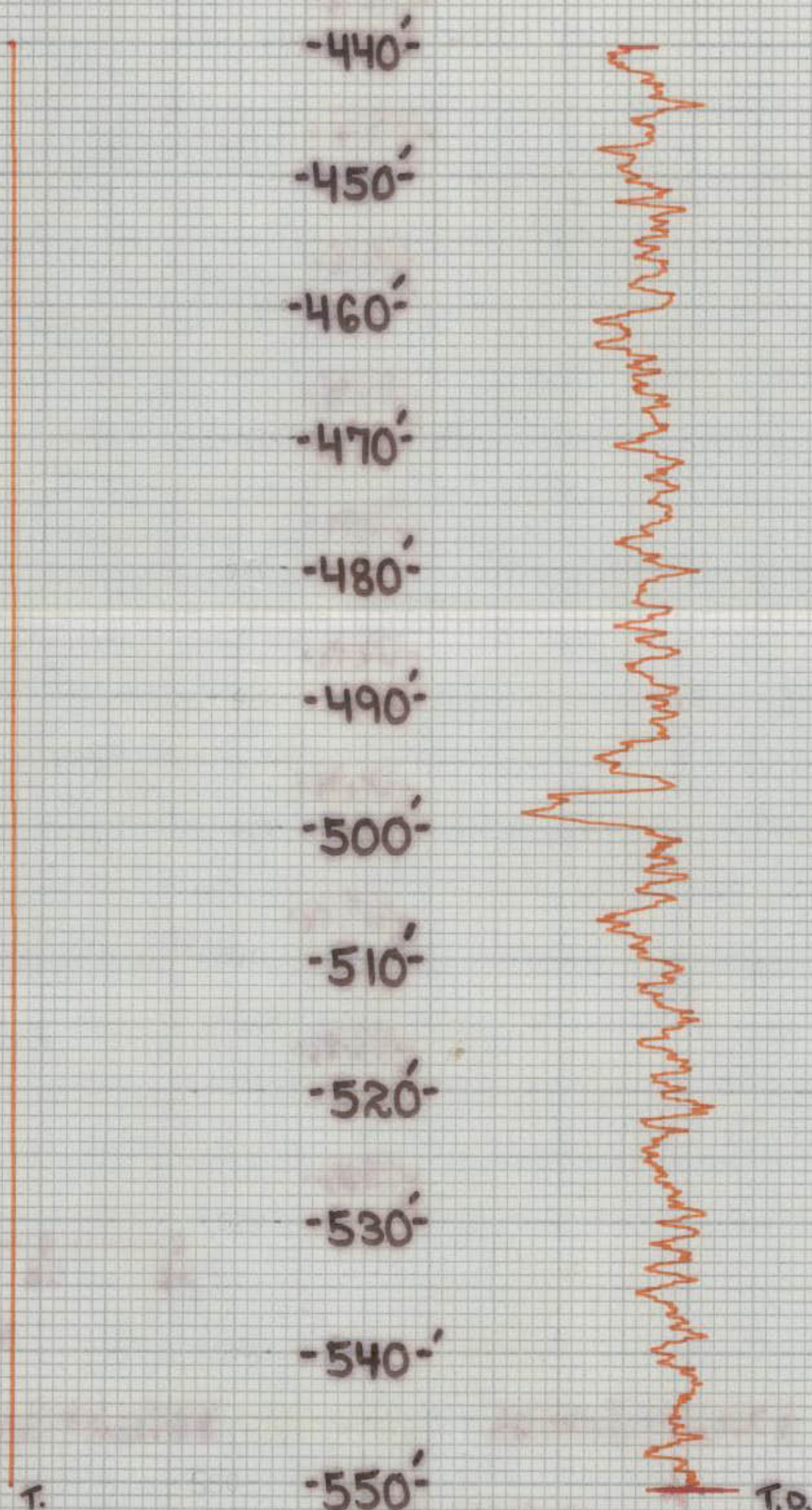
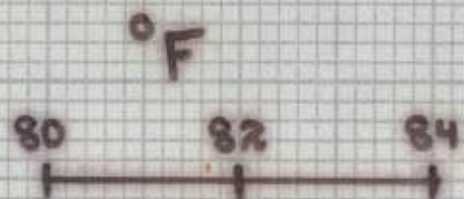
TYPE OF SURVEYS RUN

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

C-2031D

RUN #3

TEMPERATURE GRADIENT TEMPERATURE DIFFERENTIAL



↑
15'/min



WELL LOG

WELL LOCATION

County COLLIER
Station I. D. 021.000043
Date 02-11-81 Well No. C-2031D
Latitude 025° 51' 30" Longitude 081° 21' 11"
N 1/4 NE 1/4 Section 07 Township 52S Range 30E
Owner _____ Phone 305-696-8800
Driller S.F.W.M.D. Date Drilled 01-28-81

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other _____
T. Depth - Driller 880' T. Depth - Logger 800'
Casing Depth Driller 430' Casing Depth Logger 430'
Bit Size 5 1/8" Casing Dia. I.D. 5.8"
Hole Dia. 6.0 From 0 To 430 Dia. From _____ To _____
Type of Casing P.V.C. Casing Thickness 0.3"
Type of Screen OPEN HOLE Screen Int. From _____ To _____
Type of Packing _____ Well Use MONITOR
Static Water Level _____ Date _____
Yield Flow 3600 GPM Pump _____

DATUM

K.B. _____ L.S. 0.0 T.O.C. _____

FLUID QUALITY

Date 02-11-81 Time 1400 Source of Sample WELLHEAD
Cl _____ mg/l Type of Fluid FORMATION WATER
Temp. 81.2°F Field Density _____ @ _____ °C
T.D.S. _____ mg/l Spec. Cond. 6,440 umhos/cm
Logged By: S. ANDERSON Witnessed By: P. DAMENHADER
Comments: PART 3 OF 3 PARTS

TYPE OF SURVEYS RUN

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

