

# 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	SURVEY	YR	CARD	WELL NO.				COUNTY	LAT	LAT	LAT	LON	LON	LON	DEG	MIN	SEC	DEG	MIN	SEC	DEG	MIN	SEC
I. D.	DATE	C							DEG	MIN	SEC	DEG	MIN	SEC	DEG	MIN	SEC	DEG	MIN	SEC	DEG	MIN	SEC
0850000590	11784		W11	MF-36B				MARTIN	027	09	07	080	11	45									

## WELL LOCATION CARD TWO

1		17		20		37		39		42		45		61	
STATION	SURVEY	YR	CARD	QUARTERSECTIONS				SEC	TOWN-		WATER MANAGEMENT DISTRICT				
I. D.	DATE	C							SHIP	RANGE	PLANNING AREA				
			W12	NW1/4; NW1/4; SW1/4				2338	S4		UPPER EAST COAST				

## WELL DATUM CARD

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

## WELL OWNERSHIP CARD

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

## WELL ORIGIN CARD

1		17		20		37		54		71		76	
STATION	SURVEY	YR	CARD	DRILLER/ DRILLING COMPANY				OFFICE OF DRILLER (CITY)				DRILLING	DATE
I. D.	DATE	C										METHOD	COMPLETED
			W41										

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.	
0850.000.59	0.1.17.84	W5.1		1021		234	58		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)
		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
		W6.10	0	STEEL	60	0	234	02	

## 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
		W6.20	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
		W6.30	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.

# 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
0850000590	01.11.78	W71	S. ANDERSON	M. BRAUN	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	SURVEY	CARD	SAMPLE SOURCE	TYPE	DATE	TIME
I. D.	DATE	C	(WELLHEAD, ETC.)	FLUID	SAMPLED	SAMPLED
		W81	WELLHEAD	FORMATION	0.11.78	13.00

## 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	75.0°F			2150					120	

## 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	TWO TEMP LOGS RUN		

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.



WELL LOG

WELL LOCATION

County MARTIN  
 Station I. D. 0 8 5 0 0 0 5 9  
 Date 01/17/84 Well No. MF-36B  
 Latitude 27° 09' 07" Longitude 80° 11' 45"  
 NW 1/4 SW 1/4 Section 23 Township 38S Range 41E  
 Owner ROTHMAN Phone \_\_\_\_\_  
 Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 1021'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 234'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 5.8"  
 Hole Dia. 6" From 0' To 1021' Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing STEEL Casing Thickness 0.2"  
 Type of Screen OPEN HOLE Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use ABANDONED  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 2.0'

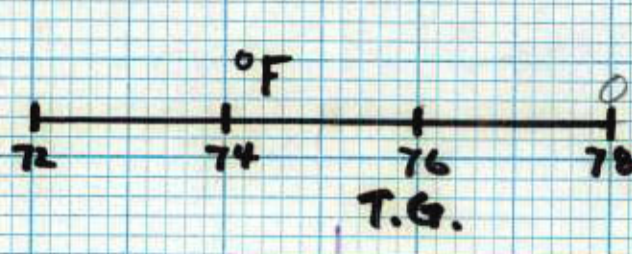
FLUID QUALITY

Date 01/17/84 Time 1300 Source of Sample WELLHEAD  
 Cl 2150 mg/l Type of Fluid FORMATION WATER  
 Temp. 75° F @ \_\_\_\_\_ Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. \_\_\_\_\_ μmhos/cm  
 Logged By: S. ANDERSON Witnessed By: M. BRAUN  
 Comments: TWO TEMP. LOGS RUN.

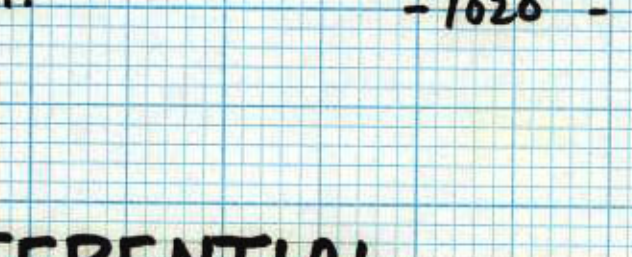
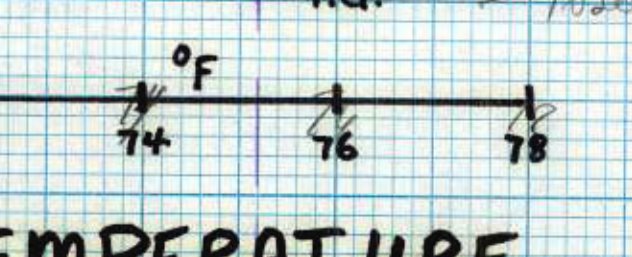
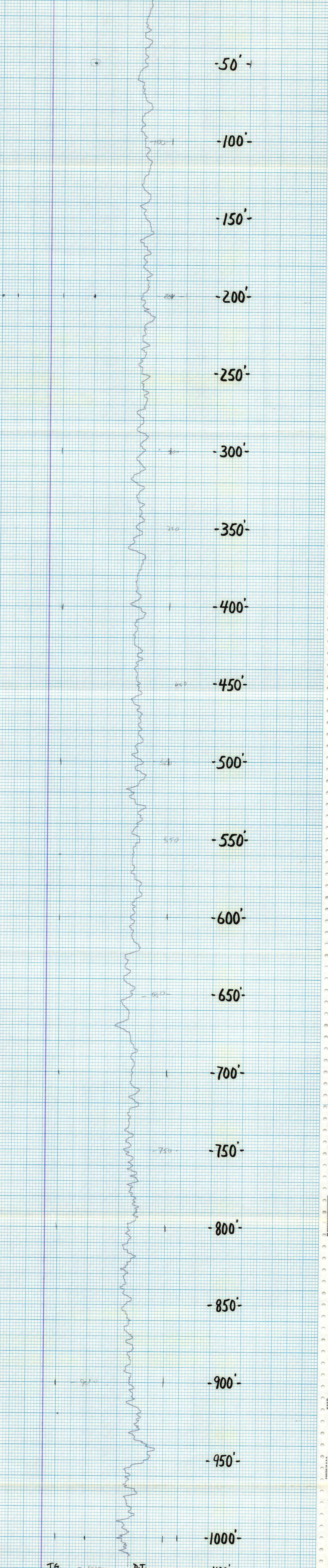
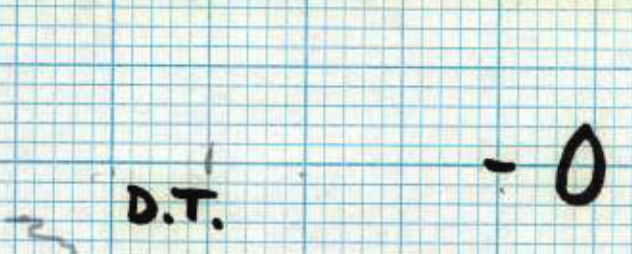
TYPE OF SURVEYS RUN

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

TEMPERATURE GRADIENT



DIFFERENTIAL TEMPERATURE



TEMPERATURE GRADIENT

DIFFERENTIAL TEMPERATURE

ROTHMAN WELL

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



WELL LOG

WELL LOCATION

County MARTIN  
 Station I. D. 0 8 5 0 0 0 5 9  
 Date 01/17/84 Well No. MF-368  
 Latitude 27° 09' 07" Longitude 80° 11' 45"  
N 1/4 NW 1/4 SW 1/4 Section 23 Township 38S Range 41E  
 Owner ROTHMAN Phone \_\_\_\_\_  
 Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

WELL CONSTRUCTION

Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 1021'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 234'  
 Bit Size \_\_\_\_\_ Casing Dia. I.D. 5.8"  
 Hole Dia. 6" From 0' To 1021' Dia. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Casing STEEL Casing Thickness 0.2"  
 Type of Screen OPEN HOLE Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use ABANDONED  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

DATUM

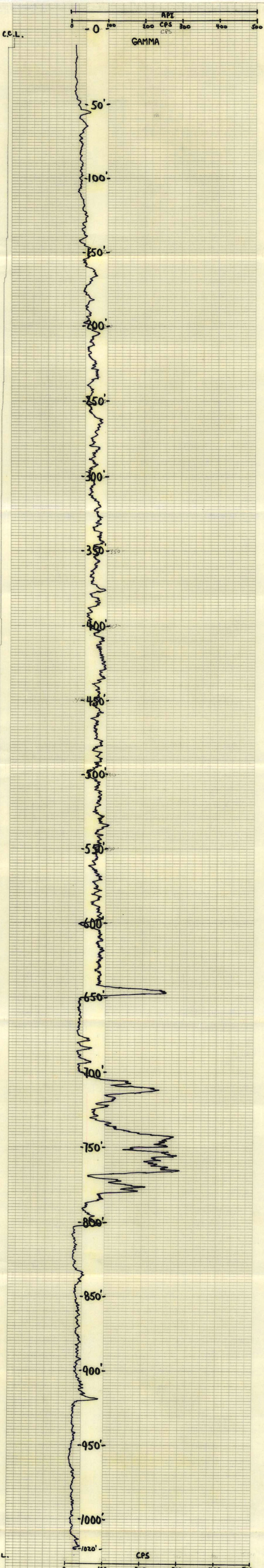
K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 2.0'

FLUID QUALITY

Date 01/17/84 Time 1300 Source of Sample WELL HEAD  
 Cl 2150 mg/l Type of Fluid FORMATION WATER  
 Temp. 75° F XX Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. \_\_\_\_\_ umhos/cm  
 Logged By: S. ANDERSON Witnessed By: M. BRAUN  
 Comments: TWO TEMP. LOGS RUN.

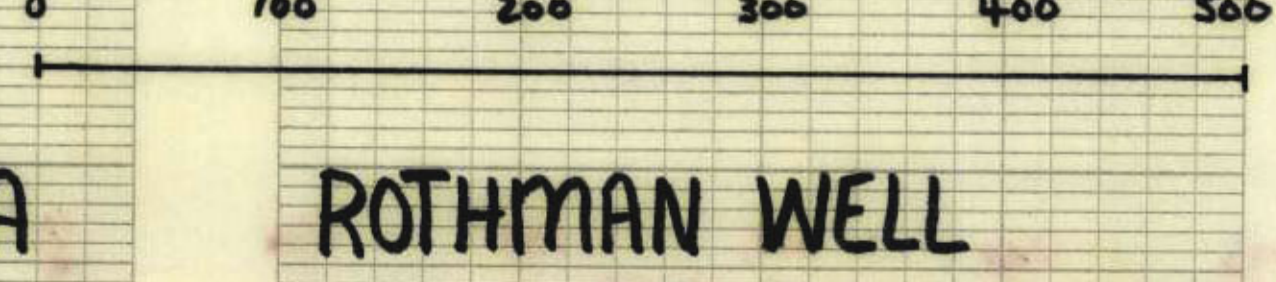
TYPE OF SURVEYS RUN

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



GAMMA  
 500 cps  
 T.C.-1

ROTHMAN WELL



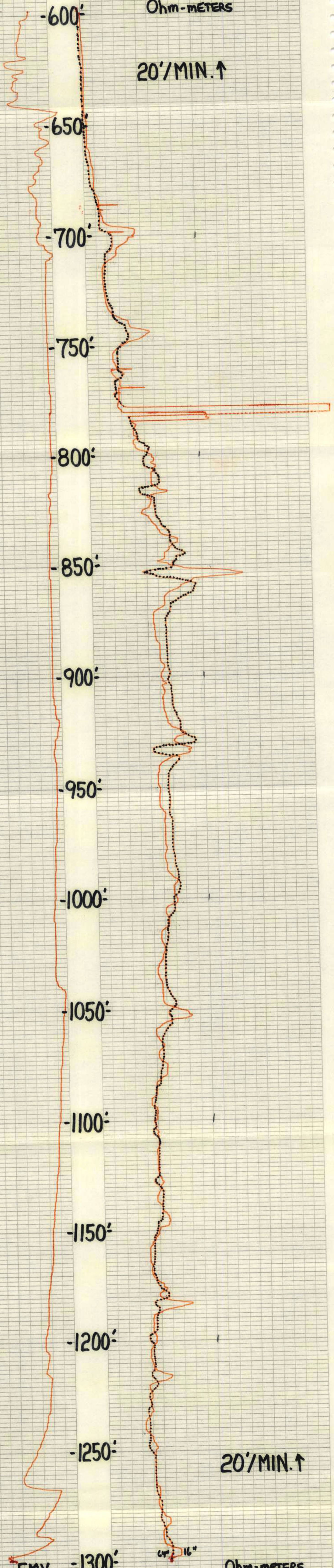
S.P.

16" + 64" NORMAL RES.

5MV  
→ ←

0 50 100  
Ohm-METERS

20'/MIN. ↑



5MV  
→ ←

0 50 100  
Ohm-METERS

20'/MIN. ↑

S.P.

16" + 64" NORMAL RES.



WELL LOG

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 Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 2.0'

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 Temp. 75° F Field Density @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. \_\_\_\_\_ μmhos/cm  
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WELL CONSTRUCTION

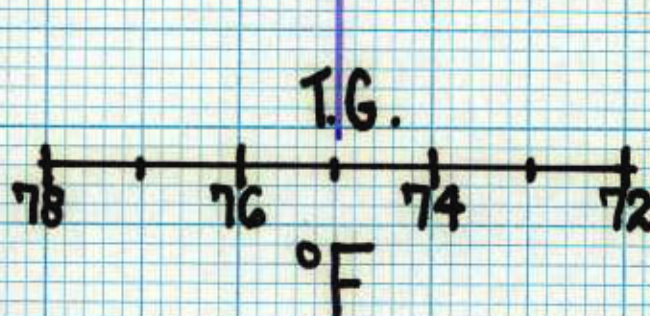
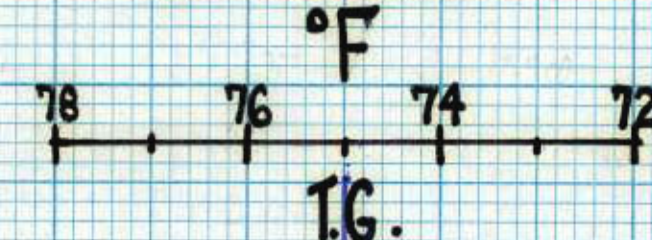
Drilling Method: Rot. Air CT Auger Other \_\_\_\_\_  
 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 1021'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 234'  
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 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

TYPE OF SURVEYS RUN

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

TEMPERATURE DIFFERENTIAL GRADIENT

0'  
50'  
100'  
150'  
200'  
250'  
300'  
350'  
400'  
450'  
500'  
550'  
600'  
650'  
700'  
750'  
800'  
850'  
900'  
950'  
1000'



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WELL LOG

WELL LOCATION

County MARTIN  
 Station I. D. 0 8 5 0 0 0 5 9  
 Date 01/17/84 Well No. MF-36B  
 Latitude 27° 09' 07" Longitude 80° 11' 45"  
NW 1/4 NW 1/4 SW 1/4 Section 23 Township 38S Range 41E  
 Owner ROTHMAN Phone \_\_\_\_\_  
 Driller \_\_\_\_\_ Date Drilled \_\_\_\_\_

DATUM

K.B. \_\_\_\_\_ L.S. \_\_\_\_\_ T.O.C. 2.0'

FLUID QUALITY

Date 01/17/84 Time 1300 Source of Sample WELL HEAD  
 Cl 2150 mg/l Type of Fluid FORMATION WATER  
 Temp. 75° F Field Density \_\_\_\_\_ @ \_\_\_\_\_ °C  
 T.D.S. \_\_\_\_\_ mg/l Spec. Cond. \_\_\_\_\_ μmhos/cm  
 Logged By: S. ANDERSON Witnessed By: M. BRAUN  
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WELL CONSTRUCTION

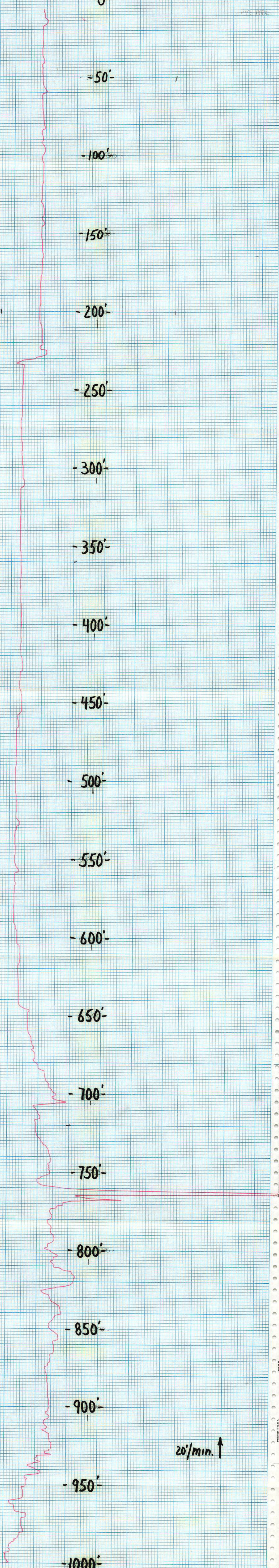
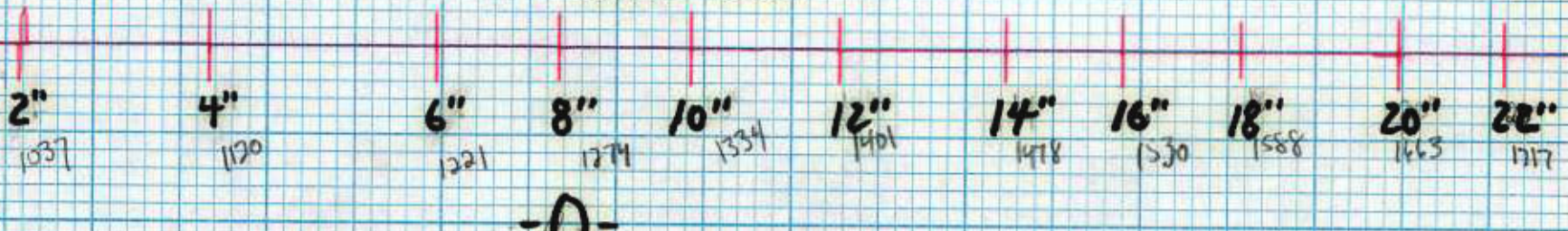
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 T. Depth - Driller \_\_\_\_\_ T. Depth - Logger 1021'  
 Casing Depth Driller \_\_\_\_\_ Casing Depth Logger 234'  
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 Type of Casing STEEL Casing Thickness 0.2"  
 Type of Screen OPEN HOLE Screen Int. From \_\_\_\_\_ To \_\_\_\_\_  
 Type of Packing \_\_\_\_\_ Well Use ABANDONED  
 Static Water Level \_\_\_\_\_ Date \_\_\_\_\_  
 Yield Flow \_\_\_\_\_ Pump \_\_\_\_\_

TYPE OF SURVEYS RUN

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

CALIPER

HOLE DIA.



MARTIN Co  
 WA - ROTHMAN WELL

CALIPER

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