U. S. DEPARTMENT OF ENERGY
MORGANTOWN ENERGY TECHNOLOGY CENTER
c/o EASTERN GAS SHALES PROJECT
P. O. BOX 880
MORGANTOWN, W.VA. 26505

PERMIT NO [illegible]

BIRDWELL

Gamma-Guard Log

COMPANY MITCHELL ENERGY CORPORATION

WELL WHITE-PRICE-NEWBERRY UNIT 1-7

FIELD UN-NAMED

COUNTY GALLIA **STATE** OHIO

LOCATION: 2325'SL & 575' WL OF
SEC. 11
WALNUT TOWNSHIP

SEC. **TWP.** **RGE.**

OTHER SERVICES:
V3D
DBC/NBC/GRS

PERMANENT DATUM GROUND LEVEL **ELEV.** 734
LOG MEASURED FROM K.B. 11 **FT. ABOVE PERM. DATUM**
DRILLING MEASURED FROM KELLY BUSHING

ELEV. K.B. 745
D.F. 744
G.L. 734

DATE	10-6-79			
RUN NO.	ONE			
DEPTH—DRILLER	2770			
DEPTH—LOGGER	2770			
BTM. LOG INTER.	2764			
TOP LOG INTER.	SURF			
CASING—DRILLER	8 5/8@ 510	@	@	@
CASING—LOGGER	508			
BIT SIZE	7 7/8			
TYPE FLUID IN HOLE	KCL MUD			
LIQUID LEVEL	200			
DENS. | VISC.	8.6 | 29			
pH | FLUID LOSS	11 | 20 ml	ml	ml	ml
SOURCE OF SAMPLE	MUD PIT			
Rm @ MEAS. TEMP.	.12 @75 °F	@ °F	@ °F	@ °F
Rmf @ MEAS. TEMP.	.11 @80 °F	@ °F	@ °F	@ °F
Rmc @ MEAS. TEMP.	.14 @80 °F	@ °F	@ °F	@ °F
SOURCE Rmf | Rmc	MEAS | MEAS			
Rm @ B.H.T.	.093 @97 °F	@ °F	@ °F	@ °F
TIME SINCE CIRC.	23 HRS.			
MAX. REC. TEMP.	97 °F	°F	°F	°F
EQUIP. | LOCATION	3343 | CHARLESTON			
RECORDED BY	WAGONER			
WITNESSED BY	MR. LYNN			

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES

DATE | SAMPLE NO.		
DEPTH — DRILLER		
TYPE FLUID IN HOLE		
LIQUID LEVEL		
DENS. | VISC.		
pH | FLUID LOSS	cc	cc
SOURCE OF SAMPLE		
Rm @ MEAS. TEMP.	@ °F	@ °F
Rmf @ MEAS. TEMP.	@ °F	@ °F
Rmc @ MEAS. TEMP.	@ °F	@ °F
SOURCE Rmf | Rmc		
Rm @ B. H. T.	@ °F	@ °F
Rmf @ B. H. T.	@ °F	@ °F
Rmc @ B. H. T.	@ °F	@ °F

LOGGING DATA

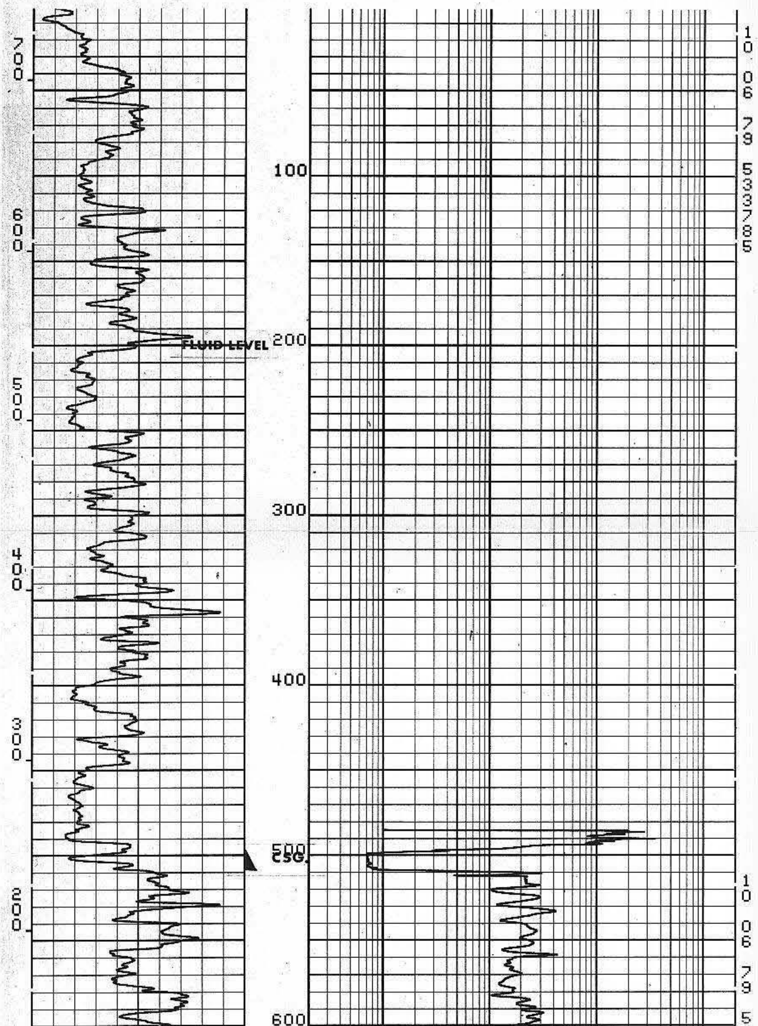
GENERAL					GAMMA RAY		
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN	T. C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.
ONE	SURF	2764	60	1	3	0	2

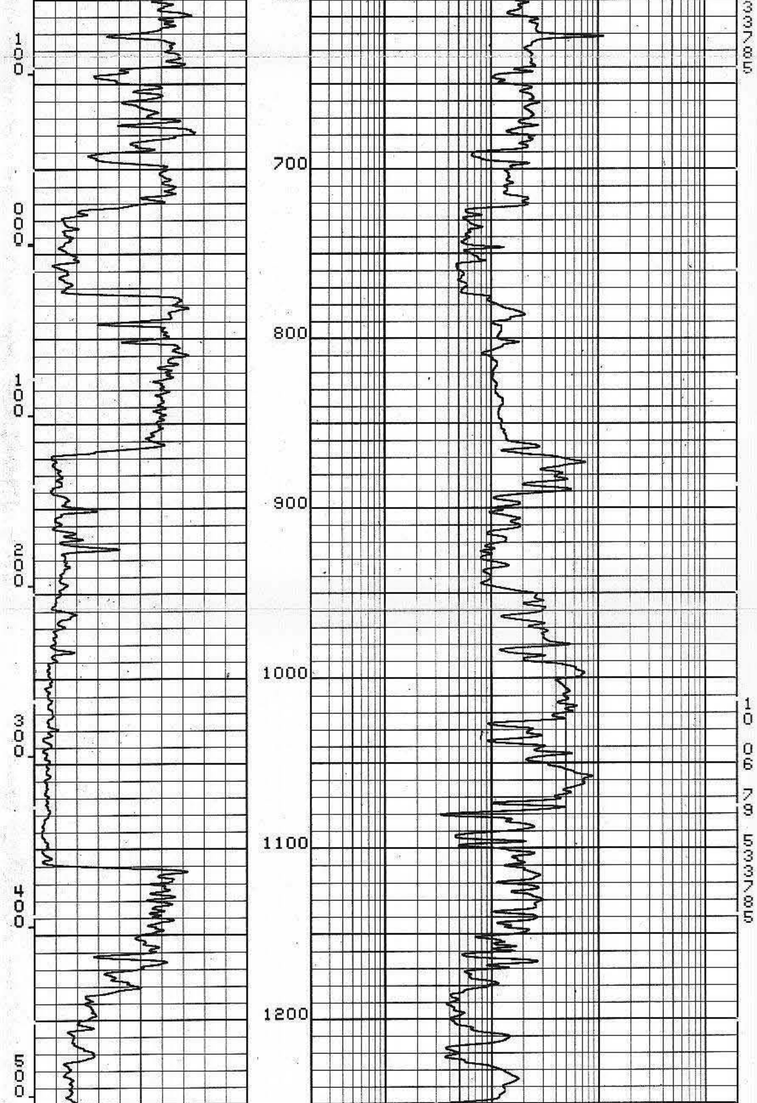
EQUIPMENT DATA

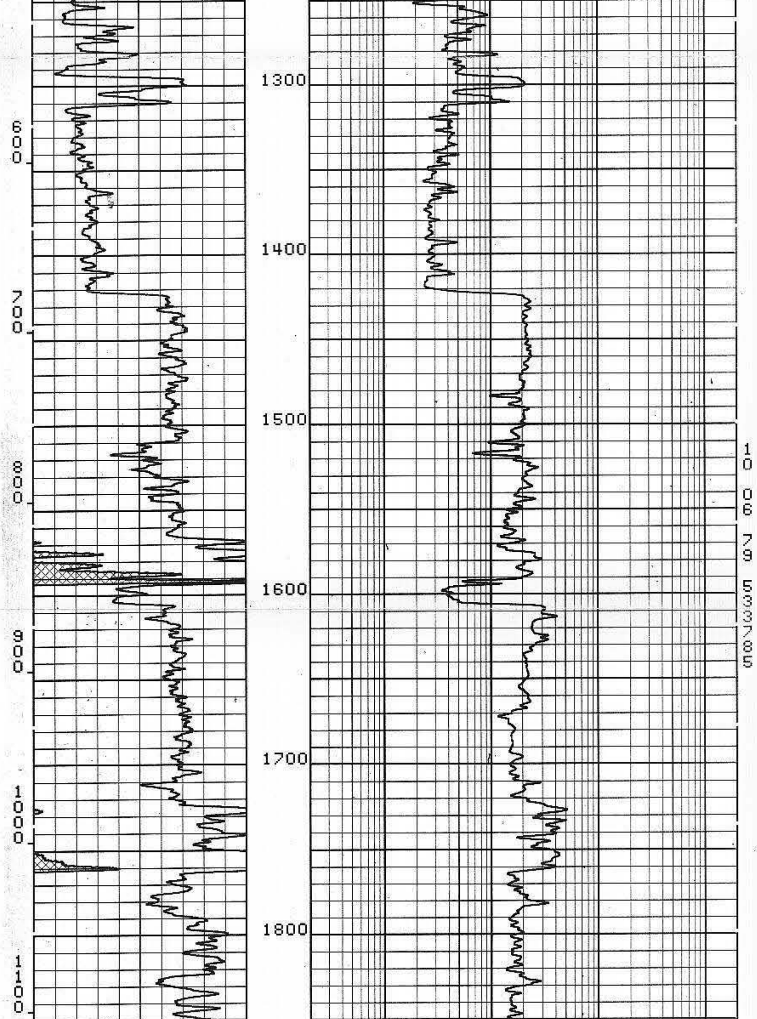
GAMMA RAY		GUARD	
RUN NO.	ONE	RUN NO.	ONE
SONDE MODEL NO.	LAAH-6001	SONDE MODEL NO.	LBBE-6001
SONDE SERIAL NO.	35	SONDE SERIAL NO.	3
DIAMETER	3 5/8	DIAMETER	3 5/8
		PANEL MODEL NO.	LBBE-1001
		PANEL SERIAL NO.	1

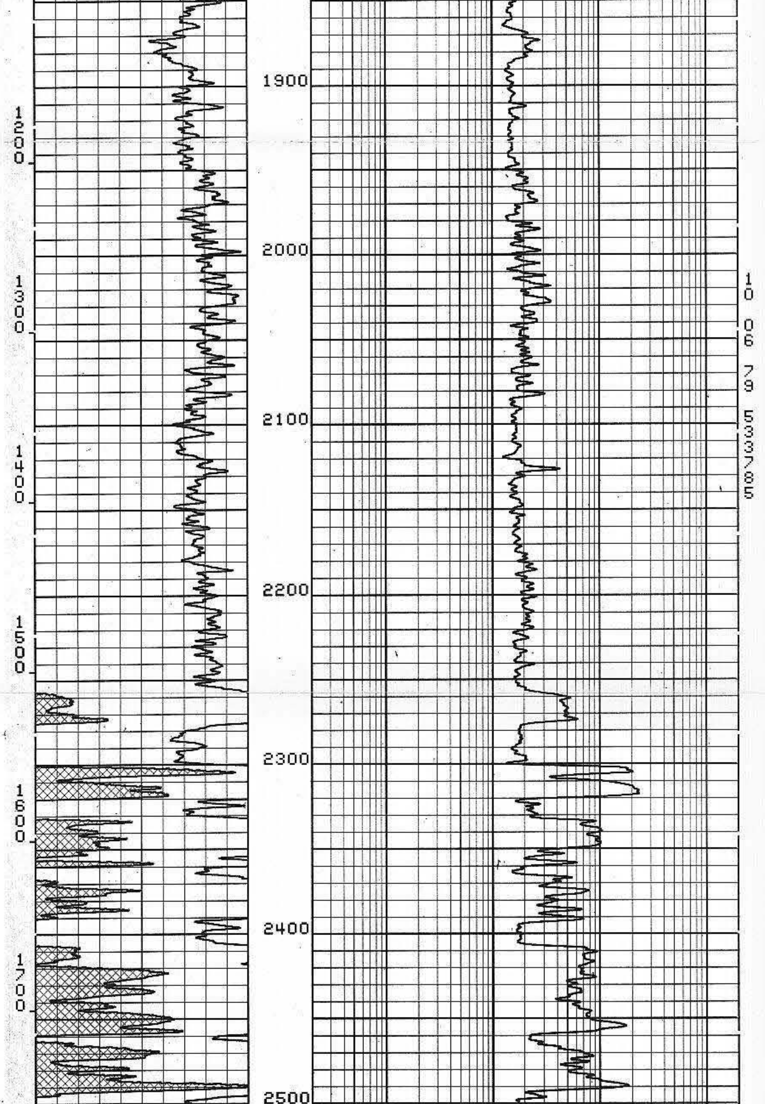
REMARKS: NA Means not available.

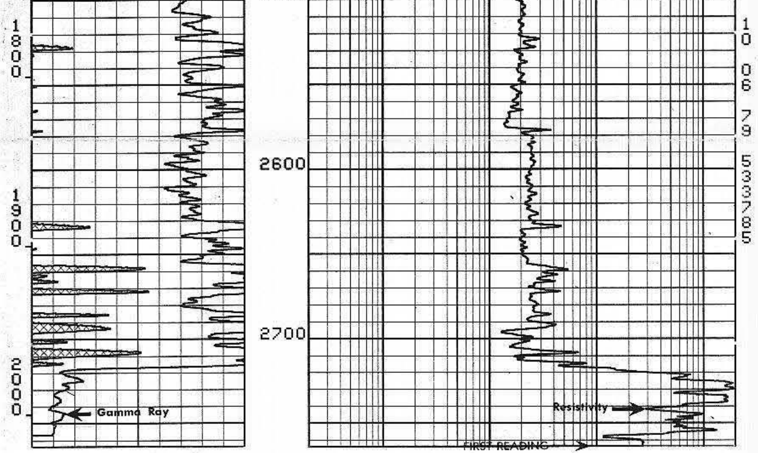
GAMMA RAY API UNITS	DEPTH	RESISTIVITY OHMS M²/M
0 — 200		GUARD LOG .2 — 20 — 2000

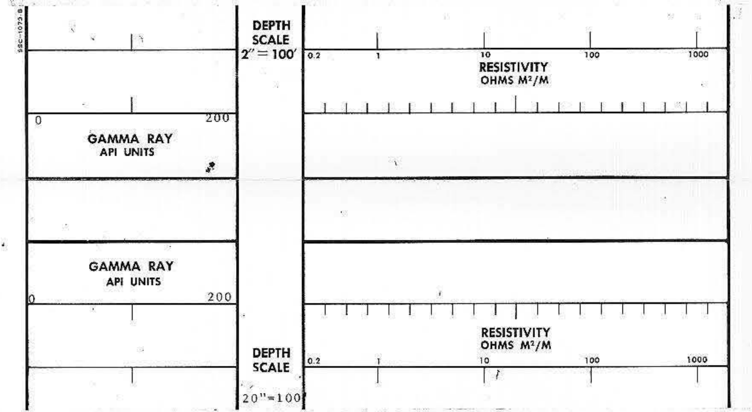


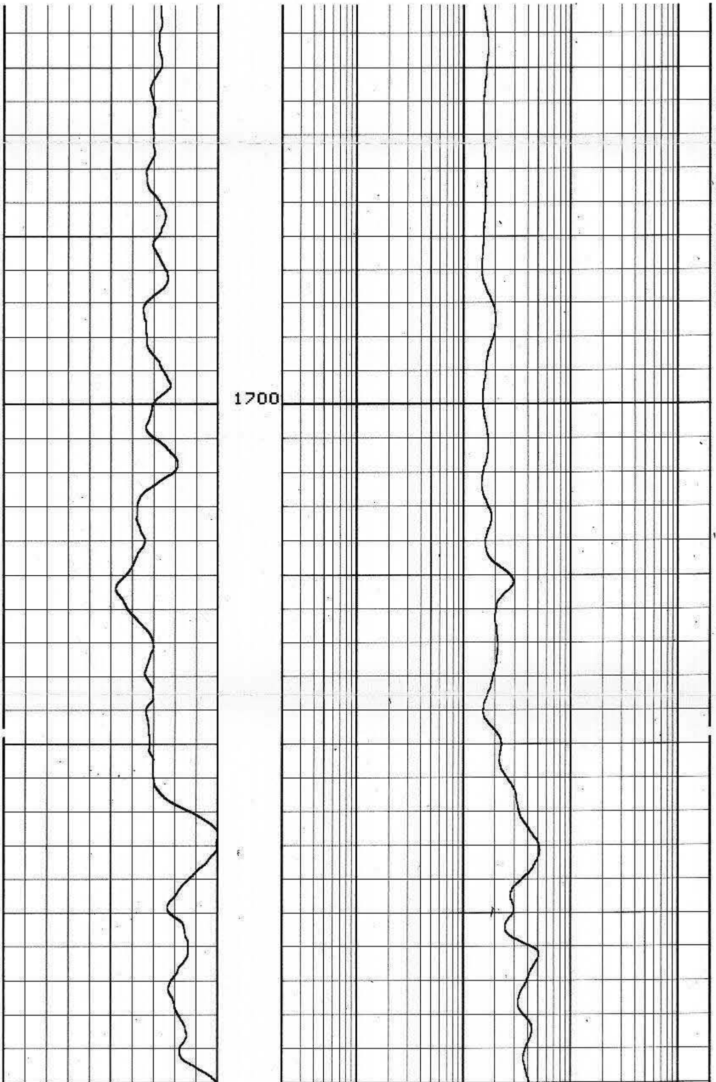









SSC-1073-B
DEPTH SCALE 2" = 100'
0.2
1
10
100
1000
RESISTIVITY OHMS M²/M
0
200
GAMMA RAY API UNITS
GAMMA RAY API UNITS
0
200
RESISTIVITY OHMS M²/M
DEPTH SCALE
0.2
1
10
100
1000
20"=100'



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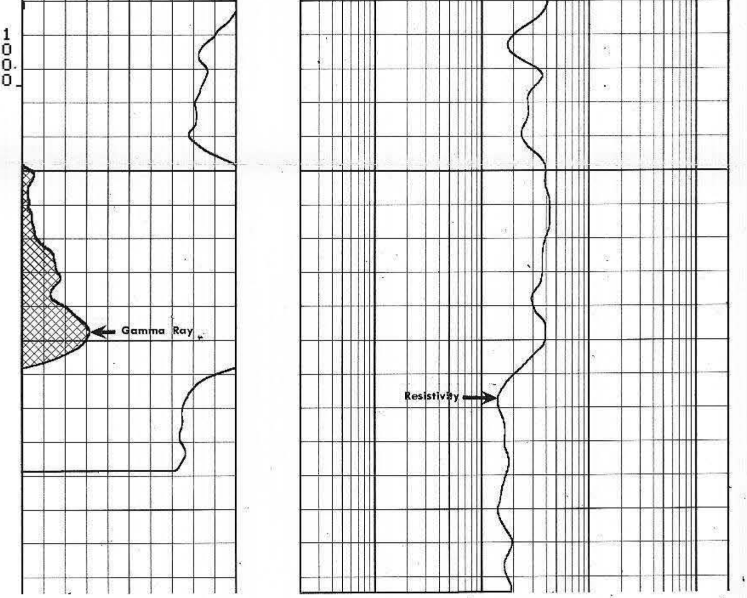

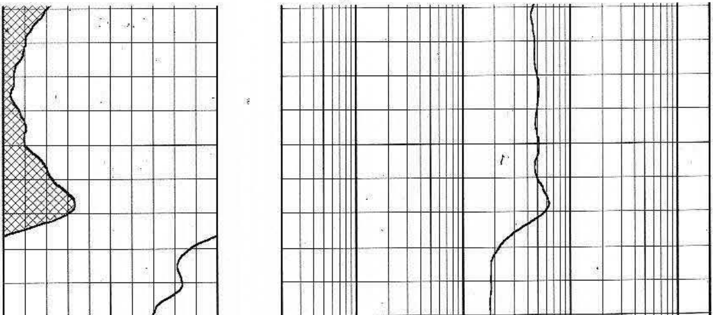

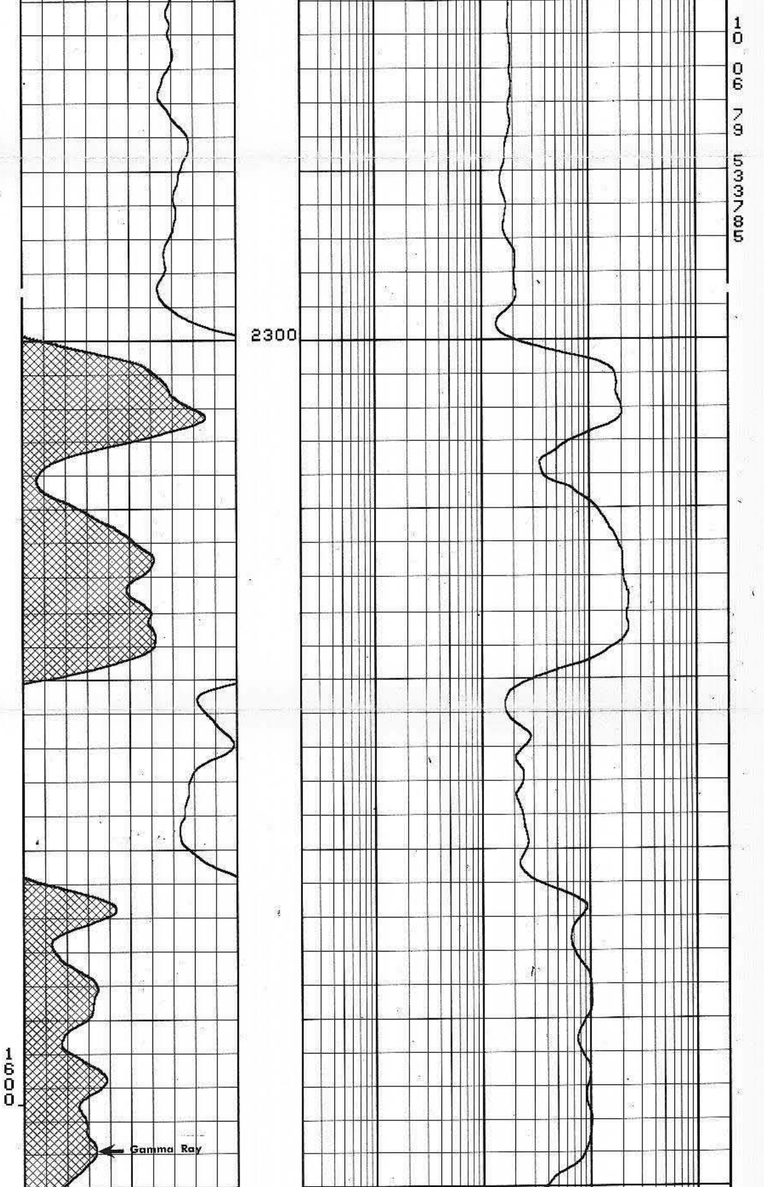

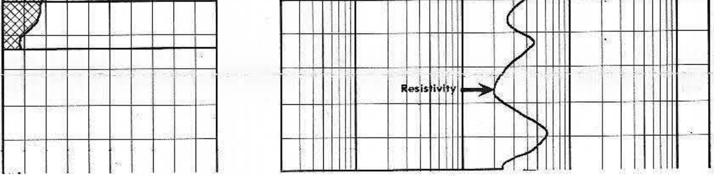

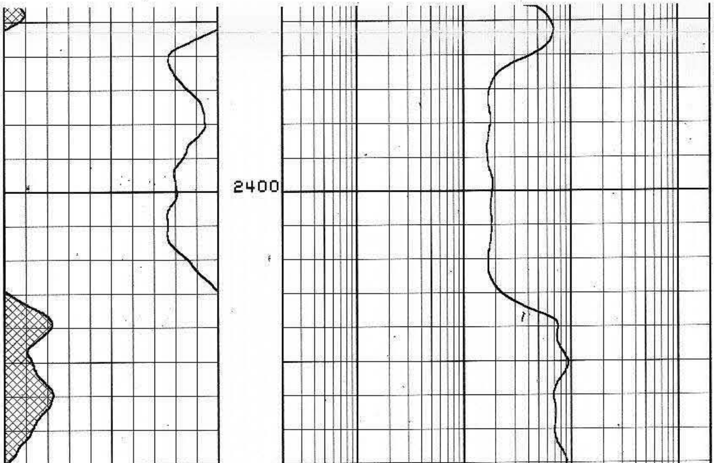

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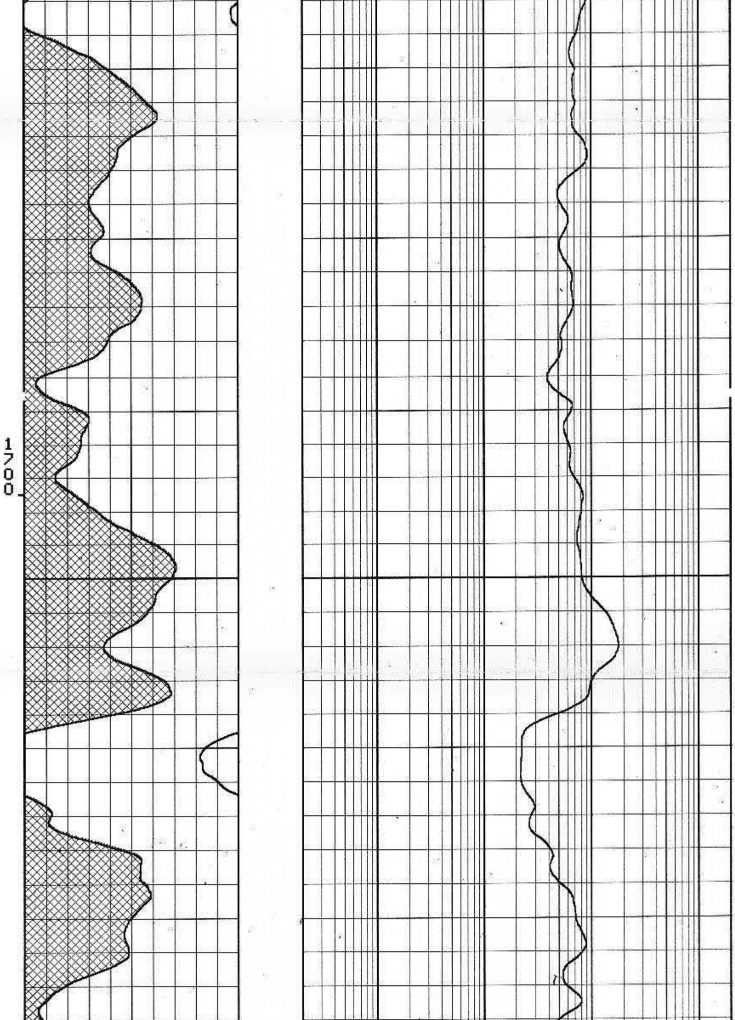
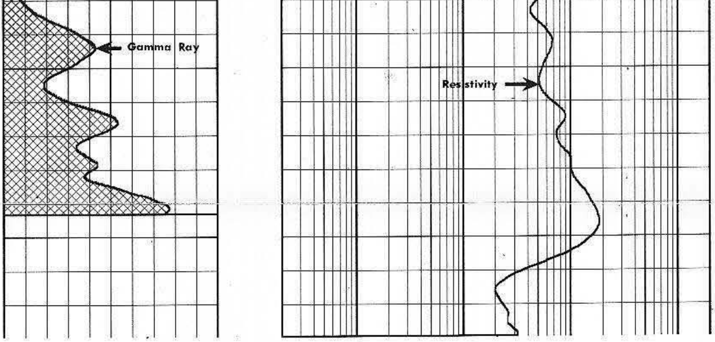
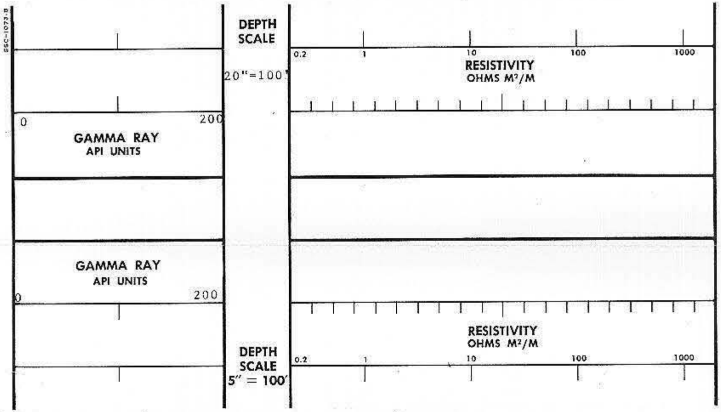
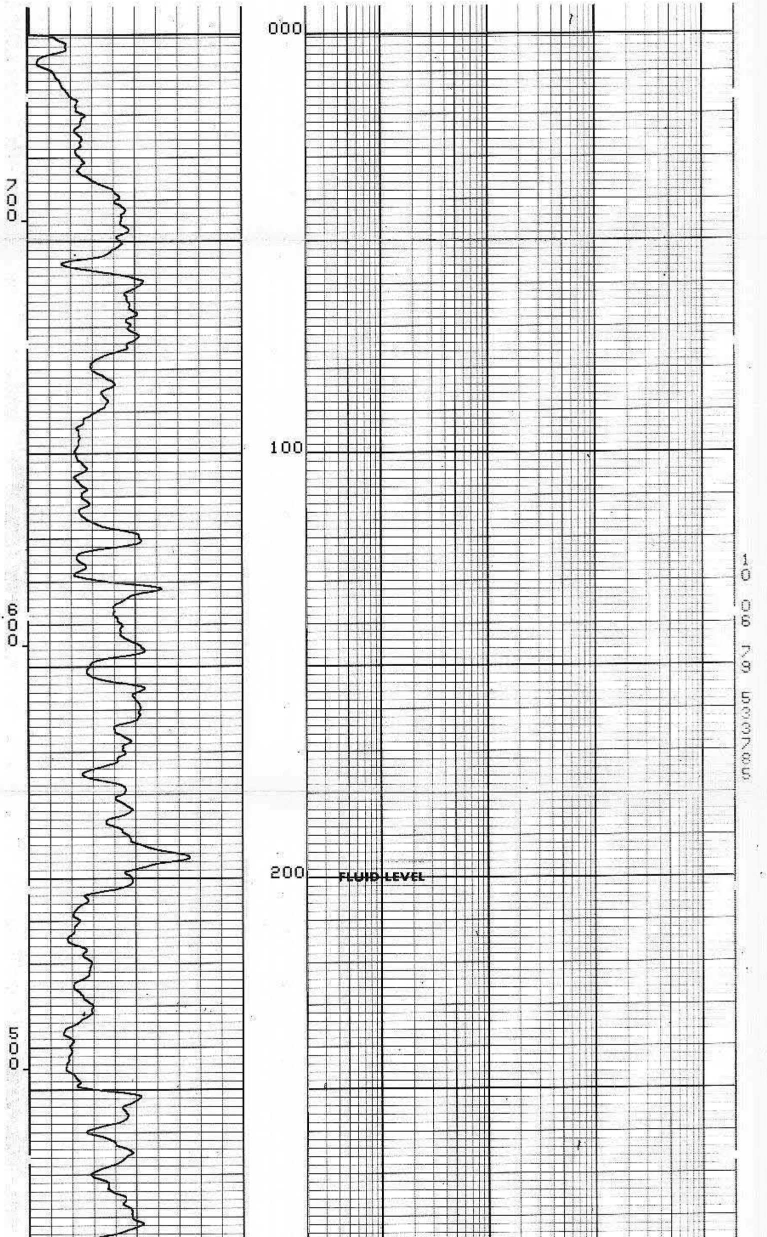
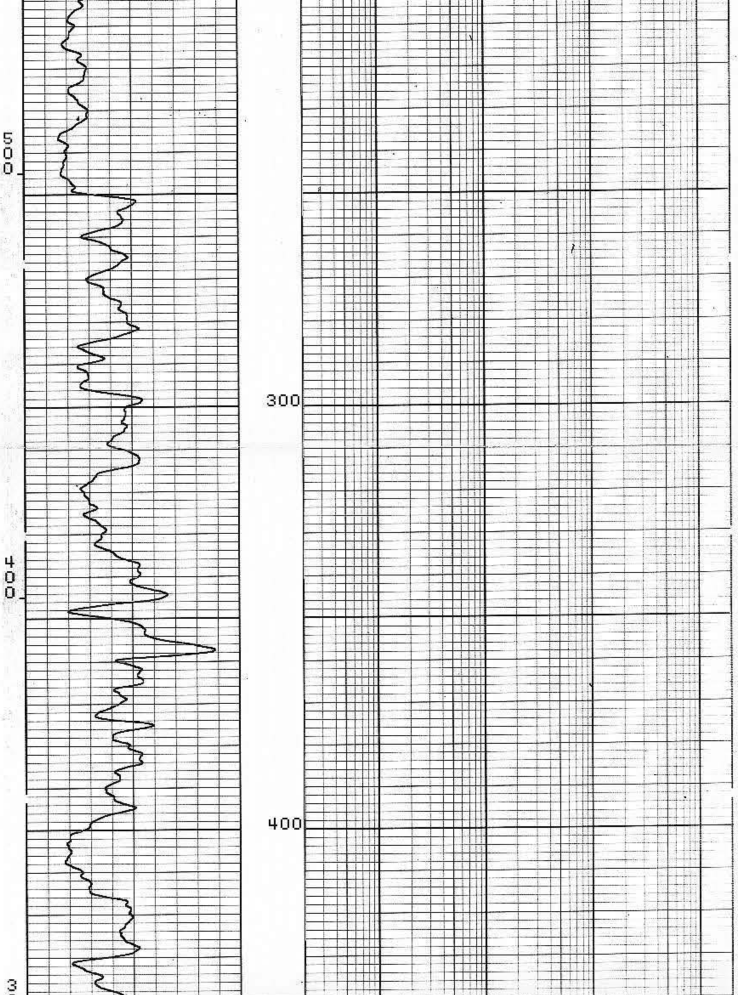
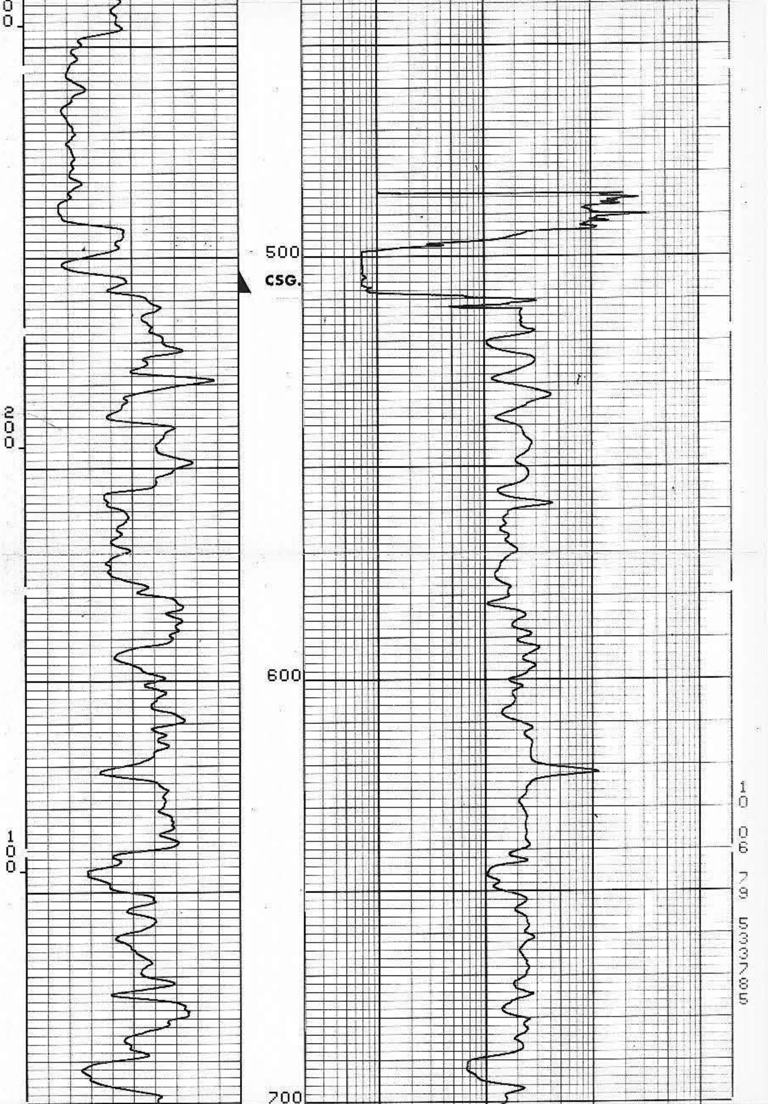


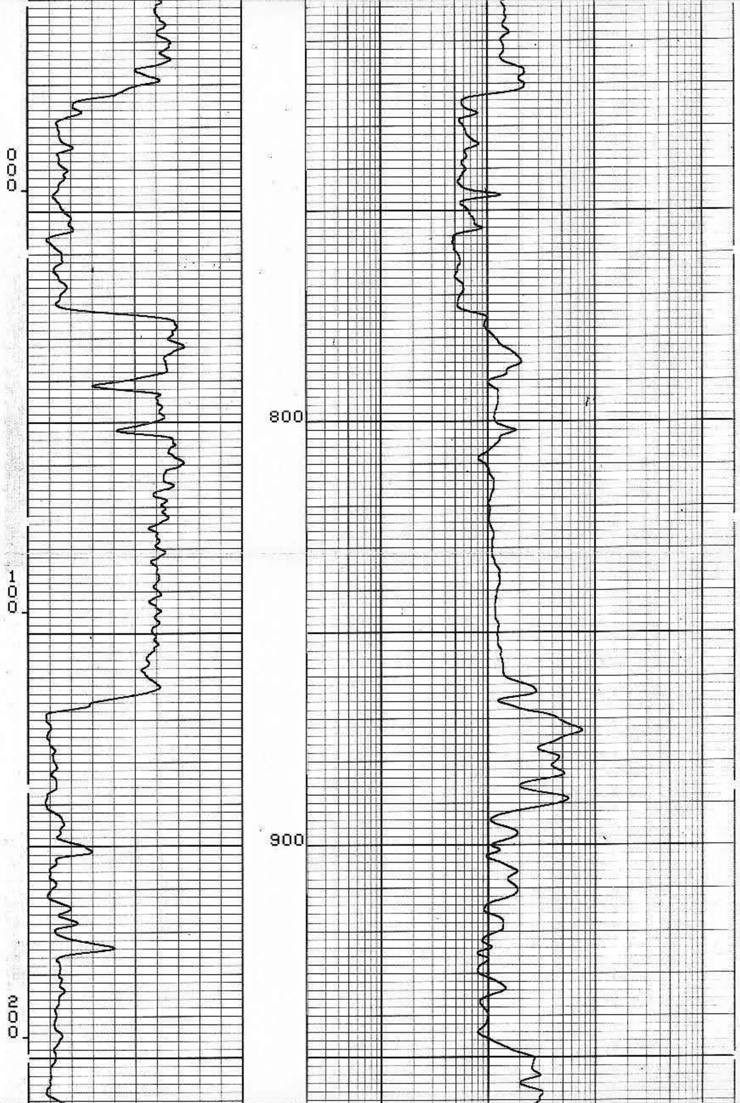


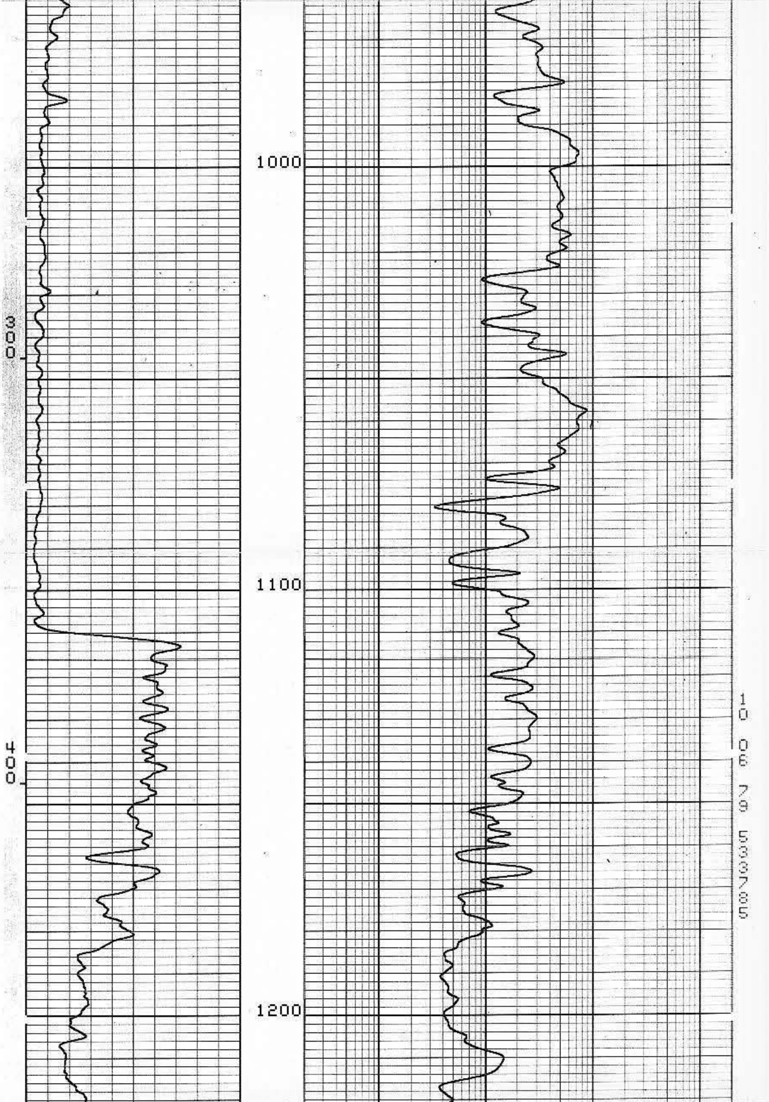

SSC-1073-B
DEPTH SCALE
20"=100'
0
200
GAMMA RAY
API UNITS
0.2
1
10
100
1000
RESISTIVITY
OHMS M²/M
GAMMA RAY
API UNITS
0
200
RESISTIVITY
OHMS M²/M
0.2
1
10
100
1000
DEPTH SCALE
5" = 100'

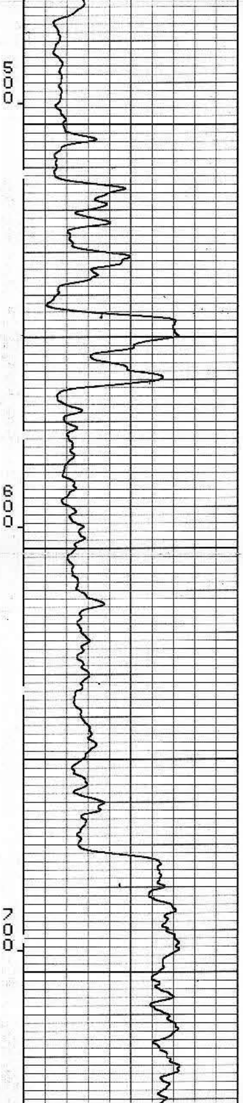


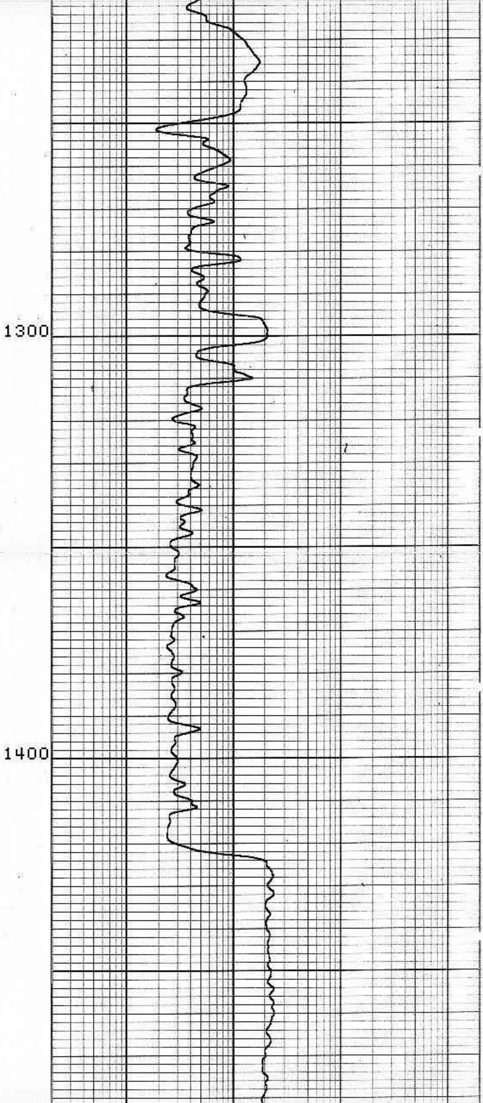


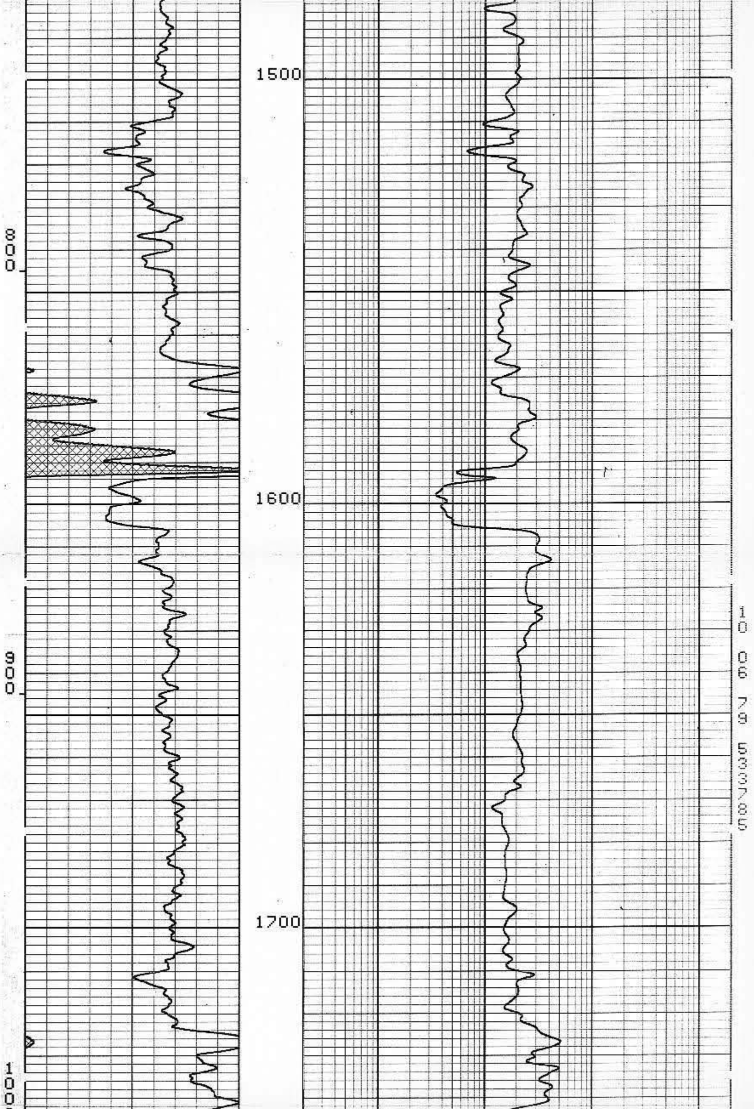


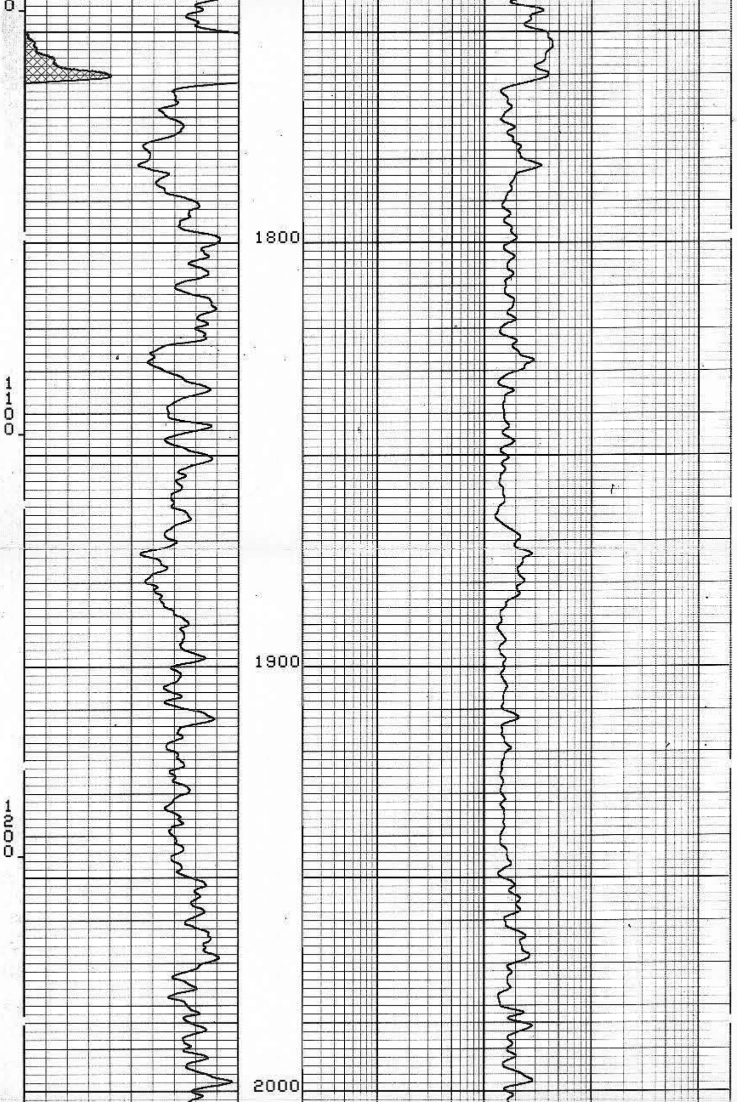


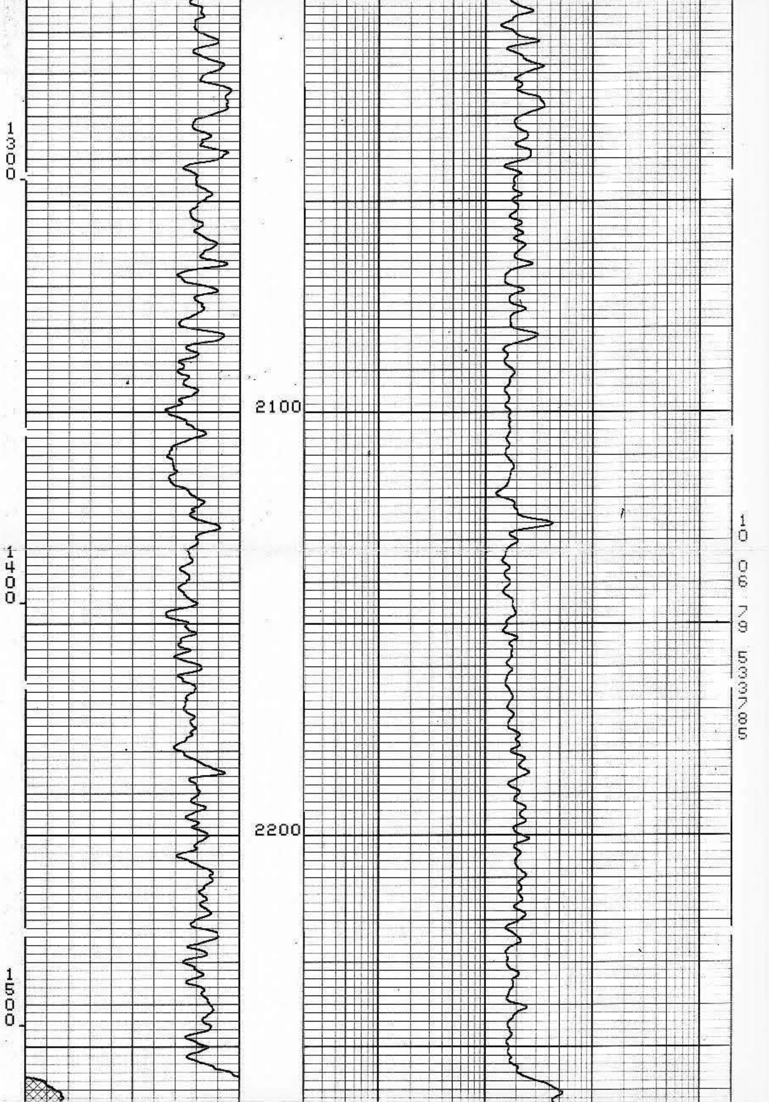


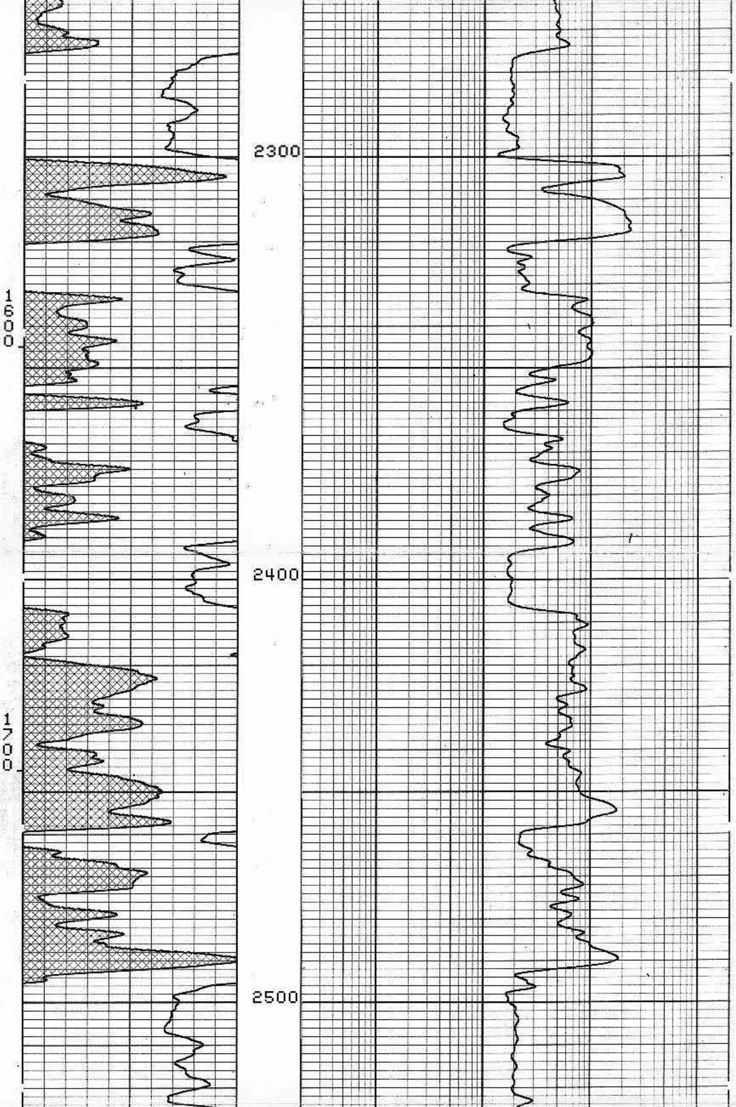


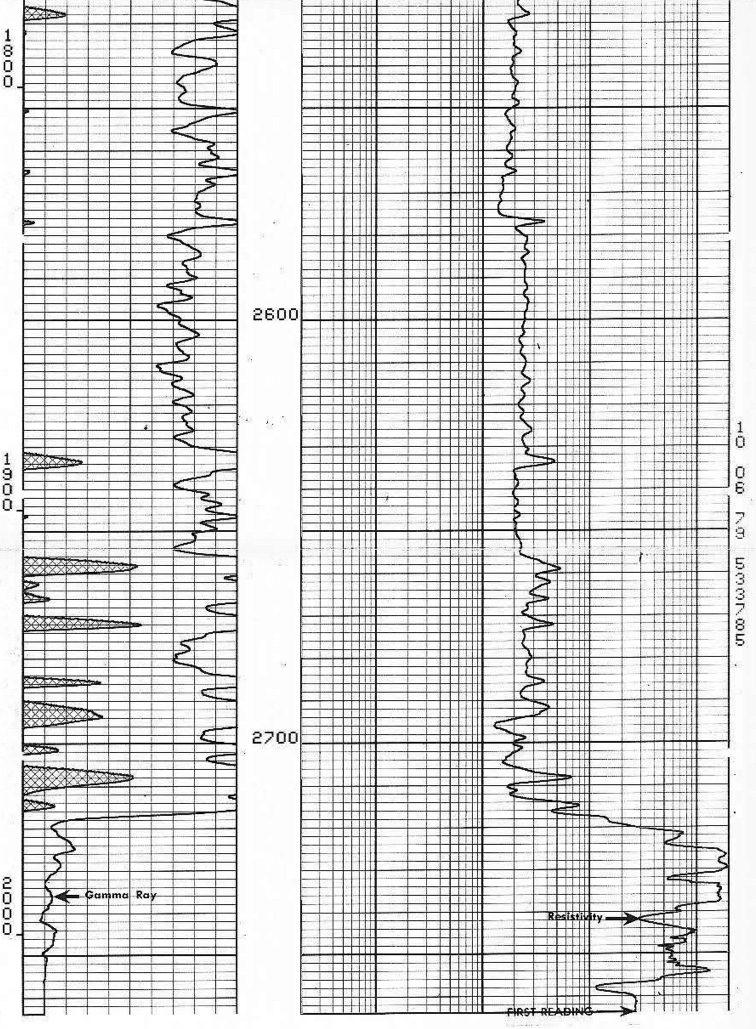




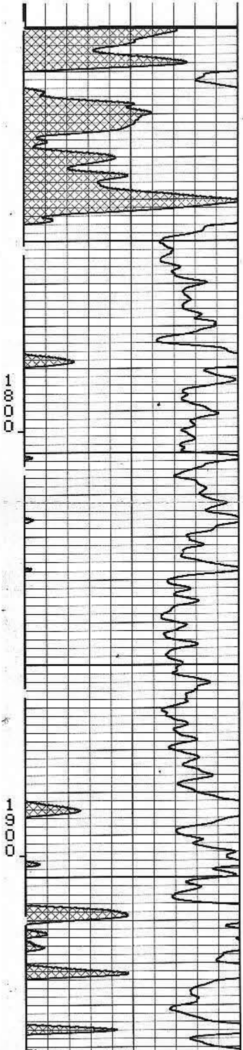


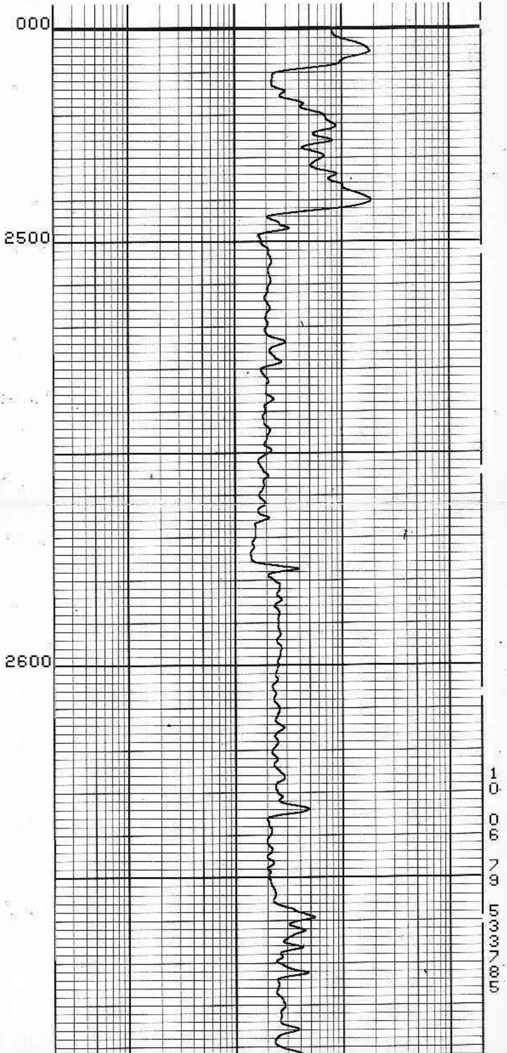


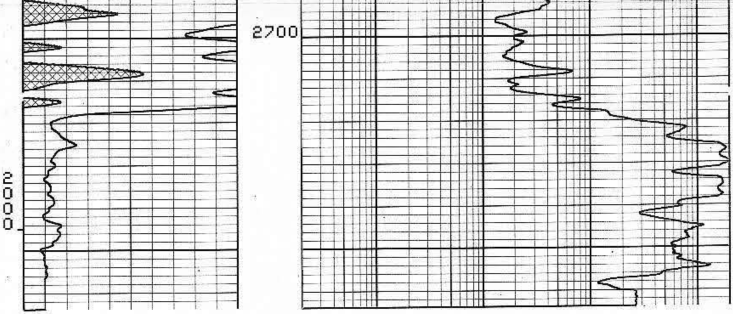


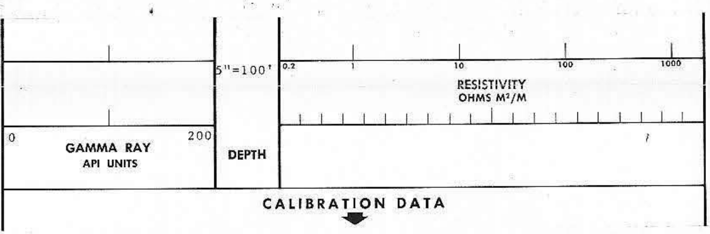


REPEAT SECTION

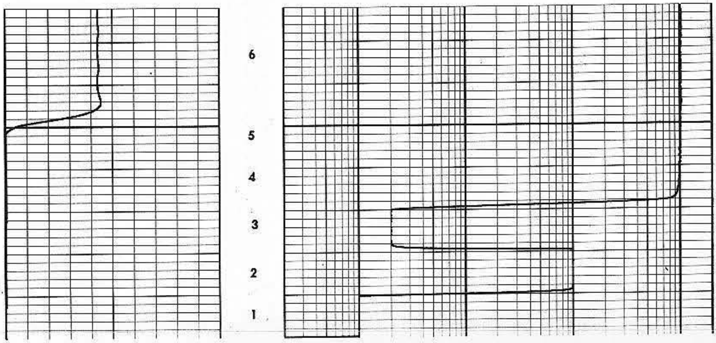




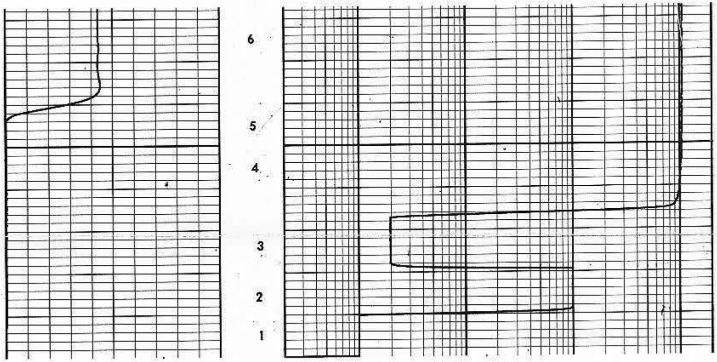




CALIBRATION BEFORE SURVEY



CALIBRATION AFTER SURVEY



1. 1 OHM - M
2. 100 OHM - M.
3. 2 OHM -M
4. 1000 OHM - M
5. GAMMA RAY ZERO
6. 90 API UNITS

CALIBRATION DATA

COMPANY MITCHELL ENERGY CORPORATION

WELL WHITE-PRICE -NEWBERRY UNIT 1-7

FIELD UNNAMED

LOCATION WALNUT TOWNSHIP 2325'SL & 575' WL of SEC 11

COUNTY GALLIA

STATE OHIO DATE 10-6-79

DRILLER T.D. 2770

BIRDWELL T.D. 2770

BIRDWELL F.R. 2764

ELEV.: K.B. 745

D.F. 744

G.L. 734

BIRDWELL DIVISION

Seismograph Service Corporation
A SUBSIDIARY OF RAYTHEON COMPANY

SSC-705-C