GEARHART

CEMENT BOND WITH NUCLEAR LOG

FILING NO.

API #36-043-00013

COMPANY AMERICAN QUASAR PETROLEUM COMPANY

WELL HICKEY #9-12

FIELD LEBANON

COUNTY LINN STATE OREGON

LOCATION 1980'S & 990'E OF THE N/W CORNER OF:

SEC 9 TWP 12.S RGE 2W

Other Services

Permanent Datum G.L. Elev. 329.6'

Log Measured from K.B., 10.5 Ft. Above Permanent Datum

Drilling Measured from K.B.

Elevations:

KB 340.1'

DF

GL 329.6'

Date	2-14-81	Type Fluid in Hole	DRILL
Run No.	ONE	Dens. / Visc.	96 / 38
Depth—Driller	4692'	Max. Rec. Temp.	120
Depth—Logger	4632'	Est. Cement Top	2810'
Btm. Log Interval	4632'	Equip. / Location	5135 / 24046
Top Log Interval	2100'	Recorded By	LEWIS
Open Hole Size		Witnessed By	MR. MANN

CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String	7"				SURFACE	2116'
Prot. String						
Prod. String	4.5"				SURFACE	T.D.
Liner						

PRIMARY CEMENTING DATA

STRING	Surface	Protection	Production	Liner
Vol. of cement				
Type of cement				
Additive				
Additive by %				
Retarder				
Retarder by %				
Wt. of slurry				
Water Loss				
Drill. mud type				
Drilling mud wt.				

FOLD HERE

PRIMARY CEMENTING PROCEDURE

	Hour — Date	HOURS FROM START OF OPERATION	RUN NO.
Started pumping cement			
Plug on bottom			
Release pressure			
Start Cement Bond Log			
Finish Cement Bond Log			

Preceding fluid ____ Volume ____ bbls.

Returns: Full ____ Partial ____ None ____

BOND EQUIPMENT DATA

STAND OFF ; TOOL TYPE COMBO

LOGGING SPEED TOOL SIZE 3.25"

BIAS: MAX. ; SPACING

CARTRIDGE NO. ; TOOL NO.

RECORDER I. D. TYPE RUBBER

TRANSMITTER TO RECEIVER SPACING 5'

Pipe reciprocated during Pumping: Yes ____ No ____

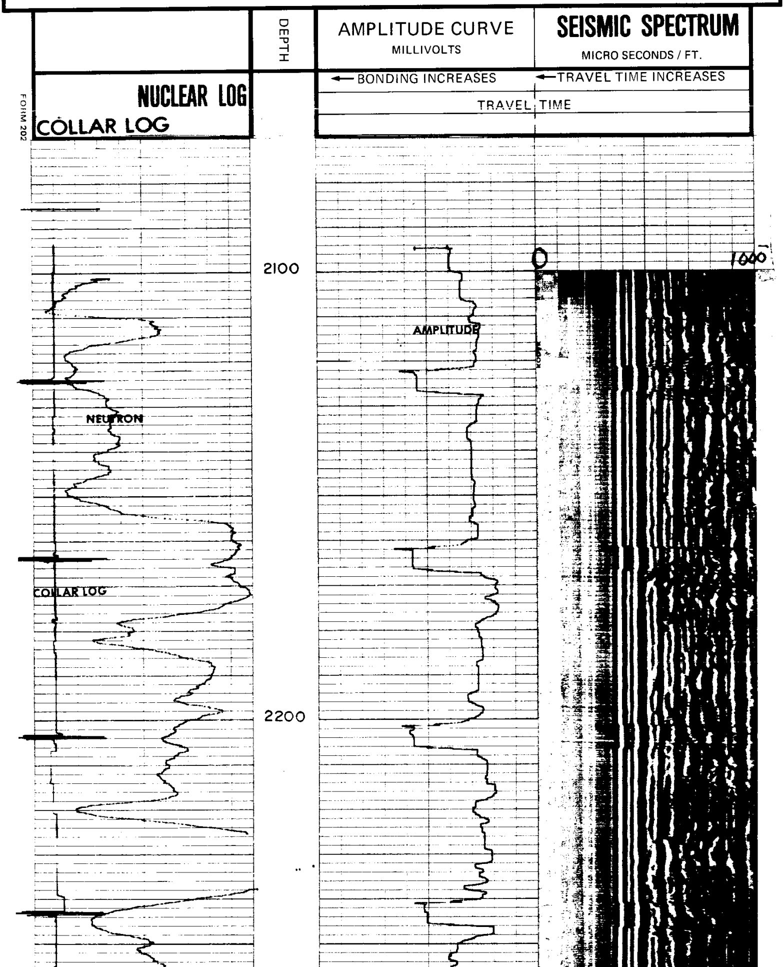
Pipe reciprocated after plug down: Yes ____ min., No ____

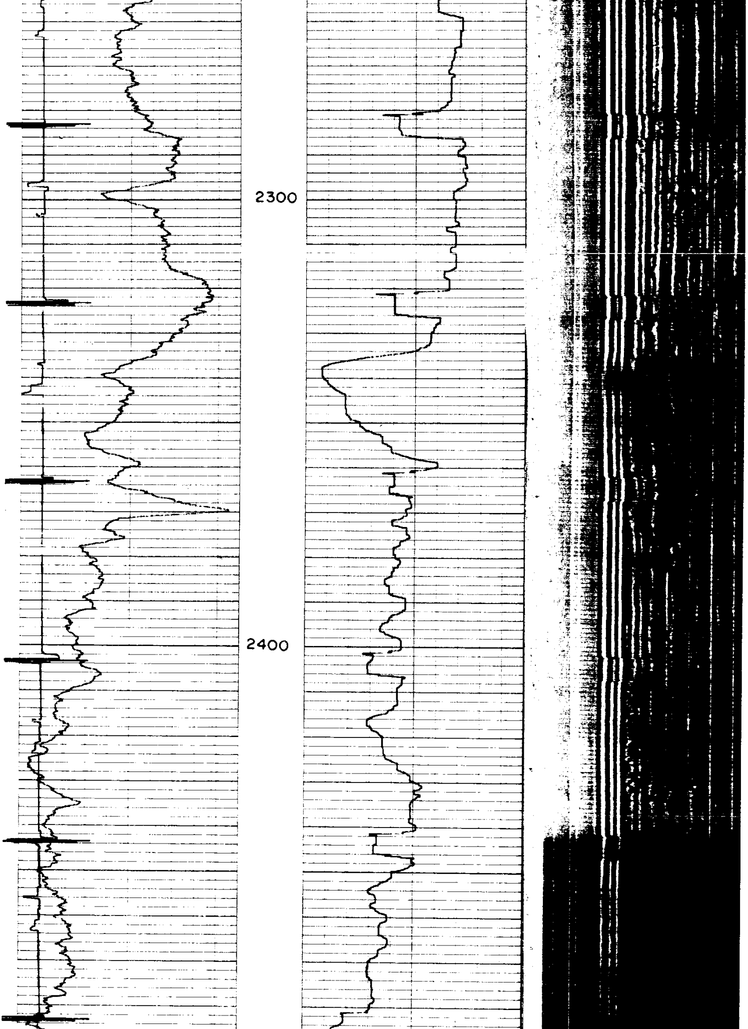
Run No. Gamma-Ray			
Tool Model No.			
Diameter			
Detector Model No.			
Type ;Length			
Distance to N. Source			

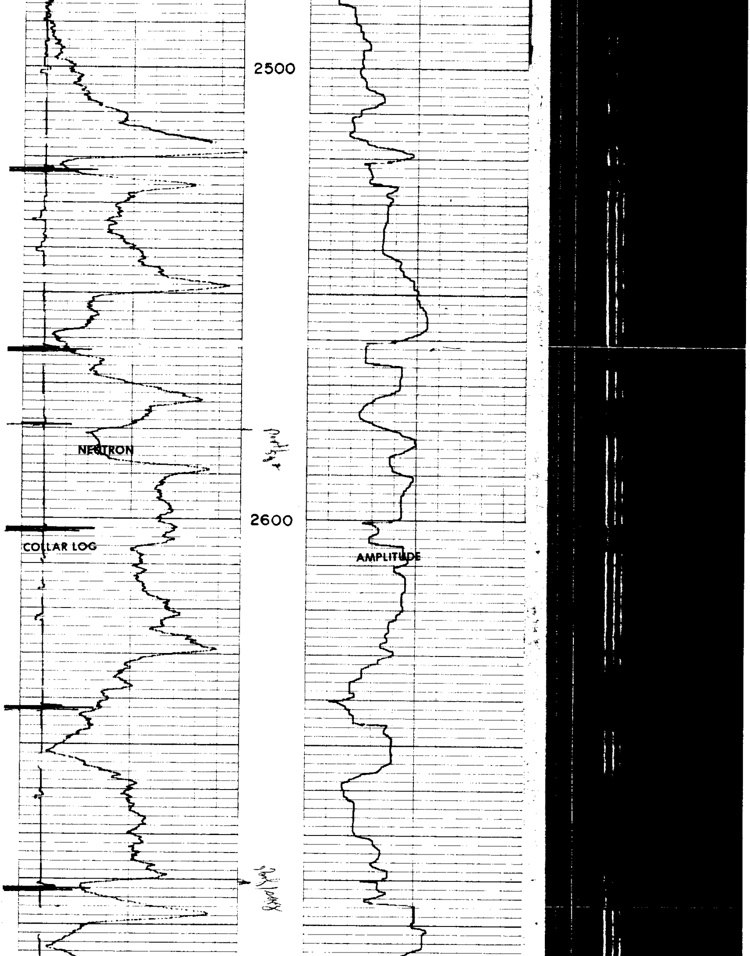
Run No. Neutron				
Tool Serial No				
Tool Model No. ; Type				
Diameter ; Spacing				
Detector Mod. No. ;Type				
Source Type ;Strength				
Source Serial No.				

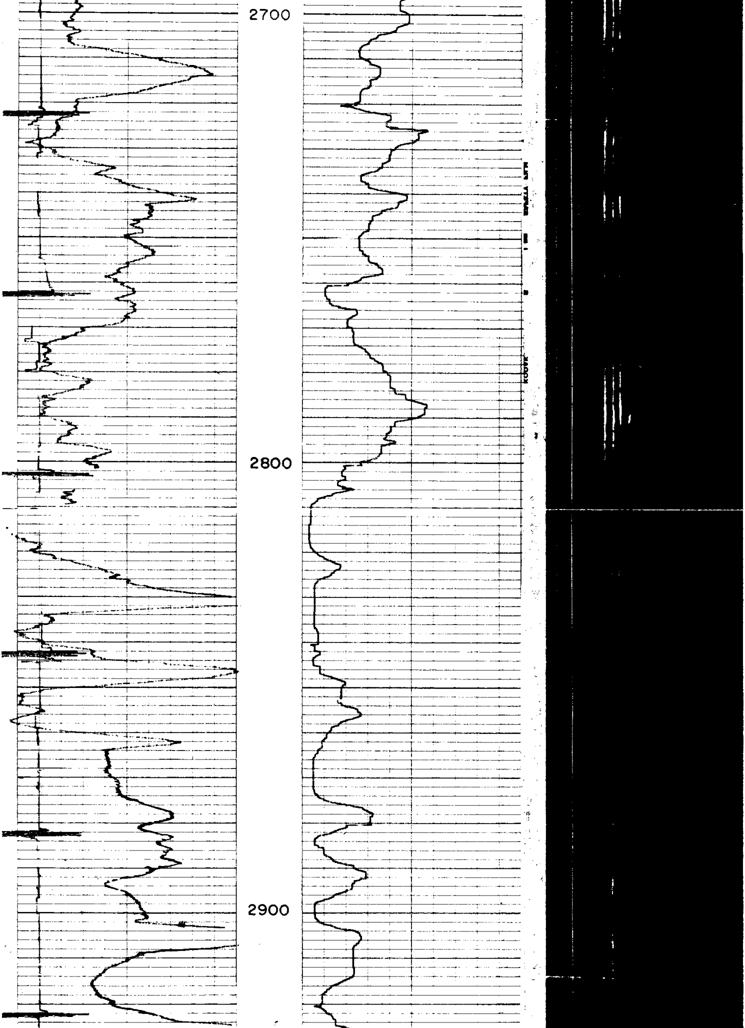
GENERAL				GAMMA - RAY						NEUTRON					
Run No.	DEPTHS		Speed Ft./Min.	T.C. Sec.	Bkg. Cps.	Cal. Cps.	Sens. Settings	Zero Div. L or R	API GR Units Per Log Div.	T.C. Sec.	Bkg. Cps.	Cal. Cps.	Sens. Settings	Zero Div. L or R	API N. Units Per Log Div.
	TO	FROM													

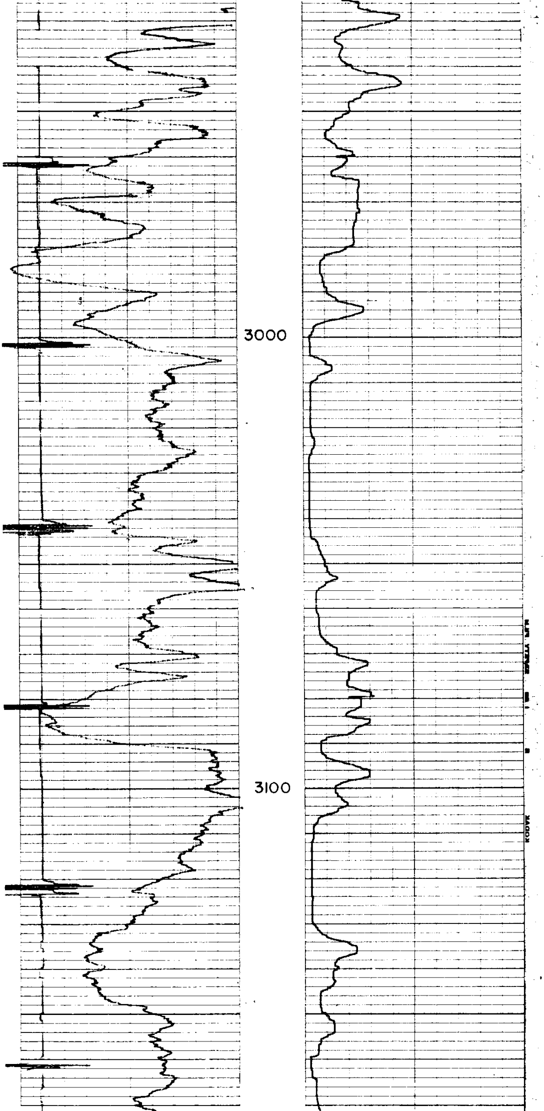
REMARKS:

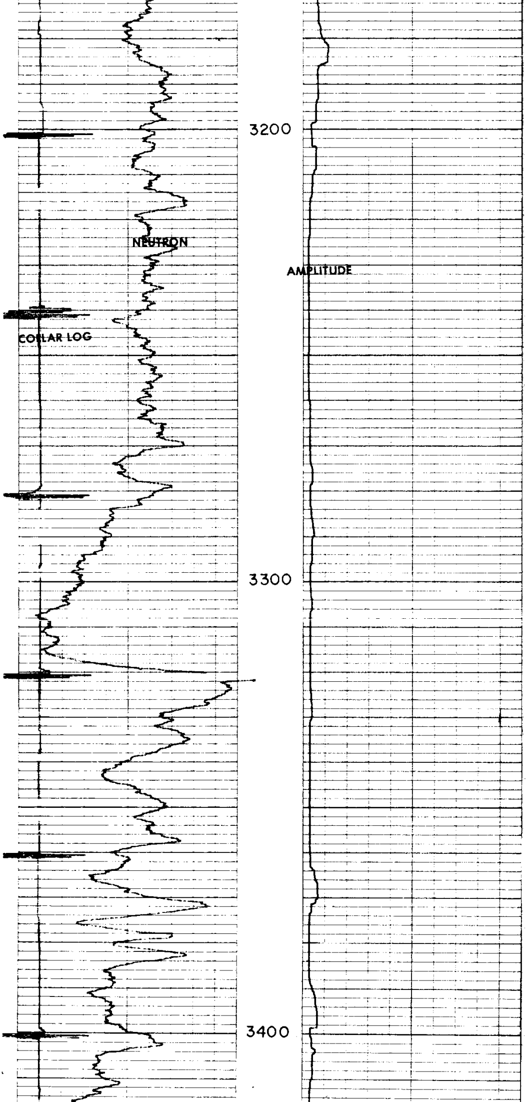


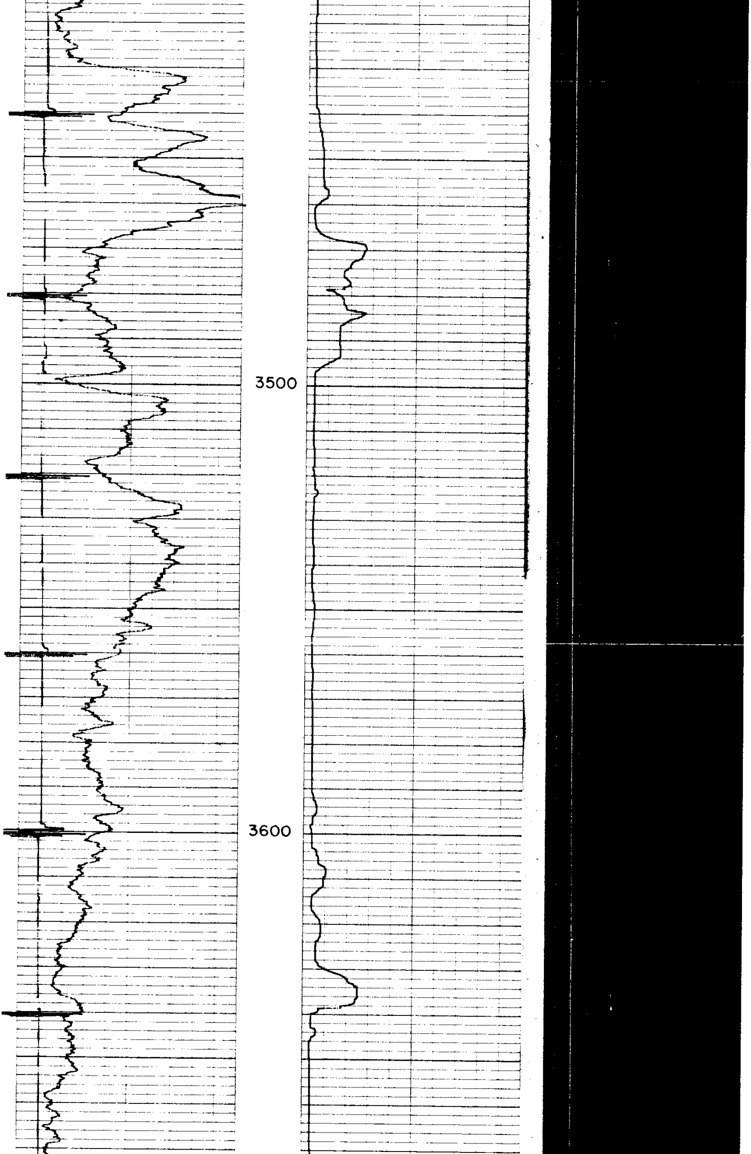


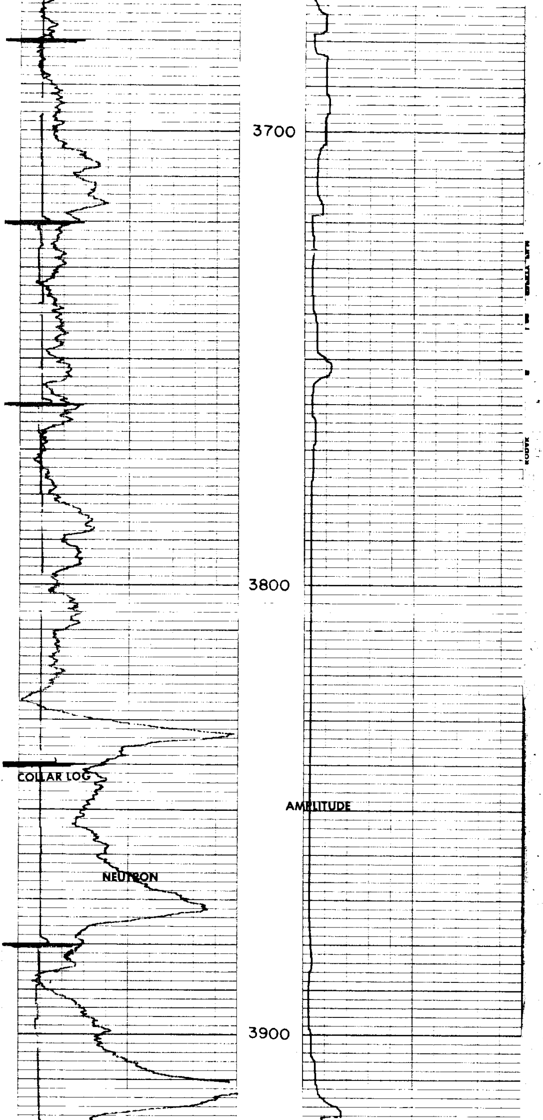


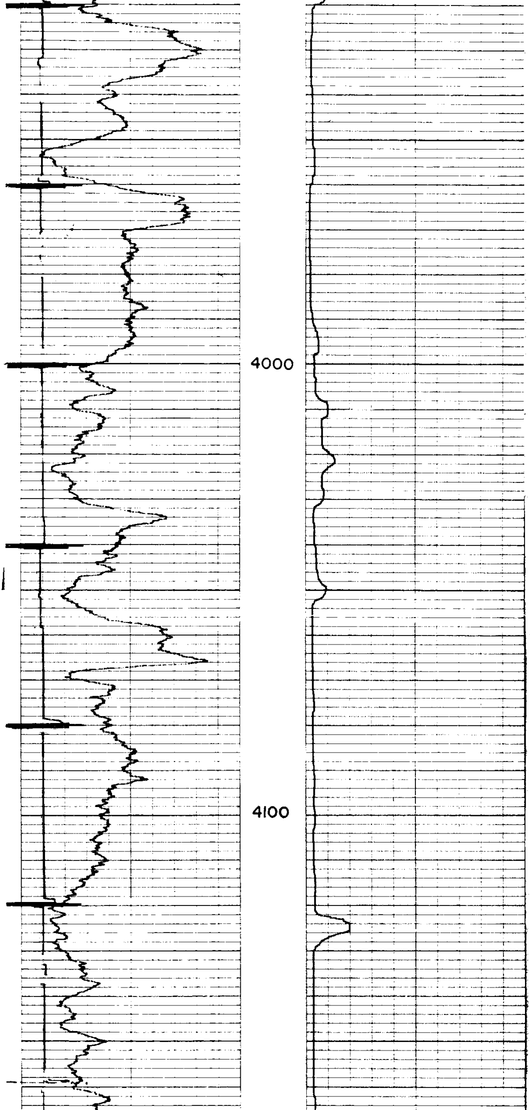


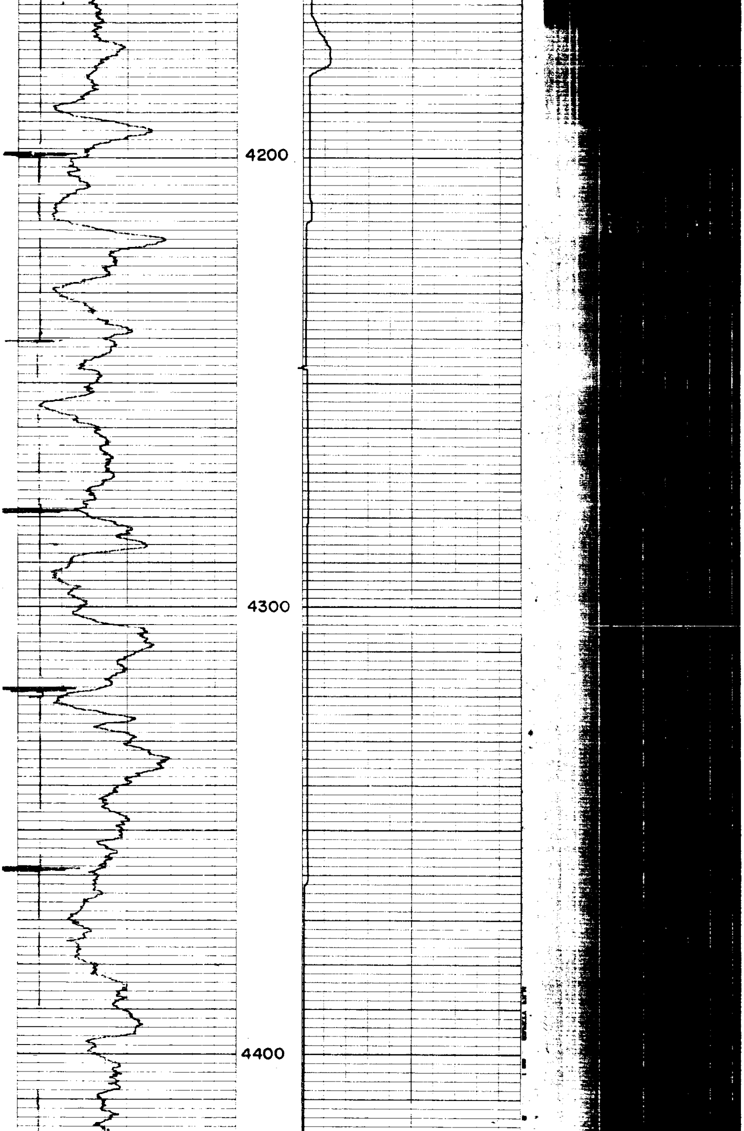


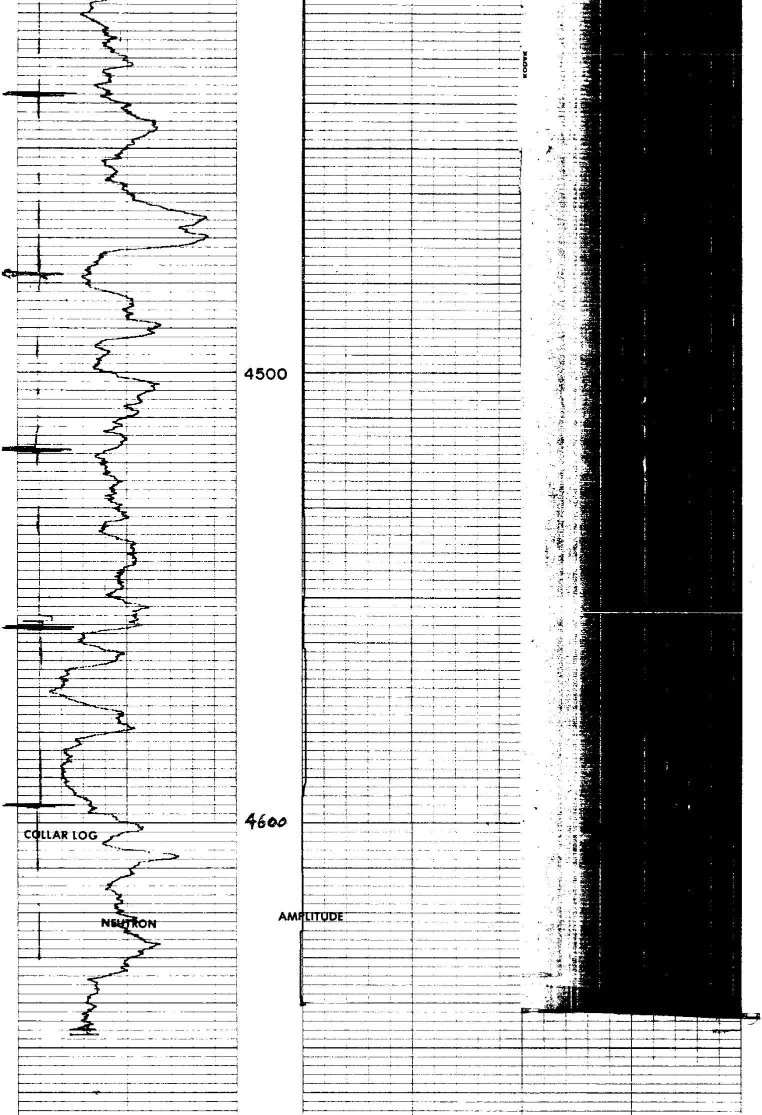




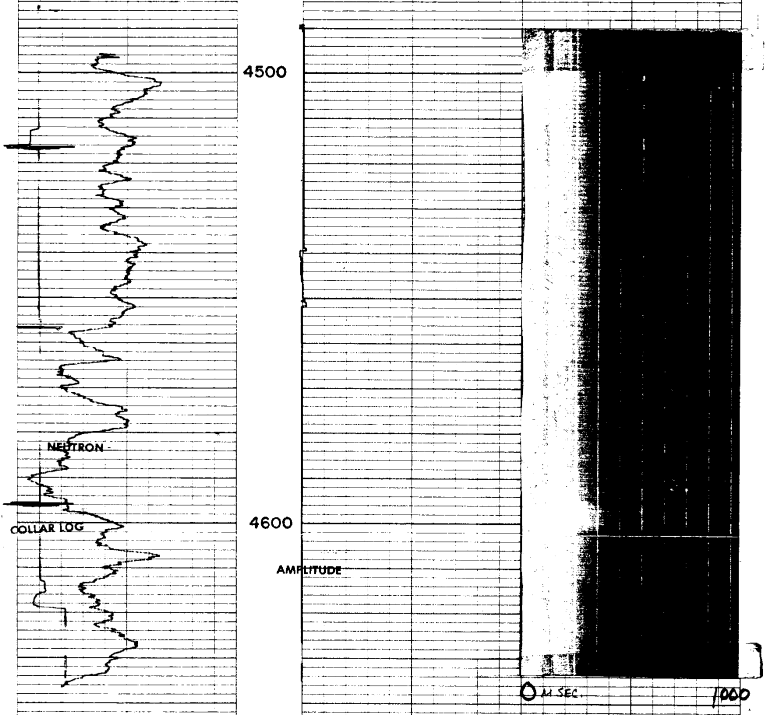








REPEAT SECTION

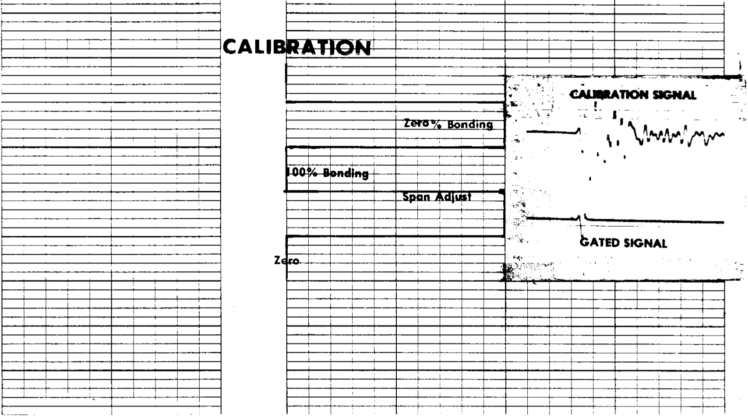


PEN SPACING CHECK

COLLAR LOG

AMPLITUDE

NEUTRON

CALIBRATION