600804

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913-294-8050

DEC / 0 1980

RELEASED

~~MO. OIL & GAS COUNCIL~~

CONFIDENTIAL

FILING NO.

COMPANY: CARMEL ENERGY INC

WELL: WH - 54

FIELD: CHARLES WHITEFORD LEASE

COUNTY: VERNON - MISSOURI

LOCATION: 1793.0 FWL, 686.0 FWL

SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 826.0
LOG MEASURED FROM: G.L. FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM: G.L.

ELEV.: K.B. N.A. D.F. N.A. G.L. 826.0

DATE	12-3-80	12-3-80	
RUN NO	1 NW	1 NW	
TYPE LOG	GAMMA RAY	NEUTRON	
DEPTH—DRILLER			
DEPTH—LOGGER	197.3	197.3	
BOTTOM LOGGED INTERVAL	191.8	196.3	
TOP LOGGED INTERVAL	0.0	4.5	
TYPE FLUID IN HOLE	WATER	WATER	
SALINITY, PPM CL			
DENSITY			
LEVEL	12.0	12.0	
MAX. REC. TEMP., DEG F.			
OPERATING RIG TIME			
RECORDED BY	MORGAN	MORGAN	
WITNESSED BY			

RUN NO.	BORE-HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
				OPEN	HOLE	0	197.3

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	1 NW	RUN NO.	1 NW
TOOL SERIAL NO.	[illegible]	LOGGING UNIT	[illegible]
TOOL MODEL NO		TOOL MODEL NO	785
DIAMETER	1 11/16"	DIAMETER	1 11/16"
DETECTOR MODEL NO.	705-GR	DETECTOR MODEL NO.	705-BF3
TYPE	GEIGER	TYPE	BF3
LENGTH	1 3/8" x 18"	LENGTH	[illegible]
DISTANCE TO N. SOURCE	4.5	SOURCE MODEL NO.	[illegible]
		SERIAL NO.	[illegible]
		SPACING	13"
		TYPE	AMBE-241
		STRENGTH	3 CI
CORRIDA	0020		
HOIST TRUCK NO	0020		
INSTRUMENT TRUCK NO.	0092		
TOOL SERIAL NO.			

LOGGING DATA

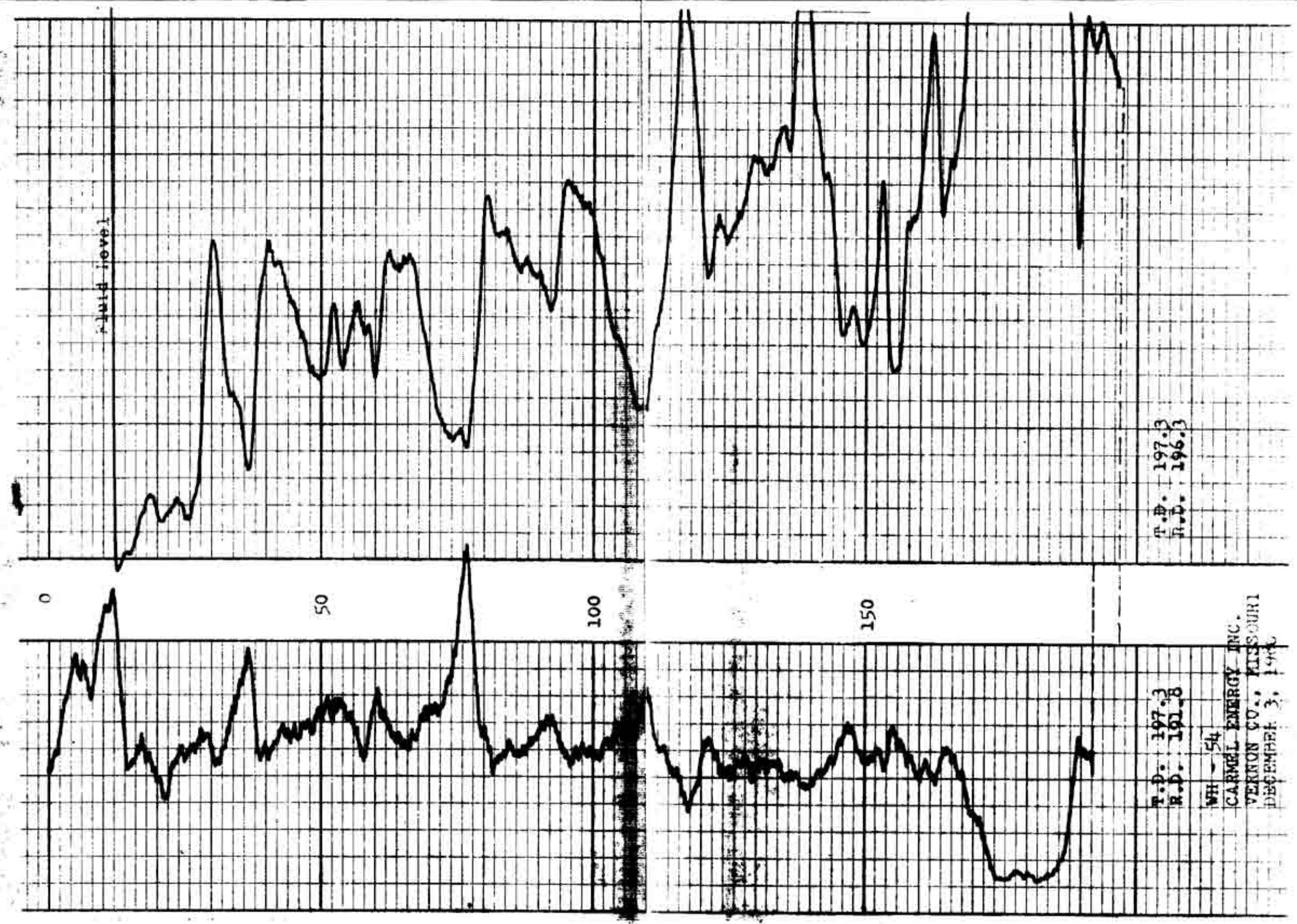
GENERAL RUN NO	DEPTHS FROM	TO	SPEED FT/MIN	T.C. SEC.	SENS SETTINGS	ZERO DIV.	L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS SETTINGS	ZERO DIV.	L OR R	API N. UNITS PER LOG DIV.
				GAMMA RAY					NEUTRON				
1	0.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	20		[illegible]	[illegible]	[illegible]	20

REFERENCE LITERATURE: OPEN HOLE - NOT CORRECTED

REMARKS: DRILLING CONTRACTOR: LAYNE-WESTERN DRILLING COMPANY

NEDO 10240

GAMMA RAY NEUTRON

DEPTH

CASING COLLARS