600409

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913-294-5050
Lawrence, Kansas 66044
1203 Kiwi
913-841-8886

FILING NO.

COMPANY CARMEL ENERGY INC.
WELL NO. WH-25
FIELD CHARLES WHITEFORD LEASE
COUNTY VERNON - MISSOURI
LOCATION: 992.0 FWL 724.0 FNL
SEC 28 TWP 35N RGE 33W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 816.7
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. 816.7

DATE	12-24-80	12-24-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	123.4	123.7
DEPTH—LOGGER	118.2	122.7
BOTTOM LOGGED INTERVAL	0.0	4.5
TOP LOGGED INTERVAL	WATER	WATER
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY		
LEVEL	4.0	4.0
MAX. REC. TEMP. DEG F		
OPERATING RIG TIME	PLANT	PLANT
RECORDED BY		
WITNESSED BY		

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT	FROM	TO
O/H		0	T.D.

NOV 20 1980
MO. OIL & GAS COUNCIL

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY			NEUTRON		
RUN NO	1 NW		RUN NO.	1 NW	
TOOL MODEL NO.	705		LOG TYPE	NEU/NEU	
DIAMETER	1 11/16"		TOOL MODEL NO.	705	
DETECTOR MODEL NO	705-GE		DIAMETER	1 11/16"	
TYPE	GEIGER		DETECTOR MODEL NO.	705 HE-3	
LENGTH	1 3/8" x 18"		TYPE	HE	
DISTANCE TO N. SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO	71-1	
GENERAL			SERIAL NO	71-1-335	G
HOIST TRUCK NO	0020		SPACING	13"	
INSTRUMENT TRUCK NO	0020		TYPE	AMBE241	
TOOL SERIAL NO.	0002		STRENGTH	3 CI	

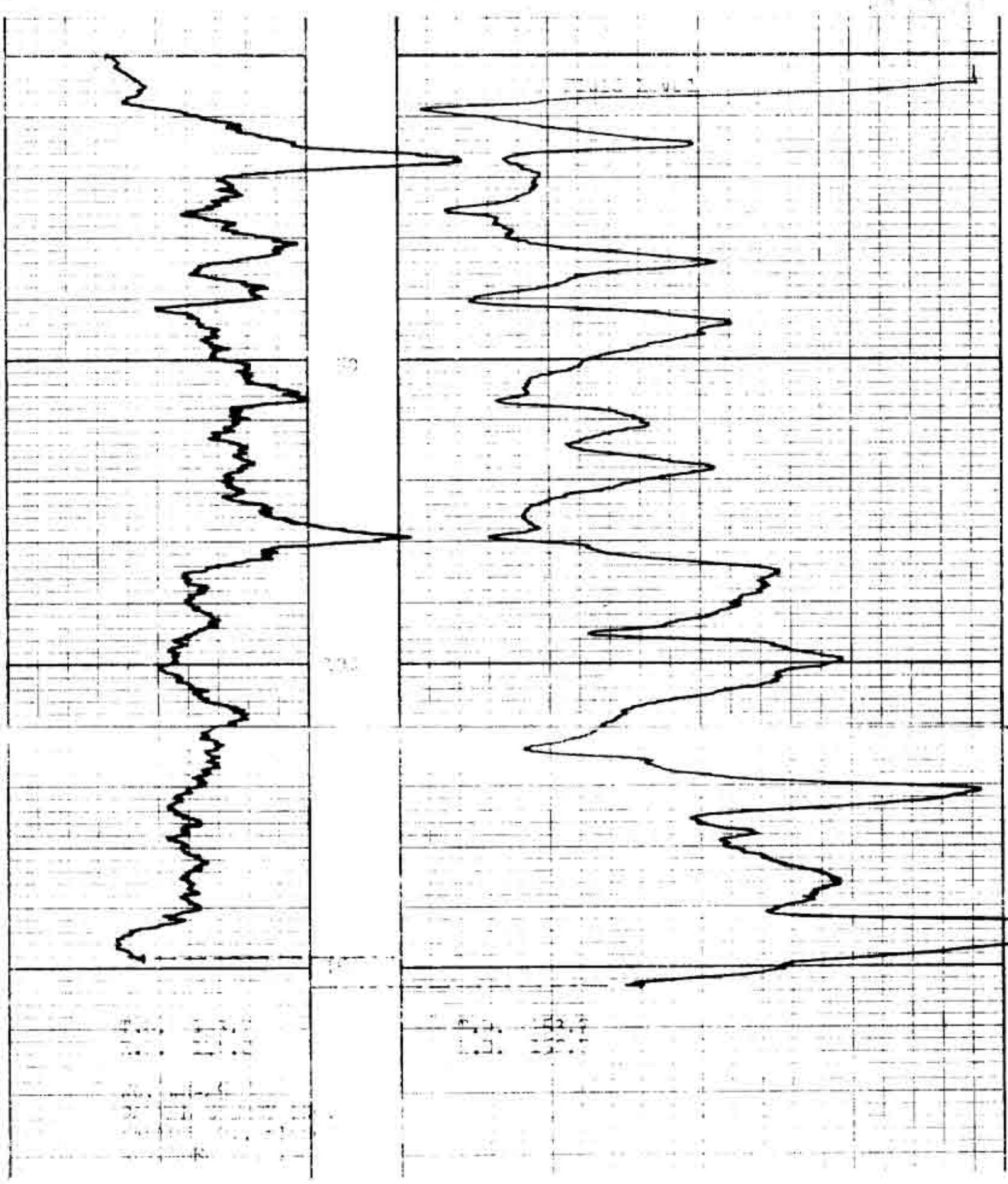
LOGGING DATA

GENERAL				GAMMA RAY				NEUTRON			
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.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	0	T.D.	20	4.0	100/075	3 R	10	4.0	500/100	6 L	20

REFERENCE LITERATURE OPEN HOLE

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCO 18240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS