600365

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 467
913-294-5050

Lawrence, Kansas 66044
1203 Iowa
913-841-8888

RELEASED

FILING NO.

COMPANY Carmel Energy, Inc.
WELL WB-20
FIELD Wesley Batchelor Lease
COUNTY Vernon County, Missouri

LOCATION: 1650' FNL 500.0 FWL
SEC 17 TWP 34N RGE 33W

OTHER SERVICES:

PERMANENT DATUM: GL ELEV. 784.8
LOG MEASURED FROM GL FT. ABOVE PERM. DATUM
DRILLING MEASURED FROM GL

ELEV. K.B. NA
D.F. NA
G.L. 784.8

DATE	12-29-80	12-29-80
RUN NO	1 NW	1 NW
TYPE LOG	Gamma Ray	Neutron
DEPTH—DRILLER	96.7	96.7
DEPTH—LOGGER	91.2	95.7
BOTTOM LOGGED INTERVAL	0.0	4.5
TOP LOGGED INTERVAL	water	water
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY	10.0	10.0
LEVEL		
MAX. REC. TEMP., DEG F.		
OPERATING RIG TIME		
RECORDED BY	Morgan	Morgan
WITNESSED BY		

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
8/8			

RECEIVED
JAN 07 1981
MO OIL & GAS COUNCIL

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THIS MEASURING AND LOG CONDITIONS TO BE AS

EQUIPMENT DATA

GAMMA RAY			NEUTRON		
RUN NO	1NW		RUN NO	1 NW	
TOOL MODEL NO	705		LOG TYPE	Neut/Neut	
DIAMETER	1 11/16"		TOOL MODEL NO	705	
DETECTOR MODEL NO	705-GR		DIAMETER	1 11/16"	
TYPE	Geiger		DETECTOR MODEL NO	705 HR-3	
LENGTH	1 3/8" x	18"	TYPE	HR	
DISTANCE TO N. SOURCE	4.5		LENGTH	1" x 6"	
			SOURCE MODEL NO	71-1	
GENERAL			SERIAL NO	71-1-339	G
HOIST TRUCK NO.	0020		SPACING	13"	
INSTRUMENT TRUCK NO.	0020		TYPE	AMBE-243	
TOOL SERIAL NO.	0002		STRENGTH	3 CI	

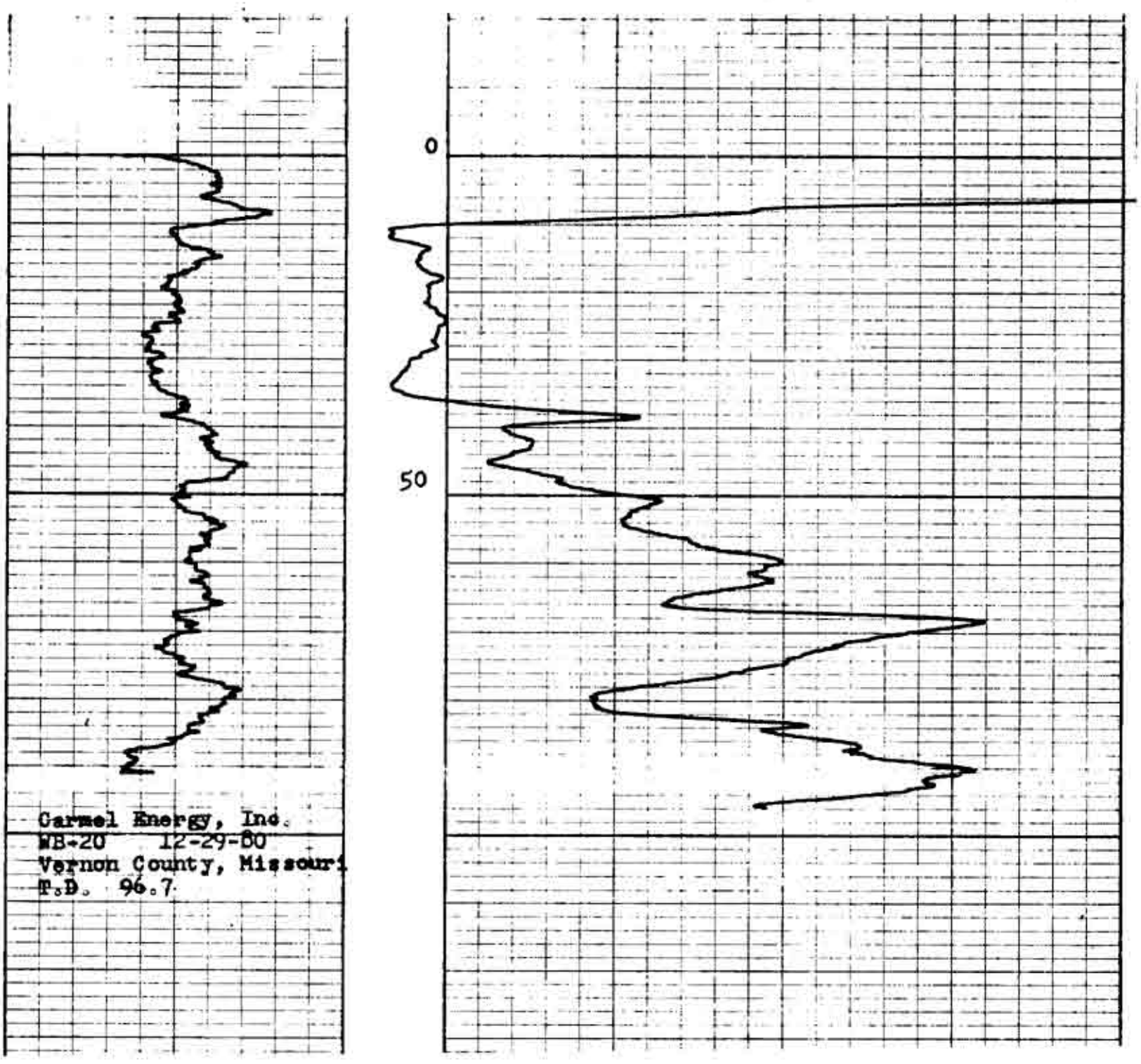
LOGGING DATA

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.
1NW	0	TD	20	4.0	100/075	0	10	4.0	500/100	5L	20

REFERENCE LITERATURE:

REMARKS DRILLING CONTRACTOR: TEST DRILLING COMPANY

NSCO 16240

GAMMA RAY DEPTH NEUTRON

CASING COLLARS