600856

ENERGY RESOURCES, INC.

RELEASED

Iola, Kansas 66749
P O Box 467
913 794 5050

Lawrence, Kansas 66044
1203 Iowa
913-841 8886

FILING NO.

COMPANY CARMEL ENERGY INC.
WELL WB - 3
FIELD WESLEY BATCHELER
COUNTY VERNON - MISSOURI — Core: 00/138

LOCATION: 2350.0 FNL 900.0 FWL
SEC 17 TWP 34N RGE 33W

OTHER SERVICES:

PERMANENT DATUM G.L. ELEV. 786.5
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. 786.5

DATE	12-2-80	12-2-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH-DRILLER	148.3	148.3
DEPTH-LOGGER	142.8	147.3
BOTTOM LOGGED INTERVAL	0.0	4.5
TOP LOGGED INTERVAL	WATER	WATER
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY	8.0	8.0
LEVEL		
MAX REC TEMP, DEG F		
OPERATING RIG TIME	MORGAN	MORGAN
RECORDED BY		
WITNESSED BY		

BORE-HOLE RECORD

RUN NO	BIT	FROM	TO

CASING RECORD

SIZE	WGT	FROM	TO
OPEN	HOLE	0	148.3

EQUIPMENT DATA

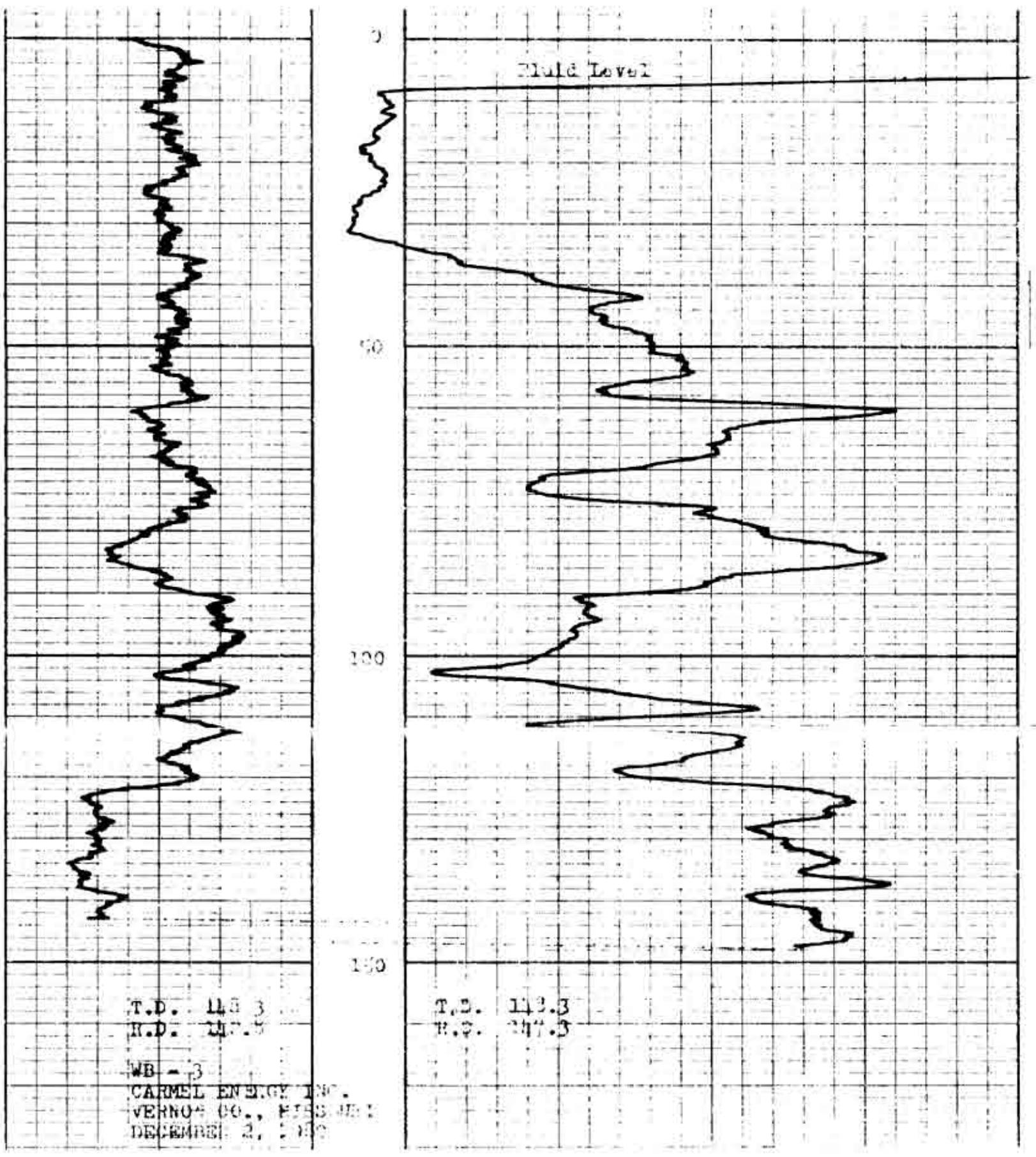
GAMMA RAY		NEUTRON	
RUN NO	1 NW	RUN NO.	1 NW
TOOL MODEL NO	705	LOG TYPE	NEU/NEU
DIAMETER	1 11/16"	TOOL MODEL NO	705
DETECTOR MODEL NO	705-GE	DIAMETER	1 11/16"
TYPE	GEIGER	DETECTOR MODEL NO	705 HE-3
LENGTH	1 3/8" x 18"	TYPE	HE
DISTANCE TO N SOURCE	4.5	LENGTH	1" x 6"
		SOURCE MODEL NO	71-1
GENERAL		SERIAL NO	71-1-335 G
HOIST TRUCK NO	0020	SPACING	13"
INSTRUMENT TRUCK NO	0020	TYPE	AMBE-241
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

REFERENCE LITERATURE OPEN HOLE - NOT CEMENTED

REMARKS DRILLING CONTRACTOR: TEST DRILLING COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS