ENERGY RESOURCES, INC.

Pratt, Kansas 67871
P. O. Box 407
316-672-5200

Lawrence, Kansas 66044
1323 Iowa
913-841-6666

COMPANY: CARMEL ENERGY INC.

WELL: WO NO. 10 [redacted]

FIELD: E. W. WOLFE LEASE [redacted]

COUNTY: VERNON - MISSOURI

LOCATION: 1563.0 FNL 165.0 FEL

SEC. 16 TWP. 35N RGE. 33W

OTHER SERVICES:

PERMANENT DATUM: G.L. ELEV. 795.2

LOG MEASURED FROM: G.L. FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM: G.L.

ELEV.: K.B. D.F. G.L. 795.2

DATE	10-8-80	10-8-80
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER		
DEPTH—LOGGER	120.0	120.0
BOTTOM LOGGED INTERVAL	114.5	119.0
TOP LOGGED INTERVAL	4.0	8.5
TYPE FLUID IN HOLE	WATER	WATER
SALINITY, PPM CL		
DENSITY		
LEVEL	14.0	14.0
MAX. REC. TEMP. DEG F.		
ESTIMATED CEM TOP		
RECORDED BY	PRATT	PRATT
WITNESSED BY		

BOREHOLE RECORD				CASING RECORD			
BIT	FROM	TO	SIZE	WGT.	FROM	TO
			O/H		0	T.D.

OCT 14 1980

MO. OIL & GAS COUNCIL

EQUIPMENT DATA

	GAMMA RAY	NEUTRON
RUN NO.	1 NW	1 NW
BOREHOLE NO.	705	705
LOG FROM	1 11/16"	1 11/16"
TOOL MODEL NO.	705-GR	705-N
DIAMETER		
DETECTOR MODEL NO.	GR1DAR	HR
TYPE	1 3/8" x 18"	1" x 6"
LENGTH	4.5	71-1
SOURCE MODEL NO.		71-2
SERIAL NO.		138
SPACING	0020	AMERICIUM
TYPE	0020	3 CI
STRENGTH	0002	

LOGGING DATA

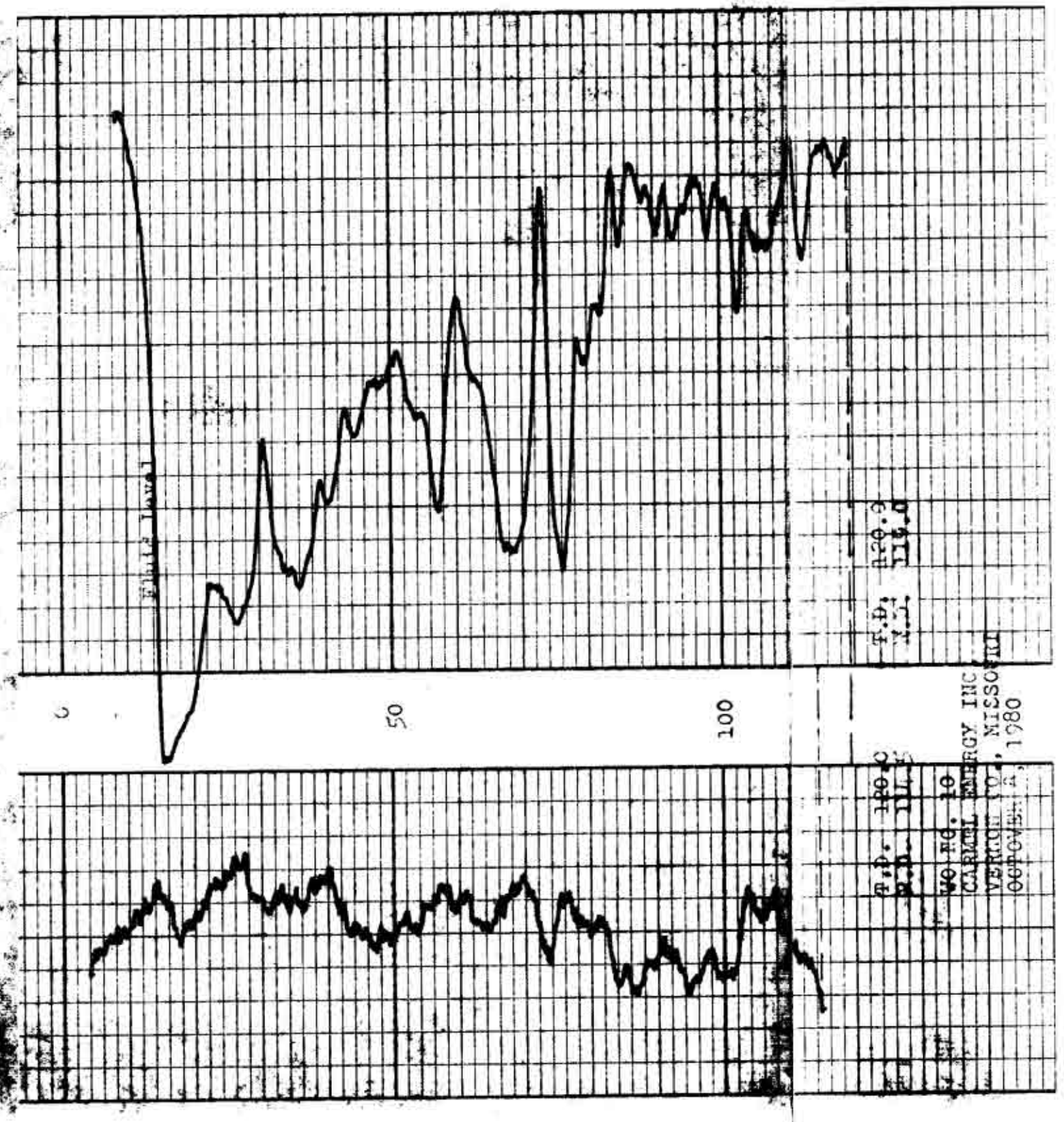
RUN NO.	DEPTHS FROM	DEPTHS TO	SPEED FT/MIN.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. I OR II	API G.R. UNITS PER LOG DIV.	T.C. SEC.	SENS. SETTINGS	ZERO DIV. I OR II	API N. UNITS PER LOG DIV.
1	0	T.D.	20	4.0	100/075	0	10	4.0	500/100	0.5	20

REFERENCE ULTRASONIC OPEN HOLE - NOT CEMENTED

DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

HECO-1530

GAMMA RAY NEUTRON

DEPTH

CASING COLLARS