000509

GR WELL SERVICES, INC.

Lawrence, Kansas 66044

RELEASED

FILING NO.

COMPANY CARMEL ENERGY INC.

WELL NO. KE-39

FIELD [illegible]

COUNTY VERNON & MISSOURI

LOCATION: 679.6 FWL 2347.0 FSL

SEC. 28 TWP. 35N RGE. 33W

OTHER SERVICES:

PERMANENT DATUM: G.L.

ELEV. 820.2

LOG MEASURED FROM G.L.

FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM G.L.

ELEV.: K.B. NA, D.F. NA, G.L. 820.2

DATE	12-14-80	12-14-80	
RUN NO.	1 NW	1 NW	
TYPE LOG	GAMMA RAY	NEUTRON	
DEPTH—DRILLER	193.0	193.0	
DEPTH—LOGGER	192.6	192.6	
BOTTOM LOGGED INTERVAL	187.1	191.6	
TOP LOGGED INTERVAL	0.0	4.5	
TYPE FLUID IN HOLE	WATER/OIL	WATER/OIL	
SALINITY, PPM CL			
DENSITY			
LEVEL	13.0	13.0	
MAX. REC. TEMP., DEG. F.			
OPERATING RIG TIME			
RECORDED BY	PRATT	PRATT	
WITNESSED BY			

DEC 18 1980 KS. OIL & GAS COUNCIL

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

EQUIPMENT DATA

	GAMMA RAY	NEUTRON
RUN NO.	1 NW	1 NW
LOG TYPE		NEU/DEN
TOOL MODEL NO.	705	705
DIAMETER	1 11/16	1 11/16
DETECTOR MODEL NO.	705-BK	705 BK
TYPE	GEIGER	BF3
LENGTH	1 3/8 x 18	1 x 6
DISTANCE TO N. SOURCE	4.5	71.5
SOURCE MODEL NO.		71.5
SERIAL NO.		13
SPACING	0.020	0.020
TYPE	0.020	0.020
STRENGTH	0.002	0.002
MOBILE TRUCK NO.		
WIRELINE TRUCK NO.		
HOLE SIZE NO.		

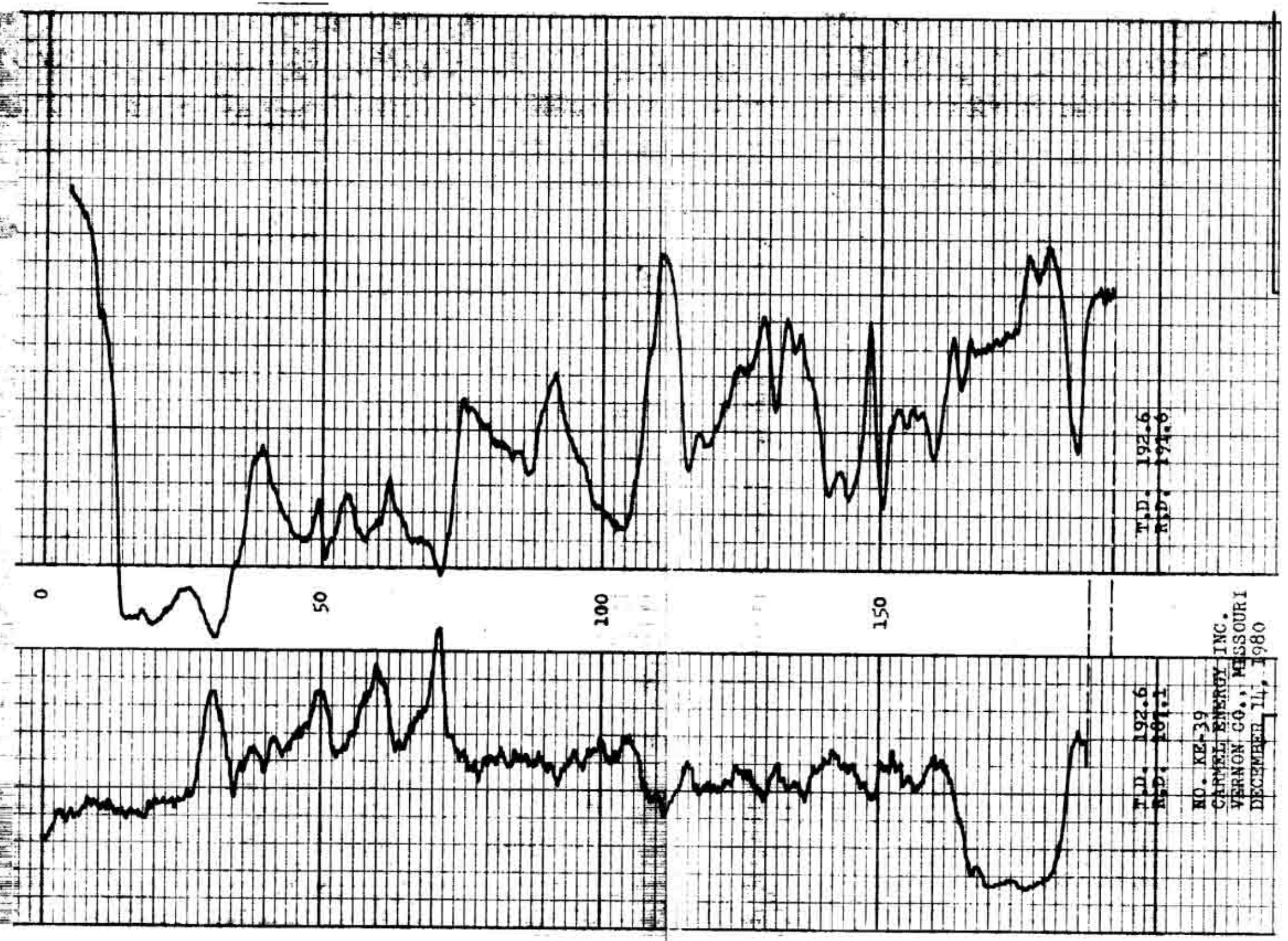
LOGGING DATA

	GAMMA RAY	NEUTRON
SPEED FT/MIN.	30	30
T.C. SEC.	1	1
SENS. SETTINGS	0.5	5
ZERO DIV. 1 ON B	0.5	5
API U.S. UNITS PER LOG DIV.	10	
T.C. SEC.		1
SENS. SETTINGS		5
ZERO DIV. 1 ON B		5
API U.S. UNITS PER LOG DIV.		10

GENERAL DEPTHS: FROM 0.0, TO 192.6

SURFACE LOCATION: OPEN HOLE

REMARKS: DRILLING COMPANIES: LAYNE-WESTERN COMPANY

GAMMA RAY DEPTH NEUTRON

CASING COLLARS