G00405

ENERGY RESOURCES, INC.

Parsons Kansas 67071
P O Box 467
913-794-5050
Lawrence Kansas 66044
1203 Iowa
913-841-8886

FILING NO

COMPANY CARMEL ENERGY INC.
WELL WH-20
FIELD CHARLES WHITEFORD LEASE
COUNTY VERNON - MISSOURI

LOCATION 461.0 FNL 1432.0 FWL
SEC 28 TWP 35N RGE 33W
OTHER SERVICES

PERMANENT DATUM G.L. ELEV. 809.0
LOG MEASURED FROM G.L. FT ABOVE PERM DATUM
DRILLING MEASURED FROM G.L.

ELEV. K.B.
D.F.
G.L. 809.0

DATE	11-21-80	11-21-80
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	188.5	188.5
DEPTH—LOGGER	183.0	187.5
BOTTOM LOGGED INTERVAL	0.0	4.5
TOP LOGGED INTERVAL	WATER/OIL	WATER/OIL
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY		
LEVEL	31.0	31.0 To Pratt
MAX. REC. TEMP. DEG F		
OPERATING RIG TIME	PRATT	PRATT
RECORDED BY		
WITNESSED BY		

BORE-HOLE RECORD

RUN NO	BIT	FROM	TO	SIZE	WGT	FROM	TO
				O/H		0	T.D.

CASING RECORD

FOLD HERE

THIS REPORTING 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	AMBE-241	
TOOL SERIAL NO.	0002		STRENGTH	3 CI	

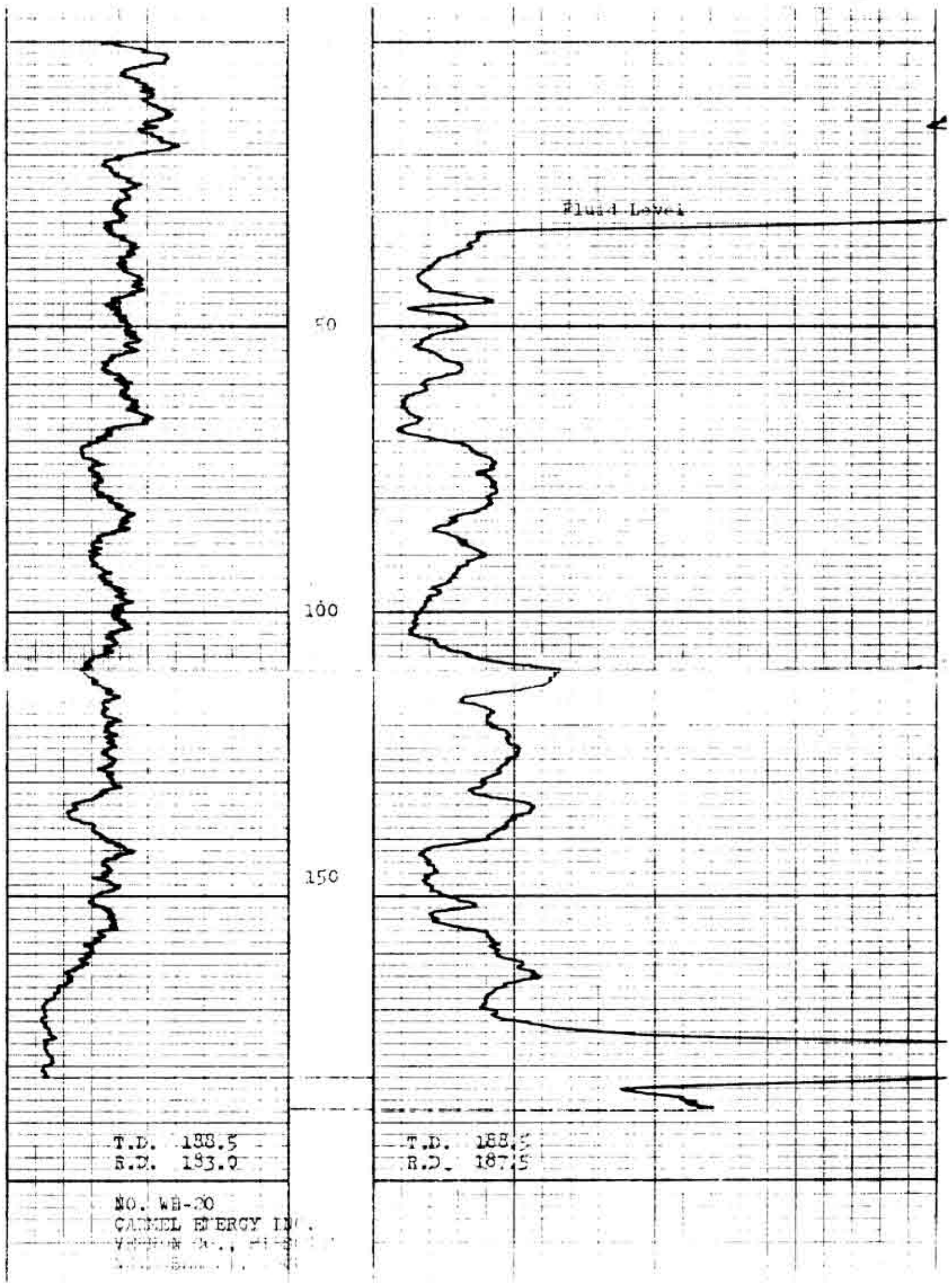
LOGGING DATA

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.
1	0	T.D.	20	4.0	100/075	0 R	20	4.0	500/100	5 L	20

REFERENCE LITERATURE OPEN HOLE

REMARKS DRILLING CONTRACTOR: LAYNE-WESTERN COMPANY

NSCC 1624

GAMMA RAY DEPTH NEUTRON

CASING COLLARS