60004H

Permit #20135

ENERGY RESOURCES, INC.

Paola, Kansas 66071
P. O. Box 867
913-294-5050

Lawrence, Kansas 66044
1303 Iowa
913-841-8888

FILING NO.

COMPANY: TOWN OIL COMPANY
WELL: NO. 31
FIELD: WALTON LEASE
COUNTY: CASS COUNTY, MISSOURI

LOCATION: 1261' NL 1517'EL
SEC. 4 TWP. 46N RGE. 33W

OTHER SERVICES: CCL PERFORATE

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

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

DATE	1-26-81	1-26-81	
RUN NO.	1 NW	1 NW	
TYPE LOG	GAMMA RAY	NEUTRON	
DEPTH—DRILLER			
DEPTH—LOGGER	499.5	499.5	
BOTTOM LOGGED INTERVAL	494.0	498.5	
TOP LOGGED INTERVAL	150.0	154.5	
TYPE FLUID IN HOLE	WATER	WATER	
SALINITY, PPM. CL.			
DENSITY			
LEVEL	FULL	FULL	
MAX. REC. TEMP., DEG. F.			
OPERATING RIG TIME			
RECORDED BY	MORGAN	MORGAN	
WITNESSED BY			

RUN NO.	BORE-HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
	5 1/4"	0.0	21.0	2"		0.0	502.0
	8 5/8"	21.0	590.0				

RECEIVED
MAR 17 1981
MO. OIL & GAS COUNCIL

EQUIPMENT DATA

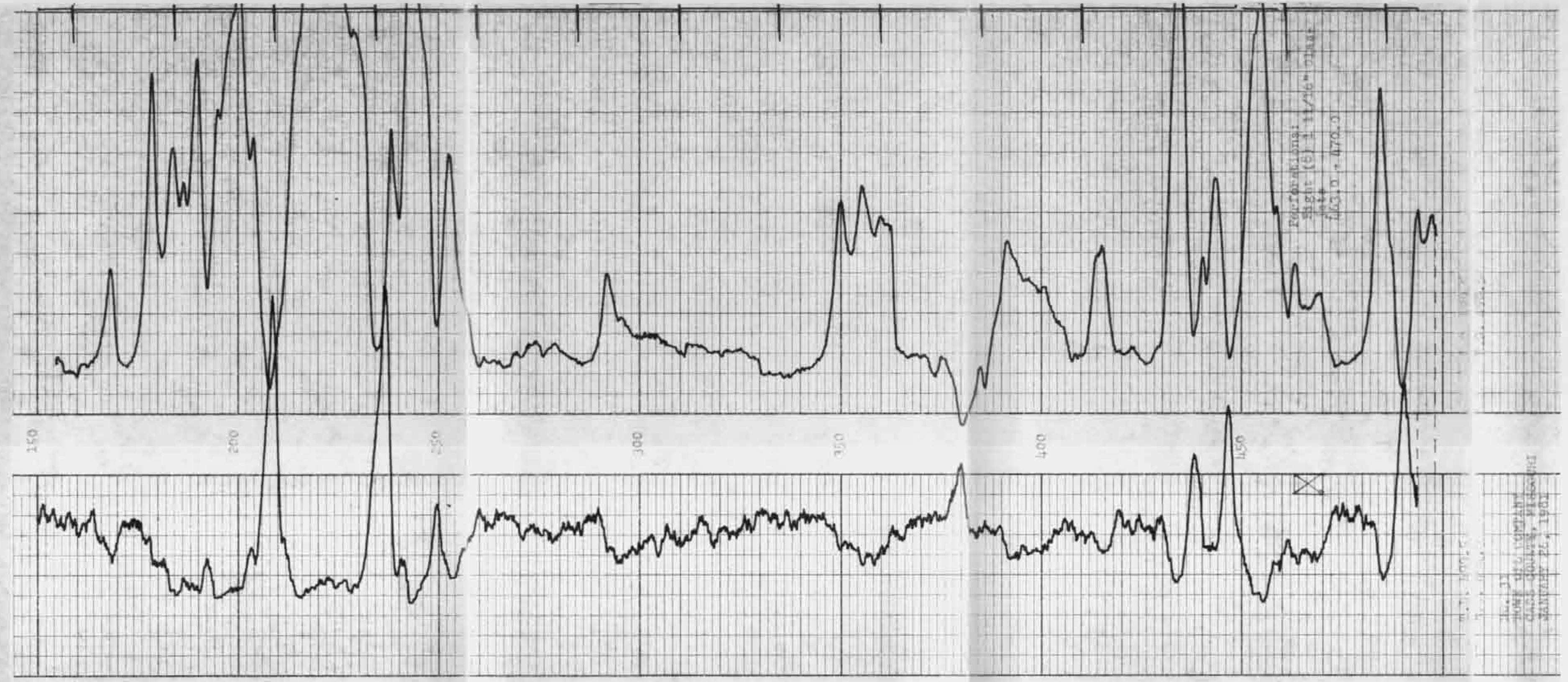
	GAMMA RAY	NEUTRON
RUN NO.	1 NW	1 NW
TOOL MODEL NO.	705	NEU/NEU
DIAMETER	1 1/16"	1 1/16"
DETECTOR MODEL NO.	705-GR	705 NE-3
TYPE	GEIGER	HE
LENGTH	1 3/8" x 18"	1" x 6"
DISTANCE TO H. SOURCE	4.5	71-1
SOURCE MODEL NO.		13-335 G
SPACING		13"
TYPE		AMBE-211
STRENGTH		3 CI
GENERAL: HOIST TRUCK NO.	0020	
INSTRUMENT TRUCK NO.	0020	
TOOL SERIAL NO.	0002	

LOGGING DATA

RUN NO.	GENERAL DEPTHS FROM	TO	SPEED FT./MIN.	T.C. SEC.	SIGNAL SETTINGS	GAMMA RAY DIV.	ATT. FACTORS OR UNITS PER LOG DIV.	T.C. SEC.	SIGNAL SETTINGS	NEUTRON DIV.	ATT. FACTORS OR UNITS PER LOG DIV.
1	0	T.D.	20	4.0	100/675	2 R	10	4.0	500/100	4 L	20

REFERENCE LITERATURE: 2" - CEMENTED

REMARKS: DRILLER'S CONTRACTOR: COMPANY #0013

GAMMA RAY NEUTRON DEPTH

CASING COLLARS