GCCCC3

Permit #2012

ENERGY RESOURCES, INC.

Formal Address (Office): 1111 Fairfax Street, Kansas City, Kansas 66115 (913) 342-5400

Laboratory Address: 1111 Fairfax Street, Kansas City, Kansas 66115

RECEIVED JUN 25 1981 MO. OIL & GAS COUNCIL

FIRMS INC.	
COMPANY	Thum Oil Co. ENERGY SERVICES, INC.
WELL	No. 56-R
FIELD	BRADY LEASE
COUNTY	CASS COUNTY, MISSOURI
LOCATION: SEC. 4	TWP. 46N RGE. 33W
OTHER SERVICES	CCL
PERMANENT DATUM	GL
LOG MEASURED FROM	KB 0.0 ft.
DRILLING MEASURED FROM	GL 0.0 ft.
DATE	1-17-81
RUN NO.	1 NW
TYPE LOG	GAMMA RAY
DEPTH-DRILLER	625.0
DEPTH-LOGGER	625.3
BOTTOM LOGGED INTERVAL	625.0
TYPE FLUID IN HOLE	WATER
SALINITY, PPM Cl	
DENSITY	
LEVEL	FULL
MAX. REC. TEMP. DEG.F	
EQUIPMENT NO.	
LOCATION	
RECORDED BY	MORGAN
WITNESSED BY	HURST

BIT		CASING RECORD		
SIZE	8 3/4	SIZE	4"	WGT.
FROM	0.0	FROM	0.0	
TO	20.6	TO	625.7	

BORE HOLE RECORD	
FROM	0.0
TO	20.6
SIZE	8 3/4"

THIS READING AND LOG COMPLIANT TO API RP 33

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	1 NW	RUN NO.	1 NW
TOOL MODEL NO.	705	LOG TYPE	NBU/NBU
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 H. SOURCE	4.5	LENGTH	1" x 6"
		SOURCE MODEL NO.	71-1
		SERIAL NO.	71-1-335 G
		SPACING	13"
		TYPE	AMBE-241
		STRENGTH	3 CI

GENERAL	
HOIST TRUCK NO.	0020
INSTRUMENT TRUCK NO.	0020
TOOL SERIAL NO.	0002

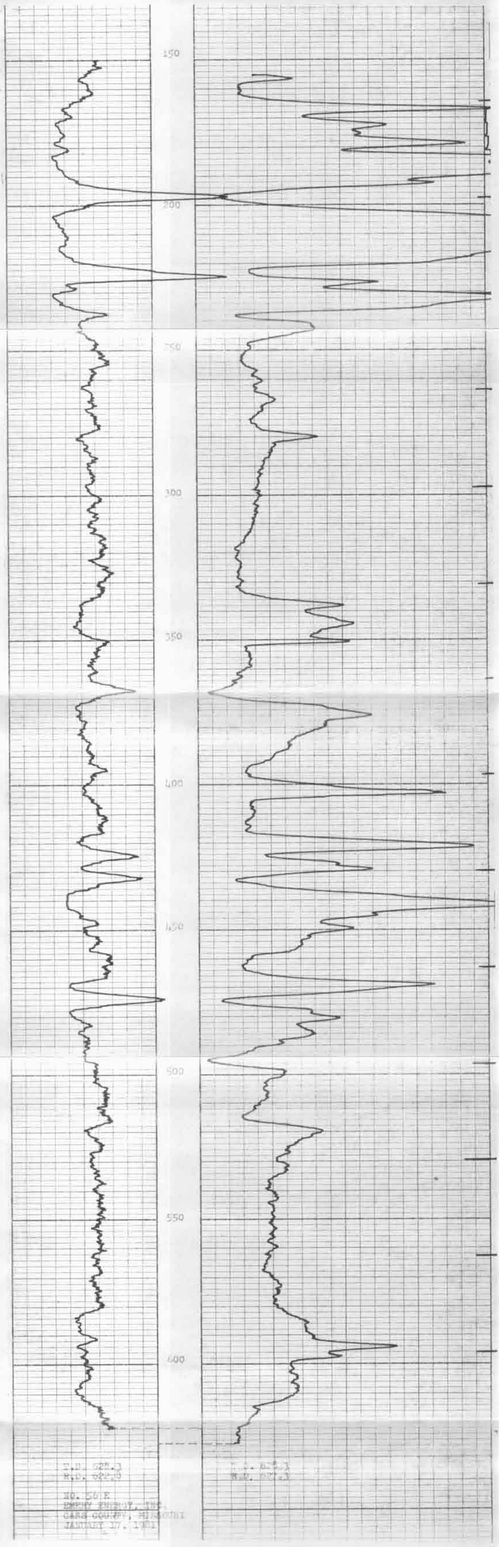
LOGGING DATA

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	2 R	10	4.0	500/100	4 L	20

REFERENCE LITERATURE 4" - CEMENTED

REMARKS DRILLING CONTRACTOR: H & H DRILLING INC.

GAMMA RAY DEPTH NEUTRON CASING COLLARS



NO. 201E
EMPIRE ENERGY, INC.
CASS COUNTY, MISSOURI
JANUARY 27, 1981