RECEIVED
JUL 30 1999
MIDWEST SURVEYS
Kansas City, Missouri

PLEASE SEND TO: Midwest Surveys, Inc. P.O. Box 1000 Pleasant Hill, Missouri 64080

COMPANY: D.E. Exploration
WELL: K-1
FIELD: Belton Unit
COUNTY: Cass
STATE: Missouri
OTHER SERVICES: FORMATE

Permit # 20671

LOCATION: SEC. 9 TWP. 46N RGE. 33W
4690.0 FSL - 2970.0 FEL
ELEV.: G.L. 0.0 K.B. 0.0 D.F. 0.0
PERMANENT DATUM: GL
LOG MEASURED FROM: GL
DRILLING MEASURED FROM: GL
APIRN: NA
APIWELL NO.: NA
1st SURVEY FROM SURFACE

DATE	5-5-99		
RUN NO.	1 NW		
DEPTH-DRILLER	620.0		
DEPTH-LOGGER	NA		
BOTTOM LOGGED INTERVAL	618.0		
TOP LOGGED INTERVAL	SURFACE		
CASING-DRILLER	4 1/2" @ 0.0		
CASING-LOGGER	NA		
BIT SIZE	6 3/4"		
TYPE FLUID IN HOLE	WATER		
DENSITY / VISC.	NA		
PH / FLUID LOSS	NA		
SOURCE OF SAMPLE	NA		
RM @ MEASURED TEMP.	NA		
RMF @ MEASURED TEMP.	NA		
RMC @ MEASURED TEMP.	NA		
SOURCE: RMF / RMC	NA		
RM @ BHT	NA		
TIME CIRC. STOPPED	NA		
TIME LOGGER ON BOTTOM	NA		
MAX. REC. TEMP.	NA		
EQUIP. LOCATION	Sedalia		
RECORDED BY	J. Bar		
WITNESSED BY	Steve Evans		

BOREHOLE RECORD			
BIT NO.	FROM	TO	SIZE
1	0.0	620.0	6 3/4"

CASING RECORD			
	FROM	TO	SIZE
1	0.0	5/1/99	4 1/2"

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 32

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO.	1 NW	RUN NO.	1 NW
TOOL MODEL NO.	102	LOG TYPE	NEU/NEU
DIAMETER	1 11/16"	TOOL MODEL NO.	102
DETECTOR MODEL NO.	E-1057	DIAMETER	1 11/16"
TYPE	SCINT.	DETECTOR MODEL NO.	E-1021
LENGTH	1' 4"	TYPE	HE-3
DISTANCE TO N. SOURCE	8.0	LENGTH	1" 1' 6"
		SOURCE MODEL NO.	71-1
GENERAL		SERIAL NO.	71-1-3558
HOIST TRUCK NO.	NA	SPACING	13"
INSTRUMENT TRUCK NO.	102	TYPE	Am/241be
TOOL SERIAL NO.	MS-0001	STRENGTH	3 CI

LOGGING DATA

RUN NO.	GENERAL: DEPTHS FROM	TO	SPEED FT/MIN.	T.C. SEC.	GAMMA RAY: SENS. SETTINGS	ZERO DIV. L OR R	API G.R. UNITS PER LOG DIV.	T.C. SEC.	NEUTRON: SENS. SETTINGS	ZERO DIV. L OR R	API N. UNITS PER LOG DIV.
1	10.0	618.0	20	40	1.85/100	OL	10	40	1.35/100	OL	20

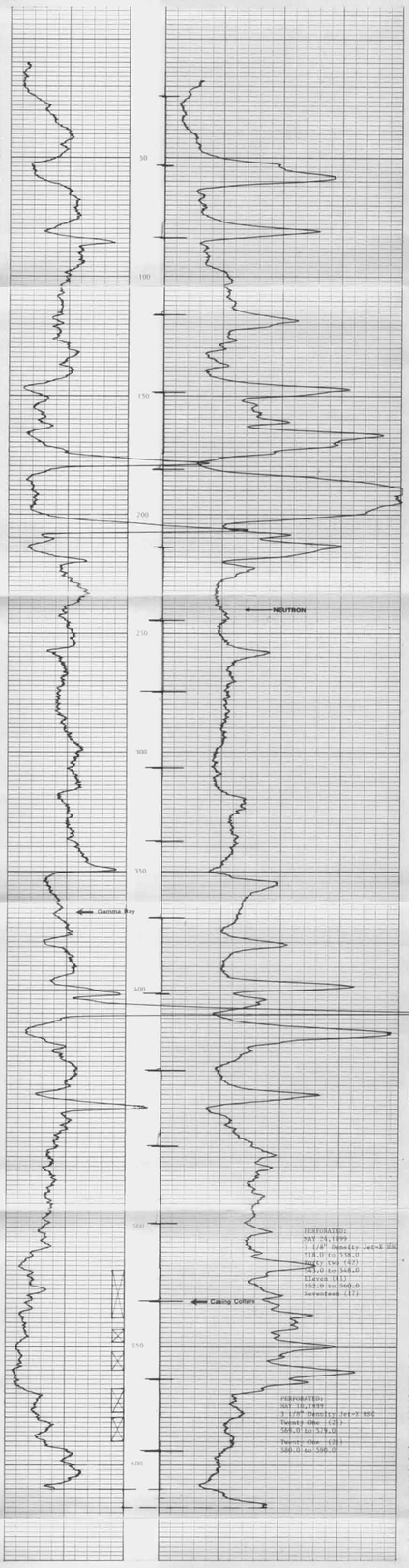
REFERENCE LITERATURE: 4 1/2" Cemented

REMARKS: Hughes Drilling Company

MIDCO 19341

GAMMA RAY — DEPTH — NEUTRON

CASING COLLARS



COMPANY	D.E. Exploration	GAMMA RAY T.D.	613.0
WELL	K-1	GAMMA RAY R.D.	600.0
LEASE	Belton Unit	NEUTRON T.D.	619.0
COUNTY	Cass, Missouri	NEUTRON R.D.	618.0
DATE	5/3/99	CASING SET @	T.D. & 1/2"