MIDWEST SURVEYS

Phone No.

COMPANY	D.C. Exploration, Inc.
WELL	A-13
FIELD	Belton Unit
COUNTY	Cass
STATE	Missouri
LOCATION: SEC. 16 TWP. 46N RGE. 33W	1700 FSL + 1410 FEL
OTHER SERVICES	Perforate
PERMANENT DATUM	Ground Level
ELEV.	0.0
LOG MEASURED FROM	Kelly Bushing
DRILLING MEASURED FROM	Kelly Bushing
ELEV. K.B.	NA
D.F.	NA
G.L.	NA
DATE	5-30-2000
RUN NO.	ONE
DEPTH-DRILLER	620.0
DEPTH-LOGGER	619.0
BOTTOM LOGGED INTERVAL	619.0
TOP LOGGED INTERVAL	20.0
CASING-DRILLER	20.0
CASING-LOGGER	NA
BIT SIZE	6 3/4
TYPE FLUID IN HOLE	Water
DENSITY	8.4
VISCOSITY	NA
PH	7.0
FLUID LEVEL	NA
SOURCE OF SAMPLE	NA
RM @ MEAS. TEMP.	NA
RMF @ MEAS. TEMP.	NA
RMC @ MEAS. TEMP.	NA
SOURCE RMF / RMC	NA / NA
RM @ BHT	NA
TIME CIRCULATION STOPPED	NA
TIME LOGGER ON BOTTOM	NA
MAX. REC. TEMP.	NA
EQUIPMENT NO.	NA
LOCATION	NA
RECORDED BY	S. Grimstock
WITNESSED BY	Dr. Evans

BOREHOLE RECORD

RUN NO.	BIT NO.	FROM	TO	SIZE
1	1	0.0	620.0	6 3/4

CASING RECORD

NO.	SIZE	WGT.	FROM	TO
1	4 1/2	10.5	0.0	620.0

Permit # 20690

FOLD HERE — THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO	NW	RUN NO	1 NW
TOOL MODEL NO	102	LOG TYPE	NEU/NEU
DIAMETER	1 11/16"	TOOL MODEL NO	102
DETECTOR MODEL NO	D-103	DIAMETER	1 11/16"
TYPE	SCINT.	DETECTOR MODEL NO	E-1031
LENGTH	15 x 4"	TYPE	HE-3
DISTANCE TO N. SOURCE	8.0	LENGTH	18" x 6"
GENERAL		SOURCE MODEL NO	71-1
MOIST TRUCK NO	NA	SERIAL NO	71-1-3558
INSTRUMENT TRUCK NO	102	SPACING	13"
TOOL SERIAL NO	MS-0001	TYPE	AB241Be
		STRENGTH	3 CI

LOGGING DATA

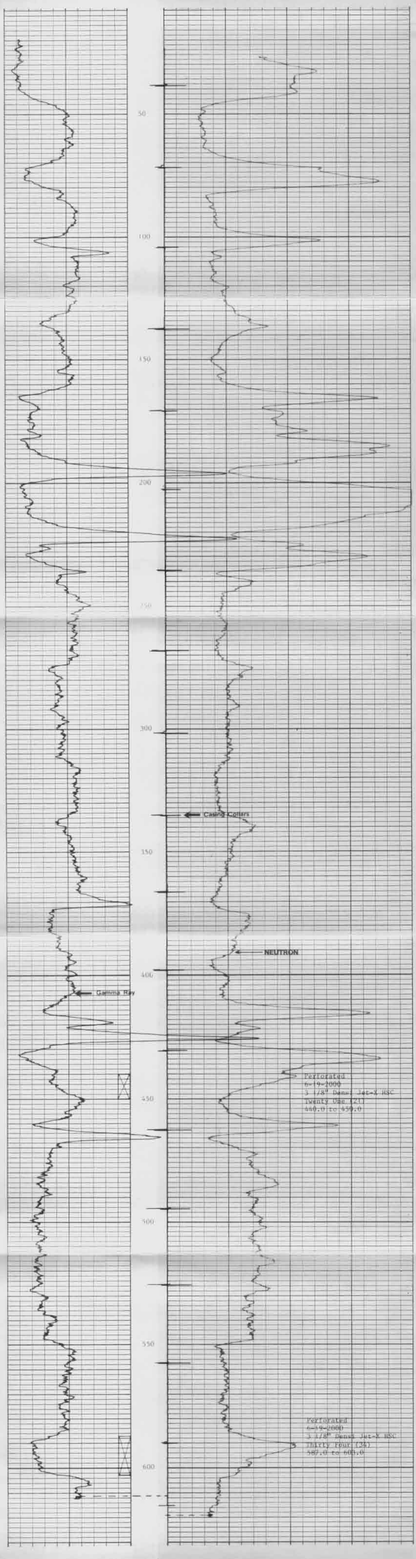
GENERAL				GAMMA RAY				NEUTRON			
RUN NO	DEPTH FROM	DEPTH TO	SPEED FT/MIN	T.C. SEC	SENS. SETTINGS	ZERO DIV. (OR B)	API G.R. UNITS PER LOG DIV.	T.C. SEC	SENS. SETTINGS	ZERO DIV. (OR B)	API N. UNITS PER LOG DIV.
1	20.0	619.0	20	4.0	1.85/100	OR	10	4.0	1.35/100	OR	20

REFERENCE LITERATURE: 4 1/2" Cemented

REMARKS: D.C. Evans Energy & Development, Inc.

GAMMA RAY — DEPTH — NEUTRON

CASING COLLARS



COMPANY	D.C. Exploration, Inc.	GAMMA RAY T.D.	
WELL	A-13	GAMMA RAY R.D.	611.0
LEASE	Belton Unit	NEUTRON T.D.	620.0
COUNTY	Cass, Missouri	NEUTRON R.D.	619.0
DATE	5-30-2000	CASING SET @	4 1/2" - T.D.