MIDWEST SURVEYS
LOGGING • PERFORATING • SURVEY TIME SERVICES
Pratt, Kansas 67124
Box 208
913-672-5126

RECEIVED
JUL 30 1999
Oil & Gas Council

FILING NO.

Permit # 20669

COMPANY D.E. Exploration, Inc.
WELL CB-4-A
FIELD Clark-Berry Lease
COUNTY Cass STATE Missouri

LOCATION: 1595 FSL - 2035 FEL
SEC 16 TWP 46N RGE 33W

OTHER SERVICES: CCL Perforate

PERMANENT DATUM G.L. ELEV. NA ELEV. K.B. NA
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM D.F. NA
DRILLED MEASURED FROM G.L. G.L. NA

DATE	5/3/99	5/3/99
RUN NO.	1 NW	1 NW
TYPE LOG	Gamma Ray	Neutron
DEPTH--DRILLER	NA	NA
DEPTH--LOGGER	619.0	619.0
BOTTOM LOGGED INTERVAL	609.0	618.0
TOP LOGGED INTERVAL	130.0	130.0
TYPE FLUID IN HOLE	Water	Water
SALINITY, PPM CL	NA	NA
DENSITY	NA	NA
LEVEL	Full	Full
MAX. REC. TEMP., DEG. F.	NA	NA
OPERATING RIG TIME	NA	NA
RECORDED BY	S. Windisch	S. Windisch
WITNESSED BY	Doug Evans	Doug Evans

RUN NO.	BIT	BORE-HOLE RECORD FROM	TO	CASING RECORD SIZE	WGT	FROM	TO
				6 1/2"		0.0	T.D.

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EQUIPMENT DATA

GAMMA RAY: RUN NO. 1 NW; TOOL MODEL NO. 102; DIAMETER 1 11/16"; SENSITIVITY/GAIN NO. 1.0; TYPE SCINT.; LENGTH 1.0 & 4'; DETECTOR NO. SOURCE; GENERAL: PROJECT TRUCK NO. NA; INSTRUMENT TRUCK NO. 102; TOOL SERIAL NO. HC-0001

NEUTRON: RUN NO. 1 NW; TOOL MODEL NO. NSH1/SHT; DIAMETER 1 11/16"; SENSITIVITY/GAIN NO. N-1031; TYPE HP-3 4"; DETECTOR MODEL NO. 7.1; LENGTH 7.1"-5554; SOURCE MODEL NO. AmBe/1.8Ci; SERIAL NO. 3 Ci; TYPE; STRENGTH

LOGGING DATA

GENERAL: RUN NO.	FROM	SCHED. TO	SPEED FT/MIN	T.C. TIME	SENS. MV/DIV	GAMMA RAY DEG. ON/OFF	AP CLS. UNITS ON/OFF	T.C.	SENS. UNITS	NEUTRON DEG. ON/OFF	AP CLS. UNITS ON/OFF	T.C.	SENS. UNITS	AMP. & VOLT. ON/OFF
1	130.0	618.0	20	40	1.83/100	On	10	40	1.33/100	On	20			

REFERENCE STRAPLINE: 6 1/2" - Cemented.

REMARKS: Hughes Drilling Company.

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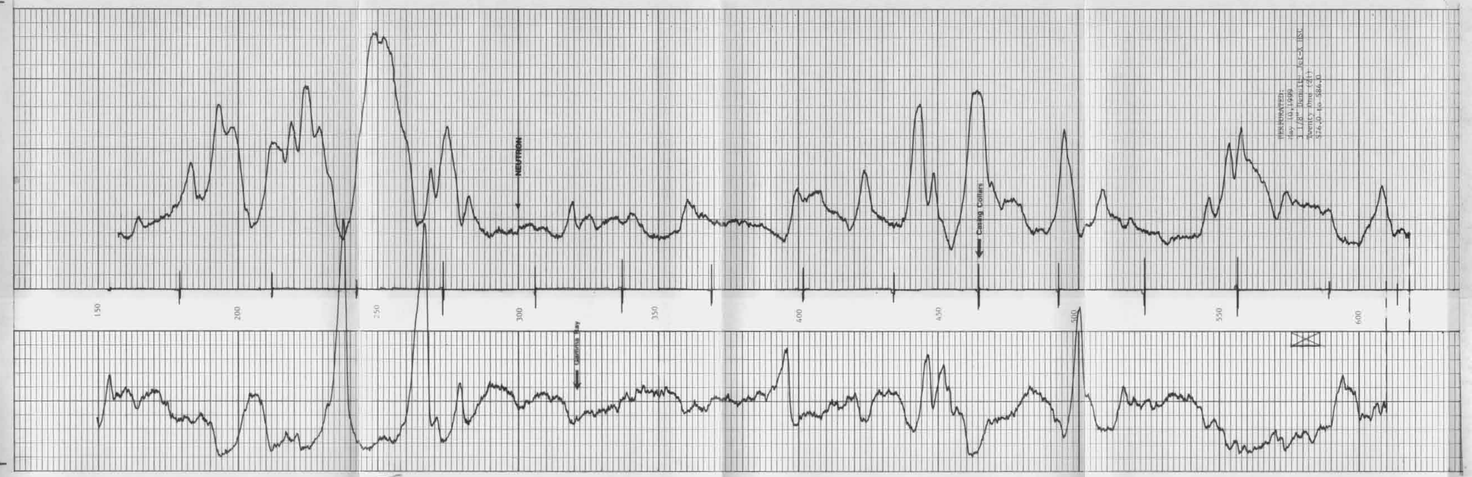
GAMMA RAY DEPTH: CASING COLLARS NEUTRON



GAMMA RAY T.D. 619.0
GAMMA RAY FLD. 619.0
NEUTRON T.D. 619.0
NEUTRON FLD. 618.0
CASING SET @ 6 1/2"

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LEASE Clark-Berry
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DATE 5/3/99