FEB 28 2000

MIDWEST SURVEYS

Wireline Services
Perforating
Production Services

FILING NO.

Permit No.
20666

COMPANY: D. K. Exploration, Inc.
WELL: AD - 14
FIELD: Bolton Unit
COUNTY: Caddo
STATE: Missouri

LOCATION: SEC. 9 TWP. 24N RGE. 33W
SE 1/4 1100 FSL - 660 FWL

PERMANENT DATUM: G.L.
LOG MEASURED FROM: G.L.
DRILLING MEASURED FROM: G.L.
elev.: K.B. N/A
D.F. N/A
G.L. N/A

OTHER SERVICES: CCL, Perforator

RUN NO.	DATE	TYPE LOG	DEPTH-DRILLER	DEPTH-LOGGER	BOTTOM LOGGED INTERVAL	TOP LOGGED INTERVAL	CASING-DRILLER	CASING-LOGGER	BIT SIZE	TYPE FLUID IN HOLE	DENSITY / VISC.	PH	FLUID LEVEL	MAX. REC. TEMP.	EQUIP. LOC.	RECORDED BY	WITNESSED BY
1	7/21/99	GR/N	609.0	N/A	600.0	0	16.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S. Windrich	Doug Evans
2	7/21/99	CCL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	S. Windrich	Doug Evans

BORE HOLE RECORD

RUN NO.	BIT NO.	FROM	TO
1	1	0	609.0

CASING RECORD

RUN NO.	SIZE	WGT.	GRADE	FROM	TO
1	4 1/2"	9.5#	J-55	0	609.0

FOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

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-1037	DIAMETER	1 11/16"
TYPE	SCINT.	DETECTOR MODEL NO.	E-1031
LENGTH	1' 0 4"	TYPE	HE-3
DISTANCE TO N. SOURCE	8.0	LENGTH	1' 4 x 4"
		SOURCE MODEL NO.	71-1
GENERAL		SERIAL NO.	71-1-355b
HOIST TRUCK NO.	5A	SPACING	13"
INSTRUMENT TRUCK NO.	102	TYPE	AmSi18E
TOOL SERIAL NO.	55-0001	STRENGTH	3 Ci

LOGGING DATA

RUN NO.	GENERAL DEPTHS FROM	TO	SPEED FT/MIN.	T.C. SEC.	SENS. SETTINGS	GAMMA RAY ZERO DIV. LOR R	API G.R. UNITS PER LOG DIV.	NEUTRON T.C. SEC.	SENS. SETTINGS	ZERO DIV. LOR R	API N. UNITS PER LOG DIV.
1	10.0	608.0	20	4.0	1.85/1000	OL	10	4.0	1.35/100	OL	20

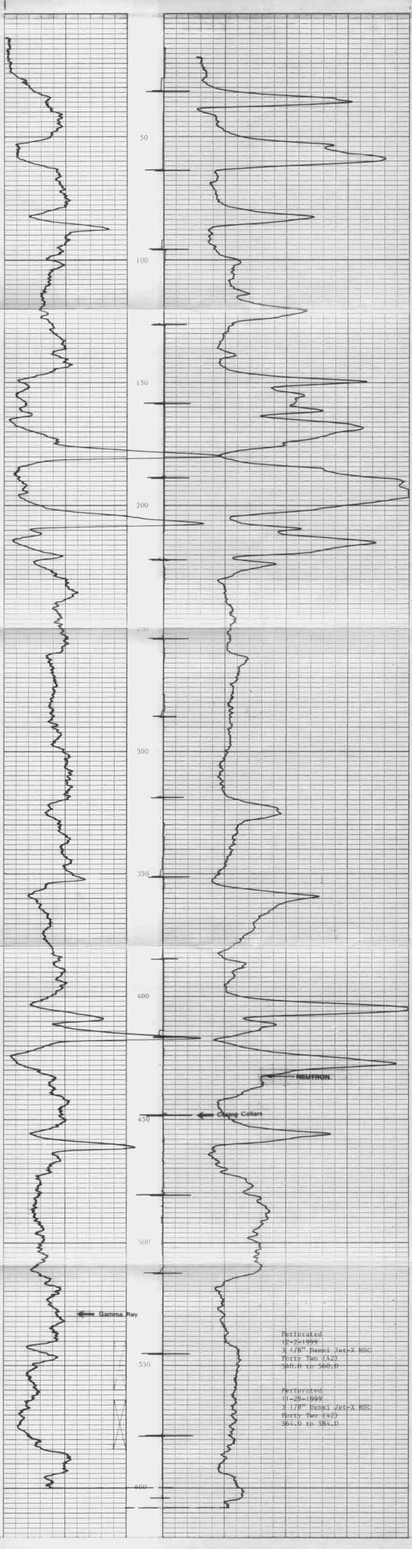
REFERENCE LITERATURE: 4 1/2" Cemented

REMARKS: D.C. Hughes Drilling Company

MWS 1818

GAMMA RAY — DEPTH: — NEUTRON

CASING COLLARS



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COMPANY	D. K. Exploration, Inc.	GAMMA RAY T.D.	609.0
WELL	AD - 14	GAMMA RAY R.D.	600.0
LEASE	Bolton Unit	NEUTRON T.D.	609.0
COUNTY	CADDO, OKLAHOMA	NEUTRON R.D.	608.0
DATE	7/21/1999	CASING SET @	4 1/2" T.D.