G-01702

Received 12-12-90

OGC # 200034

MIDWEST SURVEYS

LOGGING • PERFORATING • CONSULTING SERVICES

FILING NO.

COMPANY PENSE BROTHERS DRILLING COMPANY, INC.

WELL NO. 1

FIELD FERGUSON LEASE

COUNTY BATES STATE MISSOURI

LOCATION: SEC 2 TWP 41 RGE 32W

OTHER SERVICES: CCL PERFORATE

PERMANENT DATUM	G.L.	ELEV.	NA
LOG MEASURED FROM	G.L.	FT ABOVE PERM. DATUM	
DRILLING MEASURED FROM	G.L.		

ELEV.: K.B. NA, D.F. NA, G.L. NA

DATE	7-17-90	7-17-90
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	NA	NA
DEPTH—LOGGER	317.0	317.0
BOTTOM LOGGED INTERVAL	308.0	316.0
TOP LOGGED INTERVAL	10.0	18.0
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	C. PENSE	C. PENSE

BORE-HOLE RECORD

RUN NO.	BIT	FROM	TO

CASING RECORD

SIZE	WGT.	FROM	TO
4 1/2		0.0	T.D.

FORM REV. 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" X 4"	TYPE	HE-3
DISTANCE TO N. SOURCE	8.0	LENGTH	1" X 6"
		SOURCE MODEL NO.	71-1
GENERAL		SERIAL NO.	71-1-355B
HOIST TRUCK NO.	NA	SPACING	13"
INSTRUMENT TRUCK NO.	102	TYPE	Am241Be
TOOL SERIAL NO.	MS-0001	STRENGTH	3 CI

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	10.0	316.0	20	4.0	1.85/100	OL	10	4.0	1.35/100	OL	20

REFERENCE LITERATURE: 4 1/2" CEMENTED

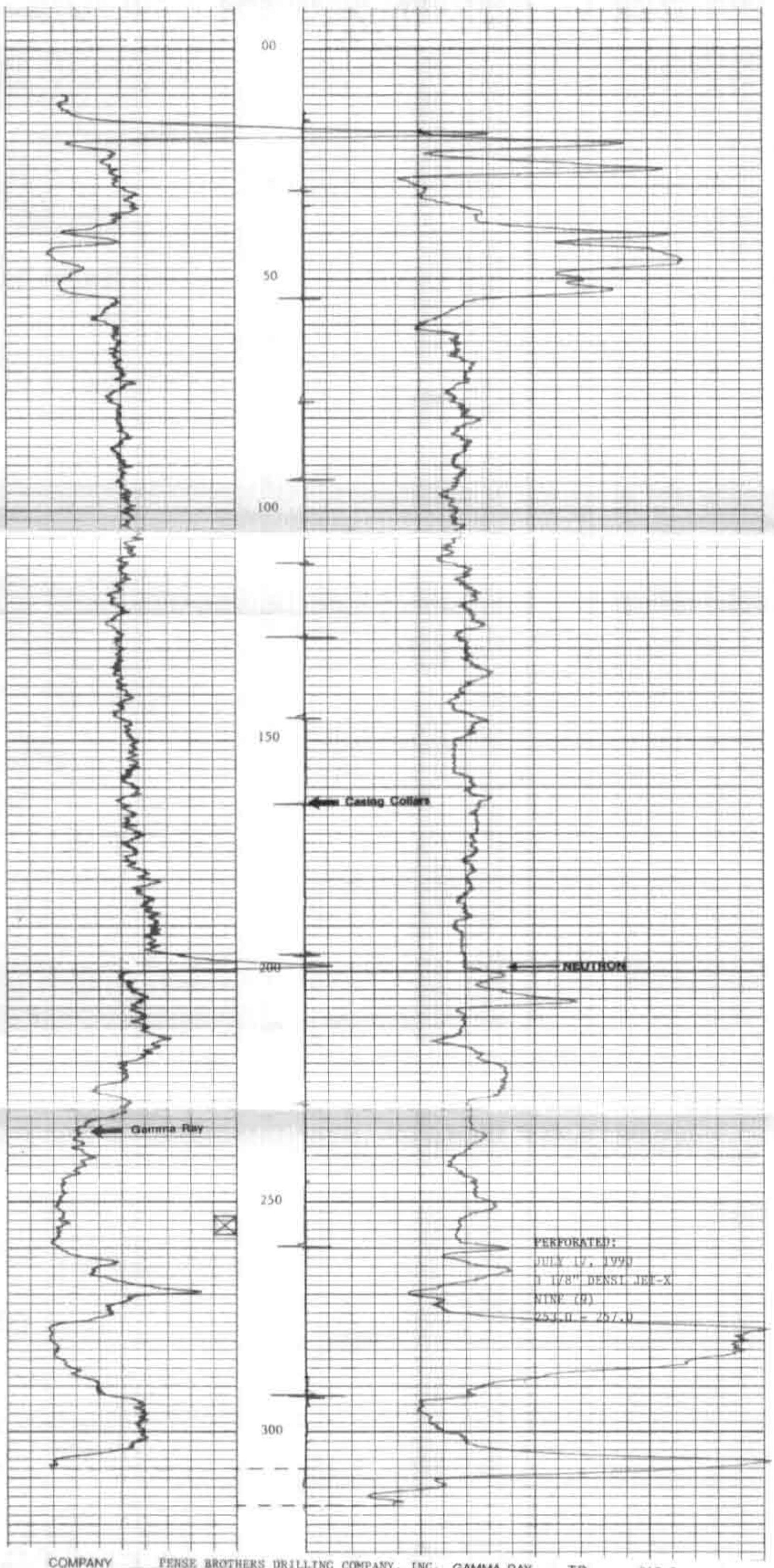
REMARKS: D.C. PENSE BROTHERS DRILLING COMPANY

NSEO 19240

GAMMA RAY DEPTH NEUTRON

CASING

COLLARS



COMPANY	PENSE BROTHERS DRILLING COMPANY, INC.	GAMMA RAY	T.D.	317.0
WELL	NO. 1	GAMMA RAY	R.D.	308.0
LEASE	FERGUSON	NEUTRON	T.D.	317.0
COUNTY	BATES, MISSOURI	NEUTRON	R.D.	316.0
DATE	JULY 17, 1990	CASING SET @		T.D.