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ORNISH

WIRELINE SERVICES, INC.
P.O. DRAWER H
CHANUTE, KANSAS

RADIOACTIVITY LOG

FILING NO.

COMPANY PENSE BROTHERS DRILLING COMPANY

WELL MARKHAM NO. 4

FIELD

COUNTY CASS STATE MISSOURI

LOCATION

SEC 5 TWP 43N RGE 33W

OTHER SERVICES

PERMANENT DATUM: GROUND LEVEL ELEV.
LOG MEASURED FROM G.L. FT. ABOVE PERM. DATUM ELEV. K.B.
DRILLING MEASURED FROM G.L. D.F. G.L.

DATE	5-18-94	5-18-94
RUN NO	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH—DRILLER	283.5'	283.5'
DEPTH—LOGGER	277.7'	282.5'
BOTTOM LOGGED INTERVAL	60.0'	65.0'
TOP LOGGED INTERVAL	WATER	WATER
TYPE FLUID IN HOLE		
SALINITY, PPM CL		
DENSITY	FULL	FULL
LEVEL		
MAX. REC. TEMP., DEG F		
OPERATING RIG TIME	CORNISH, J.	CORNISH, J.
RECORDED BY	PENSE, G.	PENSE, G.
WITNESSED BY	BLANCETT, B.	BLANCETT, B.

BORE HOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	WGT	FROM	TO
				4½"		0	T.D.

HOLD HERE

THIS HEADING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

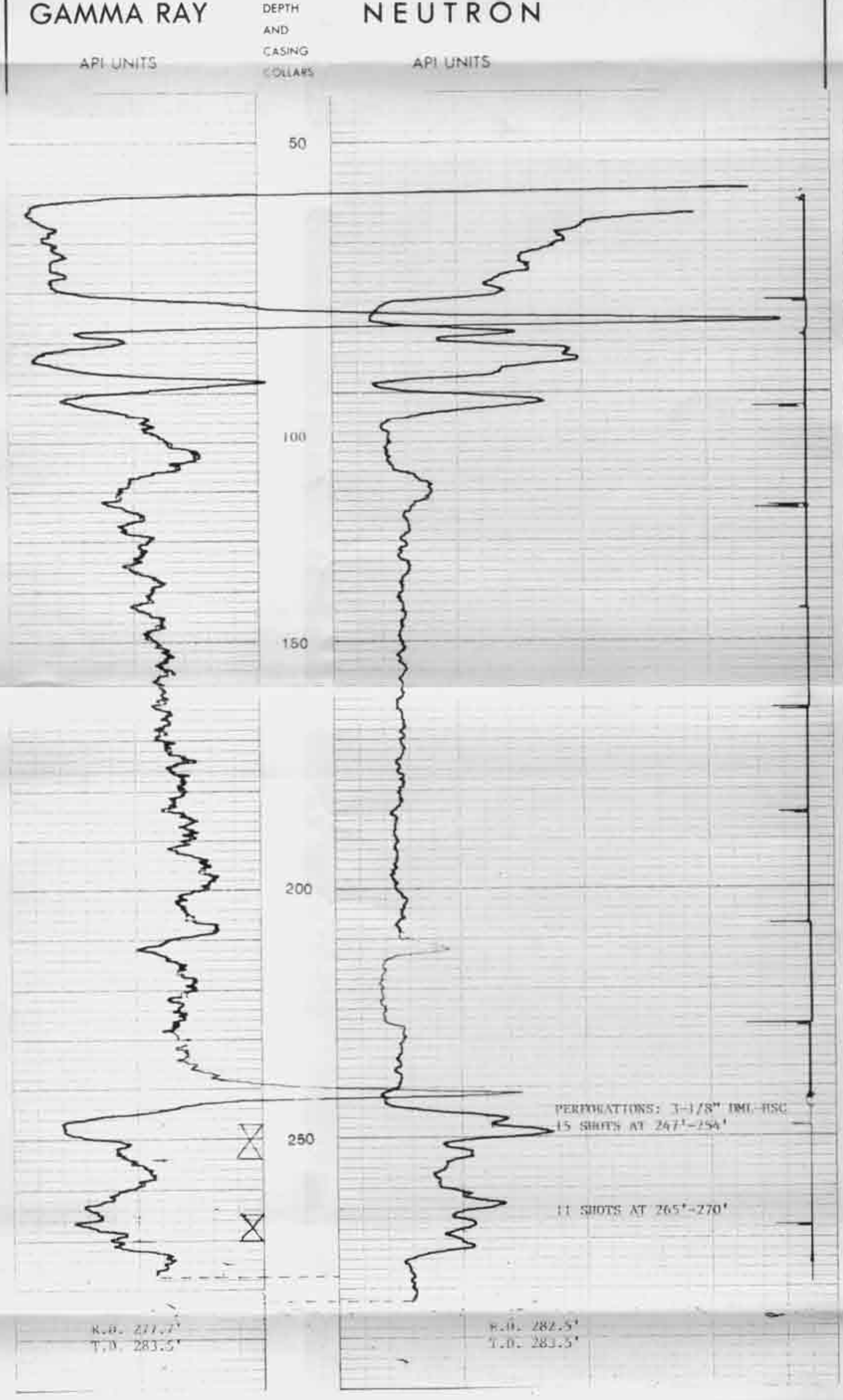
GAMMA RAY			NEUTRON		
RUN NO	1 NW		RUN NO	1 NW	
TOOL MODEL NO	9205		LOG TYPE	NEU/NEU	
DIAMETER	1-11/16"		TOOL MODEL NO	9205	
DETECTOR MODEL NO	95SC		DIAMETER	1-11/16"	
TYPE	SCINT.		DETECTOR MODEL NO	95HE	
LENGTH	1"X4"		TYPE	He-3	
DISTANCE TO N. SOURCE	8.5'		LENGTH	1"x6"	
			SOURCE MODEL NO.	AC	
GENERAL			SERIAL NO	MRC415	
HOIST TRUCK NO	105		SPACING	13"	
INSTRUMENT TRUCK NO	105		TYPE	Am/Be	
TOOL SERIAL NO	1C		STRENGTH	6.7x10-6	

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	282.5'	60'	25	2.5	10-.0	2L	20	2.0	0-.35	4L	

REFERENCE LITERATURE

REMARKS



MARKHAM NO. 4

PENSE BROTHERS DRILLING COMPANY

CASS COUNTY, MISSOURI

MAY 18, 1994

GAMMA RAY/NEUTRON/PERFORATE 5/43N/33W