G3C983

Permit #20203

MIDWEST SURVEYS

LOGGING & PERFORATING CONSULTING SERVICES

Fixed Office: P.O. Box 1126 Eldridge, Iowa 52748 515 285-4128

Mobile Office: P.O. Box 1126 Eldridge, Iowa 52748 515 285-4128

Field Office: 1 Ridgeway Drive Grandview, Mo. 64030 816 966-1979

FILING NO.

COMPANY PROTAAL RESOURCES

WELL NO. 1

FIELD DEBACKER LEASE

COUNTY CASS COUNTY, MO

LOCATION: 436'FSL & 326'FWL SE-SE-SW

SEC 35 TWP 46N RGE 33W

PERMANENT STATION

LOG MEASURED FROM G.L.

DRILLING MEASURED FROM G.L.

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

Ft. ABOVE PERM. DATUM

OTHER SERVICES CCL

	GAMMA RAY	NEUTRON
DATE	7-25-81	7-25-81
RUN NO.	1 NW	1 NW
TYPE LOG	GAMMA RAY	NEUTRON
DEPTH-DRILLER		
DEPTH-LOGGER	590.8	590.8
BOTTOM LOGGED INTERVAL	585.3	589.8
TOP LOGGED INTERVAL	170.0	170.0
TYPE FLUID IN HOLE	WATER	WATER
SALINITY PPM CL		
DENSITY		
LEVEL	FULL	FULL
MAX. REC. TEMP. DEG. F		
OPERATING RIG TIME		
RECORDED BY	REM RAWSON	REM RAWSON
WITNESSED BY	LES FETTERBY	LES FETTERBY

RECEIVED AUG 23 1982 MO. OIL & GAS COUNCIL

BORE HOLE RECORD			CASING RECORD		
RUN NO.	BIT	FROM	TO	SIZE	WGT.	TO
				4 1/2	9.0	T.D.

FOLD HERE

THIS READING AND LOG CONFORMS TO API RP 33

EQUIPMENT DATA

GAMMA RAY		NEUTRON	
RUN NO	1 NW	RUN NO	1 NW
TOOL MODEL NO	104	LOG TYPE	NEU/NEU
DIAMETER	1 11/16"	TOOL MODEL NO	104
DETECTOR MODEL NO	E-1057	DIAMETER	1 11/16"
TYPE	SCINT.	DETECTOR MODEL NO	E-1031
LENGTH	1" x 4"	TYPE	HE-3
DISTANCE TO N. SOURCE	4.5	LENGTH	1" x 6"
		SOURCE MODEL NO	71-1
GENERAL		SERIAL NO	71-1-354B
HOIST TRUCK NO	NA	SPACING	13"
INSTRUMENT TRUCK NO	104	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	170.0	589.8	25	3.0	600/100	2L	10	3.0	600/100	3L	20

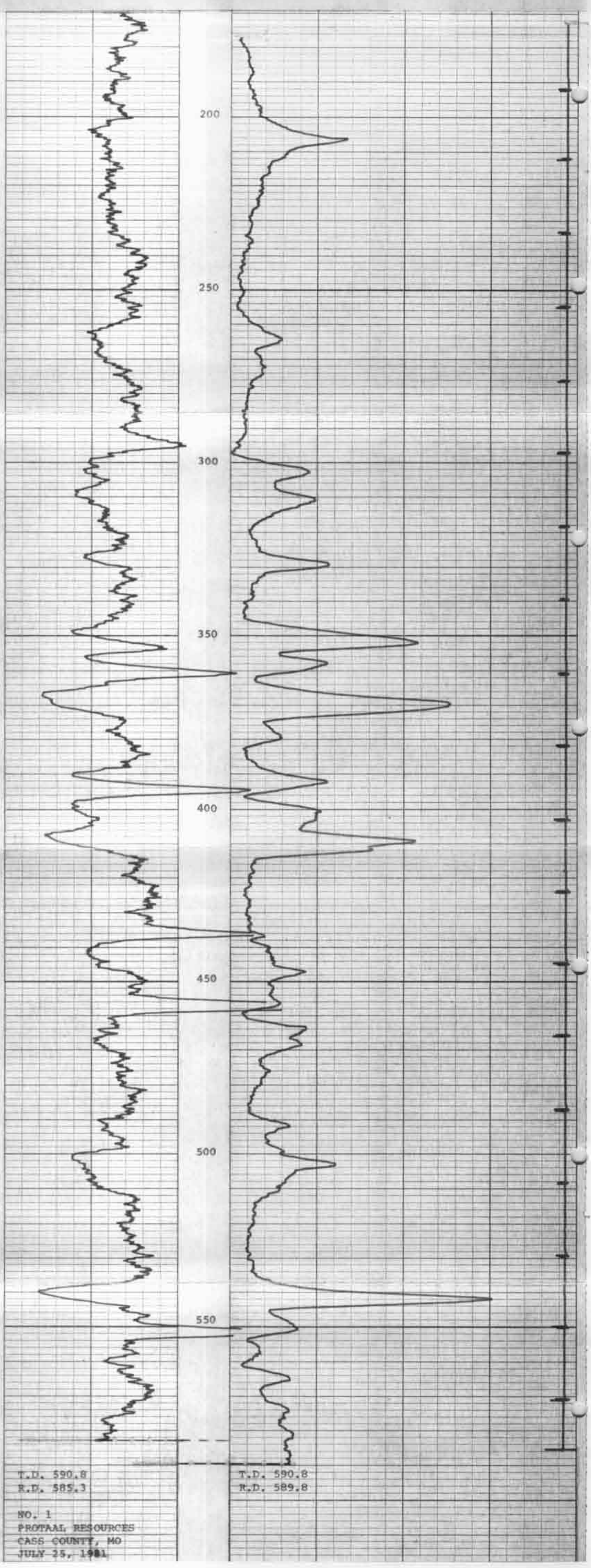
REFERENCE LITERATURE 4 1/2" - NOT CEMENTED

REMARKS

NASCO 16245

GAMMA RAY DEPTH NEUTRON

CASING COLLARS



T.D. 590.8
R.D. 585.3

T.D. 590.8
R.D. 589.8

NO. 1
PROTAAL RESOURCES
CASS COUNTY, MO
JULY 25, 1981