

CORE LABORATORIES, INC.



APR 17 1981

O. C. D.
ARTESIA, OFFICE
Petroleum Reservoir Engineering

COMPANY POGO PRODUCING COMPANY ✓ FIELD SOUTH CABIN LAKE Well #1 FILE 3202-12256
ELL S.C.L. FEDERAL #1 COUNTY EDDY DATE 4-4-81
LOCATION Sec. 1-20S-31E STATE NEW MEXICO ELEV. _____

CORE-GAMMA CORRELATION

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted) but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

COREGRAPH

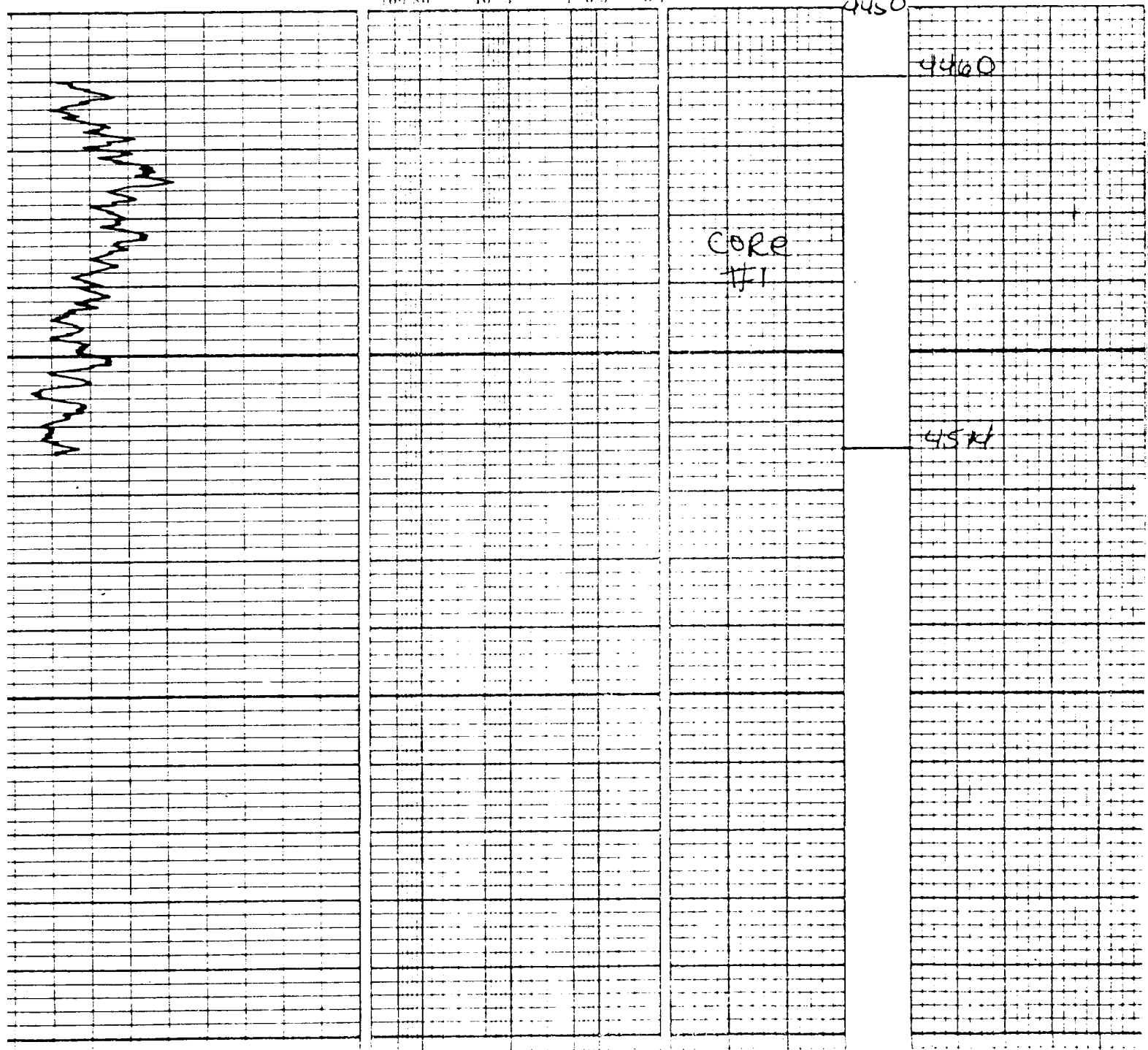
GAMMA RAY
RADIATION INCREASE
→

TOTAL WATER _____
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY _____
MILLIDARCYs
100 50 10 5 1 0.5 0.1

POROSITY _____
PERCENT
100 80 60 40 20 0

OIL SATURATION _____
PERCENT PORE SPACE
20 40 60 80



POGO PRODUCING COMPANY

S.C.L. FEDERAL NO. 1

SOUTH CABIN LAKE FIELD

EDDY COUNTY, NEW MEXICO

CORE LABORATORIES, INC.



APR 13 1981

April 13, 1981

POGO PRODUCING COMPANY
P. O. Box 10340
Midland, Texas 79702

File : 3202-12256
Subject: Core Analysis
S.C.L. Federal No. 1
South Cabin Lake Field
Eddy County, New Mexico

Gentlemen:

The subject well was cored using diamond coring equipment and brine water to obtain 4 inch diameter cores from 4460 to 4514 feet from the Delaware formation.

The cores were preserved at the wellsite in a CO₂ atmosphere and transported to Midland by Core Laboratories, Inc. personnel.

A Core Gamma Log was recorded for downhole E-log correlation.

Core analysis data is presented in tabular and graphical form for your convenience. A procedural page is also included with other pertinent data.

The core was boxed after the analysis and was released to M & M Enterprises, Inc.

We trust these data will be useful in the evaluation of your property and thank you for the opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.

A handwritten signature in black ink, reading "Jack H. Neff". The signature is written in a cursive, flowing style.

Jack H. Neff
Laboratory Manager

JHN/dmh/tah

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

POGO PRODUCING COMPANY
S.C.L. FEDERAL NO. 1
SOUTH CABIN LAKE FIELD
EDDY COUNTY, NEW MEXICO

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

POGO PRODUCING COMPANY
 S.C.L. FEDERAL NO. 1
 SOUTH CABIN LAKE FIELD
 EDDY COUNTY, NEW MEXICO

DATE : 4-4-81
 FORMATION : DELAWARE
 DRLG. FLUID: BRINE WATER
 LOCATION : 530' FSL & 330' FWL, SEC. 1,

FILE NO : 3202-12256
 ANALYSIS : REINHHEIMER
 LABORATORY: MIDLAND, TEXAS
 T-22-S, R-31-E

FULL DIAMETER ANALYSIS

DEPTH
FEET

DESCRIPTION

CORE NO. 1 4460.0-4510.0 CUT 50' REC 54'

4460.0-70.0
 4470.0-90.0
 4490.0-14.0

NA SD SL/SHY SL/LMY
 NA SD SL/SHY SL/LMY SHLAM
 NA SD LMY SL/SHY SHLAM

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

LITHOLOGICAL ABBREVIATIONS

ANH(Y)	ANHYDRITE, ANHYDRITIC	LM(Y)	LIMESTONE, LIMY
ARK	ARKOSE, ARKOSIC	MG	MEDIUM GRAINED
BAN	BAND, BANDED	MTX	MATRIX
BREC	BRECCIA, BRECCIATED	NA	INTERVAL NOT ANALYZED (AT REQUEST OF CLIENT)
CALC	CALCITE, CALCAREOUS	NOD	NODULE, NODULAR
CARB	CARBONACEOUS	OOL	OOLITIC
CG	COARSE GRAINED	PISO	PISOLITIC
CHK(Y)	CHALK, CHALKY	PP	PINPOINT POROSITY
CHT(Y)	CHERT, CHERTY	PT	PARTING
CONGL	CONGLOMERATE, CONGLOMERITIC	PYR	PYRITE, PYRITIC
CXLN	COARSELY CRYSTALLINE	SD(Y)	SANDSTONE, SANDY
DNS	DENSE	SH(Y)	SHALE, SHALY
DOL(C)	DOLOMITE, DOLOMITIC	SHR	SOLID HYDROCARBON RESIDUE
F	RANDOMLY ORIENTED FRACTURES	SL/	SLIGHTLY
FG	FINE GRAINED	SLT(Y)	SILT, SILTY
FOSS	FOSSILIFEROUS	STY	STYLOLITE, STYLOLITIC
FR	FRIABLE	SUC	SUCROSLIC
FXLN	FINELY CRYSTALLINE	SUL	SULPHUR
GAL	GALENA	TBFA	TOO BROKEN FOR ANALYSIS
GLAUC	GLAUCONITE, GLAUCONITIC	TRIP	TRIPOLITE
GRAN	GRANITE	V/	VERY
GUP	GYPSUM, GYPSIFEROUS	VF	PREDOMINANTLY VERTICALLY FRACTURED
HF	PREDOMINANTLY HORIZONTALLY FRACTURED	V	VUGULAR
INC	INCLUSION	XBD	CROSSBEDDED
INTBD	INTERBEDDED	XLN	MEDIUM CRYSTALLINE
LAM	LAMINATED	XTL	CRYSTAL

THE FIRST WORD IN THE DESCRIPTION COLUMN OF THE CORE ANALYSIS REPORT DESCRIBES THE ROCK TYPE. FOLLOWING ARE ROCK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TERMS.

DISTRIBUTION OF FINAL REPORTS

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