CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
PHILLIPS STATE-E NO. 15
VACUUM FIELD
LEA COUNTY, NEW MEXICO

DATE: 9-1-72
FORMATION: GRAYBURG
DRLG.FLUID: WATER BASE MUD
LOCATION: 1980 FSL 660 FWL SEC 14-T17S-R33E

FILE NO. 623-3483
ENGINEER: BOONE
ELEVATION: 4170 DF

CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	PERMEABILITY MD. 90	POROSITY PCT.	FLUID SATS. OIL	FLUID SATS. WTR.	DESCRIPTION
	4310.0-13.0	DOL, NO ANALYSIS					
	4313.0-16.0	ANHY, NO ANALYSIS					
	4316.0-18.0	SH,SDY, NO ANALYSIS					
	4318.0-24.0	DOL, NO ANALYSIS					
	4324.0-28.0	ANHY, NO ANALYSIS					
	4328.0-40.0	ANHY,SDY, NO ANALYSIS					
	4340.0-44.0	ANHY, NO ANALYSIS					
	4344.0-47.0	DOL, NO ANALYSIS					
	4347.0-49.0	ANHY, NO ANALYSIS					
	4349.0-58.0	DOL, NO ANALYSIS					

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CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	PERMEABILITY MD. 90	POROSITY PCT.	FLUID SATS. OIL	FLUID SATS. WTR.	DESCRIPTION
	4358.0-60.0	ANHY, NO ANALYSIS					
	4360.0-73.0	DOL, ANHY, SHY, NO ANALYSIS					
	4373.0-75.0	DOL, SDY, NO ANALYSIS					
	4375.0-78.0	DOL, SHY, NO ANALYSIS					
	4378.0-87.0	DOL, SDY, NO ANALYSIS					
	4387.0-02.0	DOL, ANHY, NO ANALYSIS					
	4302.0-06.0	LOST CORE					
	4406.0-09.0	DOL, SDY, NO ANALYSIS					
	4409.0-12.0	SD, DOL, NO ANALYSIS					
	4412.0-13.0	DOL, SDY, NO ANALYSIS					
1	4413.0-14.0	<0.1		2.9	6.9	72.5	DOL, SDY

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CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	PERMEABILITY MD. 90	POROSITY PCT.	FLUID SATS. OIL	FLUID SATS. WTR.	DESCRIPTION
2	4414.0-15.0	<0.1		5.9	0.0	79.7	SD
3	4415.0-16.0	2.2		15.6	12.2	39.2	SD
4	4416.0-17.0	3.4		9.8	18.4	39.8	SD
5	4417.0-18.0	2.3		12.5	16.8	24.8	SD
6	4418.0-19.0	1.2		8.7	16.1	44.8	SD
	4419.0-31.0	DOL,SHY, NO ANALYSIS					
	4431.0-32.0	LOST CORE					
	4432.0-69.0	DOL,SHY, NO ANALYSIS					
7	4469.0-70.0	0.4		8.6	18.6	45.3	SD,DOL
	4470.0-76.0	DOL,SHY, NO ANALYSIS					
	4476.0-84.0	LOST CORE					
	4484.0-09.0	DOL,SHY, NO ANALYSIS					
	4509.0-14.0	DOL,SDY,SHY, NO ANALYSIS					
	4514.0-22.0	DOL,SHY, NO ANALYSIS					

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CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	PERMEABILITY MD. 90	POROSITY PCT.	FLUID SATS. OIL	FLUID SATS. WTR.	DESCRIPTION
	4522.0-25.0	SD,DOL, NO ANALYSIS					
	4525.0-37.0	DOL,SHY, NO ANALYSIS					
	4537.0-38.0	SD,DOL, NO ANALYSIS					
	4538.0-39.0	DOL,SHY, NO ANALYSIS					
	4539.0-44.0	DOL,SDY,SHY, NO ANALYSIS					
	4544.0-60.0	DOL, NO ANALYSIS					

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY PHILLIPS PETROLEUM COMPANY FIELD VACUUM FILE WP-3-3483

WELL PHILLIPS STATE-E NO. 15 COUNTY LEA DATE 9-1-72

LOCATION 1980 FS & 660 FWL STATE NEW MEXICO ELEV. 4170' DF
SEC 14-T17S-R33E

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

GAMMA RAY
RADIATION INCREASE →

GRAYBURG

COREGRAPH

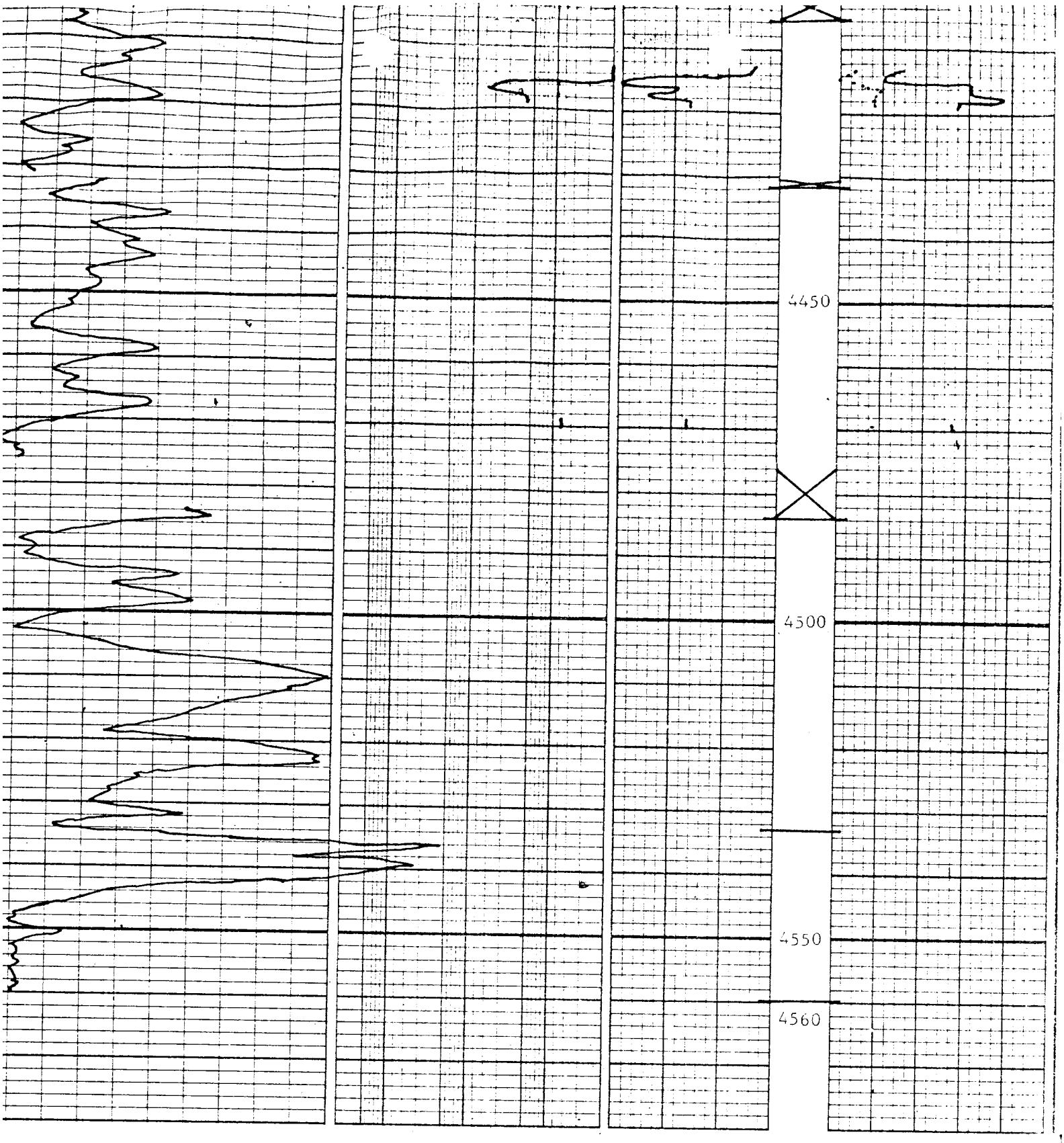
TOTAL WATER
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY
MILLIDARCYS
100 50 10 5 1 0.5 0.1

POROSITY
PERCENT
10 5

OIL SATURATION
PERCENT PORE SPACE
0 20 40 60 80

4310
4350
4400
4450


4450
4500
4550
4560