

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

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

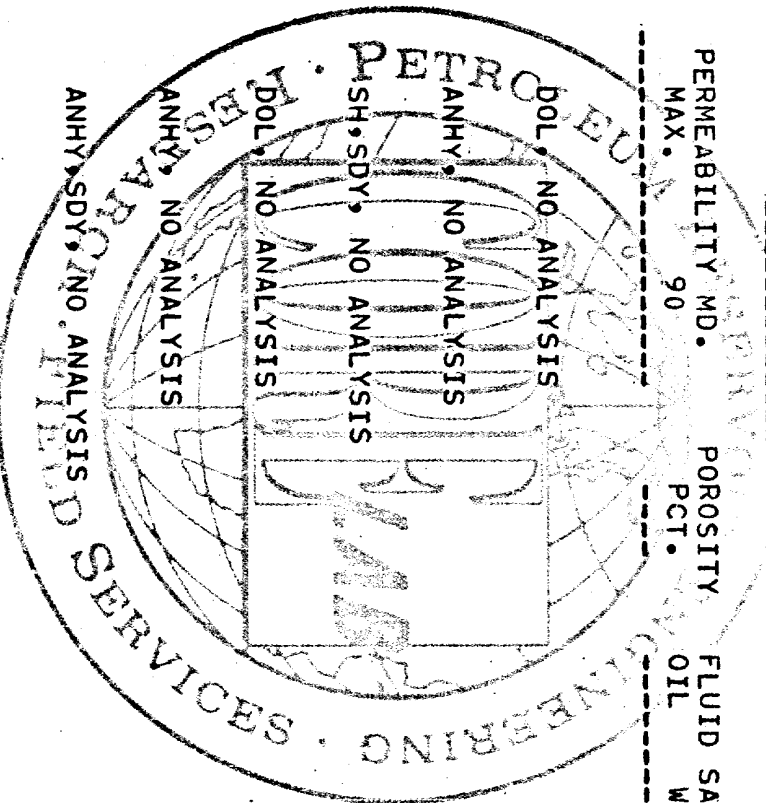
DATE: 9-1-72
FORMATION: GRAYBURG
DRG. FLUID: WATER BASE MUD
LOCATION: 1980 FSL 660 FWL SEC 14-T17S-R33E

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

CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD.		POROSITY PCT.	FLUID OIL	SATS. WTR.	DESCRIPTION
		MAX.	90				
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					



These analyses, opinions of 349-58 based on observations and analysis 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 operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

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HOODS, W. M.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering

DALLAS, TEXAS

PHILLIPS PETROLEUM COMPANY
PHILLIPS STATE NO. 15

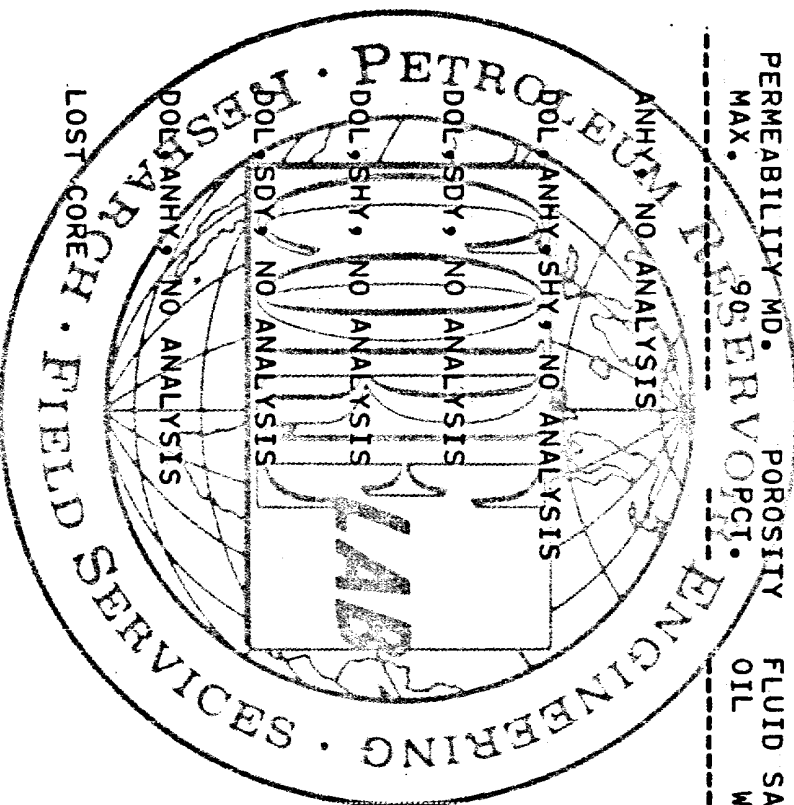
DATE: 9-1-72
FORMATION: GRAYBURG

FILE NO. 623-3483
ENGINEER: BOONE

CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	POROSITY 90 SERV. PCT.	FLUID SATS. OIL 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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PHILLIPS PETROLEUM COMPANY
 PHILLIPS STATE-E NO. 15

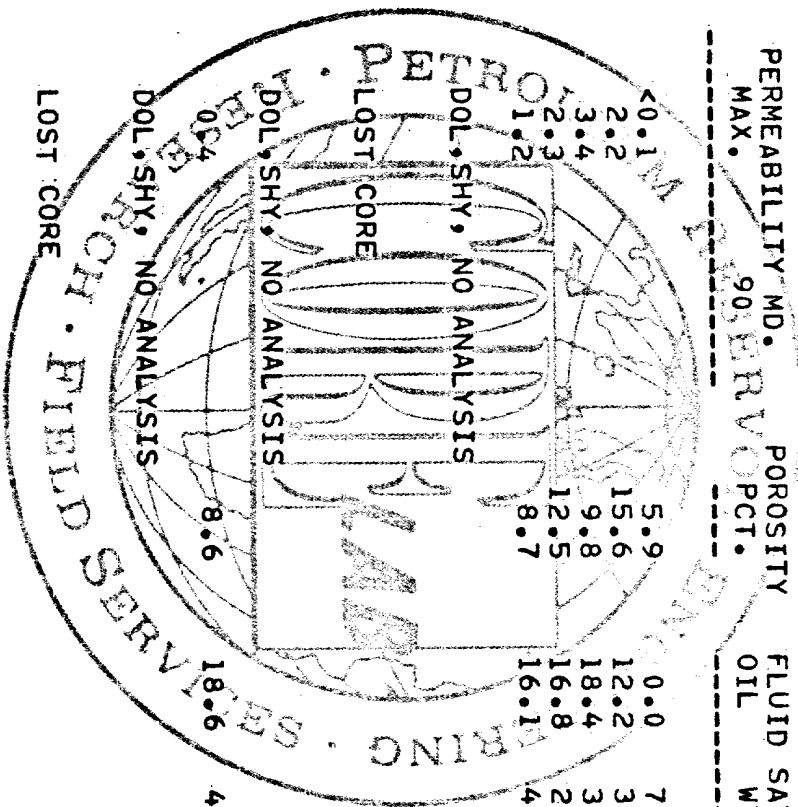
DALLAS, TEXAS
 DATE: 9-1-72
 FORMATION: GRAYBURG

FILE NO. 623-3483
 ENGINEER: BOONE

CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	90% RESERV. PCT.	POROSITY	FLUID SATS. OIL	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						
	4431.0-32.0						
	4432.0-69.0						
7	4469.0-70.0					SD,DOL	
	4470.0-76.0						
	4476.0-84.0						
	4484.0-09.0						
	4509.0-14.0						
	4514.0-22.0						



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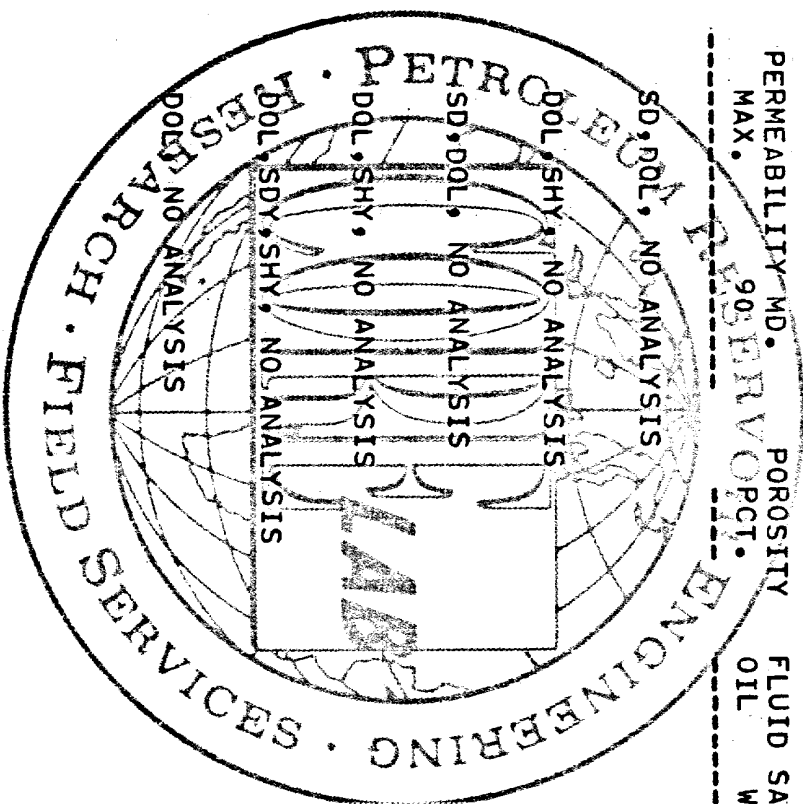
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FILE NO. 623-3483
 ENGINEER: BOONE

CORE ANALYSIS RESULTS

CONVENTIONAL (PLUG) ANALYSIS

SMP. NO.	DEPTH	PERMEABILITY MD. MAX.	POROSITY 90% RESV O PCT.	FLUID SATS. OIL 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			



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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

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VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

COREGRAPH

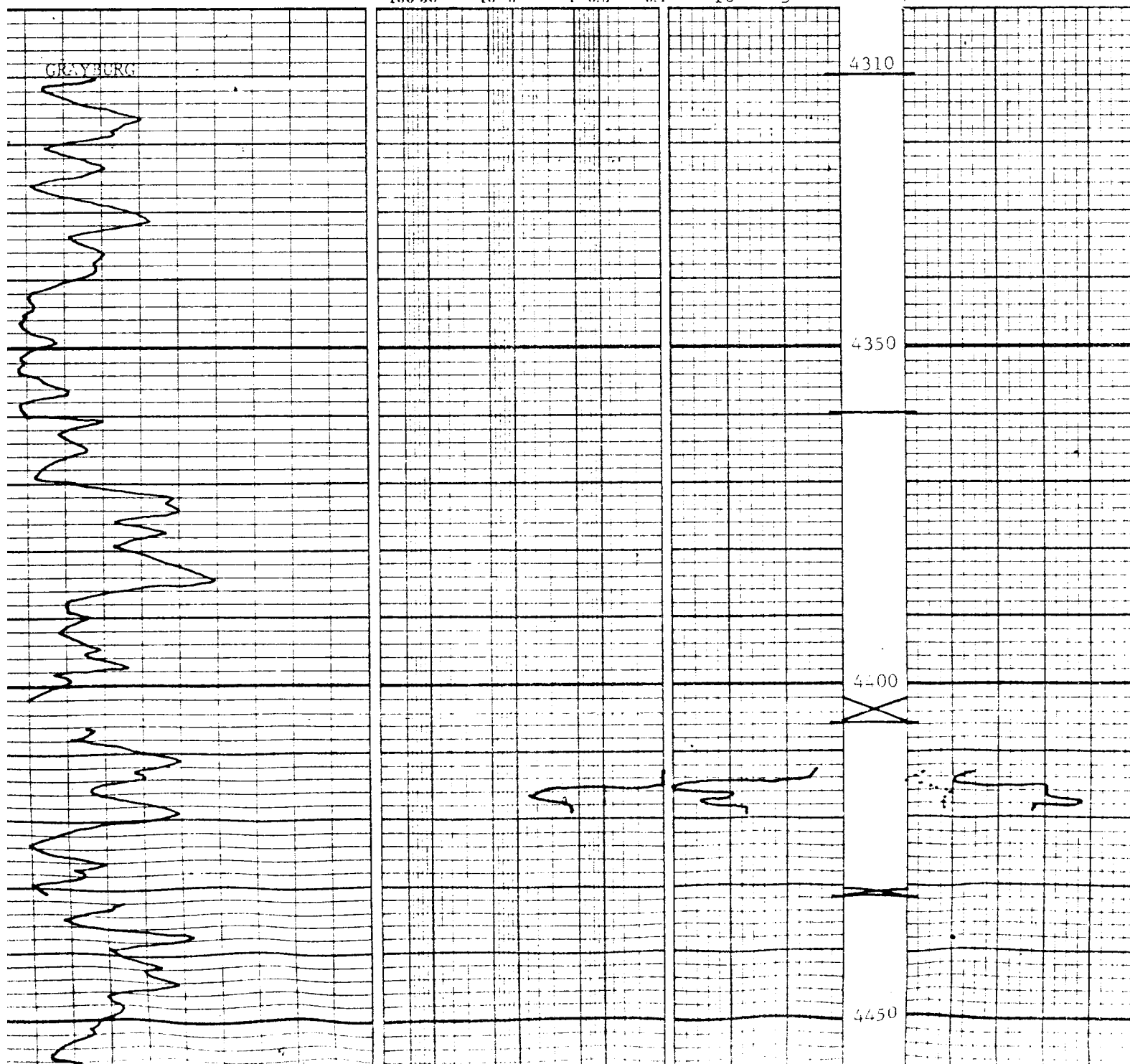
GAMMA RAY
RADIATION INCREASE →

TOTAL WATER ———
PERCENT TOTAL WATER
80 60 40 20 0

PERMEABILITY ———
MILLIDARCS
100 50 10 5 1 0.5 0.1

POROSITY ———
PERCENT
10 5

OIL SATURATION ———
PERCENT PORE SPACE
0 20 40 60 80



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HONOLULU, HAWAII

