

335001

MUD AND CUTTINGS ANALYSIS
FOR
ESSO EXPLORATION AUSTRALIA, INC.

BASS NO. 2 WELL

WILDCAT

~~VICTORIA~~, AUSTRALIA

TAS?

BY

CORE LABORATORIES AUSTRALIA (VIC) LTD.

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Core, Mud and Cuttings Analysis, Esso Bass No. 2 Well
Completion Coregraph

OR-0333A VOL 1.

CORE LABORATORIES AUSTRALIA (VIC.) LTD.

335002

Petroleum Reservoir Engineering

BRISBANE, AUSTRALIA

17 JUNE, 1966

G.P.O. BOX 664K

CABLE: CORELAB

PHONE: ~~587306~~ 5 3222

ESSO EXPLORATION AUSTRALIA, INC.,
280-288 GEORGE STREET,
SYDNEY. NEW SOUTH WALES.

ATTENTION: MR. A. A. PHILLIPS.

SUBJECT: CORE, MUD AND CUTTINGS ANALYSIS
ESSO BASS NO. 2 WELL,
WILDCAT,
TASMANIA.

GENTLEMEN:

A CORE LABORATORIES AUSTRALIA combination drill cuttings and core analysis unit was present at the site of the subject well during drilling operations from 850 feet to the total depth of 5910 feet.

Using standard equipment plus a Programmed Hydrocarbon Detector (rapid sampling gas Chromatograph), the drilling fluid was monitored continuously for hydrocarbon content and the drill cuttings were checked at regular intervals for gas and oil content and lithology. All core analysis was performed by conventional procedures. The results of these operations are shown on the accompanying Grapholog and Coregraph.

Hydrocarbon Shows. There were no indication of liquid hydrocarbon in this well. Oil fluorescence was not noted in any samples or cores.

The gas increases detected between 2900' and 5140' apparently come from carbonaceous material and are probably not of commercial significance. The gas increases between 5220' and 5510' are probably trip-gas and recycled trip-gas coming from the carbonaceous section.

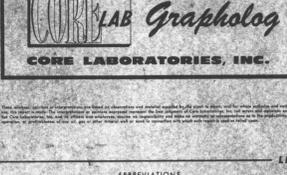
Two other gas increases were of probable significance and were reported to the well site geologist at the time of their discovery. It was our recommendation that these zones be given very careful scrutiny when electric logs were run. These zones were 5140' to 5145' and 5570' to 5585'. We understand that examination of the logs indicated that these zones were not commercially significant.

We sincerely appreciate the opportunity to have been of service, and trust that the information furnished in this report and during drilling operations has assisted the evaluation of this well.

Yours very truly,
CORE LABORATORIES AUSTRALIA (VIC) LTD.



JOE B. MC ADAMS,
RESIDENT MANAGER.



ESSO EXPLORATION AUSTRALIA, INC.
ESSO-BASS NO. 2
WILDCAT
WARRAMUNDI
AUSTRALIA
LOCATION: LAT. 30° 53' 09" S LONG 146° 15' 15" E

ABBREVIATIONS: NB - NEW BIT, NS - NEW CORE BIT, etc.
LEGEND: RESISTIVITY, OHM METERS, etc.
LITHOLOGY: SAND, SILT, CLAY, etc.

HYDROCARBON ANALYSIS: DRILLING MUD, DRILL CUTTINGS
REMARKS: FORMATION DESCRIPTION, etc.

DRILLING RATE: MIN/FT, FT/HR
LITHOLOGY: LOG

DRILLING MUD: 10, 50, 100
DRILL CUTTINGS: 10

REMARKS: CASING RECORD
30" TO 404'
20" TO 517'
15 3/8" 2043

REMARKS: CALCARENITE, Wh, Lt, Vv, P, F, S, etc.

REMARKS: TR. CEMENT IN SANDS, LITH. AS ABOVE

REMARKS: LAG CHECK-CARBIDE
DEPTH = 1020
CARBIDE = 150MM

REMARKS: CALCARENITE, Lt, Vv, P, F, S, etc.

REMARKS: CALCARENITE, AS ABOVE & RECOVERED VERY SANDY

REMARKS: SAND, BUFF-LT TB, etc.

REMARKS: LAG CHECK-CARBIDE
DEPTH = 1600
CARBIDE = 150MM

REMARKS: SAND, BUFF-LT TB, etc.

REMARKS: MUD DATA
1220 Hrs - 2100'
W = 10.4 APV = 15

REMARKS: SAMPLES GETTING VERY MUDDY

REMARKS: MARL, SHE LT BT

REMARKS: CALCARENITE, BUFF, LT, Vv, P, F, S, etc.

REMARKS: MARL, LT BY - BRN, BUFF, ST, ALMOST RUBBERY

REMARKS: MUD DATA
1445 Hrs - 2500'
W = 10.4 APV = 10.1

REMARKS: TRACES OF PYRITE

REMARKS: MUDSTONE, GY - BRN, CAL, SOFT WITH FINE FRAGMENTS

REMARKS: CORE #1, 2504-2552' RECOVERED & 1'

REMARKS: MUDSTONE, GY - BRN, VY SOFT & PLASTIC, FINE FRAG. FRAGMENTS

REMARKS: CORE #1, RECOVERED 6' THRU FLOWLINE

REMARKS: MUDSTONE, AS ABOVE BUT FIRMER, MORE COMPACT

REMARKS: MUDSTONE, GY - BRN & BLUE, SOFT, FINE FRAG. FRAGMENTS

REMARKS: MUD DATA
1330 Hrs - 3005'
W = 10.4 APV = 15

REMARKS: MUDSTONE, AS ABOVE WITH ABUNDANCE OF CLAUDE

REMARKS: CORE #2, 3025-3055' CUT & REC 30'

REMARKS: MUDSTONE, BLUISH LT BT, VY SOFT, SLATHY

REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

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REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

REMARKS: SANDSTONE, GY - BRN, SOFT, FINE FRAG. FRAGMENTS

CORE ANALYSIS REPORT

For
Amoco Australia Petroleum Co.
Bass No. #2
Bass Basin

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2. Permeability vs. Porosity
3. Grain Density Histogram
4. Correlation Coregraph

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

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AMOCO AUSTRALIA PETROLEUM CO;
 BASS NO:2
 BASS BASIN
 VICTORIA

DATE : 22/3/85
 FORMATION :
 DRLG. FLUID:
 LOCATION :

FILE NO : 85004
 LABORATORY: ADELAIDE
 ANALYSTS : P.LANE
 ELEVATION : B B B

CONVENTIONAL CORE ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MD HORIZ K _a	He POR	GRAIN DEN M	DESCRIPTION
1	4741.0	<0.01	10.7	2.62	SST DK GY VF-FG FRM-HD WL SRT CARB LAM V SLTY
2	4743.0	0.06	4.1	2.70	SST LIGY VF-FG HD SBANG-SBRND WL SRT S CALC CARB SPK PYR
3	4745.0	90.	14.3	2.69	SST LIGY F-MG FRM-HD SBANG-SBRND WL SRT CARB SPK S SLTY
4	4747.0	6.1	9.3	2.69	SST LIGY F-MG FRM-HD SBANG-SBRND WL SRT CARB SPK SLTY
5	4749.0	53.	11.6	2.70	SST LIGY F-MG FRM-HD SBANG-SBRND WL SRT CARB SPK S SLTY
6	4751.0	97.	17.3	2.66	SST LIGY F-MG FRM-HD SBANG-SBRND WL SRT CARB LAM SLTY
7	4753.0	1.1	13.6	2.63	SST LIGY F-MG FRM-HD SBANG-SBRND WL SRT CARB LAM SLTY
8	4755.0	23.	10.5	2.68	SST LIGY F-MG FRM-HD SBANG-SBRND WL SRT S CALC CARB SPK SLTY
9	4757.0	<0.01	5.9	3.65	SST DKGY F-MG HD SBANG-SBRND WL SRT PYR
10	4759.0	120.	19.6	2.66	SST LIGY F-MG FRI-FRM SBANG-SBRND WL SRT S CALC CARB SPK SLTY
11	4761.0	0.01	1.6	2.74	SST LIGY FG HD SBANG-SBRND WL SRT S CALC CARB SPK S SLTY
12	5063.0	20.	13.8	2.54	SST LIGY FG FRM-HD SBANG-SBRND WL SRT CARB LAM SLTY
13	5065.0	1.1	12.3	2.63	SST LIGY VF-FG FRM-HD SBANG-SBRND WL SRT CARB SPK S SLTY
14	5067.0	0.10	9.9	2.64	SST DKGY VFG HD WL SRT CARB SPK V SLTY
15	5069.0	0.10	16.1	2.74	SST LIGY VF-FG FRM-HD WL SRT CARB SPK V SLTY
16	5071.0	0.96	11.0	2.64	SST DKGY VFG FRM-HD WL SRT CARB SPK V SLTY
17	5073.0	3.6	15.7	2.66	SST LIGY VF-FG FRM-HD WL SRT CARB SPK V SLTY
18	5074.0	1.6	14.9	2.61	SST GY VF-FG FRM-HD WL SRT CARB LAM V SLTY
19	5076.0	1.0	17.7	2.67	SST LIGY VF-FG FRM-HD WL SRT S CALC CARB SPK V

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Petroleum Reservoir Engineering
DALLAS, TEXAS

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AMOCO AUSTRALIA PETROLEUM CO; DATE : 22/3/85
BASS NO:2 FORMATION :

FILE NO : 85004
LABORATORY: ADELAIDE

CONVENTIONAL CORE ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MD HORIZ K _a	He POR	GRAIN DEN M	DESCRIPTION
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SLTY

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO; WELL : BASS NO:2
FIELD : BASS BASIN COUNTY, STATE: VICTORIA

AIR PERMEABILITY : MD. (HORIZONTAL) RANGE USED 0.000 TO 120.
POROSITY : PERCENT (HELIUM) RANGE USED 0.0 TO 46.0

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS (FEET) : 4741.0 - 5099.8 INTERVAL LENGTH : 358.8
FEET ANALYZED IN ZONE : 19.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GEOMETRIC
----- 12.1	----- 22.	----- 0.01	----- 1.1

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO; WELL : BASS NO:2
 FIELD : BASS BASIN COUNTY, STATE: VICTORIA

GROUPING BY POROSITY RANGES

POROSITY RANGE	FEET IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.0 - 2.0	1.0	1.6	0.010	0.010	5.3	5.3
4.0 - 6.0	2.0	5.0	0.017	0.032	10.5	15.8
8.0 - 10.0	2.0	9.6	0.781	3.1	10.5	26.3
10.0 - 12.0	4.0	11.0	1.5	19.	21.1	47.4
12.0 - 14.0	3.0	13.2	2.8	7.2	15.8	63.2
14.0 - 16.0	3.0	15.0	8.0	32.	15.8	78.9
16.0 - 18.0	3.0	17.0	2.2	33.	15.8	94.7
18.0 - 20.0	1.0	19.6	120.	120.	5.3	100.0

TOTAL NUMBER OF FEET = 19.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO; WELL : BASS NO:2
 FIELD : BASS BASIN COUNTY, STATE: VICTORIA

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	FEET IN RANGE	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	2.0	0.005	0.005	8.3	10.5	10.5
0.010 - 0.020	1.0	0.010	0.010	1.6	5.3	15.8
0.039 - 0.078	1.0	0.060	0.060	4.1	5.3	21.1
0.078 - 0.156	2.0	0.100	0.100	13.0	10.5	31.6
0.625 - 1.250	4.0	1.0	1.0	13.7	21.1	52.6
1.250 - 2.500	1.0	1.6	1.6	14.9	5.3	57.9
2.500 - 5.000	1.0	3.6	3.6	15.7	5.3	63.2
5.- 10.	1.0	6.1	6.1	9.3	5.3	68.4
10.- 20.	1.0	20.	20.	13.8	5.3	73.7
20.- 40.	1.0	23.	23.	10.5	5.3	78.9
40.- 80.	1.0	53.	53.	11.6	5.3	84.2
80.- 160.	3.0	102.	102.	17.1	15.8	100.0

TOTAL NUMBER OF FEET = 19.0

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO; WELL : BASS NO:2
 FIELD : BASS BASIN COUNTY, STATE: VICTORIA

POROSITY-FEET OF STORAGE CAPACITY LOST FOR SELECTED POROSITY CUT OFF

POROSITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	ARITH MEAN	MEDIAN
0.0	0.0	0.0	19.0	100.0	12.1	12.3
2.0	1.0	0.7	18.0	99.3	0.0	12.7
4.0	1.0	0.7	18.0	99.3	0.0	12.7
6.0	3.0	5.0	16.0	95.0	0.0	13.3
8.0	3.0	5.0	16.0	95.0	0.0	13.3
10.0	5.0	13.4	14.0	86.6	0.0	14.0
12.0	9.0	32.4	10.0	67.6	0.0	15.3
14.0	12.0	49.7	7.0	50.3	0.0	16.3
16.0	15.0	69.2	4.0	30.8	0.0	17.3
18.0	18.0	91.5	1.0	8.5	0.0	19.0
20.0	19.0	100.0	0.0	0.0		

TOTAL STORAGE CAPACITY IN POROSITY-FEET = 229.9

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO; WELL : BASS NO:2
 FIELD : BASS BASIN COUNTY, STATE: VICTORIA

MILLIDARCY-FEET OF FLOW CAPACITY LOST FOR SELECTED PERMEABILITY CUT OFF

PERMEABILITY CUT OFF	FEET LOST	CAPACITY LOST (%)	FEET REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	19.0	100.0	1.10	1.15
0.010	2.0	0.0	17.0	100.0	2.51	1.77
0.020	3.0	0.0	16.0	100.0	3.54	2.50
0.039	3.0	0.0	16.0	100.0	3.54	2.50
0.078	4.0	0.0	15.0	100.0	4.65	3.54
0.156	6.0	0.1	13.0	99.9	8.39	7.07
0.312	6.0	0.1	13.0	99.9	8.39	7.07
0.625	6.0	0.1	13.0	99.9	8.39	7.07
1.250	10.0	1.1	9.0	98.9	21.22	28.28
2.500	11.0	1.4	8.0	98.6	29.31	40.00
5.	12.0	2.3	7.0	97.7	39.57	56.57
10.	13.0	3.8	6.0	96.2	54.04	80.00
20.	14.0	8.4	5.0	91.6	66.26	89.80
40.	15.0	13.9	4.0	86.1	86.32	100.79
80.	16.0	26.6	3.0	73.4	101.56	113.14
160.	19.0	100.0	0.0	0.0		

TOTAL FLOW CAPACITY IN MILLIDARCY-FEET (ARITHMETIC) = 418.22

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335013

PERMEABILITY VS POROSITY

COMPANY: AMOCO AUSTRALIA PETROLEUM CO; WELL : BASS NO:2
 FIELD : BASS BASIN COUNTY, STATE: VICTORIA

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
 POROSITY : PERCENT (HELIUM)

DEPTH INTERVAL(FT)	RANGE & SYMBOL	PERMEABILITY		POROSITY		POROSITY AVERAGE	PERMEABILITY AVERAGES		
		MINIMUM	MAXIMUM	MIN.	MAX.		ARITHMETIC	HARMONIC	GEOMETRIC
4741.0 - 5099.8	1 (X)	0.001	120.0	1.6	19.6	12.1	22.	0.01	1.1

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :
 $\text{LOG}(K) = (\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT}$
 $K = \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT})$

RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG((0.2743)(POROSITY) + -3.2774)

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STATISTICAL DATA FOR GRAIN DENSITY HISTOGRAM

COMPANY: AMOCO AUSTRALIA PETROLEUM CO;
FIELD : BASS BASIN

WELL : BASS NO:2
COUNTRY : VICTORIA

GRAIN DENSITY : gm/cc (MEASURED) RANGE USED 2.34 TO 2.94
DEPTH LIMITS : 4741.0 - 5099.8 INTERVAL LENGTH : 358.8
FEET ANALYZED IN ZONE : 19.0 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

GRAIN DENSITY ARITHMETIC MEAN	GRAIN DENSITY MEDIAN
----- 2.66	----- 2.67

STATISTICAL DATA FOR GRAIN DENSITY HISTOGRAM

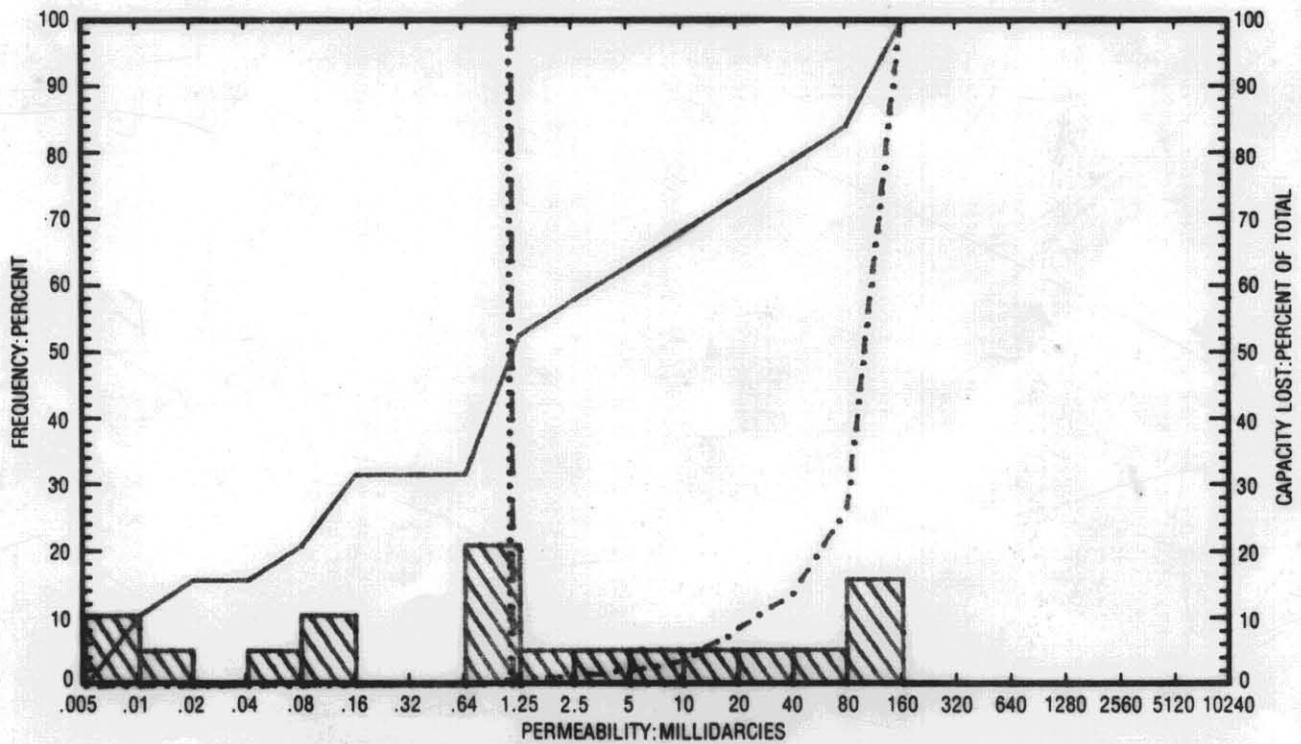
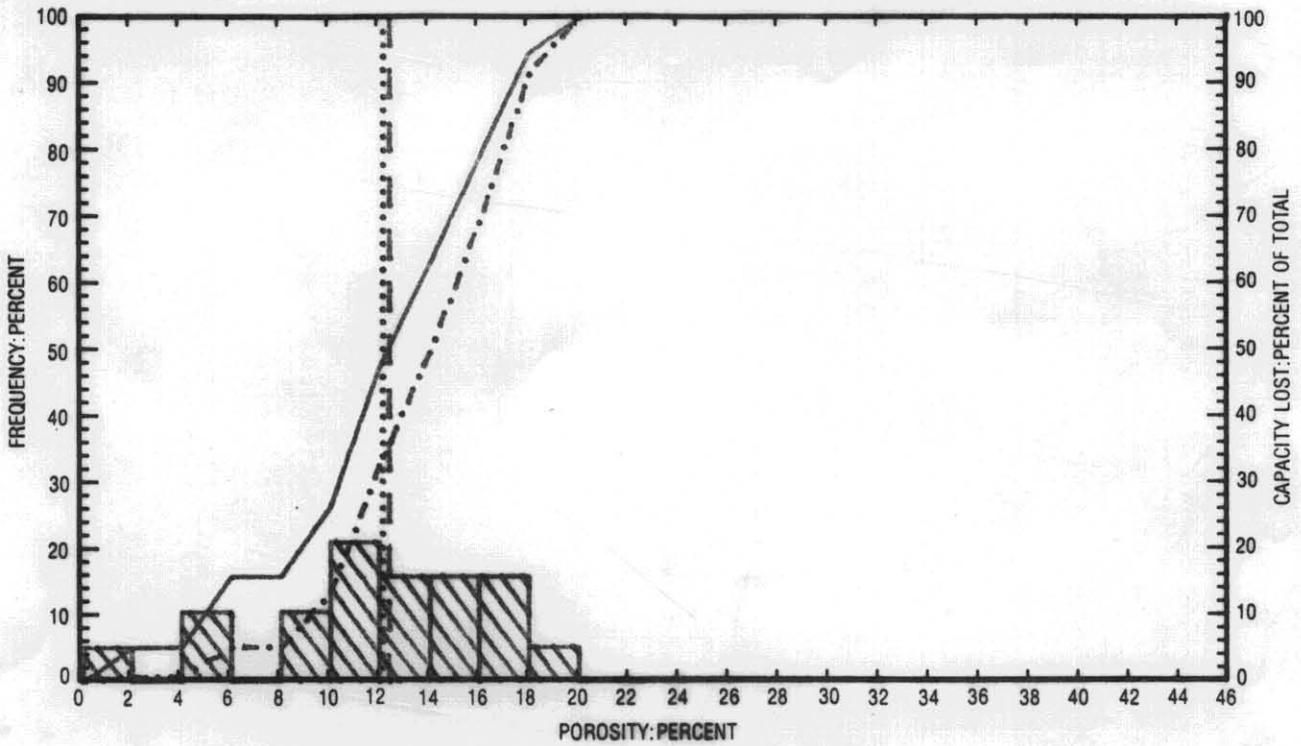
COMPANY: AMOCO AUSTRALIA PETROLEUM CO;
 FIELD : BASS BASIN

WELL : BASS NO:2
 COUNTRY : VICTORIA

GROUPING BY GRAIN DENSITY RANGES

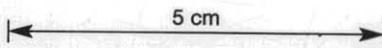
GRAIN DENSITY RANGE	FEET IN RANGE	AVERAGE DENSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
2.54 - 2.56	1.0	2.54	5.6	5.6
2.60 - 2.62	1.0	2.61	5.6	11.1
2.62 - 2.64	3.0	2.63	16.7	27.8
2.64 - 2.66	2.0	2.64	11.1	38.9
2.66 - 2.68	4.0	2.66	22.2	61.1
2.68 - 2.70	3.0	2.69	16.7	77.8
2.70 - 2.72	2.0	2.70	11.1	88.9
2.74 - 2.76	2.0	2.74	11.1	100.0

TOTAL NUMBER OF FEET = 18.0

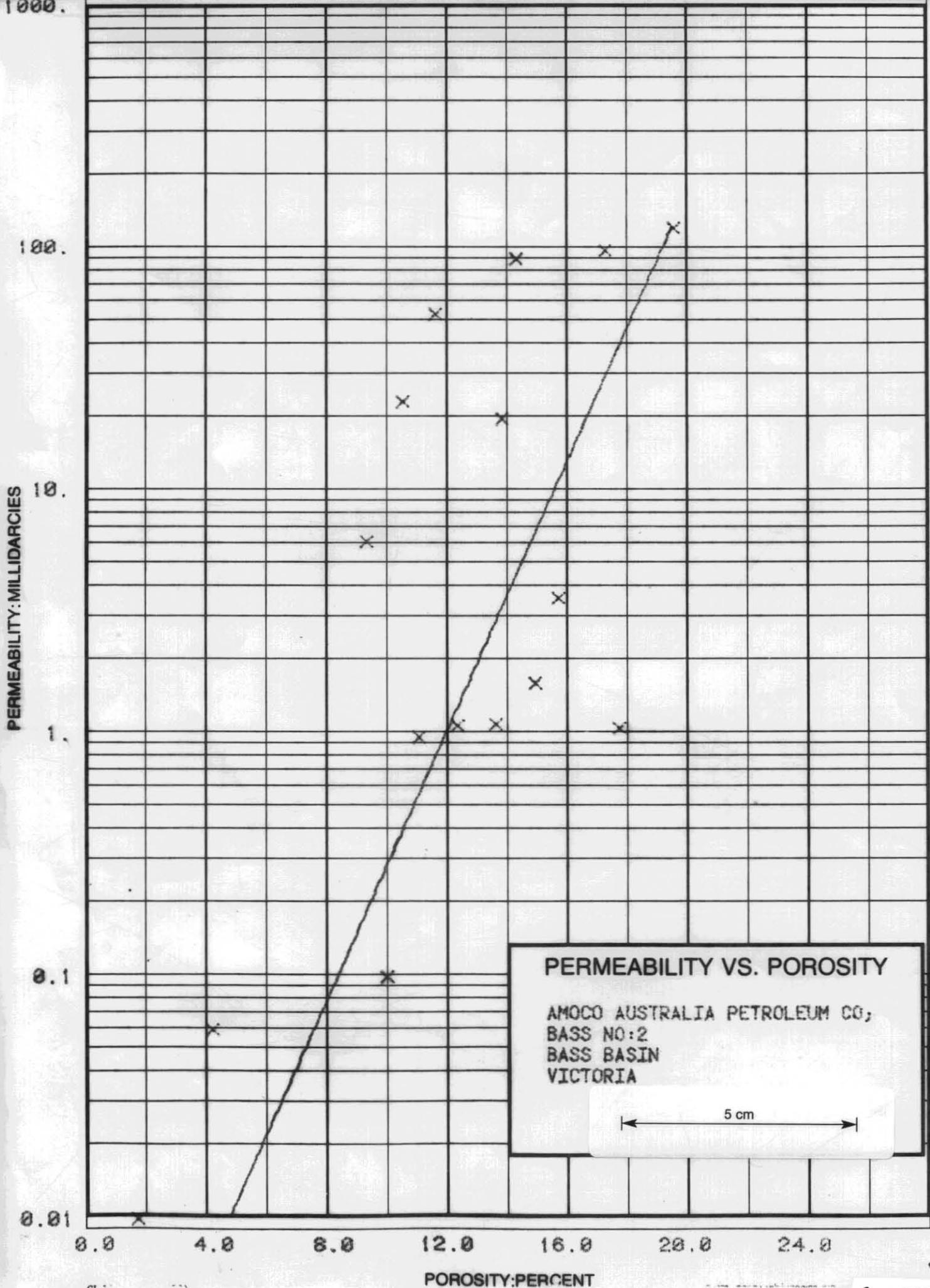


PERMEABILITY AND POROSITY HISTOGRAMS

AMOCO AUSTRALIA PETROLEUM CO;
 BASS NO:2
 BASS BASIN
 VICTORIA



- LEGEND**
- ARITHMETIC MEAN POROSITY (dotted line)
 - GEOMETRIC MEAN PERMEABILITY (dotted line)
 - MEDIAN VALUE (solid line)
 - CUMULATIVE FREQUENCY (solid line)
 - CUMULATIVE CAPACITY LOST (dashed line)



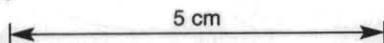
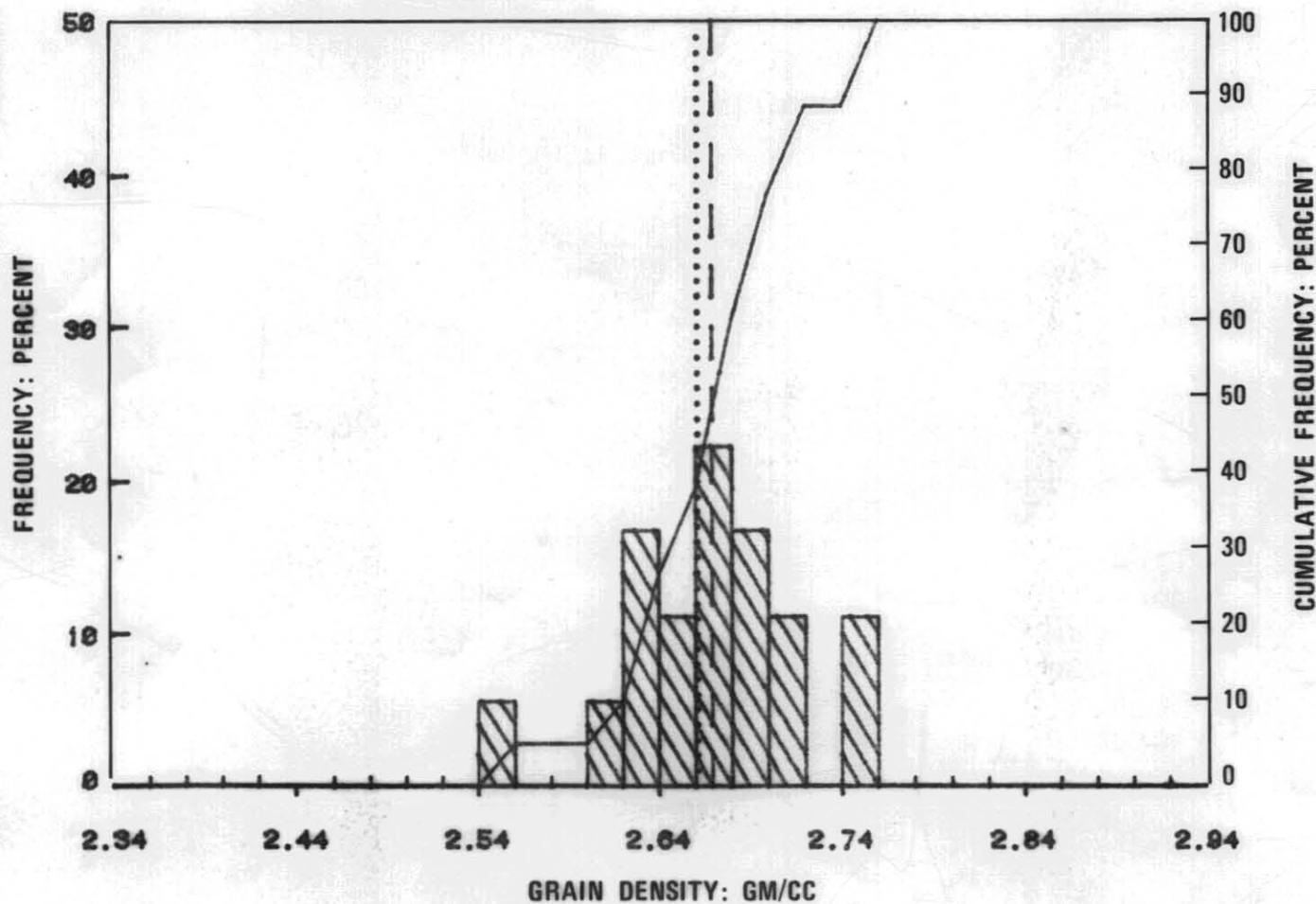


CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY AMOCO AUSTRALIA PETROLEUM CO, FILE NO. 85004
 WELL BASS NO.2 DATE 22/3/85
 FIELD BASS BASIN FORMATION _____ ELEV. _____
 COUNTRY VICTORIA DRLG. FLD. _____ CORES _____
 LOCATION _____

GRAIN DENSITY HISTOGRAM



LEGEND
 ARITHMETIC MEAN GRAIN DENSITY
 MEDIAN VALUE - - - - -
 CUMULATIVE FREQUENCY _____



CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

COMPANY AMOCO AUSTRALIA PETROLEUM CO. FILE NO. 85004
 WELL BASS NO. 2 DATE 22/3/85
 FIELD BASS BASIN FORMATION _____ ELEV. _____
 COUNTY VICTORIA STATE _____ DRLG. FLD. _____ CORES _____
 LOCATION _____

CORRELATION COREGRAPH

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VERTICAL SCALE: 5" = 100'

