

CORE LABORATORIES - CANADA, LTD.

Petroleum Reservoir Engineering



CORE ANALYSIS

PETRO-CANADA EXPLORATION INC.
PCI ET AL TWEED LAKE M-47
TWEED LAKE, N.W.T.
66 55'47" N LAT. 125 54'09" W LONG.
85-02-09

CORE LABORATORIES - CANADA, LTD.

COMPANY PETRO-CANADA EXPLORATION INC.
WELL PCI ET AL TWEED LAKE N-47
FIELD TWEED LAKE, N.W.T.
LOCATION 66 55'47" N LAT, 125 54'09" W LONG.

FORMATION MOUNT CLARK
CORING EQUIPMENT DIAMOND
CORE DIAMETER (mm) 88
CORING FLUID WATER BASE MUD

PAGE 1
FILE 7004-85-209C
DATE 85-02-09
ANALYSTS RP

CORE ANALYSIS RESULTS

Sample Number	Depth-Metres (m)	PERM. to Air Md.	PERM. x m	Porosity x m	Porosity x m	Residual Saturation (Fraction of Pore Volume)	Grain Density (Kg/(m) ³)	Visual Examination
---------------	------------------	------------------	-----------	--------------	--------------	---	--------------------------------------	--------------------

CORE NO.	1	1217.00 m - 1224.00 m (core received 7.05 m)	(5 BOXES)
1	1217.00-17.23	0.23 0.24 0.055 0.149 0.034 0.095 0.339 2650	ss vf
2	1217.23-17.39	0.16 0.33 0.053 0.118 0.019 0.186 0.453 2640	ss vf shbk
3	1217.39-17.62	0.23 0.37 0.085 0.139 0.032 0.111 0.269 2650	ss vf shbk
4	1217.62-17.78	0.16 0.28 0.045 0.092 0.015 0.125 0.267 2650	ss vf shbk
5	1217.78-17.94	0.16 0.28 0.045 0.091 0.015 0.142 0.142 2640	ss vf shbk
6	1217.94-18.05	0.11 0.07 0.008 0.059 0.006 0.107 0.312 2640	ss vf
7	1218.05-18.22	0.17 0.17 0.029 0.065 0.011 0.093 0.585 2630	ss vf shbk lam
8	1218.22-18.35	0.13 0.28 0.036 0.092 0.012 0.164 0.481 2640	ss vf shbk lam
9	1218.35-18.58	0.23 0.10 0.023 0.050 0.012 0.295 0.328 2640	ss vf shbk
10	1218.58-18.88	0.30 0.19 0.057 0.115 0.035 0.161 0.407 2620	ss vf shbk lam
11	1218.88-19.04	0.16 0.16 0.026 0.115 0.018 0.204 0.579 2640	ss vf shbk lam
12	1219.04-19.18	0.14 0.20 0.028 0.110 0.015 0.171 0.662 2630	ss vf shbk lam
-	1219.18-19.48	0.30 - - - - -	sh shw sdy
13	1219.48-19.61	0.13 0.95 0.124 0.087 0.011 0.137 0.711 2630	ss vf shbk lam
-	1219.61-22.91	3.30 - - - - -	sh
14	1222.91-23.09	0.18 0.89 0.160 0.082 0.015 0.179 0.149 2630	ss vf f
15	1223.09-23.24	0.15 0.37 0.055 0.087 0.013 0.086 0.724 2660	ss vf f shbk lam
16	1223.24-23.51	0.27 0.25 0.067 0.089 0.024 0.065 0.740 2680	ss vf f shbk lam
-	1223.51-24.05	0.54 - - - - -	sh

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CORE LABORATORIES - CANADA, LTD.

WELL PCI ET AL TWEED LAKE M-47

PAGE 2

FORMATION MOUNT CLARK

SUMMARY INTERVAL 1217.00-1224.05

FILE 7004-85-209C

TOTAL 7.05

METRES ANALYZED 2.91

METRES NOT ANALYZED: TOTAL 4.14 DENSE 4.14 LOST 0.00 %NA 0.00 DRILLED 0.00 RUBBLE 0.00

SUMMARY OF ANALYZED CORE:	FRACTION OF		WEIGHTED		POROSITY		WEIGHTED AV.		PERMEABILITY		WEIGHTED		WEIGHTED	
	METRES	ANALYZED CORE	AVERAGE POROSITY		METRES		HORIZONTAL PERMEABILITY		METRES		AVERAGE RESID. OIL		AVERAGE TOT. WATER	
TOTAL	2.910	1.000	0.099		0.287		0.308		0.896		0.140		0.436	
BY PERM RANGES														
LESS THAN 0.01 mD	0.000	0.000	0.000		0.000		0.000		0.000		0.000		0.000	
0.01 0.09 mD	0.110	0.038	0.059		0.006		0.070		0.008		0.107		0.312	
0.10 0.49 mD	2.490	0.856	0.102		0.254		0.243		0.605		0.139		0.444	
0.50 0.99 mD	0.310	0.107	0.084		0.026		0.915		0.284		0.161		0.393	
1.0 9.99 mD	0.000	0.000	0.000		0.000		0.000		0.000		0.000		0.000	
GREATER THAN 9.99 mD	0.000	0.000	0.000		0.000		0.000		0.000		0.000		0.000	

*NOT ANALYZED BY REQUEST

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CORE LABORATORIES - CANADA, LTD.

CODE KEY - DESCRIPTIONS

anh	= Anhydrite	hal	= Halite (Salt)	SCAL	= removed for special core analysis
AST	= Appears similar to	i	= Intergranular	sds	= Sands
bk	= Break	lam	= Laminar (Laminated)	SEM	= Scanning electron microscope analysis
bldr	= Boulder	lm	= Lime	sh	= Shale
c	= Coarse	ls	= Limestone	siltst	= Siltstone
calc	= Calcite (areous)	lv	= Large vug	silt	= Silty
carb	= Carbonaceous	m	= Medium	ss	= Sandstone
cbl	= Cobble	mi	= Mud invaded	sshe	= Slightly Shale (<20%)
CEC	= Cation exchange capacity	mic	= Micaceous	ste	= Steatolite (ic)
csi	= Conglomerate	mshe or she	= Moderately shale (20-40%)	sulf	= Sulphur
cht	= Chert	mv	= Medium vug	sv	= wet/dry sieve analysis
coal	= Coal/Coal Inclusion	NA	= Not analysed by request	tr	= Trace
dol	= Dolomite	NP	= No permeability measurement	TS	= Thin section
f	= Fine	ool	= Oolitic	uncons	= Unconsolidated
fest	= Ironstone	OB	= Overburden	vfrac	= Vertical fracture
foss	= Fossil (iferous)	P	= Preserved for future studies	vf	= Very fine
frac	= Fracture	pbl	= Pebble	VOR	= Vertical overburden sample
fri	= Friable	POA	= portion removed for oil analysis	vshe	= Very shale (>40%)
glau	= Glauconite (ic)	ppv	= Pinpoint Vug	vug	= Vug (ular)
grnl	= Granule	PSA	= Particle size analysis	*	= broken core
gyp	= Gypsum	per	= Perite (ic)	**	= Permeability > 10240 mD
h frac	= Horizontal fracture	perbit	= Perobitumen		

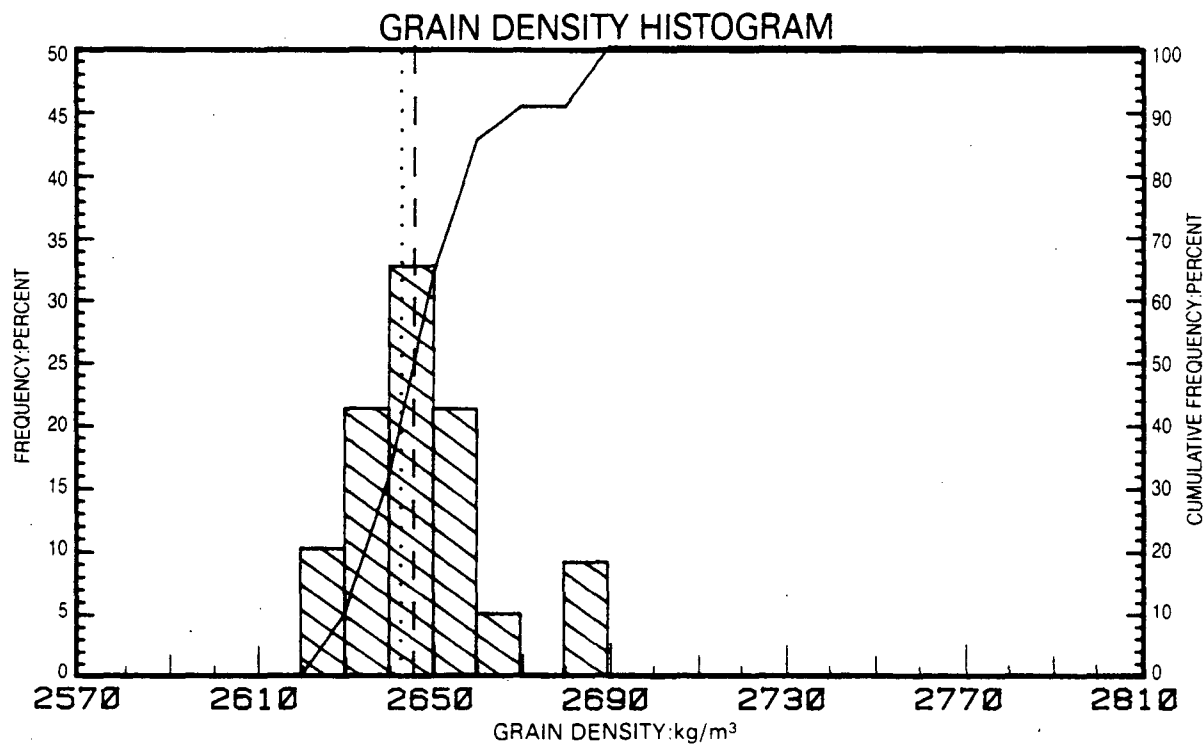
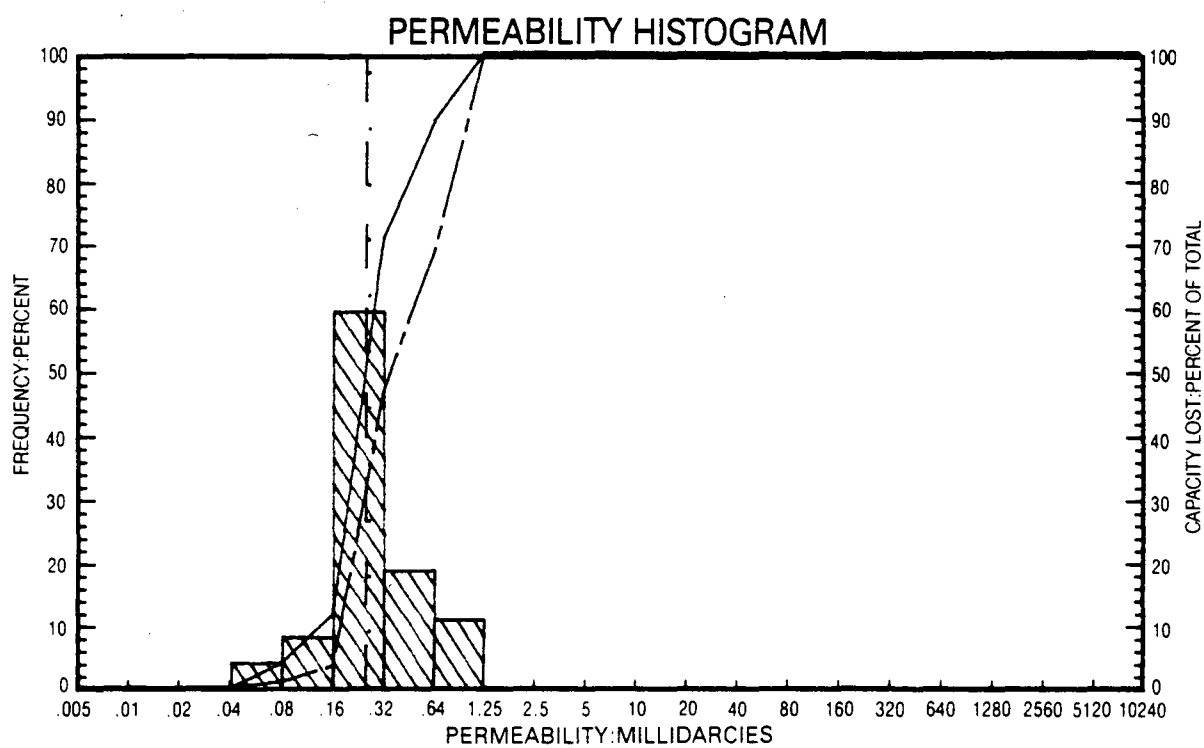
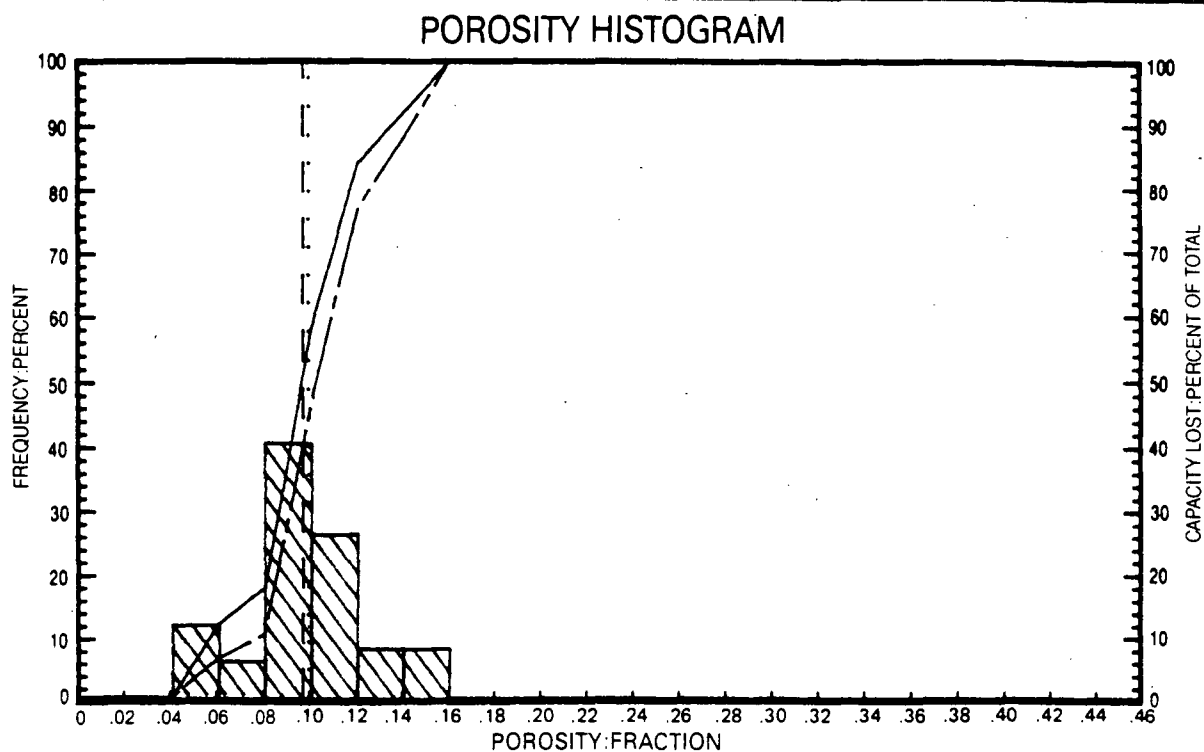
CLEANING

Solvent	TOLUENE
Extraction Equipment	CENTRAFUGE/VAPOR PHASE
Extraction Time	5 DAYS
Drying Equipment	GRAVITY OVEN
Drying Time	48 HOURS
Drying Temperature	132 DEG.C

ANALYSIS

	Pore volume measured by Boyle's Law in a Hassler holder using He
	Grain vol mrd by Boyle's Law in a modified U.S.B.M. porosimeter using He
X	Grain volume measured by Boyle's Law in a matrix cup using He
	Bulk volume measured by caliperins
	Bulk Volume by Archimedes Principle
	Porosity determined by summation of fluids (retort)
	Fluid saturations by retort on end pieces of full diameter samples
X	Fluid saturation by retort
	Water saturations by Dean-Stark
	Oil saturations by weight difference in Dean-Stark
	Permeabilities measured on 20mm cubes
X	Permeabilities measured on 25 mm diameter drilled plugs
X	Core Gamma Composite
	Core Gamma Spectral

REMARKS:



PETRO-CANADA EXPLORATION INC.
 PCI ET AL TWEED LAKE M-47
 TWEED LAKE
 N. W. T.
 1217.00-1224.05 FILE 7004-85-209C
 Kmax and Helium Porosity

LEGEND
 MEDIAN VALUE ————
 CUMULATIVE FREQUENCY ————
 CUMULATIVE CAPACITY LOST - - - - -
 ARITHMETIC MEAN POROSITY
 GEOMETRIC MEAN PERMEABILITY
 ARITHMETIC MEAN GRAIN DENSITY

STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 1
FILE 7004-85-209C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : TWEED LAKE

WELL : PCI ET AL TWEED LAKE M-47
PROVINCE: N.W.T.

AIR PERMEABILITY : MD. (MAXIMUM) RANGE USED 0.000 TO 10.
POROSITY : FRACTION (HELIUM) RANGE USED 0.000 TO .46

(PERMEABILITY UNCORRECTED FOR SLIPPAGE)

DEPTH LIMITS : 1217.00 - 1224.05 INTERVAL LENGTH : 7.05
METRES ANALYZED IN ZONE : 2.91 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GEOMETRIC
0.099	0.31	0.21	0.25

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 2
FILE 7004-85-209C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : TWEED LAKE

WELL : PCI ET AL TWEED LAKE M-47
PROVINCE: N.W.T.

GROUPING BY POROSITY RANGES

POROSITY RANGE	METRES IN RANGE	AVERAGE POROSITY	AVERAGE PERM.		FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
			(GEOM.)	(ARITH)		
0.040 -0.060	0.3	0.053	0.089	0.090	11.7	11.7
0.060 -0.080	0.2	0.065	0.170	0.170	5.8	17.5
0.080 -0.100	1.2	0.088	0.386	0.451	40.5	58.1
0.100 -0.120	0.8	0.115	0.208	0.215	26.1	84.2
0.120 -0.140	0.2	0.139	0.370	0.370	7.9	92.1
0.140 -0.160	0.2	0.149	0.240	0.240	7.9	100.0

TOTAL NUMBER OF METRES = 2.91

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 3
FILE 7004-85-209C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : TWEED LAKE

WELL : PCI ET AL TWEED LAKE M-47
PROVINCE: N.W.T.

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	METRES IN RANGE	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.039 - 0.078	0.1	0.070	0.070	0.059	3.8	3.8
0.078 - 0.156	0.2	0.100	0.100	0.050	7.9	11.7
0.156 - 0.312	1.7	0.221	0.226	0.104	59.1	70.8
0.312 - 0.625	0.5	0.358	0.358	0.118	18.6	89.3
0.625 - 1.250	0.3	0.915	0.915	0.084	10.7	100.0

TOTAL NUMBER OF METRES = 2.91

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 4
FILE 7004-85-209C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : TWEED LAKE

WELL : PCI ET AL TWEED LAKE M-47
PROVINCE: N.W.T.

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

POROSITY CUT OFF	METRES LOST	CAPACITY LOST (%)	METRES REMAINING	CAPACITY REMAINING (%)	ARITH. MEAN	MEDIAN
0.000	0.0	0.0	2.9	100.0	0.099	0.096
0.020	0.0	0.0	2.9	100.0	0.099	0.096
0.040	0.0	0.0	2.9	100.0	0.099	0.096
0.060	0.3	6.3	2.6	93.7	0.105	0.099
0.080	0.5	10.1	2.4	89.9	0.107	0.101
0.100	1.7	46.5	1.2	53.5	0.126	
0.120	2.5	76.9	0.5	23.1	0.144	0.140
0.140	2.7	88.1	0.2	11.9	0.149	
0.160	2.9	100.0	0.0	0.0	0.000	

TOTAL STORAGE CAPACITY IN POROSITY-METRES = 0.287

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 5
FILE 7004-85-209C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : TWEED LAKE

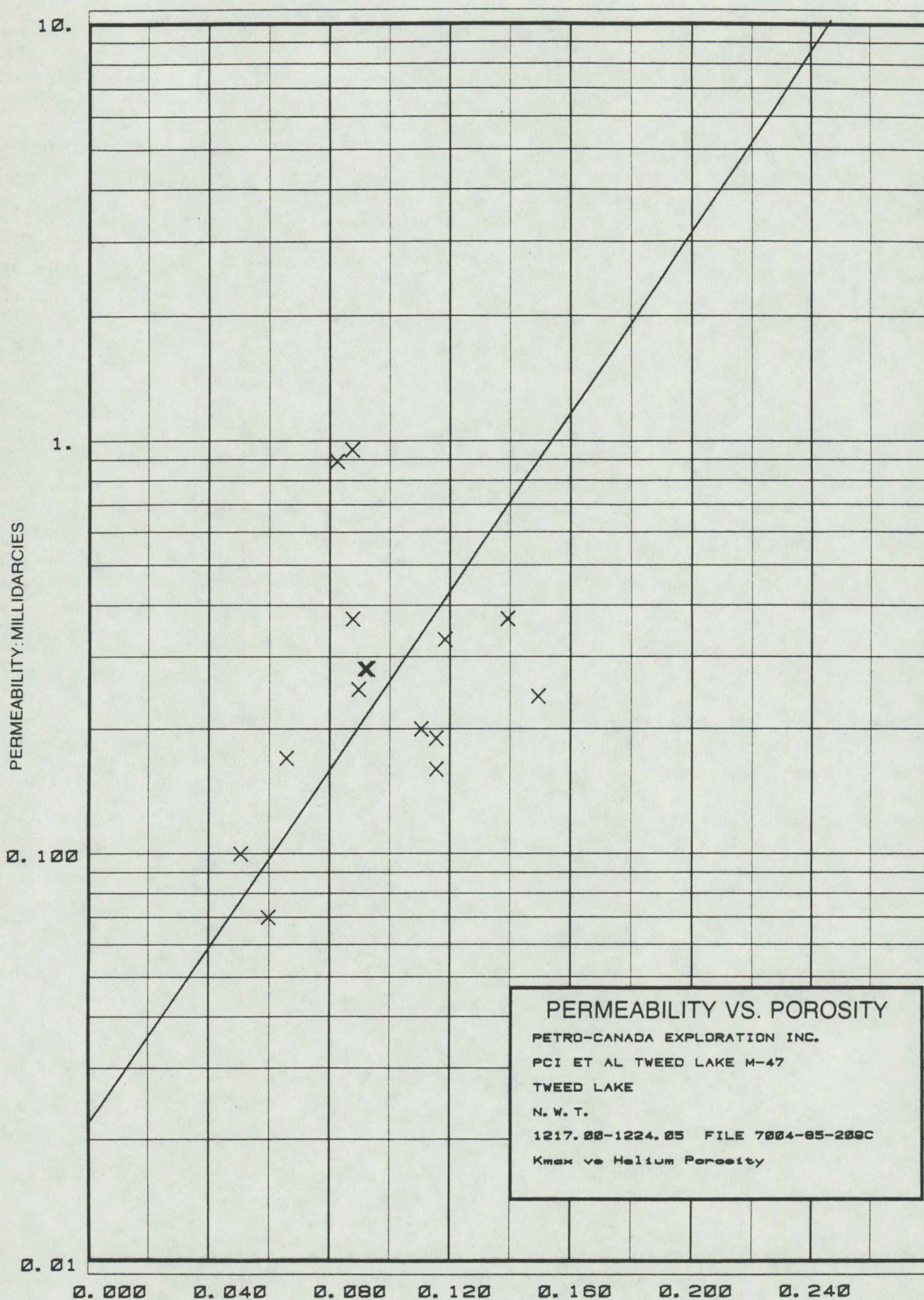
WELL : PCI ET AL TWEED LAKE M-47
PROVINCE: N.W.T.

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

PERMEABILITY CUT OFF	METRES LOST	CAPACITY LOST (%)	METRES REMAINING	CAPACITY REMAINING (%)	GEOM MEAN	MEDIAN
0.005	0.0	0.0	2.9	100.0	0.25	0.24
0.010	0.0	0.0	2.9	100.0	0.25	0.24
0.020	0.0	0.0	2.9	100.0	0.25	0.24
0.039	0.0	0.0	2.9	100.0	0.25	0.24
0.078	0.1	0.9	2.8	99.1	0.27	0.25
0.156	0.3	3.4	2.6	96.6	0.29	
0.312	2.1	46.8	0.9	53.2	0.50	
0.625	2.6	68.3	0.3	31.7	0.91	
1.250	2.9	100.0	0.0	0.0	1.00	

TOTAL FLOW CAPACITY IN MILLIDARCY-METRES(ARITHMETIC) = 0.90

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EQUATION OF REDUCED LINE RELATING PERMEABILITY (K) TO POROSITY			
LOG (K) = (SLOPE)(POROSITY) + LOG OF INTERCEPT			
K = ANTILOG (SLOPE)(POROSITY) + LOG OF INTERCEPT			
RANGE	SYMBOL	EQUATION OF THE LINE	
1	X	PERM=ANTILOG (0.1073) (POROSITY)	-1.6540

PERMEABILITY VS POROSITY

PAGE 1
FILE: 7004-85-209C

COMPANY: PETRO-CANADA EXPLORATION INC.

WELL : PCI ET AL TWEED LAKE M-47

FIELD : TWEED LAKE

PROVINCE: N.W.T.

FORMATION: MOUNT CLARK

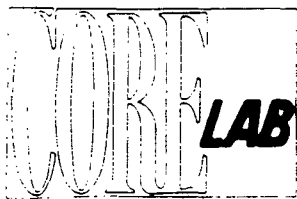
AIR PERMEABILITY : MD - MAXIMUM (UNCORRECTED FOR SLIPPAGE)
POROSITY : FRACTION (HELIUM)

DEPTH INTERVAL	METERS ANALYZED	RANGE & SYMBOL	PERMEABILITY MINIMUM MAXIMUM	POROSITY MIN. MAX.	POROSITY AVERAGE	PERMEABILITY AVERAGES ARITHMETIC HARMONIC GEOMETRIC
1217.00 - 1224.05	2.91	1 (X)	0.000 10.0	0.000 0.460	0.099	0.31 0.21 0.25

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

RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG((0.1073)(POROSITY) + -1.6540)

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COMPANY

PCO ET AL TWEED LAKE N-47

WELL

TWEED LAKE

FIELD

N.W.T

PROVINCE

66°55'47" N LAT. 125°54'09" W LONG.

FORMATION

MOUNT CLARK

ELEV.

DRLG. FLD.

WATER BASE MUD

CORES

1

FILE NO.

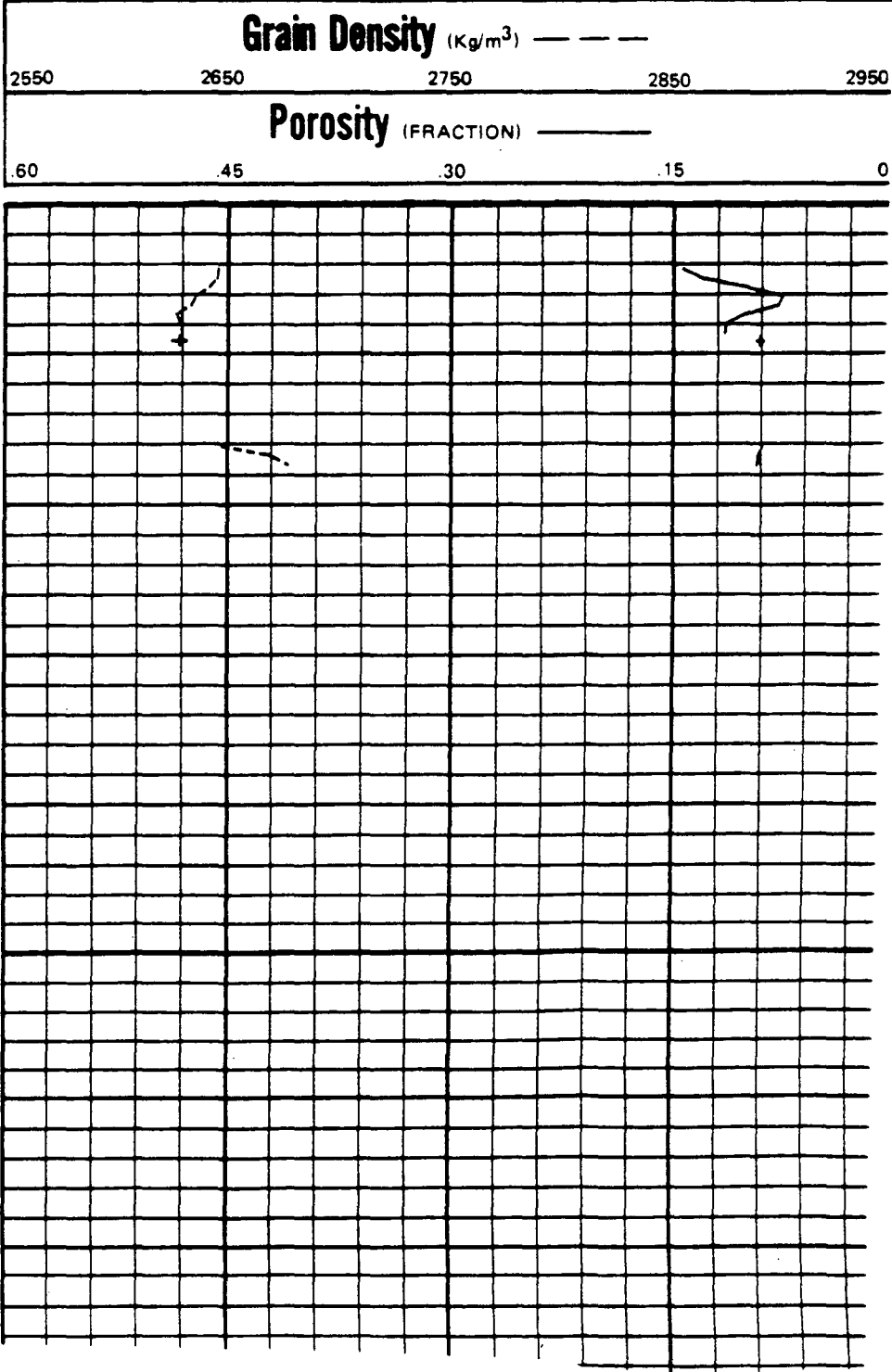
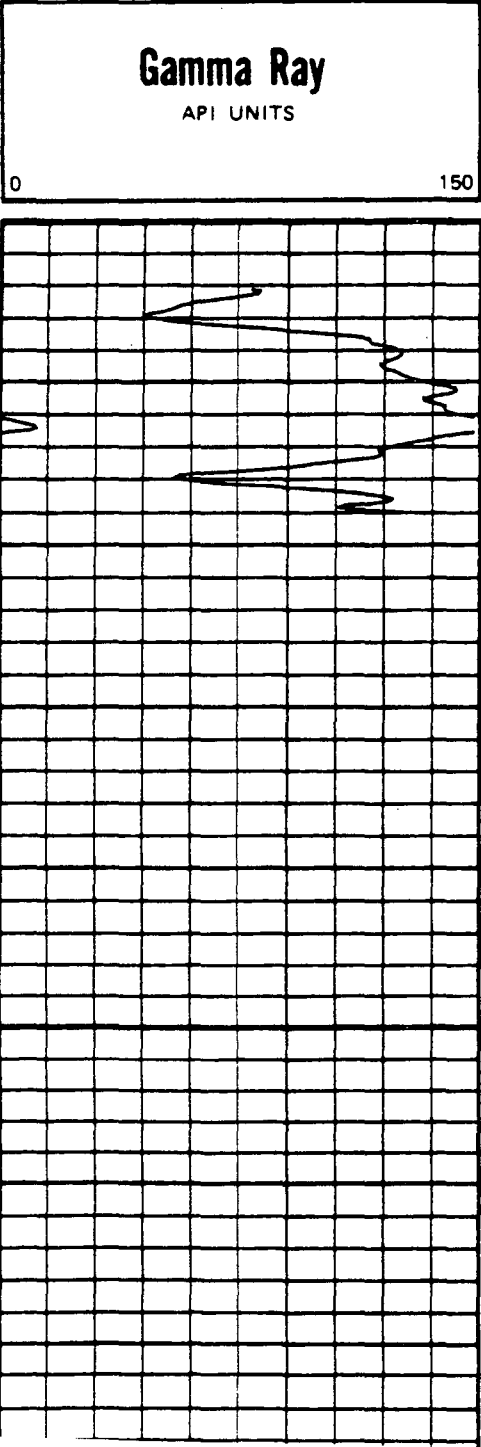
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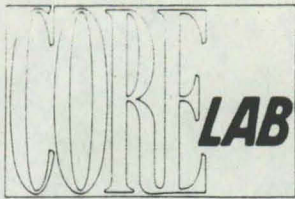
DATE

CORRELATION COREGRAPH

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-Canada, Ltd., (all errors or omissions excepted); but Core Laboratories-Canada, Ltd., 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: 10 cm = 24m





COMPANY PETRO-CANADA EXPLORATION INC. FILE NO. 7004-85-209
WELL PCI ET AL TWEED LAKE N-47 DATE _____
FIELD TWEED LAKE FORMATION MOUNT CLARK ELEV. _____
PROVINCE N.W.T. DRILLING FLUID WATER BASE MUD CORES 1
LOCATION 65°55'47" N LAT. 125°54'09" W LONG.

CORRELATION COREGRAPH

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VERTICAL SCALE: 10 cm = 24m

Total Water _____

FRACTION PORE SPACE

1.00 .80 .60 .40 .20 0

Oil Saturation _____

FRACTION PORE SPACE

1.00 .80 .60 .40 .20 0

Gamma Ray

RADIATION INCREASE →

API

150

Permeability X.01

MILLIDARCIES

1000

100

10

1

Depth
meters

1215

1225

1235

1245

1255

1265

Porosity _____

FRACTION

.30

.20

.10

0

0

.20

.40

.60

.80

1.0