

CORE LABORATORIES - CANADA, LTD.

Petroleum Reservoir Engineering

**MICROFILMED
SUR MICROFILM:**

CORE ANALYSIS

PETRO-CANADA EXPLORATION INC.

PCI CANTERRA BELE 0-35

WILDCAT, N.W.T.,

66 34'58.13" N LAT 126 21'32.10" W LONG.

86-04-07

CORE LABORATORIES - CANADA, LTD.

COMPANY PETRO-CANADA EXPLORATION INC.
WELL PCI CANTERRA BELE 0-35
FIELD WILDCAT, N.W.T.
LOCATION 66 34'58.13" N LAT 126 21'32.10" W LONG.

FORMATION
CORING EQUIPMENT DIAMOND
CORE DIAMETER.(mm) 100
CORING FLUID WATER BASE MUD

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FILE 70175-86-539C
DATE 86-04-07
ANALYSTS BC

FULL DIAMETER ANALYSIS

Sample Number	Depth Metres (m)	m Rep.	Sample Length	Permeability to Air Millidarcys			Perm. X m	Porosity		Residual Saturation Density:kg/m3 (Frac of Pore Vol)				VISUAL EXAMINATION
				mD Max.	mD 90 deg.	mD V		X m	Porosity X m	Bulk	Grain	Oil	Water	

	CORE NO.	1	1330.50 m - 1340.60 (core received			9.80 m)	(	9 Boxes)						
LC	-	1330.50-40.30	9.80	-	-	-	-	-	-	-	-	-	-	sh
		1340.30-40.60	0.30	-	-	-	-	-	-	-	-	-	-	Lost core
	CORE NO.	2	1340.60 m - 1353.20 (core received			12.60 m)	(	11 Boxes)						
-	1340.60-41.21	0.61	-	-	-	-	-	-	-	-	-	-	-	sh
SP 1	1341.21-41.65	0.44	-	<0.01	-	-	-	0.041	0.018	-	2820	0.000	0.451	ss vf lmy pyr
SP 2	1341.65-42.07	0.42	-	<0.01	-	-	-	0.012	0.005	-	2860	0.000	0.744	ss vf dol glauc
-	1342.07-44.25	2.18	-	-	-	-	-	-	-	-	-	-	-	sh
SP 3	1344.25-44.32	0.07	-	0.02	-	-	0.001	0.033	0.002	-	2800	0.000	0.810	ss vf f m glauc pyr
SP 4	1344.32-44.52	0.20	-	<0.01	-	-	-	0.006	0.001	-	2890	0.000	0.713	ss vf lmy pyr glauc
AST6	1344.52-44.58	0.06	-	0.04	0.03	0.02	0.002	0.054	0.003	2680	2830	0.000	0.785	ss vf f m glauc pyr
SP 5	1344.58-44.66	0.08	-	0.02	-	-	0.002	0.014	0.001	-	2660	0.000	0.206	ss vf
6	1344.66-44.94	0.28	.14	0.04	0.03	0.02	0.011	0.054	0.015	2680	2830	0.000	0.785	ss vf f m glauc pyr
SP 7	1344.94-45.05	0.11	-	0.02	-	-	0.002	0.065	0.007	-	2860	0.000	0.909	ss vf f m glauc
8	1345.05-45.45	0.40	.15	0.02	0.02	<0.01	0.008	0.081	0.032	2620	2860	0.000	0.865	ss vf f m glauc pyr
SP 9	1345.45-45.70	0.25	-	0.02	-	-	0.005	0.051	0.013	-	2680	0.000	0.435	ss vf pyr
SP 10	1345.70-46.09	0.39	-	<0.01	-	-	-	0.041	0.016	-	2700	0.000	0.917	ss vf pyr
SP 11	1346.09-46.46	0.37	-	0.03	-	-	0.011	0.057	0.021	-	2660	0.000	0.575	ss vf
SP 12	1346.46-46.72	0.26	-	0.09	-	-	0.023	0.104	0.027	-	2660	0.000	0.596	ss vf
SP 13	1346.72-47.00	0.28	-	0.05	-	-	0.014	0.076	0.021	-	2670	0.000	0.824	ss vf pyr
a 14	1347.00-47.48	0.48	.12	<0.01	-	<0.01	-	0.050	0.024	2540	2670	0.000	0.819	ss vf pyr

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CORE LABORATORIES - CANADA, LTD.

COMPANY PETRO-CANADA EXPLORATION INC.
WELL PCI CANTERRA BELE 0-35

FORMATION
CORING EQUIPMENT

MT. CAP
DIAMOND

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FULL DIAMETER ANALYSIS

Sample Number	Depth Metres (m)	m Rep.	Sample Length	Permeability to Air Millidarcys			Perm. X m	Porosity		Density: kg/m3	Residual Saturation (Frac of Pore Vol)				VISUAL EXAMINATION
				mD Max.	mD 90 des.	mD V		X m	X m		Bulk	Grain	Oil	Water	
CORE NO. 2 CONTINUED															
-	1347.48-47.77	0.29	-	-	-	-	-	-	-	-	-	-	-	-	sh
SP 15	1347.77-48.14	0.37	-	<0.01	-	-	-	0.065	0.024	-	2690	0.000	0.940	ss vf	pyr
SP 16	1348.14-48.43	0.29	-	0.07	-	-	0.020	0.093	0.027	-	2670	0.000	0.870	ss vf	pyr
SP 17	1348.43-48.66	0.23	-	0.06	-	-	0.014	0.093	0.021	-	2670	0.000	0.762	ss vf	pyr
a 18	1348.66-49.25	0.59	.14	<0.01	-	-	-	0.066	0.039	2480	2650	0.000	0.697	ss vf	
-	1349.25-50.62	1.37	-	-	-	-	-	-	-	-	-	-	-	-	sh
a 19	1350.62-50.76	0.14	.07	0.06	-	-	0.008	0.072	0.010	2480	2670	0.000	0.674	ss vf	
SP 20	1350.76-50.88	0.12	-	0.37	-	-	0.044	0.069	0.008	-	2680	0.000	0.716	ss vf f	glauc
a 21	1350.88-51.18	0.30	.12	0.03	-	-	0.009	0.068	0.020	2490	2670	0.000	0.744	ss vf	
-	1351.18-51.23	0.05	-	-	-	-	-	-	-	-	-	-	-	-	sh sdy
AST21	1351.23-51.32	0.09	-	0.03	-	-	0.003	0.068	0.006	2490	2670	0.000	0.744	ss vf	
-	1351.32-52.10	0.78	-	-	-	-	-	-	-	-	-	-	-	-	sh
SP 22	1352.10-52.25	0.15	-	<0.01	-	-	-	0.070	0.010	-	2750	0.000	0.842	ss vf	glauc
-	1352.25-52.32	0.07	-	-	-	-	-	-	-	-	-	-	-	-	sh
SP 23	1352.32-52.44	0.12	-	0.22	-	-	0.026	0.061	0.007	-	2740	0.000	0.853	ss vf f	pyr
-	1352.44-52.69	0.25	-	-	-	-	-	-	-	-	-	-	-	-	sh sdy
a 24	1352.69-53.01	0.32	.13	<0.01	-	<0.01	-	0.026	0.008	2580	2650	0.000	0.819	ss vf	
SP 25	1353.01-53.20	0.19	-	0.30	-	-	0.057	0.067	0.013	-	2660	0.000	0.430	ss vf f	

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CORE LABORATORIES - CANADA, LTD.

WELL FCI CANTERRA BELE 0-35

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FORMATION MT. CAP

SUMMARY INTERVAL 1330.50-1353.20

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TOTAL 22.70

METRES ANALYZED 7.00

METRES NOT ANALYZED: TOTAL 15.70 DENSE 15.40 LOST 0.30 *NA 0.00 DRILLED 0.00 RUBBLE 0.00

			METRES	FRACTION OF ANALYZED CORE	WEIGHTED AVERAGE POROSITY	POROSITY METRES	WEIGHTED AV. HORIZONTAL PERMEABILITY	PERMEABILITY METRES	WEIGHTED AVERAGE RESID. OIL	WEIGHTED AVERAGE TOT. WATER	
SUMMARY OF ANALYZED CORE:											
TOTAL			7.000	1.000	0.058	0.403	0.040	0.279	0.000	0.742	
BY PERMEABILITY RANGES											POROSITY Helium RANGE
LESS	THAN	0.01 mD	3.360	0.480	0.043	0.146	0.005	0.017	0.000	0.770	0.000 - 0.460
	0.01 -	0.09 mD	3.210	0.459	0.071	0.228	0.042	0.135	0.000	0.738	
	0.10 -	0.49 mD	0.430	0.061	0.066	0.028	0.297	0.128	0.000	0.623	
	0.50 -	0.99 mD	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	1.00 -	9.98 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	

*NOT ANALYZED BY REQUEST

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CORE LABORATORIES - CANADA, LTD.

CODE KEY - DESCRIPTIONS

anhv	= Anhydrite	hal	= Halite (Salt)	SCAL	= removed for special core analysis
AST	= Appears similiar to	i	= Intergranular	sdv	= Sandy
bk	= Break	lam	= Laminæ (Laminated)	SEM	= Scanning electron microscope analysis
bldr	= Boulder	lmv	= Limy	sh	= Shale
c	= Coarse	ls	= Limestone	sltst	= Siltstone
calc	= Calcite (areous)	lv	= Large vug	slty	= Silty
carb	= Carbonaceous	m	= Medium	ss	= Sandstone
cbl	= Cobble	mi	= Mud invaded	sshy	= Slightly Shaly(<20%)
CEC	= Cation exchange capacity	mic	= Micaceous	sty	= Stylolite (ic)
csl	= Conglomerate	mshy or shy	= Moderately shaly (20-40%)	sulf	= Sulphur
cht	= Chert	mv	= Medium vug	sv	= small vug
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	VOB	= Vertical overburden sample
fri	= Friable	POA	= portion removed for oil analysis	vshy	= Very shaly (>40%)
glau	= Glauconite (ic)	ppv	= Pinpoint Vug	vug	= Vuggy (ular)
grnl	= Granule	PSA	= Particle size analysis	*	= broken core
gyp	= Gypsum	pyr	= Pyrite (ic)	**	= Permeability > 10240 mD
h frac	= Horizontal fracture	pyrbit	= Pyrobitumen	SA	= Sieve Analysis

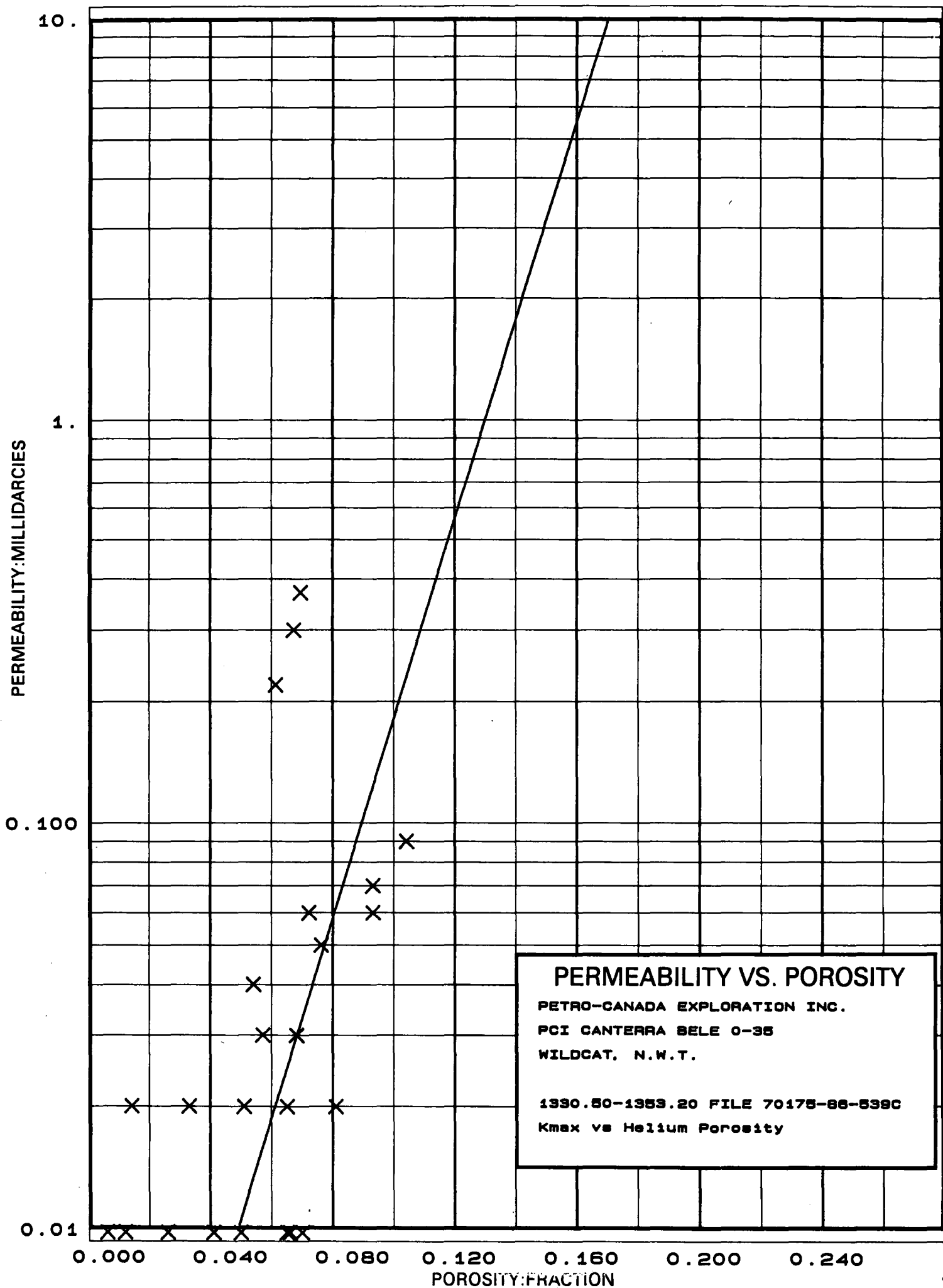
CLEANING

Solvent TOLUENE
 Extraction Equipment VAPOR PHASE EXTRACTOR
 Extraction Time 24 HOURS
 Drying Equipment GRAVITY OVEN
 Drying Time 24 HOURS
 Drying Temperature 132 DEG C.

ANALYSIS

Pore volume measured by Boyle's Law in a Hassler holder using He
 X Grain vol msrd 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
 X Bulk volume measured by caliperings
 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 25.4 mm diameter drilled plugs
 X Core Gamma Composite
 Core Gamma Spectral

REMARKS:



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 (0.2483) (POROSITY) + -3.2237	

PERMEABILITY VS POROSITY

PAGE 1
FILE: 70175-86-539C

COMPANY: PETRO-CANADA EXPLORATION INC.

WELL : PCI CANTERRA BELE 0-35

FIELD : WILDCAT, N.W.T.

PROVINCE:

FORMATION: MT. CAP

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

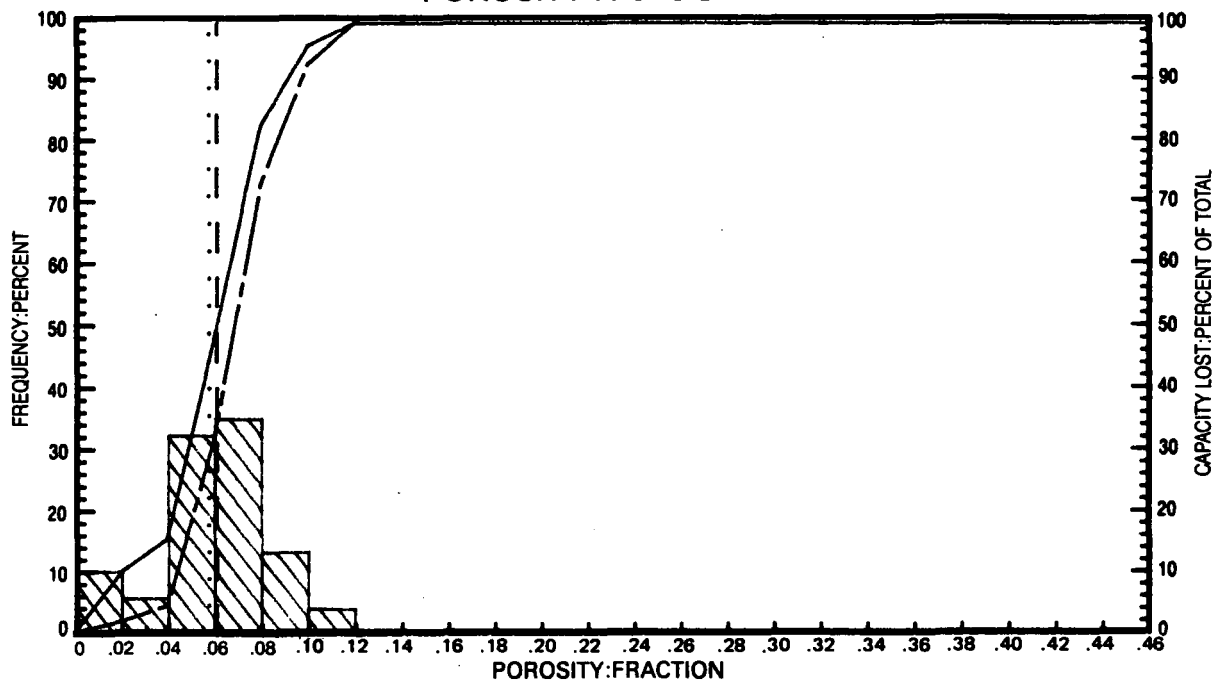
DEPTH INTERVAL	METERS ANALYZED	RANGE & SYMBOL	PERMEABILITY MINIMUM MAXIMUM	POROSITY MIN. MAX.	POROSITY AVERAGE	PERMEABILITY AVERAGES ARITHMETIC HARMONIC GEOMETRIC
1330.50 - 1353.20	7.00	1 (X)	0.000 10.0	0.000 0.480	0.058	0.04 0.01 0.02

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

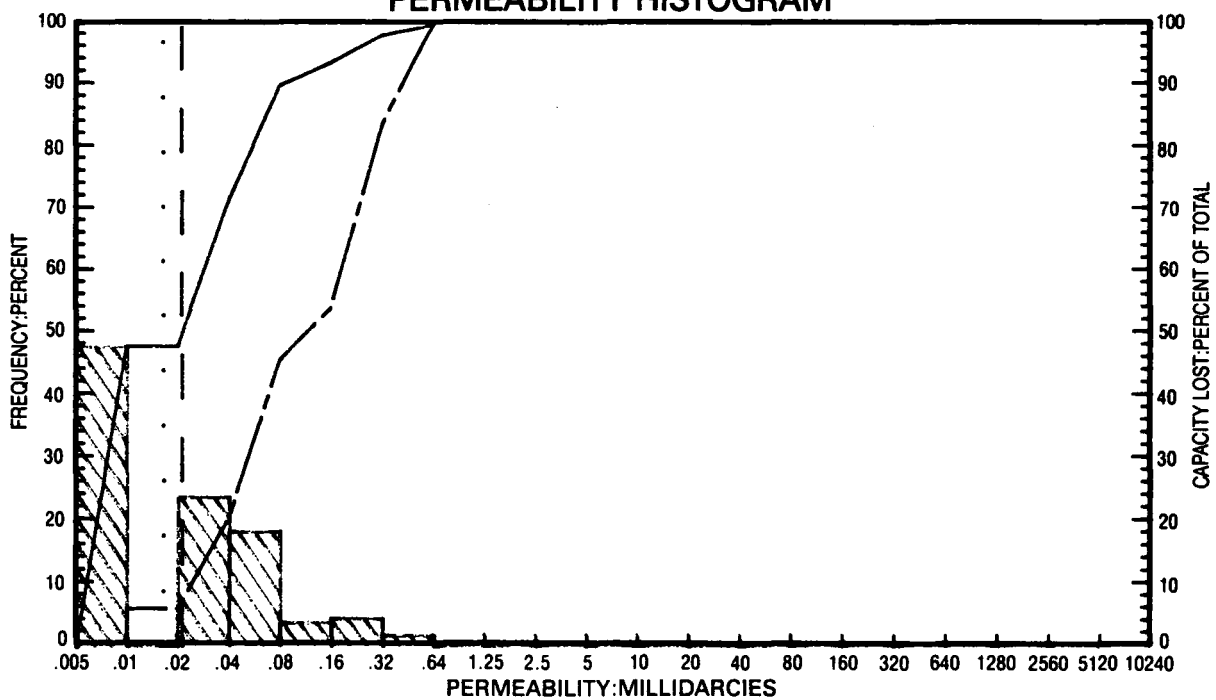
RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG((0.2483)(POROSITY) + -3.2237)

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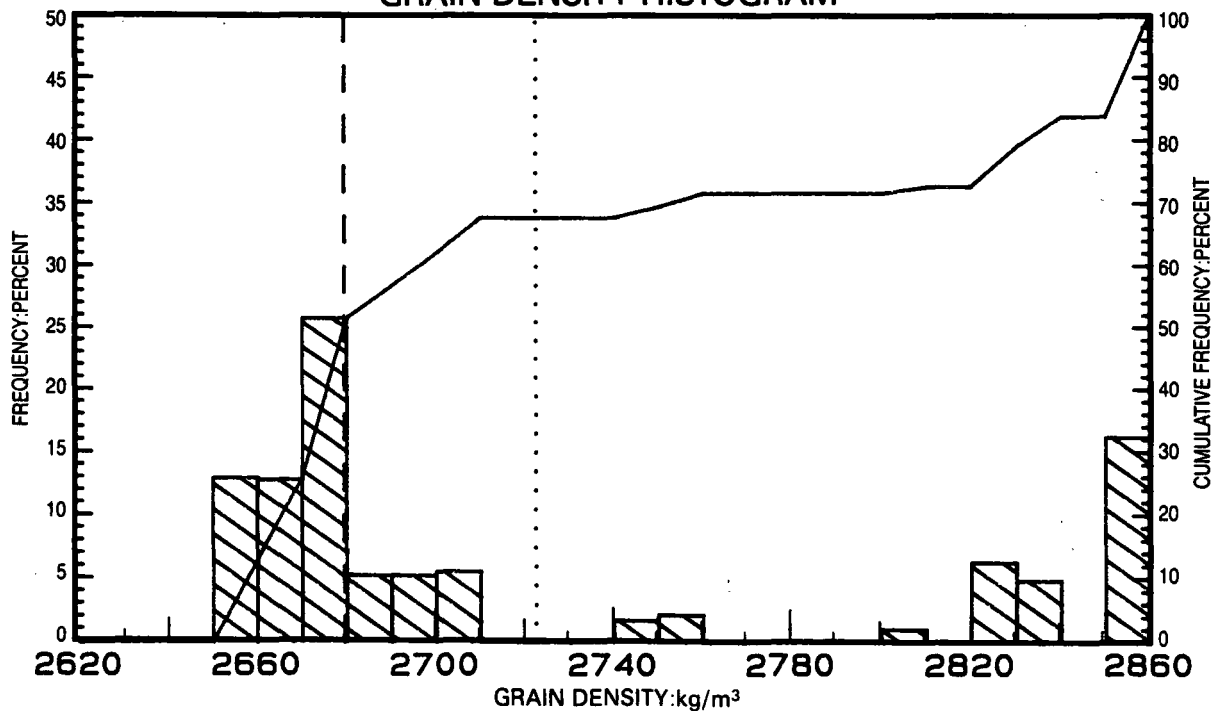
POROSITY HISTOGRAM



PERMEABILITY HISTOGRAM



GRAIN DENSITY HISTOGRAM



PETRO-CANADA EXPLORATION INC.
PCI CANTERRA BELE 0-35
WILDCAT, N.W.T.

1330.50-1353.20 FILE 70175-86-539C
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 70175-86-539C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : WILDCAT, N.W.T.

WELL : PCI CANTERRA BELE 0-35
PROVINCE:

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 : 1330.50 - 1353.20 INTERVAL LENGTH : 22.70
METRES ANALYZED IN ZONE : 7.00 LITHOLOGY EXCLUDED : NONE

DATA SUMMARY

POROSITY AVERAGE	PERMEABILITY AVERAGES		
	ARITHMETIC	HARMONIC	GEOMETRIC
0.058	0.04	0.01	0.02

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 2
FILE 70175-86-539C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : WILDCAT, N.W.T.

WELL : PCI CANTERRA BELE 0-35
PROVINCE:

GROUPING BY POROSITY RANGES

POROSITY RANGE	METRES IN RANGE	AVERAGE POROSITY	AVERAGE PERM. (GEOM.)	AVERAGE PERM. (ARITH)	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.000 -0.020	0.7	0.011	0.006	0.007	10.0	10.0
0.020 -0.040	0.4	0.027	0.006	0.008	5.6	15.6
0.040 -0.060	2.3	0.049	0.011	0.016	32.4	48.0
0.060 -0.080	2.5	0.068	0.022	0.069	35.1	83.1
0.080 -0.100	0.9	0.088	0.039	0.046	13.1	96.3
0.100 -0.120	0.3	0.104	0.090	0.090	3.7	100.0

TOTAL NUMBER OF METRES = 7.00

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 3
FILE 70175-86-539C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : WILDCAT, N.W.T.

WELL : PCI CANTERRA BELE 0-35
PROVINCE:

GROUPING BY PERMEABILITY RANGES

PERMEABILITY RANGE	METRES IN RANGE	AVERAGE PERM. (GEOM.)	PERM. (ARITH)	AVERAGE POROSITY	FREQUENCY (PERCENT)	CUMULATIVE FREQUENCY (%)
0.005 - 0.010	3.4	0.005	0.005	0.043	48.0	48.0
0.020 - 0.039	1.7	0.024	0.025	0.062	23.9	71.9
0.039 - 0.078	1.3	0.054	0.055	0.077	18.3	90.1
0.078 - 0.156	0.3	0.090	0.090	0.104	3.7	93.9
0.156 - 0.312	0.3	0.266	0.269	0.065	4.4	98.3
0.312 - 0.625	0.1	0.370	0.370	0.069	1.7	100.0

TOTAL NUMBER OF METRES = 7.00

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

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FILE 70175-86-539C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : WILDCAT, N.W.T.

WELL : PCI CANTERRA BELE 0-35
PROVINCE:

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	7.0	100.0	0.058	0.061
0.020	0.7	1.8	6.3	98.2	0.063	0.064
0.040	1.1	4.5	5.9	95.5	0.065	0.066
0.060	3.4	31.8	3.6	68.2	0.075	
0.080	5.8	73.2	1.2	26.8	0.091	
0.100	6.7	93.3	0.3	6.7	0.104	
0.120	7.0	100.0	0.0	-0.0	0.000	

TOTAL STORAGE CAPACITY IN POROSITY-METRES = 0.403

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STATISTICAL DATA FOR POROSITY AND PERMEABILITY HISTOGRAM

PAGE 5
FILE 70175-86-539C

COMPANY: PETRO-CANADA EXPLORATION INC.
FIELD : WILDCAT, N.W.T.

WELL : PCI CANTERRA BELE 0-35
PROVINCE:

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	7.0	100.0	0.02	0.02
0.010	3.4	6.0	3.6	94.0	0.05	0.04
0.020	3.4	6.0	3.6	94.0	0.05	0.04
0.039	5.0	20.7	2.0	79.3	0.08	
0.078	6.3	45.8	0.7	54.2	0.19	0.19
0.156	6.6	54.2	0.4	45.8	0.29	
0.312	6.9	84.1	0.1	15.9	0.37	
0.625	7.0	100.0	0.0	0.0	1.00	

TOTAL FLOW CAPACITY IN MILLIDARCY-METRES(ARITHMETIC) = 0.28

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COMPANY	PETRO-CANADA EXPLORATION INC.	FILE NO.	70175-86-539C
WELL	PCI CANTERRA BELE 0-35	DATE	
FIELD	WILDCAT, N.W.T	FORMATION	MT. CAP
PROVINCE		ELEV.	
		DRLG. FLD.	WATER BASE MUD
		CORES	1,2
LOCATION	66 34'58.13" N LAT. 126 21 '32.10" W LONG.		

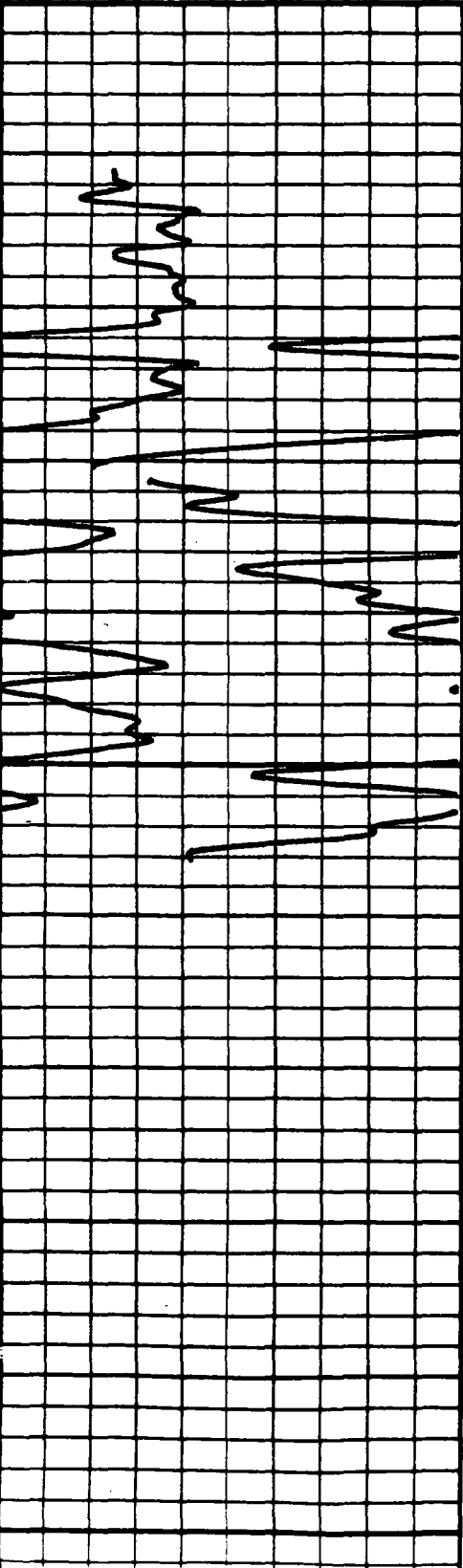
CORRELATION COREGRAPH

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VERTICAL SCALE: 10 cm = 24m

Gamma Ray
API UNITS

0 200

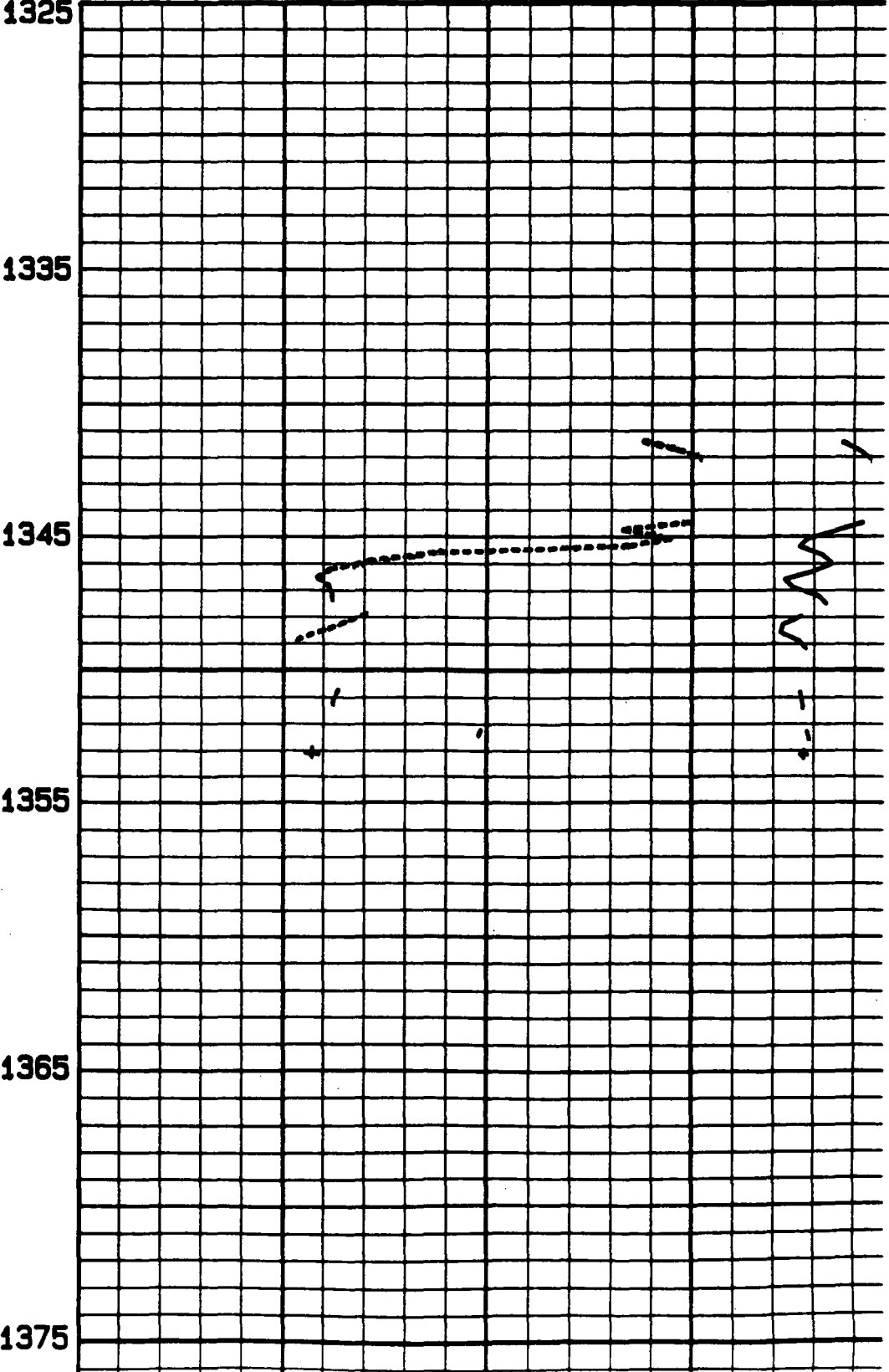


Grain Density (Kg/m³) — — —

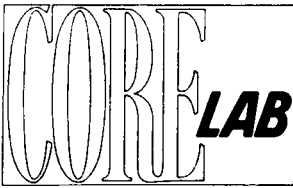
2550 2650 2750 2850 2950

Porosity (FRACTION) — — —

.60 .45 .30 .15 0



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Petroleum Reservoir Engineering

COMPANYPETRO-CANADA EXPLORATION INC.

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WELLPCI CANTERRA BELE 0-35

DATE

FIELDWILDCAT, N.W.T.

FORMATIONMT. CAP

ELEV.

PROVINCE

DRLG. FLD.WATER BASE MUD

CORES1,2

LOCATION66 34 '58.13" N LAT. 126 21 '32.10" W LONG.

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