

OIL LIBRA. DELES - CANADA L.D.

PETROLEUM RESERVIOR ENGINEERING

THERMAL EXTRACTION CHROMATOGRAPHY

PETRO-CANADA INC.
PCI CANTERRA TWEED LAKE A-67

23-APR-86

CORE LABORATORIES CANADA - LTD.

COMPANY PETRO-CANADA INC.
 WELL PCI CANTERRA TWEED LAKE A-67
 FIELD
 INFORMATION

LOCATION
 DRLG. FLD.

PAGE 1
 FILE 70380-86-752
 DATE 23-APR-86
 ANALYST EW

THERMAL EXTRACTION CHROMATOGRAPHY

SAMPLE NUMBER	DEPTH METERS(M)	RELATIVE HYDROCARBON RICHNESS(X10!6)	RELATIVE HYDROCARBON FLOURESCENCE	PROBABLE PRODUCTION	<C8	<C14
1	1200.00	*				
2	1202.50	*				
3	1232.50	0.33	-	Gas	17.80	76.54
4	1237.50	0.32	-	Gas	5.92	49.04
5	1260.00	1.47	-	Tran	9.13	53.36
6	1262.50	4.29	-	Tran	1.66	37.44
7	1265.00	1.49	-	Tran	7.61	47.60
8	1281.20	4.08	-	Tran	0.16	4.96
9	1284.00	3.36	-	Tran	5.84	23.19
10	1295.80	8.55	-	Oil/Cond	0.08	23.49
11	1298.75	0.64	-	N.P.	11.45	27.60

* Sample Not Available

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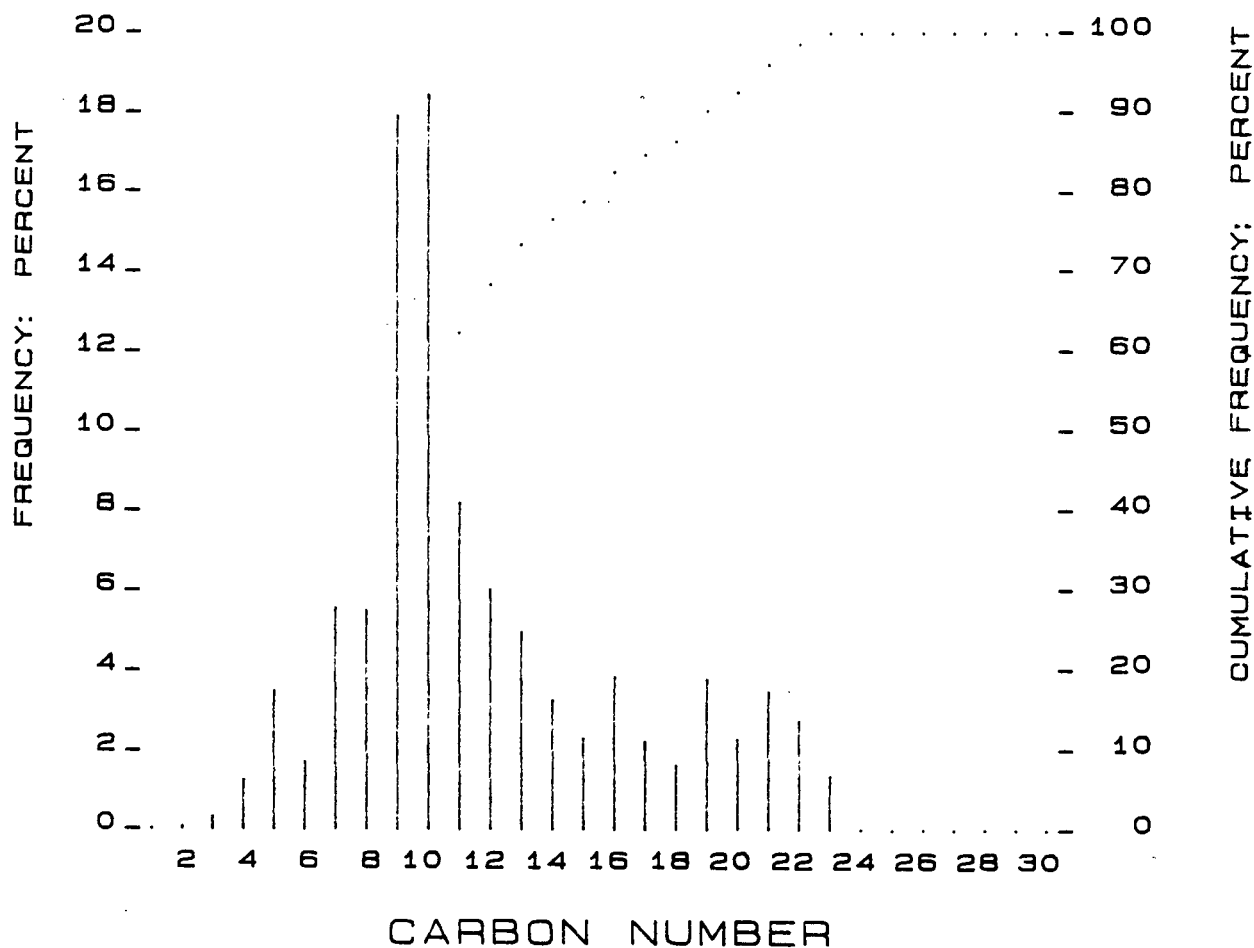


Petroleum Reservoir Engineering

COMPANY PETRO-CANADA INC. FILE NO. 7012-86-752
WELL PCI CANTERRA TWEED LAKE A-67 DATE 23-APR-86
FIELD _____ FORMATION _____ ELEV. _____
PROVINCE _____ DRILLING FLUID _____
LOCATION _____

HYDROCARBON PROFILE

SAMPLE # 3
DEPTH 1232.50
REL. RICHNESS 332 319



CORE LABORATORIES - CANADA, LTD.

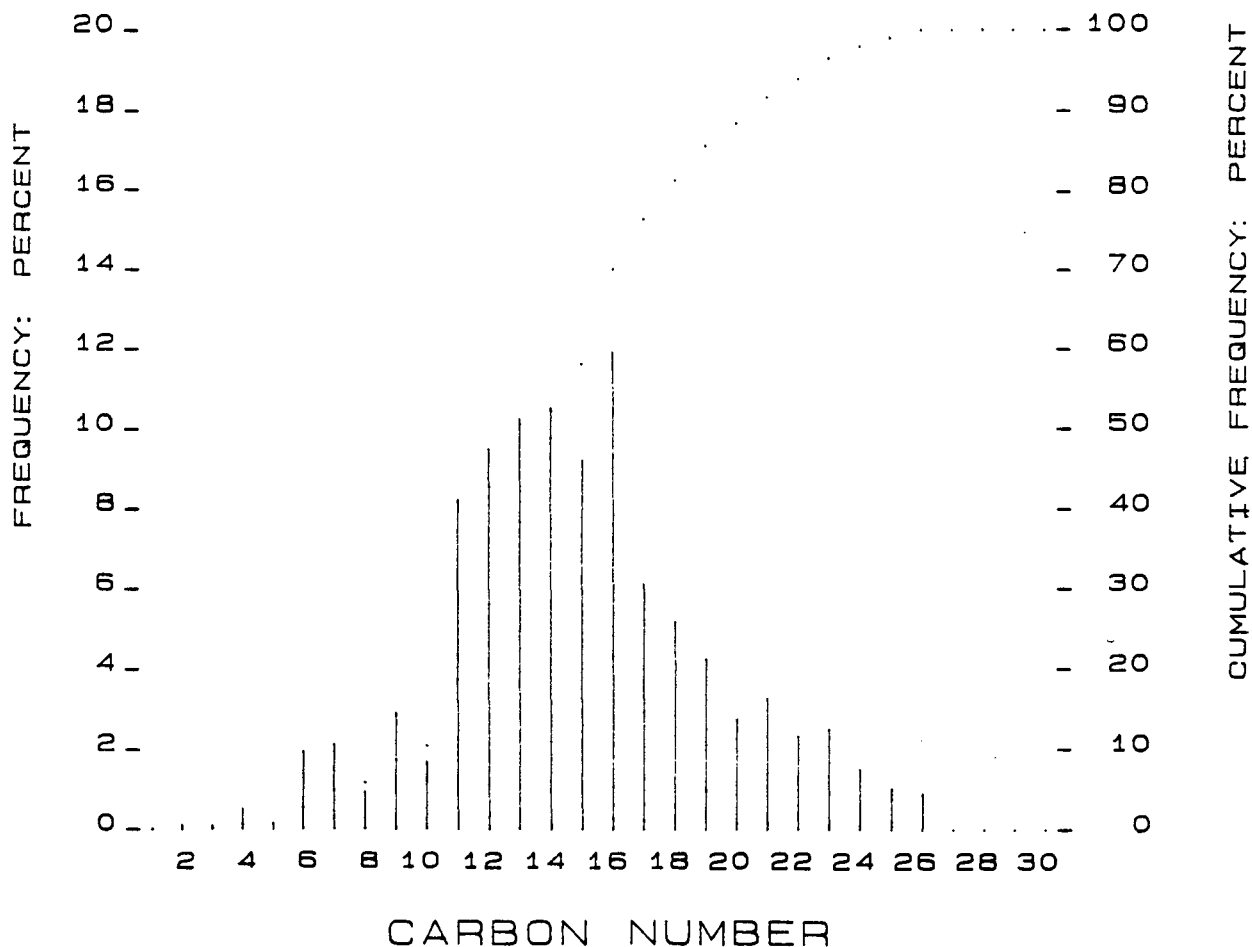


Petroleum Reservoir Engineering

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HYDROCARBON PROFILE

SAMPLE # 4
DEPTH 1237.50
REL. RICHNESS 315 362



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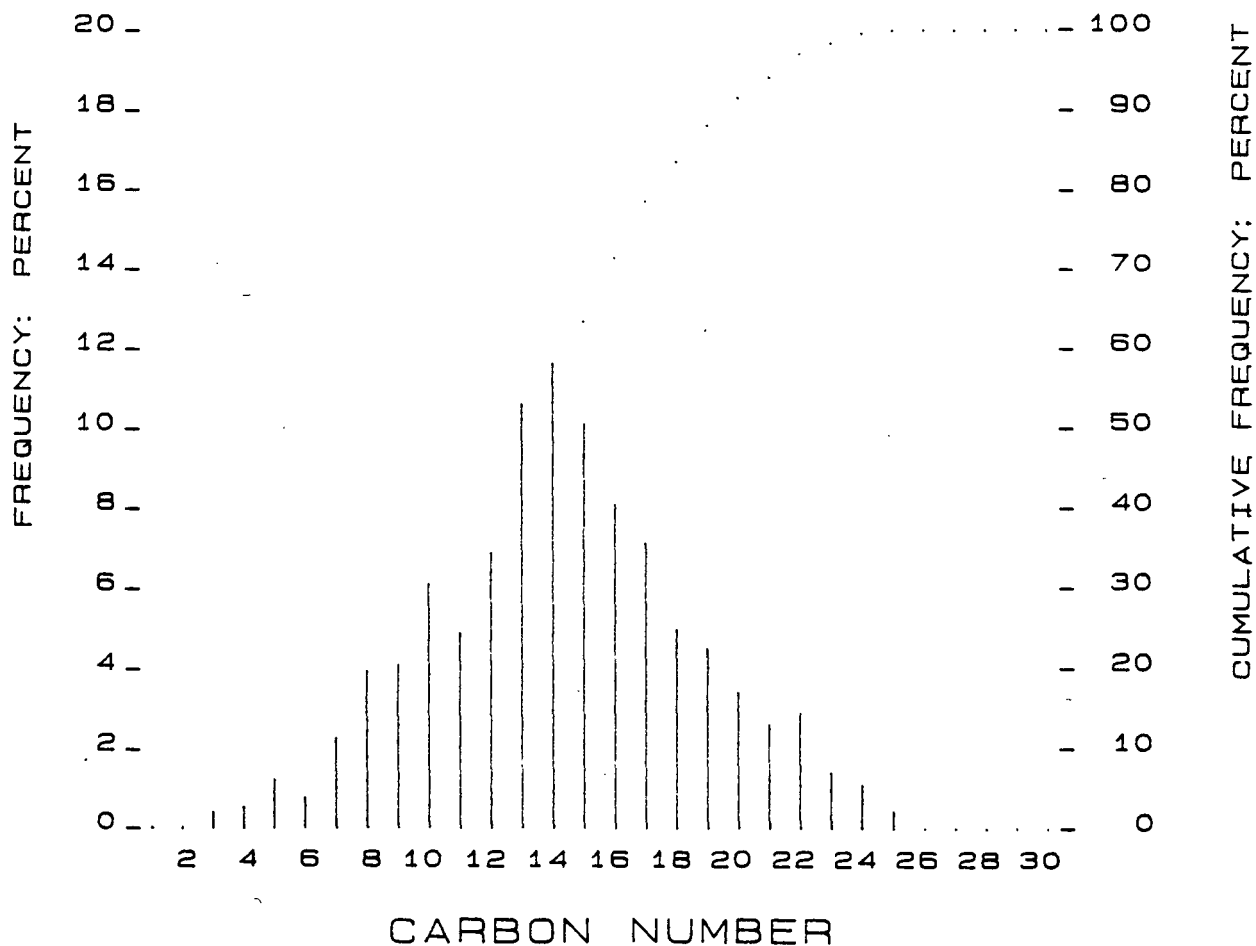


Petroleum Reservoir Engineering

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HYDROCARBON PROFILE

SAMPLE # 5
DEPTH 1260.00
REL. RICHNESS 1 467 401



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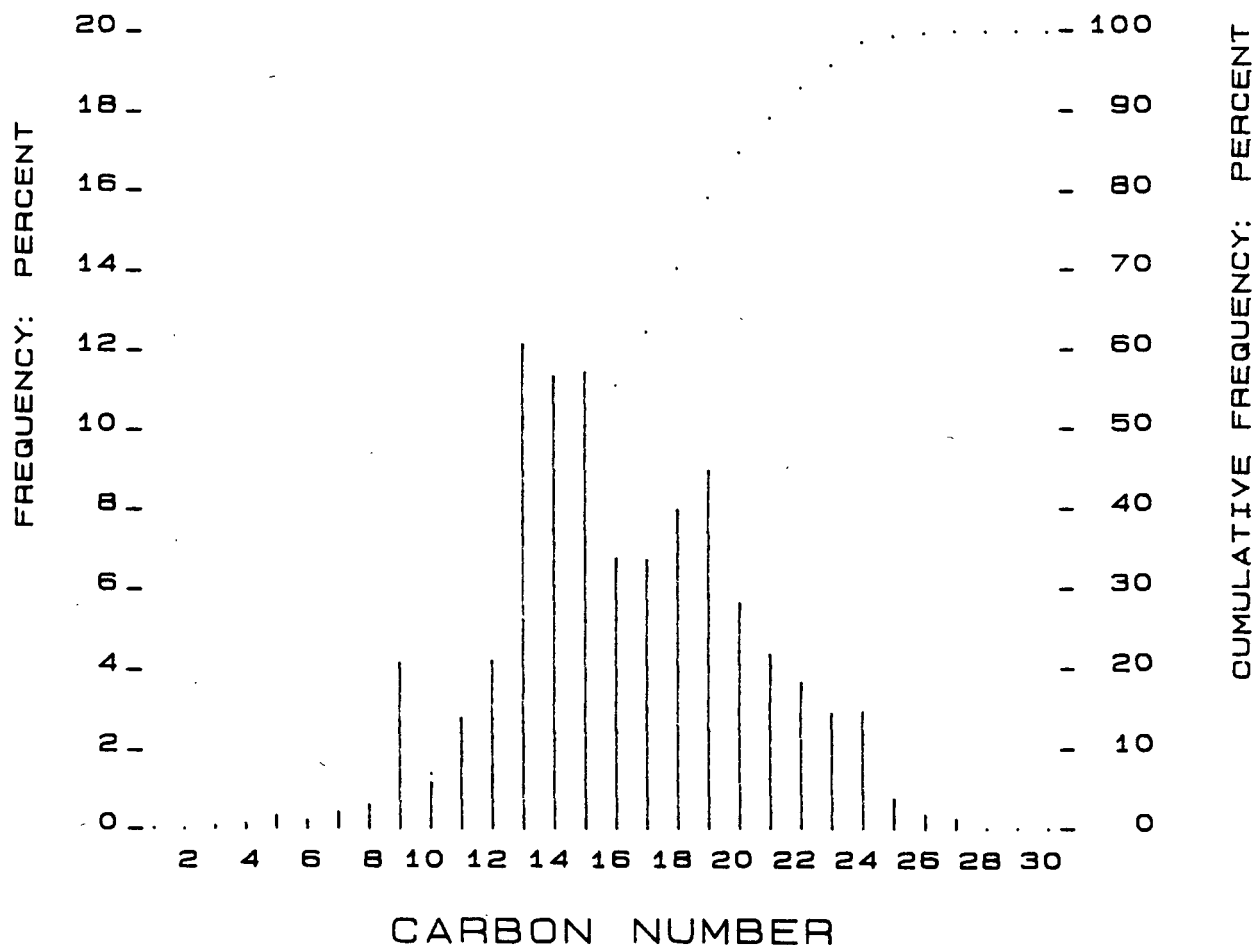


Petroleum Reservoir Engineering

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HYDROCARBON PROFILE

SAMPLE # 6
DEPTH 1262.50
REL. RICHNESS 4 292 055



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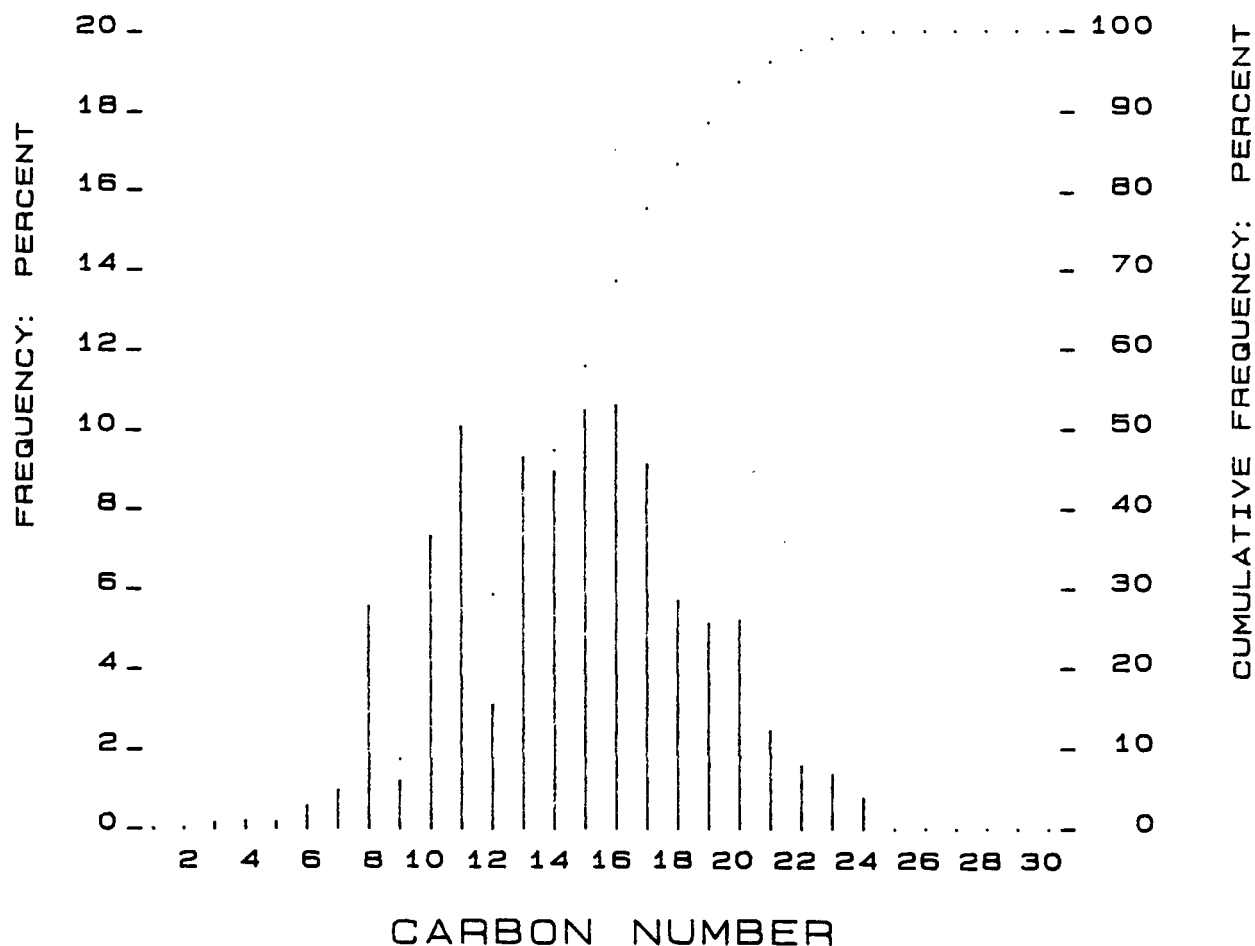


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HYDROCARBON PROFILE

SAMPLE # 7
DEPTH 1265.00
REL. RICHNESS 1 489 618



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Petroleum Reservoir Engineering

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ELEV. _____

PROVINCE _____ DRILLING FLUID _____

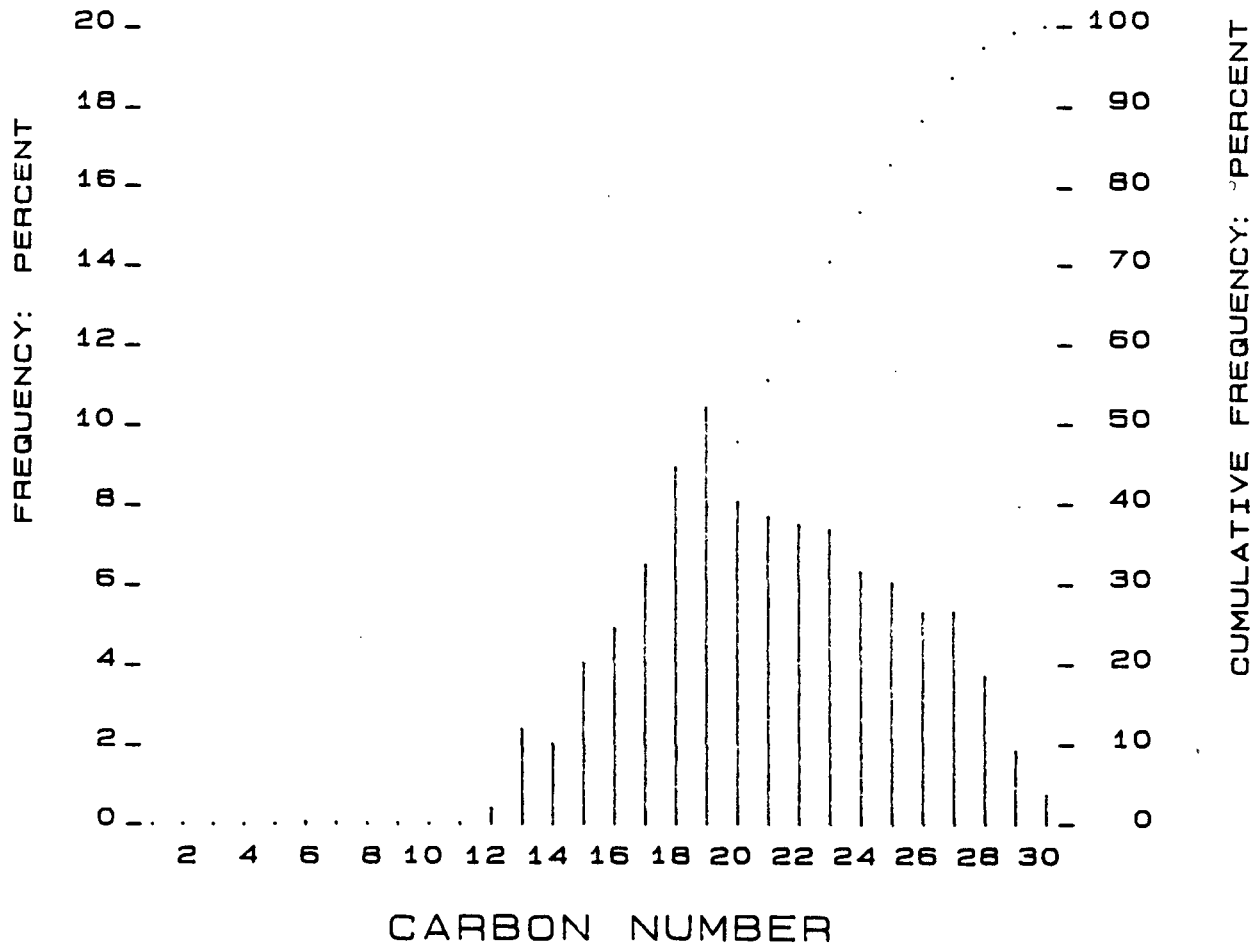
LOCATION _____

HYDROCARBON PROFILE

SAMPLE # **8**

DEPTH **1281.20**

REL. RICHNESS **4 076 583**



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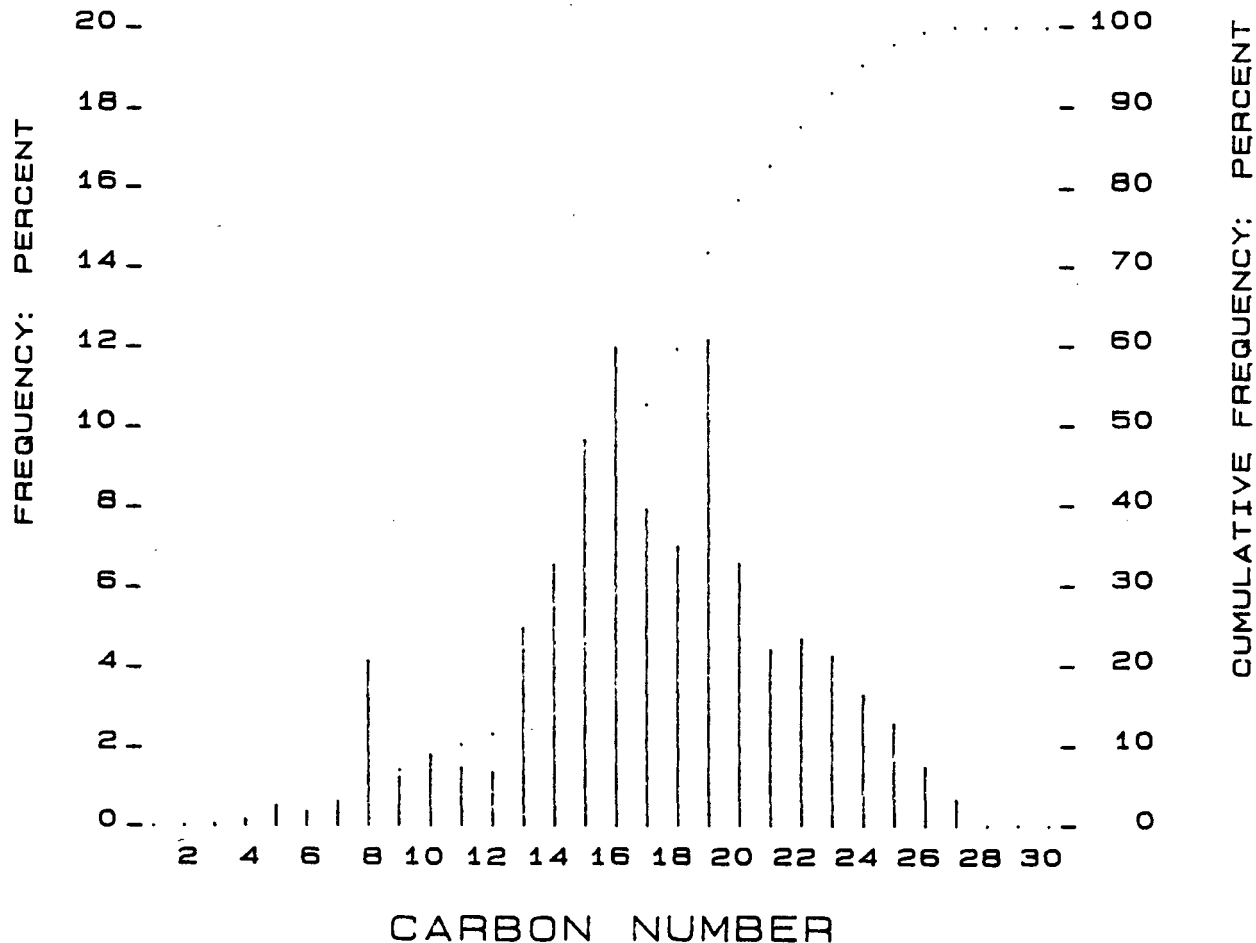


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HYDROCARBON PROFILE

SAMPLE # 9
DEPTH 1284.00
REL. RICHNESS 3 358 326



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ELEV. _____

PROVINCE _____ DRILLING FLUID _____

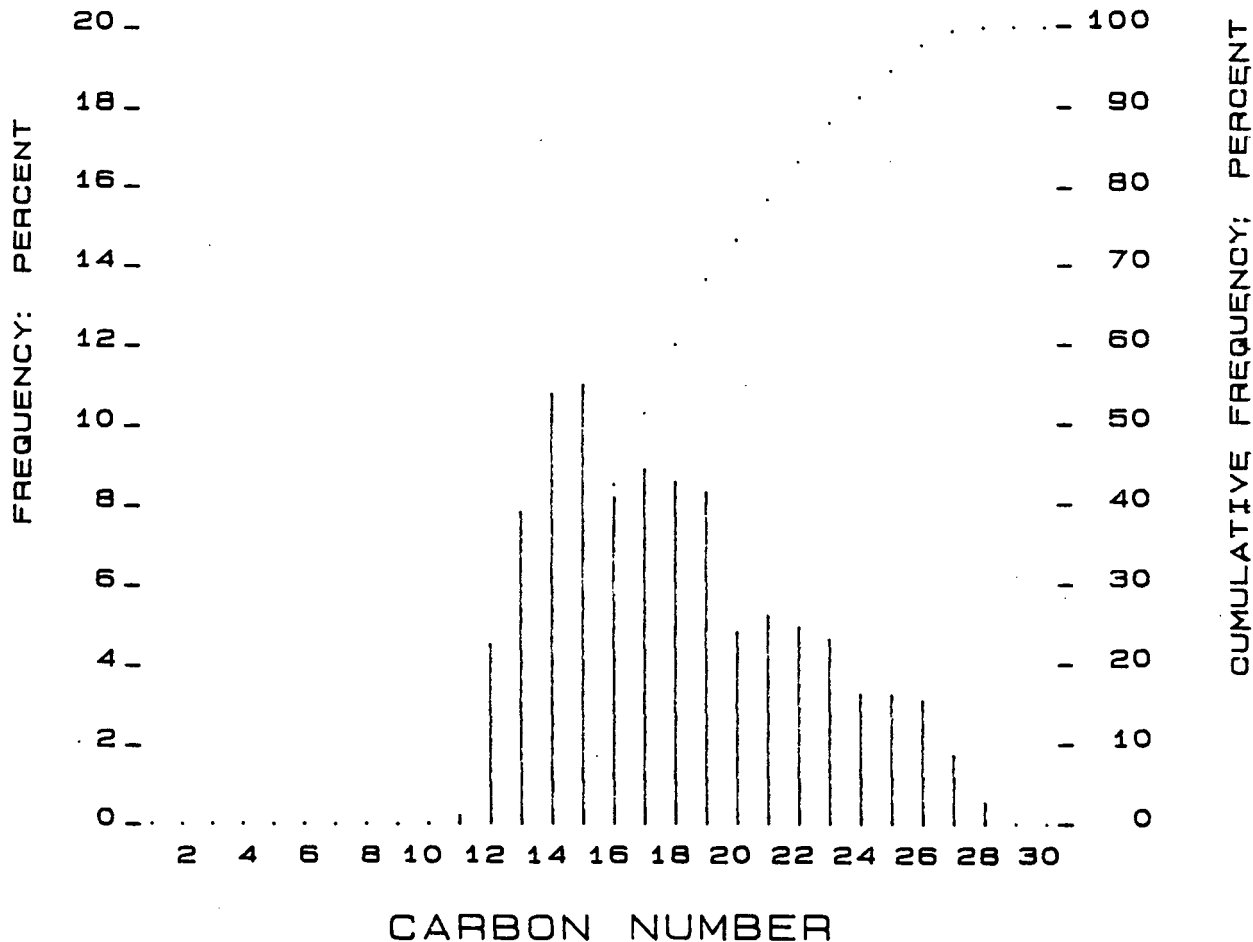
LOCATION _____

HYDROCARBON PROFILE

SAMPLE # 10

DEPTH 1295.80

REL. RICHNESS 8 553 130



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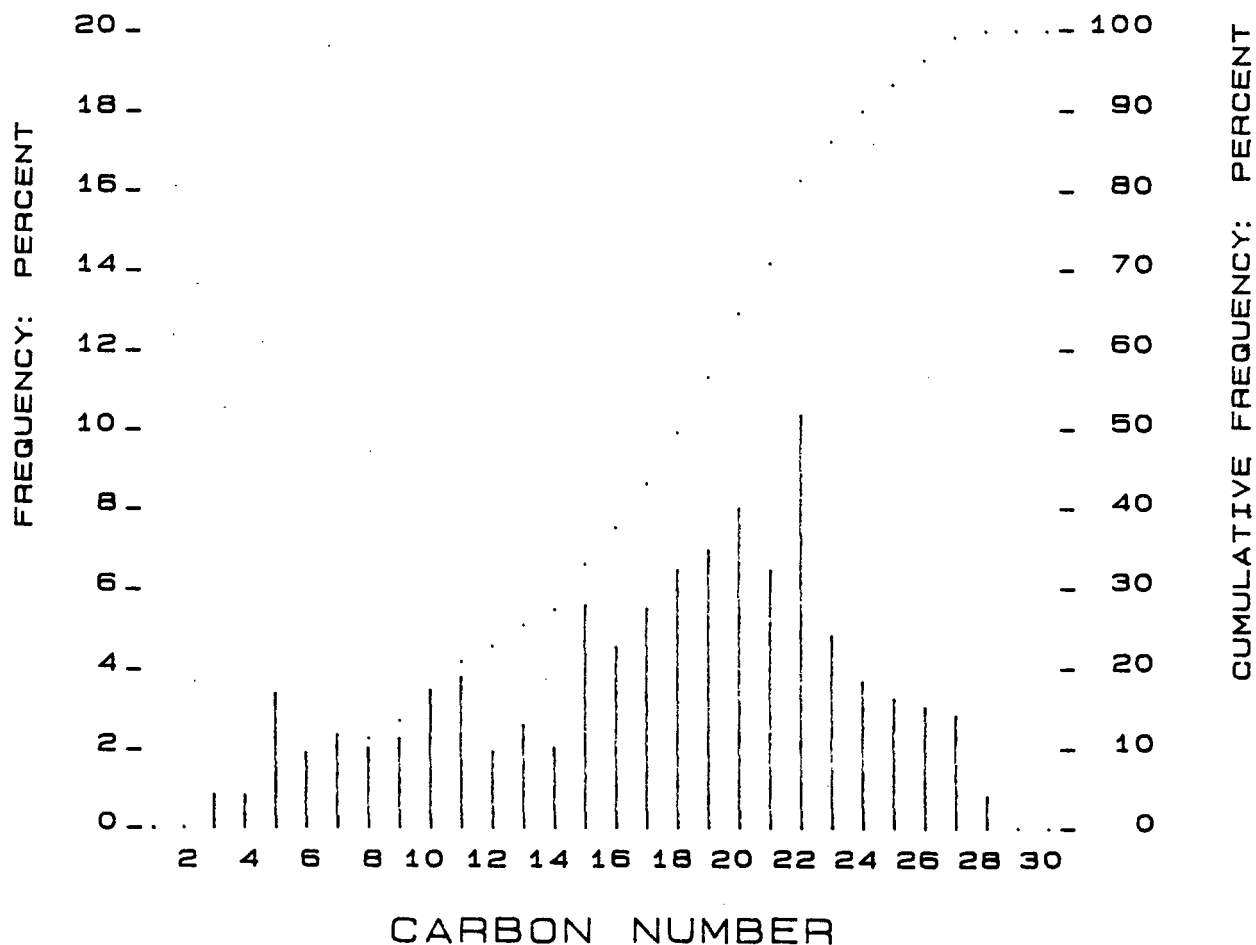


Petroleum Reservoir Engineering

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HYDROCARBON PROFILE

SAMPLE # 11
DEPTH 1298.75
REL. RICHNESS 636 595



CORE LABORATORIES CANADA - LTD.

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TEC DATA AND STATISTICS SAMPLE 3 DEPTH 1232.50

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	217.	0.07	0.07
C 3	1056.	0.32	0.38
C 4	4052.	1.22	1.60
C 5	11551.	3.48	5.08
C 6	5636.	1.70	6.77
C 7	18359.	5.52	12.30
C 8	18289.	5.50	17.80
C 9	59527.	17.91	35.71
C 10	61260.	18.43	54.15
C 11	27199.	8.18	62.33
C 12	19987.	6.01	68.35
C 13	16428.	4.94	73.29
C 14	10781.	3.24	76.54
C 15	7570.	2.28	78.81
C 16	12690.	3.82	82.63
C 17	7378.	2.22	84.85
C 18	5359.	1.61	86.47
C 19	12512.	3.77	90.23
C 20	7493.	2.25	92.48
C 21	11471.	3.45	95.94
C 22	9066.	2.73	98.66
C 23	4437.	1.34	100.00
C 24	0.	0.00	100.00
C 25	0.	0.00	100.00
C 26	0.	0.00	100.00
C 27	0.	0.00	100.00
C 28	0.	0.00	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 332319.

CORE LABORATORIES CANADA - LTD.

COMPANY PETRO-CANADA INC.
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TEC DATA AND STATISTICS SAMPLE 4 DEPTH 1237.50

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	356.	0.11	0.11
C 3	259.	0.08	0.20
C 4	1627.	0.52	0.71
C 5	446.	0.14	0.85
C 6	6225.	1.97	2.83
C 7	6742.	2.14	4.96
C 8	3020.	0.96	5.92
C 9	9228.	2.93	8.85
C 10	5320.	1.69	10.53
C 11	25952.	8.23	18.76
C 12	29986.	9.51	28.27
C 13	32324.	10.25	38.52
C 14	33160.	10.51	49.04
C 15	29077.	9.22	58.26
C 16	37645.	11.94	70.19
C 17	19296.	6.12	76.31
C 18	16348.	5.18	81.50
C 19	13413.	4.25	85.75
C 20	8604.	2.73	88.48
C 21	10308.	3.27	91.75
C 22	7333.	2.33	94.07
C 23	7928.	2.51	96.59
C 24	4733.	1.50	98.09
C 25	3200.	1.01	99.10
C 26	2832.	0.90	100.00
C 27	0.	0.00	100.00
C 28	0.	0.00	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 315362.

CORE LABORATORIES CANADA - LTD.

COMPANY PETRO-CANADA INC.
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TEC DATA AND STATISTICS SAMPLE 5 DEPTH 1260.00

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	0.	0.00	0.00
C 3	5611.	0.38	0.38
C 4	7920.	0.54	0.92
C 5	17965.	1.22	2.15
C 6	11426.	0.78	2.93
C 7	33354.	2.27	5.20
C 8	57704.	3.93	9.13
C 9	60115.	4.10	13.23
C 10	89939.	6.13	19.36
C 11	72063.	4.91	24.27
C 12	100919.	6.88	31.14
C 13	155434.	10.59	41.74
C 14	170503.	11.62	53.36
C 15	148433.	10.12	63.47
C 16	118532.	8.08	71.55
C 17	104662.	7.13	78.68
C 18	73026.	4.98	83.66
C 19	66224.	4.51	88.17
C 20	49889.	3.40	91.57
C 21	38067.	2.59	94.17
C 22	42318.	2.88	97.05
C 23	20434.	1.39	98.44
C 24	16166.	1.10	99.54
C 25	6698.	0.46	100.00
C 26	0.	0.00	100.00
C 27	0.	0.00	100.00
C 28	0.	0.00	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 1467401.

CORE LABORATORIES CANADA - LTD.

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TEC DATA AND STATISTICS SAMPLE 6 DEPTH 1262.50

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	343.	0.01	0.01
C 3	2554.	0.06	0.07
C 4	4307.	0.10	0.17
C 5	13123.	0.31	0.47
C 6	8319.	0.19	0.67
C 7	17244.	0.40	1.07
C 8	25514.	0.59	1.66
C 9	178933.	4.17	5.83
C 10	49397.	1.15	6.98
C 11	119671.	2.79	9.77
C 12	180204.	4.20	13.97
C 13	521025.	12.14	26.11
C 14	486111.	11.33	37.44
C 15	490729.	11.43	48.87
C 16	289726.	6.75	55.62
C 17	288097.	6.71	62.33
C 18	341731.	7.96	70.29
C 19	384870.	8.97	79.26
C 20	241400.	5.62	84.88
C 21	186400.	4.34	89.23
C 22	156212.	3.64	92.87
C 23	123724.	2.88	95.75
C 24	125139.	2.92	98.67
C 25	32043.	0.75	99.41
C 26	14846.	0.35	99.76
C 27	10392.	0.24	100.00
C 28	0.	0.00	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 4292055.

CORE LABORATORIES CANADA - LTD.

COMPANY PETRO-CANADA INC.
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TEC DATA AND STATISTICS SAMPLE 7 DEPTH 1265.00

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	205.	0.01	0.01
C 3	2167.	0.15	0.16
C 4	3044.	0.20	0.36
C 5	2351.	0.16	0.52
C 6	8521.	0.57	1.09
C 7	14358.	0.96	2.06
C 8	82676.	5.55	7.61
C 9	18134.	1.22	8.82
C 10	109066.	7.32	16.15
C 11	150364.	10.09	26.24
C 12	46159.	3.10	29.34
C 13	138702.	9.31	38.65
C 14	133385.	8.95	47.60
C 15	156226.	10.49	58.09
C 16	158048.	10.61	68.70
C 17	136345.	9.15	77.86
C 18	84943.	5.70	83.56
C 19	76420.	5.13	88.69
C 20	77478.	5.20	93.89
C 21	36055.	2.42	96.31
C 22	23443.	1.57	97.88
C 23	20087.	1.35	99.23
C 24	11443.	0.77	100.00
C 25	0.	0.00	100.00
C 26	0.	0.00	100.00
C 27	0.	0.00	100.00
C 28	0.	0.00	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 1489618.

CORE LABORATORIES CANADA - LTD.

COMPANY PETRO-CANADA INC.
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TEC DATA AND STATISTICS SAMPLE 8 DEPTH 1281.20

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	336.	0.01	0.01
C 3	587.	0.01	0.02
C 4	1244.	0.03	0.05
C 5	0.	0.00	0.05
C 6	2670.	0.07	0.12
C 7	1825.	0.04	0.16
C 8	0.	0.00	0.16
C 9	0.	0.00	0.16
C 10	0.	0.00	0.16
C 11	0.	0.00	0.16
C 12	15559.	0.38	0.55
C 13	97622.	2.39	2.94
C 14	82503.	2.02	4.96
C 15	164718.	4.04	9.00
C 16	201028.	4.93	13.94
C 17	266114.	6.53	20.46
C 18	364721.	8.95	29.41
C 19	426138.	10.45	39.86
C 20	329897.	8.09	47.96
C 21	314714.	7.72	55.68
C 22	306713.	7.52	63.20
C 23	301268.	7.39	70.59
C 24	257871.	6.33	76.92
C 25	247305.	6.07	82.98
C 26	217394.	5.33	88.31
C 27	217794.	5.34	93.66
C 28	152094.	3.73	97.39
C 29	76047.	1.87	99.25
C 30	30419.	0.75	100.00

TOTAL 4076583.

CORE LABORATORIES CANADA - LTD.

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TEC DATA AND STATISTICS

SAMPLE 9 DEPTH 1284.00

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	266.	0.01	0.01
C 3	1462.	0.04	0.05
C 4	4819.	0.14	0.19
C 5	17115.	0.51	0.70
C 6	11742.	0.35	1.05
C 7	20818.	0.62	1.67
C 8	139986.	4.17	5.84
C 9	40608.	1.21	7.05
C 10	60651.	1.81	8.86
C 11	49029.	1.46	10.32
C 12	45407.	1.35	11.67
C 13	166528.	4.96	16.63
C 14	220495.	6.57	23.19
C 15	324477.	9.66	32.86
C 16	402394.	11.98	44.84
C 17	266743.	7.94	52.78
C 18	235245.	7.00	59.79
C 19	409347.	12.19	71.97
C 20	221248.	6.59	78.56
C 21	148893.	4.43	83.00
C 22	157941.	4.70	87.70
C 23	143901.	4.28	91.98
C 24	110917.	3.30	95.29
C 25	86179.	2.57	97.85
C 26	50228.	1.50	99.35
C 27	21885.	0.65	100.00
C 28	0.	0.00	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 3358326.

CORE LABORATORIES CANADA - LTD.

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TEC DATA AND STATISTICS SAMPLE 10 DEPTH 1295.80

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	329.	0.00	0.00
C 3	1745.	0.02	0.02
C 4	1814.	0.02	0.05
C 5	2735.	0.03	0.08
C 6	0.	0.00	0.08
C 7	0.	0.00	0.08
C 8	0.	0.00	0.08
C 9	1476.	0.02	0.09
C 10	3640.	0.04	0.14
C 11	19047.	0.22	0.36
C 12	387671.	4.53	4.89
C 13	670006.	7.83	12.73
C 14	920755.	10.77	23.49
C 15	940127.	10.99	34.48
C 16	700041.	8.18	42.67
C 17	762080.	8.91	51.58
C 18	733763.	8.58	60.16
C 19	710973.	8.31	68.47
C 20	411384.	4.81	73.28
C 21	447731.	5.23	78.51
C 22	422333.	4.94	83.45
C 23	397321.	4.65	88.10
C 24	280078.	3.27	91.37
C 25	278318.	3.25	94.62
C 26	265922.	3.11	97.73
C 27	148078.	1.73	99.46
C 28	45763.	0.54	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 8553130.

CORE LABORATORIES CANADA - LTD.

COMPANY PETRO-CANADA INC.
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TEC DATA AND STATISTICS SAMPLE 11 DEPTH 1298.75

COMPONENT RICHNESS FREQUENCY CUMULATIVE

C 1	0.	0.00	0.00
C 2	233.	0.04	0.04
C 3	5432.	0.85	0.89
C 4	5320.	0.84	1.73
C 5	21653.	3.40	5.13
C 6	12158.	1.91	7.04
C 7	15114.	2.37	9.41
C 8	12951.	2.03	11.45
C 9	14359.	2.26	13.70
C 10	22297.	3.50	17.20
C 11	24222.	3.80	21.01
C 12	12403.	1.95	22.96
C 13	16592.	2.61	25.56
C 14	12996.	2.04	27.60
C 15	35538.	5.58	33.19
C 16	28988.	4.55	37.74
C 17	35091.	5.51	43.25
C 18	41147.	6.46	49.72
C 19	44281.	6.96	56.67
C 20	50948.	8.00	64.68
C 21	41107.	6.46	71.13
C 22	65976.	10.36	81.50
C 23	30705.	4.82	86.32
C 24	23477.	3.69	90.01
C 25	20813.	3.27	93.28
C 26	19414.	3.05	96.33
C 27	18068.	2.84	99.17
C 28	5310.	0.83	100.00
C 29	0.	0.00	100.00
C 30	0.	0.00	100.00

TOTAL 636595.