

GIPPSLAND BASIN.

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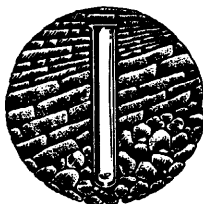
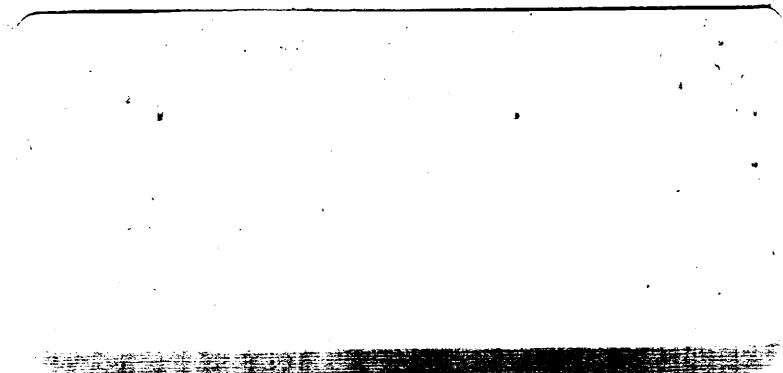
GEOL. M. HERBERT BOX

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BROWN & RUTH LABORATORIES, INC.

HOUSTON, TEXAS

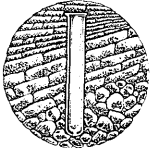
OIL and GAS DIVISION

GEOCHEMICAL REPORT - 2 FEB 1983

Results of T.O.C./Pyrolysis Determinations

Barracouta A-3, Australia
3310' - 11,710'

BROWN & RUTH LABORATORIES, INC.
10690 Shadow Wood Drive, Suite 130
Houston, Texas 77043



BROWN & RUTH LABORATORIES, INC.

10690 SHADOW WOOD DRIVE, SUITE 130, HOUSTON, TEXAS 77043 © (713) 464-3284

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November 2, 1982

Mobil Exploration & Producing
Services, Inc.
Post Office Box 900
Dallas, Texas 75221

Attention: R. P. Nixon

Gentlemen:

Attached are the results of our analysis of one hundred eighty-six (186) cuttings samples from the well Barracouta A-3, Australia.

The work was authorized by your letter of September 29, 1982. Instructions designating the analyses to be carried out were submitted with the samples. The unused sample material is being returned under separate cover.

We appreciate the opportunity to be of service to Mobil. If you have any questions regarding the data, then please contact us.

Very truly yours,

BROWN & RUTH LABORATORIES, INC.

Gary W. Ruth

GWR/rh

Attachments

cc: A. J. Miller
L. B. Gibson

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-001	3310-3340	A) 100% mudstone, light grayish green	0.38
400-002	3350-3400	A) 95% mudstone, light grayish green	0.26
400-003	3400-3450	A) 70% sand B) 30% mudstone, light grayish green	0.23
400-004	3450-3600	A) 70% sand B) 30% mudstone, light grayish green	0.23
400-005	3600-3640	A) 85% sandstone B) 15% mudstone, light grayish green	---
400-006	3640-3700	A) 100% sand, clear	---
400-007	3700-3760	A) 100% sand, clear	---
400-008	3760-3820	A) 100% sand, clear	---
400-009	3820-3880	A) 75% sand, clear B) 25% argillite, coaly, dark gray	12.62
400-010	3880-3930	A) 75% sand, clear B) 25% argillite, coaly, dark gray	12.16
400-011	3930-3980	A) 80% sand, clear B) 20% argillite, coaly, dark gray	---
400-012	3980-4000	A) 40% argillite, slightly coaly, dark gray B) 40% mudstone, grayish green C) 20% sand, clear	16.35
400-013	4000-4050	A) 90% sand, clear B) 10% argillite, coaly, dark gray	---
400-014	4050-4100	A) 100% argillite, coaly, dark gray	54.87
400-015	4100-4150	A) 90% argillite, coaly, dark gray B) 5% sand, clear C) 5% mudstone, light grayish green	29.95
400-016	4150-4170	A) 80% argillite, coaly, dark gray B) 20% sand, clear C) Trace of mudstone	28.30
400-017	4170-4200	A) 80% sand, clear B) 20% argillite, coaly, dark gray	---
400-018	4200-4250	A) 70% sand, clear B) 30% argillite, coaly, dark gray	16.60

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Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-019	4560-4590	A) 85% mudstone, grayish green B) 10% sand, clear C) 5% argillite, coaly, dark gray	3.30
400-020	4590-4600	A) 90% argillite, coaly, dark gray B) 10% sand, clear	26.44
400-021	4600-4620	A) 65% argillite, coaly, dark gray B) 25% mudstone, grayish green C) 10% sand, clear	18.09
400-022	4620-4640	A) 100% sand, clear B) Trace of argillite	---
400-023	4650-4700	A) 100% sand, clear	---
400-024	4700-4750	A) 100% sand, clear B) Trace of argillite & mudstone	---
400-025	4750-4780	A) 100% sand, clear B) Trace of argillite & mudstone	---
400-026	4780-4800	A) 95% sand, clear B) 5% argillite, coaly, dark gray	---
400-027	4800-4850	A) 85% sand, clear B) 15% mudstone, light grayish green	---
400-028	4850-4900	A) 100% sand, clear B) Trace of argillite	---
400-029	4900-4950	A) 100% sand, clear B) Trace of argillite	---
400-030	4950-5000	A) 100% sand, clear	---
400-031	5000-5050	A) 100% sand, clear	---
400-032	5050-5100	A) 95% sand, clear B) 5% mudstone, light grayish green C) Trace of argillite	---
400-033	5100-5150	A) 95% sand, clear B) 5% mudstone, light grayish green C) Trace of argillite	---
400-034	5150-5200	A) 100% sand, clear B) Trace of mudstone & argillite	---

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-035	5200-5250	A) 95% sand, clear B) 5% argillite, dark gray C) Trace of mudstone	---
400-036	5250-5300	A) 90% argillite, coaly black B) 10% sand, clear	29.97
400-037	5300-5350	A) 85% sand, clear B) 10% argillite, coaly black C) 5% mudstone, light grayish green	---
400-038	5350-5400	A) 95% sand, clear B) 5% argillite, dark gray	---
400-039	5400-5450	A) 100% argillite grading to coal, black	45.35
400-040	5460-5470	A) 100% argillite grading to coal, black	56.98
400-041	5470-5500	A) 95% argillite grading to coal, black B) 5% mudstone, light grayish green	21.69
400-042	5500-5540	A) 55% argillite grading to coal, black B) 45% sand, clear C) Trace of mudstone	16.29
400-043	5540-5550	A) 100% coal, argillaceous, dark gray	50.26
400-044	5550-5600	A) 85% coal, argillaceous, dark gray B) 15% mudstone, light grayish green	18.03
400-045	5600-5610	A) 95% coal, argillaceous, dark gray B) 5% mudstone, light grayish green	31.30
400-046	5610-5650	A) 70% sand, clear B) 20% coal, argillaceous, dark gray C) 10% mudstone, light grayish green	17.75
400-047	5650-5700	A) 95% coal, argillaceous, dark gray B) 5% mudstone, light grayish green	28.44
400-048	5700-5760	A) 70% sand, clear B) 20% mudstone, light grayish green C) 10% coal, argillaceous, dark gray	6.89
400-049	5760-5800	A) 70% sand, clear B) 20% mudstone, light grayish green C) 10% coal, argillaceous, dark gray	6.23

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Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-050	5800-5850	A) 90% shale, slightly coaly, dark gray B) 10% mudstone, light olive gray	25.92
400-051	5850-5900	A) 70% mudstone, light grayish green B) 20% argillite grading to coal, black C) 10% sand, clear	7.65
400-052	5900-5950	A) 90% shale, coaly in part, black B) 10% mudstone, light grayish green	27.62
400-053	5960-6000	A) 85% shale, coaly in part, black B) 10% mudstone, light grayish green C) 5% sand, clear	19.13
400-054	6000-6010	A) 85% sand, clear B) 10% shale, coaly in part, black C) 5% mudstone, light grayish green	---
400-055	6010-6050	A) 70% shale, coaly in part, black B) 30% mudstone, light grayish green	13.27
400-056	6050-6100	A) 70% shale, coaly in part, B) 30% mudstone, light olive gray	19.90
400-057	6100-6150	A) 70% mudstone, light olive gray B) 30% shale, coaly in part, black	13.44
400-058	6150-6200	A) 55% shale, coaly, dark gray B) 45% mudstone, generally light olive gray	16.32
400-059	6200-6250	A) 70% shale, olive brown B) 30% mudstone, light olive gray C) Trace of coal	3.98
400-060	6250-6300	A) 90% sand, clear B) 10% composite of shale & coal	---
400-061	6300-6350	A) 60% sand, clear B) 40% composite of shale & coal	11.18
400-062	6350-6400	A) 80% sand, clear B) 10% shale, dark gray C) 10% shale, olive brown	---
400-063	6400-6440	A) 60% mudstone, olive gray B) 40% shale, dark gray	6.26

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-064	6440-6460	A) 90% sand, clear B) 10% shale, dark gray	---
400-065	6460-6490	A) 100% composite of shale & mudstone, varicolored	4.87
400-066	6580-6540	A) 50% shale, olive brown B) 30% shale, coaly, dark gray C) 20% mudstone, olive gray	9.45
400-067	6560-6600	A) 95% sand, clear B) 5% shale, coaly, dark gray C) Trace of mudstone	---
400-068	6600-6650	A) 100% sand, clear B) Trace of shale	---
400-069	6650-6700	A) 100% sand, clear B) Trace of shale	---
400-070	6700-6750	A) 100% sand, clear B) Trace of shale	---
400-071	6750-6800	A) 100% sand, clear B) Trace of shale	---
400-072	6800-6850	A) 100% sand, clear B) Trace of shale	---
400-073	6860-6900	A) 100% sand, clear B) Trace of shale	---
400-074	6900-6950	A) 100% sand, clear B) Trace of shale	---
400-075	6950-7000	A) 100% sand, clear B) Trace of shale	---
400-076	7000-7030	A) 95% sand, generally clear B) 5% shale, dark gray	---
400-077	7030-7040	A) 95% sand, stained reddish brown B) 5% composite of shale & mudstone	---
400-078	7040-7100	A) 80% mudstone grading to shale, medium gray B) 20% shale, dark gray	3.65

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Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-079	7100-7120	A) 90% sand, clear B) 5% shale, dark gray C) 5% mudstone, light olive gray	---
400-080	7120-7130	A) 75% sand, clear B) 15% shale, dark gray C) 10% mudstone, light olive gray	0.43
400-081	7130-7150	A) 95% sand, clear B) 5% composite of mudstone & shale	---
400-082	7150-7200	A) 95% sand, clear B) 5% shale, dark gray	---
400-083	7210-7230	A) 95% sand, clear B) 5% shale, dark gray	---
400-084	7230-7250	A) 75% shale, medium dark gray B) 25% sand, clear	1.81
400-085	7250-7270	A) 80% shale, medium dark gray B) 20% sand, clear	2.01
400-086	7270-7300	A) 80% shale, medium dark gray B) 20% shale, medium gray to dark gray C) Trace of coal	2.40
400-087	7300-7350	A) 80% shale, medium dark gray B) 20% shale, medium gray to dark gray C) Trace of coal	2.41
400-088	7350-7400	A) 70% shale, medium dark gray B) 30% shale, medium gray to dark gray	0.84
400-089	7400-7440	A) 100% sand, clear B) Trace of shale	---
400-090	7440-7480	A) 90% shale grading to mudstone, olive gray to light olive gray B) 10% sand, clear	1.49
400-091	7500-7520	A) 50% shale grading to mudstone, olive gray to light olive gray B) 50% sand, clear	1.30/1.25
400-092	7520-7550	A) 95% sand, clear B) 5% shale, medium dark gray	---

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-093	7550-7600	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-094	7600-7650	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-095	7650-7660	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-096	7700-7750	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-097	7750-7800	A) 100% sand, clear B) Trace of shale	---
400-098	7810-7860	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-099	7860-7870	A) 70% shale, dark gray B) 20% mudstone, light olive gray C) 10% sand, clear	1.03
400-100	7880-7900	A) 95% sand, clear B) 5% shale, medium dark gray C) Trace of coal	---
400-101	7900-7960	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-102	7960-8000	A) 90% sand, clear B) 10% composite of shale & mudstone	---
400-103	8000-8040	A) 95% sand, clear B) 5% composite of shale & mudstone	---
400-104	8060-8100	A) 90% argillite, silty in part, generally medium dark gray B) 10% sand, clear	2.65
400-105	8100-8130	A) 90% argillite, silty in part, generally medium dark gray B) 10% sand, clear	3.85
400-106	8130-8170	A) 95% sand, clear B) 5% argillite, silty in part, generally medium dark gray	---
400-107	8170-8200	A) 60% argillite, silty in part, medium gray B) 40% sand, clear	2.93

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-108	8200-8250	A) 85% sand, clear B) 15% argillite, silty in part, generally medium dark gray	---
400-109	8250-8270	A) 85% sand, clear B) 15% argillite, silty in part, generally medium dark gray	---
400-110	8280-8330	A) 70% shale, medium dark gray B) 30% sand, clear	8.14
400-111	8330-8360	A) 80% sand, clear B) 20% shale, medium dark gray	---
400-112	8360-8400	A) 60% shale grading to argillite, medium dark gray B) 30% mudstone, light olive gray C) 10% sand, clear	1.54
400-113	8400-8450	A) 85% sand, clear B) 15% shale grading to argillite, medium dark gray	---
400-114	8450-8500	A) 85% sand, clear B) 15% shale grading to argillite, medium dark gray C) Trace of mudstone	---
400-115	8500-8560	A) 55% shale, coaly in part B) 35% sand, clear C) 10% mudstone, anhydritic, light gray	6.12
400-116	8560-8590	A) 95% sand, clear B) 5% composite of shale & mudstone	---
400-117	8590-8620	A) 90% coal, shaly in part, black B) 10% composite of sand & mudstone	22.51/22.15
400-118	8620-8640	A) 90% sand, clear B) 10% coal, black	---
400-119	8640-8680	A) 85% sand, generally clear B) 15% coal, black	---
400-120	8700-8760	A) 90% sand, generally clear B) 10% composite of coal & sand	---
400-121	8760-8780	A) 50% sand, generally clear B) 50% coal, black	10.20

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Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-122	8780-8830	A) 95% sand, clear B) 5% composite of coal & sand	---
400-123	8830-8850	A) 70% sand, clear B) 25% shale, medium dark gray C) 5% composite of coal & mudstone	4.00/3.77
400-124	8850-8900	A) 95% sand, clear B) 5% shale, medium dark gray	---
400-125	8900-8950	A) 100% sand, clear B) Trace of shale & coal	---
400-126	8950-9000	A) 95% sand, clear B) 5% composite of shale & coal	---
400-127	9000-9050	A) 95% sand, clear B) 5% composite of shale & coal	---
400-128	9050-9100	A) 95% sand, clear B) 5% composite of shale & coal	---
400-129	9100-9150	A) 95% sand, clear B) 5% composite of shale & coal	---
400-130	9150-9200	A) 95% sand, clear B) 5% composite of shale & coal	---
400-131	9200-9230	A) 85% sand, clear B) 10% shale, medium dark gray C) 5% coal, black	---
400-132	9250-9290	A) 80% shale grading to mudstone, generally medium dark gray B) 20% sand, clear	3.25
400-133	9300-9350	A) 95% sand, clear B) 5% shale grading to mudstone, generally medium dark gray	---
400-134	9360-9400	A) 80% sand, clear B) 20% shale, generally medium dark gray	---
400-135	9400-9450	A) 75% argillite, silty to sandy, gen- erally medium dark gray B) 20% sand, clear C) 5% coal, black	4.56

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Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description		T.O.C. (Wt.%)
400-136	9450-9500	A)	80% argillite, silty to sandy, generally medium dark gray	3.60
		B)	15% sand, clear	
		C)	5% coal, black	
400-137	9500-9550	A)	95% sand, clear	---
		B)	5% composite of shale & coal	
400-138	9550-9600	A)	90% argillite, silty in part, medium dark gray	4.75
		B)	10% sand, clear	
		C)	Trace of coal	
400-139	9600-9650	A)	90% argillite, silty in part, medium dark gray	1.77
		B)	10% sand, clear	
		C)	Trace of coal	
400-140	9650-9700	A)	90% argillite, silty in part, medium dark gray	1.59
		B)	10% sand, clear	
400-141	9700-9730	A)	85% argillite, silty in part, medium dark gray	3.05
		B)	15% sand, clear	
		C)	Trace of coal	
400-142	9760-9800	A)	70% sand, clear	2.02/2.06
		B)	30% argillite, generally medium dark gray	
400-143	9800-9850	A)	65% argillite, generally medium dark gray	3.02
		B)	35% sand, clear	
400-144	9850-9900	A)	80% sand, clear	---
		B)	20% argillite, generally medium dark gray	
		C)	Trace of coal	
400-145	9900-9950	A)	90% sand, clear	---
		B)	10% composite of shale, argillite & mudstone	
400-146	9950-9970	A)	90% sand, clear	---
		B)	10% shale, generally medium dark gray	
		C)	Trace of coal	

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-147	9970-10000	A) 80% argillite grading to mudstone, medium dark gray to olive gray B) 20% sand, clear C) Trace of coal	4.59
400-148	10000-10050	A) 95% argillite grading to mudstone, medium dark gray to olive gray B) 5% sand, clear	3.26
400-149	10050-10090	A) 80% argillite grading to mudstone, generally medium dark gray B) 20% sand, clear	4.66
400-150	10110-10150	A) 60% mudstone, calcareous, stained reddish brown B) 40% shale, medium dark gray C) Trace of coal	5.08
400-151	10150-10180	A) 85% argillite grading to mudstone, medium dark gray B) 10% mudstone, stained reddish brown C) 5% coal	2.48
400-152	10180-10200	A) 75% sand, clear B) 20% argillite, medium dark gray C) 5% coal	2.81
400-153	10200-10250	A) 70% argillite, medium dark gray B) 10% sandstone, clear C) 10% mudstone, light gray D) 10% coal	11.03
400-154	10250-10300	A) 80% argillite, medium dark gray B) 20% sandstone, clear C) Trace of coal	2.32
400-155	10300-10340	A) 70% quartzite, light gray B) 20% argillite, medium dark gray C) 10% sandstone, clear	---
400-156	10340-10370	A) 90% sand, clear B) 10% argillite, medium dark gray	---
400-157	10370-10400	A) 60% argillite, medium dark gray B) 30% quartzite, light gray to medium light gray C) 10% sand, clear D) Trace of coal	3.19

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-158	10400-10420	A) 80% sand, clear B) 10% quartzite, light gray to medium light gray C) 10% argillite, medium dark gray D) Trace of coal	---
400-159	10420-10450	A) 75% argillite, medium dark gray B) 15% quartzite, medium light gray to medium dark gray C) 10% sand, clear D) Trace of coal	1.55
400-160	10450-10500	A) 80% sand, clear B) 10% argillite, medium dark gray C) 10% quartzite, medium light gray to medium dark gray D) Trace of coal	---
400-161	10500-10550	A) 80% sand, clear B) 10% argillite, medium dark gray C) 10% quartzite, medium light gray to medium dark gray D) Trace of coal	---
400-162	10550-10600	A) 60% sand, clear B) 20% argillite, medium dark gray C) 20% quartzite, medium light gray to medium dark gray D) Trace of coal	---
400-163	10600-10620	A) 90% argillite, medium dark gray B) 5% quartzite, medium light gray to medium dark gray C) 5% coal	8.23
400-164	10630-10650	A) 60% argillite, medium dark gray B) 30% quartzite, medium light gray to medium dark gray C) 5% sand, clear D) 5% coal	2.51
400-165	10650-10680	A) 70% argillite, medium dark gray B) 20% coal C) 10% quartzite, medium light gray to medium dark gray	14.74
400-166	10680-10730	A) 60% argillite, medium dark gray B) 25% quartzite, medium light gray to medium dark gray C) 5% sand, clear D) 10% coal	4.92

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Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-167	10730-10770	A) 85% argillite, medium dark gray B) 15% quartzite, medium light gray to medium dark gray C) Trace of coal	4.31
400-168	10770-10790	A) 40% argillite, medium dark gray B) 40% sand, clear C) 20% quartzite, medium light gray to medium dark gray D) Trace of coal	2.04
400-169	10820-10840	A) 70% argillite, medium dark gray B) 20% quartzite, medium light gray to medium dark gray C) 5% sand, clear D) 5% coal	2.28
400-170	10840-10880	A) 60% sand, clear B) 20% quartzite, medium light gray to medium dark gray C) 20% argillite, medium light gray	---
400-171	10890-10940	A) 60% sand, clear B) 20% quartzite, medium light gray to medium dark gray C) 20% argillite, medium light gray	---
400-172	10940-10980	A) 80% argillite, medium dark gray B) 10% quartzite, medium light gray to medium dark gray C) 10% sand, clear	1.89
400-173	10980-11020	A) 70% sand, clear B) 20% quartzite, medium light gray to medium dark gray C) 10% argillite, medium dark gray	1.10
400-174	11020-11070	A) 75% argillite, medium gray to medium dark gray B) 15% quartzite, medium light gray to medium dark gray C) 5% sand, clear D) 5% coal	2.52
400-175	11070-11160	A) 70% argillite, medium light gray to medium dark gray B) 15% sand, clear C) 15% quartzite, medium light gray to medium dark gray	1.40

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-176	11160-11180	A) 40% argillite, medium light gray to medium dark gray B) 30% sand, clear C) 30% quartzite, medium light gray to medium dark gray D) Trace of coal	---
400-177	11180-11230	A) 60% argillite, medium light gray to medium dark gray B) 30% sand, clear C) 10% quartzite, medium light gray to medium dark gray	1.26
400-178	11230-11280	A) 50% argillite, medium light gray to medium dark gray B) 30% sand, clear C) 20% quartzite, medium light gray to medium dark gray	---
400-179	11320-11370	A) 70% gypsum B) 15% argillite, medium dark gray C) 15% sand, clear D) Trace of coal	---
400-180	11370-11420	A) 40% sand, clear B) 30% quartzite, medium light gray to medium dark gray C) 20% gypsum D) 10% argillite, medium light gray to medium dark gray E) Trace of coal	---
400-181	11420-11500	A) 70% sand, clear B) 10% quartzite, medium light gray to medium dark gray C) 10% gypsum D) 10% argillite, medium light gray to medium dark gray E) Trace of coal	---
400-182	11500-11550	A) 50% sand, clear B) 20% quartzite, medium light gray C) 10% gypsum D) 20% argillite, medium light gray to medium dark gray E) Trace of coal	---

Lithologic Descriptions & Organic Carbon (T.O.C.) Results

Sample Number	Depth (ft)	Lithological Description	T.O.C. (Wt.%)
400-183	11550-11600	A) 40% quartzite, clear to medium light gray B) 30% argillite, medium dark gray C) 20% sand, clear D) 10% gypsum	---
400-184	11600-11620	A) 40% gypsum B) 30% argillite, medium dark gray C) 20% quartzite, clear to medium light gray D) 10% sand, clear	---
400-185	11620-11670	A) 30% sand, clear B) 25% gypsum C) 25% quartzite, clear to medium light gray D) 20% argillite, medium dark gray	---
400-186	11670-11710	A) 30% argillite, medium dark gray B) 30% sand, clear C) 20% gypsum D) 20% quartzite, clear to medium light gray	---

Mobil Exploration & Producing
Barracouta A-3 Well
Australia

TABLE II

File No.: 400
October 26, 1982

Results of Organic Carbon Analysis and Rock-Eval Pyrolysis

Sample Number	Depth (ft)	T.O.C. (wt.%)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	Tmax (°C)	Production Index	S2/S3	Hydrogen Index	Oxygen Index
400-009	3820-3880	12.62	3.14	32.04	2.05	414	0.09	16.61	254	16
400-012	3980-4000	16.35	3.09	50.86	3.23	415	0.06	15.76	311	20
400-014	4050-4100	54.87	8.46	147.96	7.59	413	0.05	19.48	270	14
400-016	4150-4170	28.30	5.11	87.96	4.04	417	0.05	21.79	311	14
400-018	4200-4250	16.60	2.71	49.17	2.97	413	0.05	16.56	296	18
400-020	4590-4600	26.44	4.02	68.37	3.67	422	0.06	18.65	259	14
400-036	5250-5300	29.97	5.14	86.63	3.56	419	0.06	24.36	289	12
400-040	5460-5470	56.98	4.87	122.41	6.02	424	0.04	20.34	215	11
400-052	5900-5950	27.62	5.72	87.72	3.66	420	0.06	23.96	318	13
400-063	6400-6440	6.26	0.77	18.64	0.99	430	0.04	18.77	298	16
400-078	7040-7100	3.65	0.46	11.21	1.10	431	0.04	10.22	307	30
400-091	7500-7520	1.30	0.21	2.39	0.74	430	0.08	3.21	184	57
400-105	8100-8130	3.85	0.66	8.57	1.03	431	0.07	14.29	241	27
400-115	8500-8560	6.12	1.06	14.76	1.03	431	0.07	14.29	241	17
400-132	9250-9290	3.25	0.47	4.97	1.15	430	0.09	4.32	153	35
400-138	9550-9600	4.75	0.81	8.41	1.52	435	0.09	5.54	177	32
400-149	10050-10090	4.66	1.24	7.62	1.29	432	0.14	5.90	163	28
400-163	10600-10620	8.23	2.45	16.45	1.01	441	0.13	16.29	200	12
400-167	10730-10770	4.31	1.10	6.66	1.16	443	0.14	5.72	155	27
400-175	11070-11160	1.40	0.30	1.60	0.82	438	0.16	1.95	115	59

20 (95) 233 10/10/82 = 24

PROPERTIES OF COAL

WELL	SAMPLE DEPTH (FT)	VITRINITE (%)	EXINITE (%)	INERTITE (%)	TOC (%)	CPI	PR/PH	PR/C ₁₇	PH/C ₁₈	H.I.
MARLIN A-6 (COAL)	6000-6100	86.6	7.4	4.0	66.8	1.84	4.07	0.70	0.22	161
	6450-6530	-	-	-	64.5	2.32	6.44	1.78	0.32	153
	6900-7000	79.4	10.6	10.0	63.5	2.38	6.20	2.34	0.41	127
	7400-7500	-	-	-	58.3	2.40	7.38	1.69	0.28	146
	8050-8150	84.0	10.2	5.8	63.6	2.02	5.61	1.26	0.26	156
	8600-8700	82.2	6.2	11.6	66.9	1.76	7.42	1.62	0.27	154
	9200-9300	-	-	-	64.6	1.72	5.19	1.39	0.32	163
	9800-9900	86.6	3.6	9.4	78.3	1.50	8.81	2.94	0.35	186
	10470-10550	-	-	-	64.1	1.41	4.0	1.29	0.36	266
	10750-10850	89.2	7.4	2.8	71.4	1.51	4.67	1.30	0.32	226
BARRACOUTA 3 (COAL)	5540-5610	68.0	9.8	20.6	-	-	-	-	-	-
	8590-8780	90.4	8.2	1.0	-	-	-	-	-	-

19/19