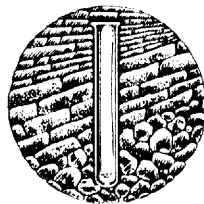


**GEOCHEMICAL REPORT
GIPPSLAND BASIN.**

**MARLIN - A6
BROWN & RUTH**

DEPT. NAT. RES. & ENV.
PI 801010



BROWN & RUTH LABORATORIES, INC.
HOUSTON, TEXAS

OIL and GAS DIVISION

GEOCHEMICAL REPORT

Results of T.O.C./Pyrolysis Determinations

Marlin A-6 Well, Australia

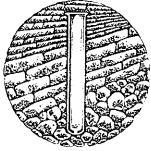
4500' - 11040'

W525

2 FEB 1983

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

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BROWN & RUTH LABORATORIES, INC.

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

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 forty-five (145) cuttings samples from the well Marlin A-6, 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
Gary W. Ruth

GWR/rh

Attachments

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

TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-001	4500-4550	A) 100% mudstone, slightly calcareous, medium gray	0.78
403-002	4550-4600	A) 100% mudstone, slightly calcareous, medium gray	0.85
403-003	4600-4650	A) 100% mudstone, slightly calcareous, medium gray	0.78
403-004	4650-4700	A) 100% mudstone, slightly calcareous, medium gray	0.69
403-005	4700-4750	A) 100% mudstone, slightly calcareous, medium gray	0.51/0.50
403-006	4750-4800	A) 100% mudstone, slightly calcareous, medium gray	0.46
403-007	4800-4850	A) 100% mudstone, slightly calcareous, medium gray	0.89
403-008	4850-4900	A) 100% mudstone, slightly calcareous, medium gray	0.71
403-009	4900-4950	A) 100% mudstone, slightly calcareous, medium gray	0.53
403-010	4950-5000	A) 100% mudstone, slightly calcareous, medium gray	0.40
403-011	5000-5050	A) 100% mudstone, slightly calcareous, medium gray	0.50
403-012	5050-5100	A) 100% mudstone, slightly calcareous, medium gray	0.76
403-013	5100-5150	A) 100% mudstone, slightly calcareous, medium gray	0.79
403-014	5150-5200	A) 100% mudstone, slightly calcareous, medium gray	0.52/0.55
403-015	5200-5250	A) 100% mudstone, slightly calcareous, medium gray	0.54
403-016	5250-5300	A) 100% mudstone, slightly calcareous, medium gray	0.47

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TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-017	5300-5350	A) 100% mudstone, slightly calcareous, medium gray	0.45
403-018	5350-5400	A) 100% mudstone, slightly calcareous, medium gray	0.44
403-019	5400-5450	A) 75% mudstone, slightly calcareous, medium gray B) 10% sand, quartzose, light gray C) 10% shale, dark gray D) 5% coal	8.76
403-020	5450-5500	A) 90% sand, medium to coarse, subangular grains, light gray B) 10% composite of shale & coal	---
403-021	5500-5500 ⁵	A) 100% sand, medium to coarse, subangular grains, light gray B) Trace of shale & coal	---
403-022	5550-5560	A) 100% sand, medium to coarse, subangular grains, light gray	---
403-023	5560-5580	A) 80% sand, quartzose, coarse to medium, subangular grains B) 20% coal, shale, dark gray	10.59
403-024	5580-5600	A) 50% sand, quartzose, coarse to medium subangular grains B) 50% coal, dark gray	25.63
403-025	5600-5640	A) 80% sand, quartzose, coarse to medium subangular grains B) 20% coal, dark gray	8.85
403-026	5640-5700	A) 70% sand, quartzose, coarse to medium subangular grains B) 20% coal C) 10% mudstone, medium gray	17.49
403-027	5700-5750	A) 90% sand, quartzose, light gray B) 10% coal	5.85
403-028	5750-5800	A) 90% coal, olive black B) 10% sand, quartzose, light gray	40.40

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TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-029	5800-5850	A) 100% coal, olive black B) Trace of sand	43.18
403-030	5850-5900	A) 100% coal, grayish black	53.40
403-031	5900-5950	A) 100% coal, black	55.68
403-032	5950-6000	A) 100% coal, black	52.57/53.59
403-033	6000-6050	A) 100% coal, black	54.65
403-034	6050-6100	A) 100% coal, black	60.09
403-035	6100-6150	A) 100% coal, black	49.39
403-036	6150-6200	A) 100% coal, black	55.38
403-037	6200-6250	A) 90% coal, black B) 10% composite of sand and mudstone	57.14
403-038	6250-6300	A) 95% coal, black B) 5% composite of sand and mudstone	44.00
403-039	6300-6350	A) 80% coal, black B) 20% sand, quartzose, light gray	38.91
403-040	6350-6400	A) 60% coal, black B) 40% sand, quartzose	21.66/22.21
403-041	6400-6450	A) 100% coal, black B) Trace of Sand	47.67
403-042	6450-6500	A) 100% coal, black B) Trace of sand	62.56
403-043	6500-6530	A) 100% coal, black B) Trace of sand	63.13/60.71
403-044	6530-6550	A) 70% mudstone, medium gray B) 30% coal, black	14.02
403-045	6550-6600	A) 60% mudstone, medium gray B) 40% mudstone, medium gray	26.50

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TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-046	6600-6650	A) 60% coal, black B) 40% mudstone, medium gray	25.80
403-047	6650-6700	A) 75% coal, black B) 25% mudstone, medium gray	30.53
403-048	6700-6750	A) 85% coal, black B) 15% mudstone, medium gray	40.95
403-049	6750-6800	A) 100% coal, black B) Trace of shale	44.92
403-050	6800-6850	A) 90% coal, black B) 10% mudstone, medium gray	36.76
403-051	6850-6900	A) 95% coal, black B) 5% composite of shale, mudstone & fossil fragments	34.45
403-052	6900-6950	A) 100% coal, shaly in part, black	45.64
403-053	6950-7000	A) 95% coal, shaly in part, black B) 5% composite of mudstone & limestone	39.11
403-054	7000-7050	A) 95% coal, shaly in part, black B) 5% sand, quartzose, light gray	46.36
403-055	7050-7100	A) 100% coal, shaly in part, black	53.53
403-056	7100-7150	A) 95% coal, black B) 5% mudstone, light olive gray	35.97/37.47
403-057	7150-7200	A) 95% coal, black B) 5% mudstone, light olive gray	36.13
403-058	7200-7250	A) 95% coal, black B) 5% siltstone, olive gray	34.08

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TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-059	7250-7300	A) 95% coal, black B) 5% siltstone, olive gray	38.16
403-060	7300-7350	A) 100% coal, shaly in part, black B) Trace of mudstone	38.61
403-061	7350-7400	A) 100% coal, slightly shaly in part, black B) Trace of mudstone	48.14
403-062	7400-7450	A) 60% coal, slightly shaly in part, black B) 40% mudstone, silty, light olive gray	17.75
403-063	7450-7500	A) 90% coal, slightly shaly in part, black B) 10% mudstone, silty, light olive gray	31.79
403-064	7500-7550	A) 70% coal grading slightly to shale, black B) 30% mudstone, silty, light olive gray	32.59
403-065	6550-7600	A) 90% coal, black B) 10% shale, grayish brown	41.09
403-066	7600-7650	A) 90% coal, black B) 10% shale, grayish brown	50.12
403-067	7650-7700	A) 95% coal, black B) 5% mudstone, silty, light olive gray	26.24
403-068	7700-7750	A) 95% coal, black B) 5% mudstone, silty, light olive gray	45.63
403-069	7750-7800	A) 95% coal, black B) 5% mudstone, silty, light olive gray	34.76
403-070	7800-7850	A) 90% coal, black B) 10% mudstone, silty, light olive gray	46.16

TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-071	7850-7900	A) 75% coal, black B) 25% mudstone, silty, light olive gray	28.47/28.48
403-072	7900-7950	A) 80% mudstone, silty, argillaceous in part, light olive gray B) 20% mudstone, silty, light olive gray	13.26
403-073	7950-8000	A) 80% mudstone, silty, argillaceous in part, light olive gray B) 20% mudstone, silty, light olive gray	6.35
403-074	8000-8010	A) 85% mudstone, silty, light olive gray B) 10% mudstone, silty, medium dark gray C) 5% coal	12.38
403-075	8010-8020	A) 100% lost circulation material	---
403-076	8020-8050	A) 50% mudstone, slightly silty, B) 50% coal, black	31.07/31.03
403-077	8050-8100	A) 65% coal, black B) 20% mudstone, silty, light olive gray C) 15% shale, dark gray	26.79
403-078	8100-8150	A) 65% coal, black B) 20% mudstone, silty, light olive gray C) 15% shale, dark gray	22.46
403-079	8150-8200	A) 65% coal, black B) 20% mudstone, silty, light olive gray C) 15% shale, dark gray	10.62
403-080	8200-8220	A) 70% mudstone, light olive gray B) 20% shale, dark gray C) 10% coal, black	17.93

TABLE I

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

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Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-081	8310-8350	A) 90% coal, black B) 10% mudstone, grayish brown	39.21
403-082	8350-8400	A) 70% coal, shaly in part, black B) 30% mudstone, grayish brown	32.48
403-083	8400-8450	A) 100% coal, black	49.34
403-084	8450-8500	100% lost circulation material	---
403-085	8500-8540	100% lost circulation material	---
403-086	8540-8560	A) 100% coal, black	52.46
403-087	8560-8580	100% lost circulation material	---
403-088	8580-8600	A) 100% coal, black	64.49
403-089	8600-8650	A) 100% coal, black	67.67
403-090	8650-8700	A) 100% coal, black	68.00
403-091	8700-8750	A) 100% coal, black B) Trace of shale	51.83
403-092	8750-8800	100% lost circulation material	---
403-093	8800-8830	100% lost circulation material	---
403-094	8830-8850	A) 100% coal, black	59.14
403-095	8850-8870	A) 100% coal, black	60.54/60.46
403-096	8870-8880	A) 100% coal, black	61.86
403-097	8880-8900	A) 100% coal, black	63.00
403-098	8900-8940	A) 100% coal, black	56.22
403-100	8940-9000	100% lost circulation material	---
403-101	9000-9020	100% lost circulation material	---
403-102	9020-9050	A) 100% coal, black	68.23

TABLE I

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

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Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-103	9050-9100	A) 100% coal, black	66.23
403-104	9100-9150	A) 100% coal, black	66.83
403-105	9150-9200	A) 100% coal, black	58.06
403-106	9200-9250	A) 100% coal, black	59.93
403-107	9250-9300	A) 100% coal, black	58.14
403-108	9350-9400	A) 90% coal, black B) 10% mudstone, light olive gray	41.82
403-109	9400-9450	A) 70% coal, black B) 30% mudstone, light olive gray	39.18
403-110	9450-9500	A) 95% coal, black B) 5% siltstone, light olive gray	34.15
403-111	9500-9550	A) 100% coal, black	62.54
403-112	9550-9600	A) 100% coal, black	40.54
403-113	9600-9650	A) 100% coal, black B) Trace of mudstone	41.90
403-114	9650-9700	A) 100% coal, black B) Trace of mudstone	64.61
403-115	9700-9750	A) 100% coal, black B) Trace of shale	40.68
403-116	9750-9800	A) 100% coal, black B) Trace of shale	62.70
403-117	9800-9850	A) 100% coal, black	41.33
403-118	9850-9900	A) 100% coal, black	47.69
403-119	9900-9950	A) 100% shale, dark gray B) Trace of mudstone	66.04
403-120	9950-10000	A) 90% coal, shaly in part, black B) 10% sand, light gray	26.18

TABLE I

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

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Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-121	10000-10050	A) 100% coal, black	47.70
403-122	10050-10100	A) 100% coal, black B) Trace of mudstone	45.47
403-123	10100-10150	A) 100% coal, shaly in part, B) Trace of mudstone	26.50
403-124	10150-10200	A) 100% coal, shaly in part, black B) Trace of mudstone & sand	43.07
403-125	10200-10250	A) 100% coal, shaly in part, black B) Trace of sand	59.39
403-126	10250-10290	A) 100% coal, shaly in part, black B) Trace of mudstone	60.95
403-127	10290-10350	100% lost circulation material	---
403-128	10350-10390	100% lost circulation material	---
403-129	10410-10420	100% lost circulation material	---
403-130	10420-10430	A) 100% coal, black	66.27
403-131	10430-10440	100% lost circulation material	---
403-132	10470-10500	A) 100% coal, slightly shaly in part, black	52.37
403-133	10500-10550	A) 100% coal, slightly shaly in part, black	51.14
403-134	10550-10600	A) 100% coal, slightly shaly in part, black	50.76
403-135	10600-10650	A) 100% coal, slightly shaly in part, black	50.38
403-136	10680-10700	A) 100% coal, slightly shaly in part, black	51.83
403-137	10710-10750	A) 100% coal, slightly shaly in part, black	51.34

TABLE I

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

Sample Number	Depth (ft.)	Lithologic Description	T.O.C. (Wt.%)
403-138	10750-10790	A) 100% coal, slightly shaly in part, black	51.93
403-139	10810-10850	A) 100% coal, slightly shaly in part, black	50.56
403-140	10850-10860	A) 95% coal, shaly in part, black B) 5% mudstone, light olive gray	25.15/25.29
403-141	10870-10900	A) 55% mudstone, light olive gray B) 40% shale, coaly in part, dark gray C) 5% sand, light gray	21.43
403-142	10900-10950	A) 75% sandstone grading to silt- stone, light gray to light olive gray B) 25% argillite, silty, medium dark gray	2.10
403-143	10950-10990	A) 80% sandstone grading to silt- stone, light gray to light olive gray B) 20% argillite, silty, medium dark gray	---
403-144	11000-11020	A) 80% sandstone grading to silt- stone, light gray to light olive gray B) 20% argillite, silty, medium dark gray	---
403-145	11020-11040	A) 60% sand, light gray B) 40% shale, medium dark gray	---

TABLE II

Results of Organic Carbon (T.O.C.) Analysis

13/16

Sample Number	Depth (ft.)	T.O.C. (wt.%)	Sample Number	Depth (ft.)	T.O.C. (wt.%)
403-001	4500-4550	0.78	403-047	6650-6700	30.53
403-002	4550-4600	0.85	403-048	6700-6750	40.95
403-003	4600-4650	0.78	403-049	6750-6800	44.92
403-004	4650-4700	0.69	403-050	6800-6850	36.76
403-005	4700-4750	0.51/0.50	403-051	6850-6900	34.45
403-006	4750-4800	0.46	403-052	6900-6950	45.64
403-007	4800-4850	0.89	403-053	6950-7000	39.11
403-008	4850-4900	0.71	403-054	7000-7050	46.36
403-009	4900-4950	0.53	403-055	7050-7100	53.53
403-010	4950-5000	0.40	403-056	7100-7150	35.97/37.47
403-011	5000-5050	0.50	403-057	7150-7200	36.13
403-012	5050-5100	0.76	403-058	7200-7250	34.08
403-013	5100-5150	0.79	403-059	7250-7300	38.16
403-014	5150-5200	0.52/0.55	403-060	7300-7350	38.61
403-015	5200-5250	0.54	403-061	7350-7400	48.14
403-016	5250-5300	0.47	403-062	7400-7450	17.75
403-017	5300-5350	0.45	403-063	7450-7500	31.79
403-018	5350-5400	0.44	403-064	7500-7550	32.59
403-019	5400-5450	8.76	403-065	6550-7600	41.09
403-020	5450-5500	---	403-066	7600-7650	50.12
403-021	5500-5500	---	403-067	7650-7700	26.24
403-022	5550-5560	---	403-068	7700-7750	45.63
403-023	5560-5580	10.59	403-069	7750-7800	34.76
403-024	5580-5600	25.63	403-070	7800-7850	46.16
403-025	5600-5640	8.85	403-071	7850-7900	28.47/28.48
403-026	5640-5700	17.49	403-072	7900-7950	13.26
403-027	5700-5750	5.85	403-073	7950-8000	6.35
403-028	5750-5800	40.40	403-074	8000-8010	12.38
403-029	5800-5850	43.18	403-075	8010-8020	---
403-030	5850-5900	53.40	403-076	8020-8050	31.07/31.03
403-031	5900-5950	55.68	403-077	8050-8100	26.79
403-032	5950-6000	52.57/53.59	403-078	8100-8150	22.46
403-033	6000-6050	54.65	403-079	8150-8200	10.62
403-034	6050-6100	60.09	403-080	8200-8220	17.93
403-035	6100-6150	49.39	403-081	8310-8350	39.21
403-036	6150-6200	55.38	403-082	8350-8400	32.48
403-037	6200-6250	57.14	403-083	8400-8450	49.34
403-038	6250-6300	44.00	403-084	8450-8500	---
403-039	6300-6350	38.91	403-085	8500-8540	---
403-040	6350-6400	21.66/22.21	403-086	8540-8560	52.46
403-041	6400-6450	47.67	403-087	8560-8580	---
403-042	6450-6500	62.56	403-088	8580-8600	64.49
403-043	6500-6530	63.13/60.71	403-089	8600-8650	67.67
403-044	6530-6550	14.02	403-090	8650-8700	68.00
403-045	6550-6600	26.50	403-091	8700-8750	51.83
403-046	6600-6650	25.80	403-092	8750-8800	---

TABLE II

Results of Organic Carbon (T.O.C.) Analysis

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Sample Number	Depth (ft.)	T.O.C. (wt.%)	Sample Number	Depth (ft.)	T.O.C. (wt.%)
403-093	8800-8830	---	403-120	9950-10000	26.18
403-094	8830-8850	59.14	403-121	10000-10050	47.70
403-095	8850-8870	60.54/60.46	403-122	10050-10100	45.47
403-096	8870-8880	61.86	403-123	10100-10150	26.50
403-097	8880-8900	63.00	403-124	10150-10200	43.07
403-098	8900-8940	56.22	403-125	10200-10250	59.39
403-100	8940-9000	---	403-126	10250-10290	60.95
403-101	9000-9020	---	403-127	10290-10350	---
403-102	9020-9050	68.23	403-128	10350-10390	---
403-103	9050-9100	66.23	403-129	10410-10420	---
403-104	9100-9150	66.83	403-130	10420-10430	66.27
403-105	9150-9200	58.06	403-131	10430-10440	---
403-106	9200-9250	59.93	403-132	10470-10500	52.37
403-107	9250-9300	58.14	403-133	10500-10550	51.14
403-108	9350-9400	41.82	403-134	10550-10600	50.76
403-109	9400-9450	39.18	403-135	10600-10650	50.38
403-110	9450-9500	34.15	403-136	10680-10700	51.83
403-111	9500-9550	62.54	403-137	10710-10750	51.34
403-112	9550-9600	40.54	403-138	10750-10790	51.93
403-113	9600-9650	41.90	403-139	10810-10850	50.56
403-114	9650-9700	64.61	403-140	10850-10860	25.15/25.29
403-115	9700-9750	40.68	403-141	10870-10900	21.42
403-116	9750-9800	62.70	403-142	10900-10950	2.10
403-117	9800-9850	41.33	403-143	10950-10990	---
403-118	9850-9900	47.69	403-144	11000-11020	---
403-119	9900-9950	66.04	403-145	11020-11040	---

TABLE III

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	$\frac{S2}{S3}$	Hydrogen Index	Oxygen Index
403-001	4500-4550	0.78	0.12	0.82	1.33	427	0.13	0.62	105	171
403-012	5050-5100	0.76	0.10	0.51	1.35	429	0.16	0.38	67	177
403-020	5450-5500	8.03	0.76	21.29	2.36	412	0.03	9.03	265	29
403-028	5750-5800	40.40	3.16	66.57	9.54	414	0.05	6.98	161	23
403-033	6000-6050	54.65	4.75	108.60	12.83	410	0.04	8.47	199	24
403-037	6200-6250	57.14	2.39	71.94	16.52	421	0.03	4.35	126	29
403-041	6400-6450	47.67	2.49	69.37	15.72	421	0.03	4.41	146	33
403-046	6600-6650	25.80	1.64	44.02	8.57	420	0.04	5.14	171	33
403-050	6800-6850	36.76	1.35	41.94	13.09	427	0.03	3.20	114	36
403-054	7000-7050	46.36	3.05	70.12	12.47	422	0.04	5.62	151	27
403-058	7200-7250	34.08	1.36	39.93	12.31	426	0.03	3.24	117	36
403-062	7400-7450	17.75	1.01	27.77	7.82	429	0.04	3.55	156	44
403-066	7600-7650	50.12	5.94	66.88	15.53	422	0.08	4.31	133	31
403-070	7800-7850	46.16	3.89	81.74	11.06	418	0.05	7.39	177	24
403-074	8000-8010	12.38	1.40	22.49	3.80	420	0.06	5.91	182	31
403-080	8200-8220	17.93	1.98	28.87	6.54	422	0.06	4.42	161	37
403-083	8400-8450	49.34	2.60	59.07	18.92	419	0.04	3.12	120	38
403-089	8600-8650	67.67	6.81	103.19	11.70	424	0.06	8.82	153	17
403-094	8830-8850	59.14	10.48	114.40	11.07	421	0.08	10.33	193	19
403-102	9020-9050	68.23	7.64	112.21	8.43	433	0.06	13.31	165	12
403-106	9200-9250	59.93	6.73	103.00	7.54	429	0.06	13.65	172	13
403-109	9400-9450	39.18	5.09	63.79	4.87	430	0.07	13.09	163	12
403-113	9600-9650	41.90	6.01	83.77	5.18	425	0.07	16.18	200	12
403-117	9800-9850	41.33	10.20	115.04	5.29	430	0.08	21.73	278	13
403-121	10000-10050	47.70	8.80	113.16	5.02	428	0.07	22.53	237	11
403-125	10200-10250	59.39	8.21	104.82	2.80	426	0.07	37.41	177	5
403-130	10420-10430	66.27	16.05	130.73	6.97	423	0.11	18.76	197	11
403-135	10600-10650	50.38	20.23	130.72	3.47	431	0.13	37.67	260	7
403-139	10810-10850	50.56	13.70	122.20	4.08	435	0.10	29.94	242	8
403-142	10900-10950	2.10	2.60	3.43	2.82	432	0.43	1.22	164	134

PROPERTIES OF COAL

WELL	SAMPLE DEPTH (FT)	VITRINITE (%)	EXINITE (%)	INERTI-NITE (%)	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	-	-	-	-	-	-

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