



LINDON NO. 1

PEP 105

WELL COMPLETION REPORT

OIL and GAS DIVISION

26 OCT 1984

TEXT & APPENDICES

BEACH PETROLEUM N.L.

(Incorporated in South Australia)

WCR

LINDON-1

(WB41)

BEACH PETROLEUM NO LIABILITY

LINDON NO. 1
P.E.P. 105

WELL COMPLETION REPORT

26 OCT 1984

OIL and GAS DIVISION

By

S.M. Guba
March 1984.

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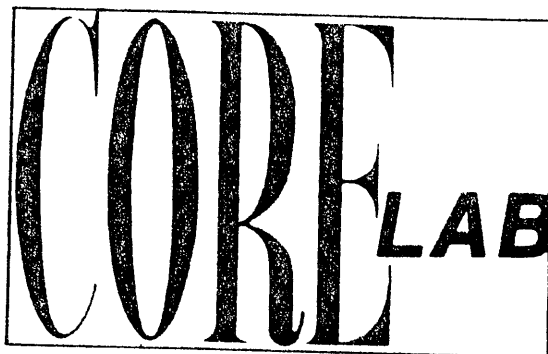
CORE NO. 1

Plug Analysis and Whole Core Analysis
Results for the Pebble Point Formation

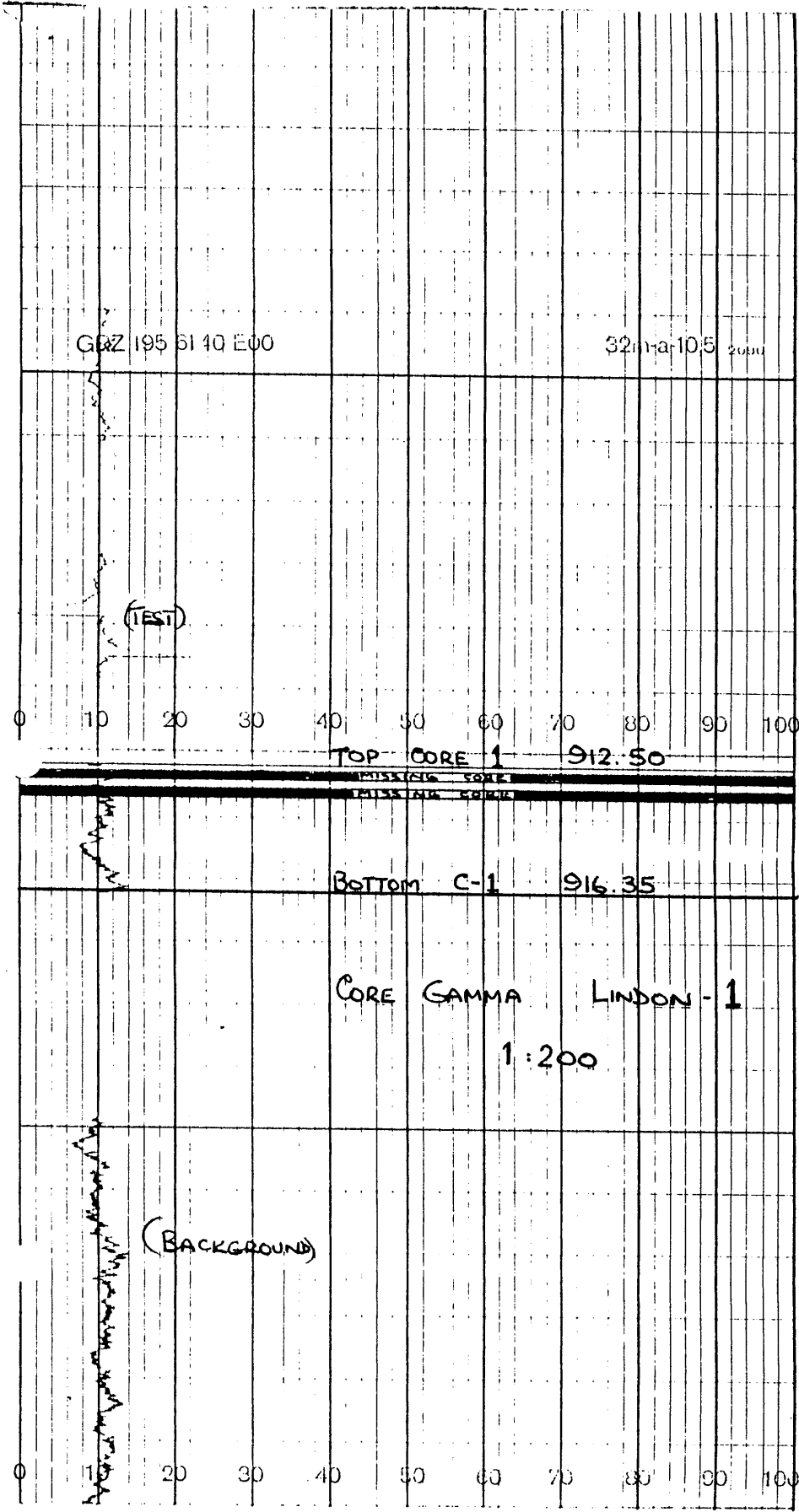
CORE ANALYSIS RESULTS

BEACH PETROLEUM

LINDON NO:1



CORE LABORATORIES AUSTRALIA (QLD.) LTD.
OFFICE—2nd FLOOR, 33 KING WILLIAM STREET, ADELAIDE 5000
LABORATORY—1/22 COMPTON STREET, ADELAIDE 5000
PHONE—OFFICE: 212 7212 LAB: 212 7612
TELEX: CORADL AA 87011



GAZ 195 51 40 E00

3217a-105 2000

(EST)

0 10 20 30 40 50 60 70 80 90 100

TOP CORE 1 912.50

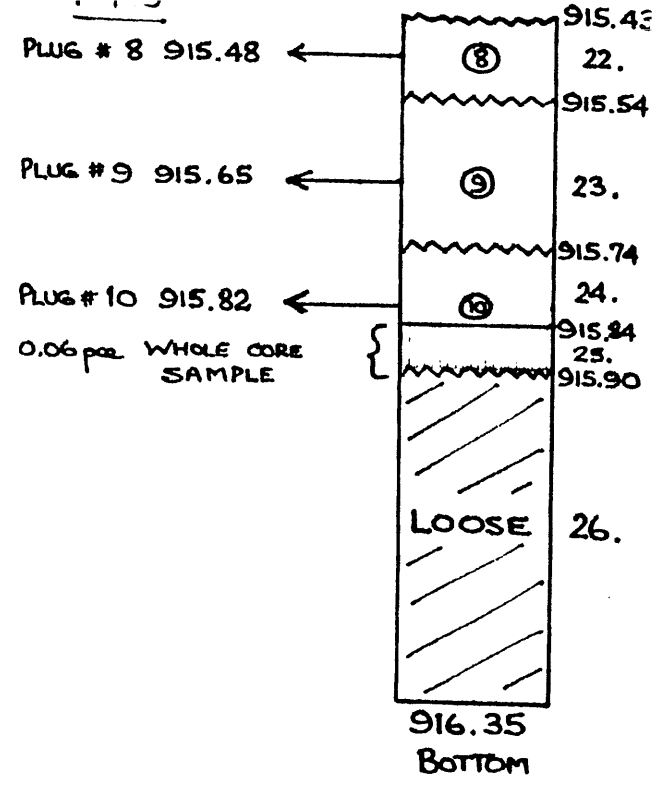
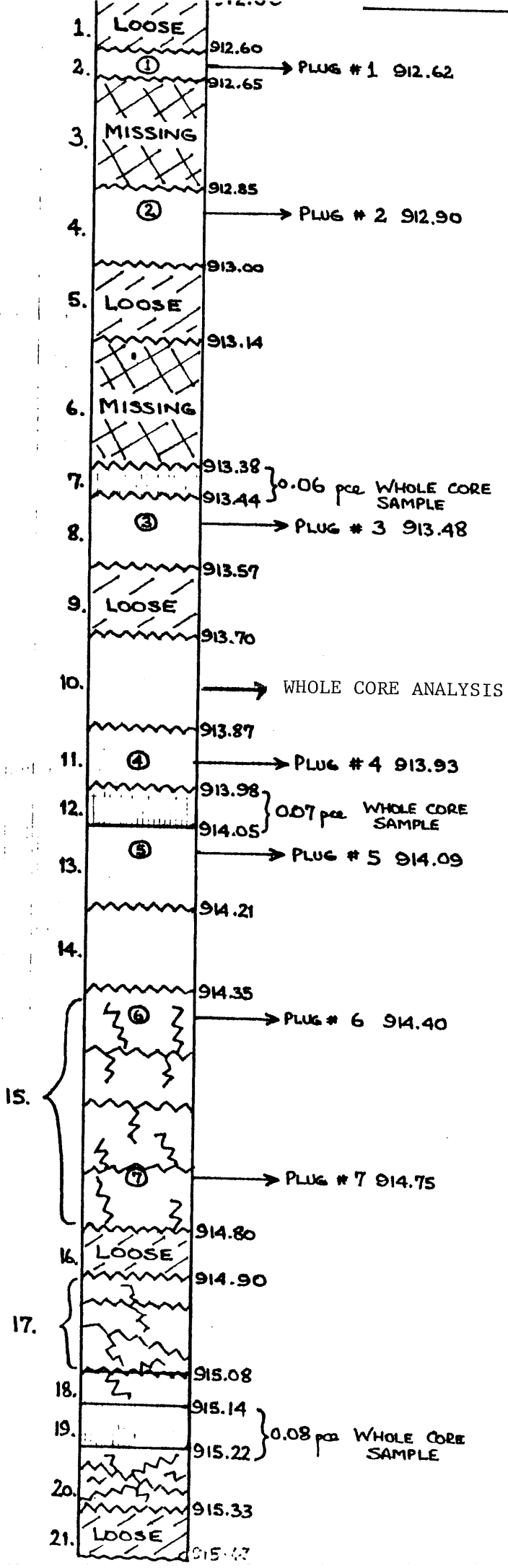
BOTTOM C-1 916.35

CORE GAMMA LINDON - 1

1:200

(BACKGROUND)

0 10 20 30 40 50 60 70 80 90 100



PLUG INFORMATION:

1)	912.62	-	CONVENTIONAL
2)	912.90	-	LEAD: 8.01 SCREENS: 2.0
3)	913.48	-	" 7.76 " 1.9
4)	913.93	-	" 7.76 " 1.9
5)	914.09	-	" 7.72 " 1.9
6)	914.40	-	" 6.50 " 2.0
7)	914.75	-	" 7.57 " 2.0
8)	915.48	-	" 4.87 " 2.0
9)	915.65	-	" 4.20 " 1.9
10)	915.82	-	" 5.45 " 2.0

WHOLE CORE SAMPLES:

1)	913.38	-	913.44
2)	913.98	-	914.05
3)	915.14	-	915.22
4)	915.84	-	915.90

CORE ANALYSIS RESULTS

Company BEACH PETROLEUM Formation _____ File ADCA 83-017
 Well LINDON NO:1 Core Type CONVENTIONAL Date Report 16.1.84
 Field LINDON Drilling Fluid _____ Analysts PL
 County _____ State VICTORIA Elev. _____ Location _____

Lithological Abbreviations

SAND - SD SHALE - SM LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CBE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
--------------------------------------	--	---	--	---	---	---	--	--

SAMPLE NUMBER	DEPTH metres	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
1	912.62 <u>CORRECTED</u> (915.12)	0.02	5.5			3.09	SST: gy/brn, f-cse grn, fri to frm, ang-subrnd, p-srtd, abun cly mtx, slightly calc, abun lim cmt, abun glauc micaceous, tr carb specks, tr dull yell/wh patchy fluor, slow str cut.
2	912.90 (915.4)	424	21.7			2.95	SST: dk brn/gy, f-cse grn, fri, subang-rnd, p-srtd, abun cly mtx, abun lim cmt, abun glauc micaceous, tr carb specks, tr dull yell/wh patchy fluor, instant cut.
3	913.48 (915.98)	78	19.5			2.85	SST: dk brn/gy, f-cse grn, fri, subang-rnd, p-srtd, abun cly mtx, tr glauc only mic tr carb specks, dull yell/org uniform fluor, instant cut.
4	913.93 (916.43)	72	19.2			2.86	SST: dk brn/gy, f-cse grn, fri, ang-rnd, p-srtd, abun cly mtx, tr calc, mic i/p tr carb specks, dull yell/org uniform fluor, instant cut.
5	914.09 (916.59)	790	27.7			2.72	SST: dk brn/gy, f-cse grn, fri, ang-rnd, p-srtd, abun cly mtx, tr clac, mic i/p tr carb specks, dull yell/org uniform fluor, instant cut.
6	914.40 (916.90)	254	22.4 19.6 (using overburden pressure @1200psi)			2.80	SST: dk brn/gy, f-occ cse predom med grn, fri, ang-rnd, med-pr srtd, abun cly mtx, mic i/p, tr carb specks, dull yell/org patchy fluor, fast str to instant cut.

These analyses, opinions or interpretations are based on observations and materials 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, Inc. (all errors and omissions excepted), but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas or other material well or sand in connection with which such report is used or relied upon.

CORE ANALYSIS RESULTS

Company BEACH PETROLEUM Formation _____ File ADCA 83-017
 Well LINDON NO:1 Core Type CONVENTIONAL Date Report 16.1.84
 Field LINDON Drilling Fluid _____ Analysts PL
 County _____ State VICTORIA Elev. _____ Location _____

Lithological Abbreviations

SAND - SD DOLOMITE - DOL ANHYDRITE - ANHY SANDY - SDY FINE - FN CRYSTALLINE - XLN BROWN - BRN FRACTURED - FRAC SLIGHTLY - SL/
 SHALE - SH CHERT - CH CONGLOMERATE - CONG SHALY - SHY MEDIUM - MED GRAIN - GRN GRAY - GY LAMINATION - LAM VERY - V/
 LIME - LM GYPSUM - GYP FOSSILIFEROUS - FOSS LIMY - LMV COARSE - CSE GRANULAR - GRNL VUGGY - VGY STYLOLITIC - STY WITH - W/

SAMPLE NUMBER	DEPTH meters	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
7	914.75 ^{CORRECTED} (917.25)	1135	26.5			2.68	SST: dk brn/gy, f-occ cse predom med grn, fri, ang-rnd, med-pr srtd, abun cly mtx, mic i/p, tr carb specks, dull yell/org uniform fluor, instant cut.
8	915.48(917.98)	904	28.2			2.68	SST: dk brn/gy, f-cse grn, fri, ang-rnd, mod-pr srtd, abun cly mtx, mic i/p, tr carb specks dull yell uniform fluor, instant cut.
9	915.65(918.15)	231	24.3 22.5 (using overburden pressure @1200psi)			2.73	SST: dk brn/gy, f-cse grn, fri, ang-rnd, mod-pr srtd, abun cly mtx, mic i/p, tr carb specks dull yell patchy fluor, instant cut.
10	915.82(918.32)	639	13.2			2.99	SST: dk brn/gy, f-cse grn, fri, ang-rnd, mod-pr srtd, abun cly mtx, mic i/p, tr carb specks dull yell patchy fluor, instant cut.
11 *	913.38(915.88-913.44 915.94)		12.1	1.7	76.5		SST: gy/brn, f-cse grn, fri, ang-subrnd, p-srtd, abun cly mtx, tr calc, mic i/p, tr carb specks, dull yell/org patchy fluor, instant cut.
12*	913.48(916.48-914.05 916.55)		12.5	4.2	71.7		SST: gy/dk brn, f-cse grn, fri, ang-rnd, p-srtd, abun cly mtx, tr calc, mic i/p, tr carb specks, dull yell/org uniform fluor, instant cut.

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CORE ANALYSIS RESULTS

Company BEACH PETROLEUM Formation _____ File ADCA 83-017
 Well LINDON NO:1 Core Type CONVENTIONAL Date Report 16.1.84
 Field LINDON Drilling Fluid _____ Analysts PL
 County _____ State VICTORIA Elev. _____ Location _____

Lithological Abbreviations

SAND - SD DOLOMITE - DOL ANHYDRITE - ANHY FINE - FN CRYSTALLINE - XLN BROWN - BRN FRACTURED - FRAC SLIGHTLY - SL/
 SHALE - SH CHERT - CH CONGLOMERATE - CONG MEDIUM - MED GRAIN - GRN GRAY - GY LAMINATION - LAM VERY - V/
 LIME - LM GYPSUM - GYP FOSSILIFEROUS - FOSS SANDY - SDY SHALY - SHY COARSE - CSE GRANULAR - GRNL VUGGY - VGY STYLOLITIC - STY W/TH - W/

SAMPLE NUMBER	DEPTH metres	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
13*	915.14-	<u>CORRECTED</u> 917.64-	18.9	10.1	70.9		SST: gy/dk brn, f-cse grn, fri, ang-rnd, p-srtd, abun cly mtx, tr calc, mic i/p, tr carb specks, dull yell uniform fluor, instant cut.
	915.22	917.72					
14*	915.84-	918.35 -	9.7	1.0	85.6		SST: gy/dk brn, f-cse grn, fri, ang-rnd, p-srtd, abun cly mtx, tr calc, mic i/p, tr carb specks dull yell uniform fluor, instant cut.
	915.90	918.40					

* Preserved Core Pieces

Samples 2-10 are mounted in lead sleeves

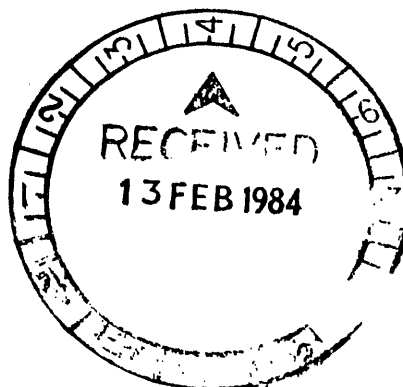
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CORE LABORATORIES AUSTRALIA (QLD) LTD



PL/JRH
6 February, 1984

Beach Petroleum
685 Bourke Road
Camberwell
VICTORIA 3124



Attention: Mr. D.G. Langdon

Dear Sir,

SUBJECT : CORE ANALYSIS
WELL : LINDON NO. 1
FILE : ADCA 83-017

Following a request by Mr. S. Guba, Core Laboratories (Qld) Ltd. performed measurements at overburden pressures of two plug samples from the subject well. The results are as follows:-

SAMPLE ID.	DEPTH METRES	POROSITY - PERCENT	
		0 PSI	1200 PSI
6	914.40	21.4	19.6
9	915.65	24.3	22.5

If you have any questions regarding this data please do not hesitate to contact us.

Yours faithfully,

PETER LANE
LAB. SUPERVISOR

CORE ANALYSIS RESULTS

Company BEACH PETROLEUM N. L. Formation _____ File WA-CA-291
 Well LINDON NO.1. Core Type FULL DIAMETER Date Report 21st MAY, 1984
 Field _____ Drilling Fluid _____ Analysts AF, GK
 County AUSTRALIA State VICTORIA Elev. _____ Location OTWAY BASIN

SAMPLE NUMBER	DEPTH METRES	PERMEABILITY MD			POROSITY % HE INJ	GRAIN DENSITY
		HORIZ MAX KA	HORIZ 90° KA	VERT KA		
<u>CORE NO.1.</u>						
1.	916.2-916.37	83	68	12	23.0	2.78

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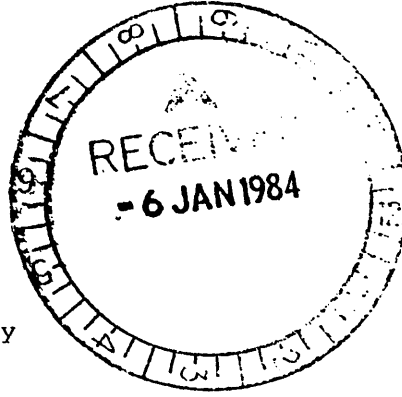
APPENDIX 13

SOURCE ROCK STUDY



TELEPHONE : 042-299843
INTERNATIONAL : 61-42-299843

D.G. Langton
EXPLORATION MANAGER
Beach Petroleum No Liability
P.O. Box 360
CAMBERWELL VICTORIA 3124



KEIRAVILLE KONSULTANTS
PTY. LTD.

7 DALLAS STREET,
KEIRAVILLE, N.S.W.
AUSTRALIA, 2500

DL	SL
AS	W
SC	EG

Dear Doug

Please find enclosed results for the samples from Lindon No. 1 which we received on Saturday December 31. The fifth sample was a duplicate of 19279, but dried at the rig. 19279 was received as unwashed cuttings and dried here. We were able to wash and dry the unwashed sample sufficiently rapidly to be able to mount it at the same time as the other samples. This sample was determined first and the sample made from the dried cuttings was used only the check for major differences - there were none. The well appears to be within the liquids window, but the exinite content is relatively low. The main zone of catagenic methane generation has not yet been reached. The sample from the Dilwyn contains some relatively high rank reworked coal, suggesting a source provenance including some older more highly coalified sequences.

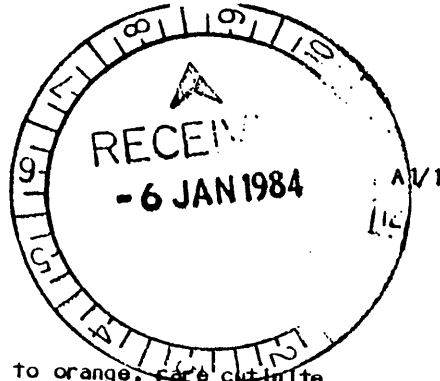
An account is also enclosed. I trust that this meets with your approval. If it raises any problems please contact me.

Yours sincerely

A.C. Cook
Encl

K.K. No.	Depth (m)	\bar{R}_v max	Range	LINDON No 1	
				N	Exinite Fluorescence (Remarks)
19277	2060 Ctgs	0.61	0.52-0.72	12	Sparse sporinite, yellow to dull orange, rare lipto- detrinite, orange to dull orange, rare phytoplankton, orange, rare resinite, yellow, rare cutinite, orange, vitrinite abundant in coal, weak brown. (Siltstone>sand- stone>claystone>coal. Coal rare, clarodurite. D.o.m. sparse, I>V>E. Inertite, rare to sparse, vitrinite and exinite, rare, Some of the vitrinite may be reworked but reworking does not appear to have resulted in a higher reflectance, Rare pyrite.)
	T.O.C.	0.60			
19714	2290 Ctgs	0.69	0.57-0.83	25	Common sporinite, dull yellow to dull orange, sparse to common cutinite, orange to brown, sparse suberinite, brown, sparse phytoplankton, yellow to orange, rare resinite, bright yellow, rare fluorinite, bright green. (Claystone>coal>siltstone. Coal abundant, V>E>I, duroclarite> vitrinite>clarite>fusite. D.o.m. common, E>I>V. Exinite common, inertinite sparse, vitrinite rare. Sparse pyrite.)
	T.O.C.	1.81			
19715	2460 Ctgs	0.68	0.55-0.79	18	Common sporinite and rare cutinite, orange to dull orange, common phytoplankton, yellow to orange, Sparse suberinite, brown. (Siltstone>claystone>sandstone. D.o.m. abundant, E>I>V. Exinite abundant, inertinite common, vitrinite sparse. Abundant carbonate and iron oxides. Sparse pyrite.)
	T.O.C.	1.14			
19716	2690 Ctgs	0.76	0.54-0.92	25	Common sporinite, orange to dull orange, sparse cutinite, dull orange to brown. (Claystone>siltstone>coal>shaly coal. Shaly coal rare, V>I>E. Coal abundant, V>E>I, vitrinite>duroclarite>fusite>clarite. D.o.m. abundant, E>I>V, all maceral groups common. Common carbonate. Sparse carbonate.)
	T.O.C.	3.59			
19717	2800 Ctgs	0.82	0.70-0.96	25	Sparse sporinite, orange to dull orange, rare cutinite, dull orange. (Claystone>siltstone>coal. Coal sparse, V>I>E, vitrinite>fusite>clarodurite. D.o.m. common, I>V>E. Inertinite and vitrinite common, exinite sparse. Abundant carbonate. Sparse pyrite.)
	T.O.C.	2.12			
19279	2900 Ctgs	0.87	0.78-0.93	25	Sporinite rare in coal, weak brown, abundant vitrinite, weak brown. (Sandstone>siltstone>shaly coal>claystone> coal. Coal rare, vitrinite>inertinite, V>I>E. D.o.m. abundant, V>I. Vitrinite and inertinite abundant, exinite absent as d.o.m. Rare pyrite.)
	T.O.C.	6.05			
<u>CRAYFISH FORMATION</u>					
19718	2952 SWC3	0.81	0.75-0.88	7	Rare sporinite and cutinite, orange, rare phytoplankton, yellow. Claystone>>coal. Coal rare, vitrinite. D.o.m. sparse, I>V>E. Inertinite sparse, vitrinite and exinite rare. Sparse pyrite.)
	T.O.C.	1.80			
19719	3010 Ctgs	0.86	0.70-0.95	25	Sparse sporinite, dull orange to brown, sparse suberinite, brown, rare cutinite, orange to dull orange. (Siltstone> claystone>coal. Coal abundant, V>>E>I, vitrinite>duroclarite> clarite. D.o.m. sparse, I>V>E. Inertinite sparse, vitrinite and exinite rare. Abundant carbonate. Sparse pyrite.)
	T.O.C.	1.84			

K.K. No.	Depth (m)	\bar{R}_V max	Range	LINDON No 1	
				N	Exinite Fluorescence (Remarks)
<u>DILWYN FORMATION</u>					
19275	630 Ctgs	0.38	0.32-0.47	27	Rare sporinite, yellow to orange, rare cutinite yellow, rare phytoplankton, greenish yellow, rare suberinite, dull orange. (Sandstone>>siltstone>shaly coal>coal. Coal rare, vitrite. D.o.m. common, but mostly confined to shaly coal and claystone matrix in sandstone, V>I>E. Vitrite common, inertite and exinite rare, common pyrite.)
		T.O.C. 1.01			
<u>PEMBER FORMATION</u>					
19707	860 SWC30	0.37	0.25-0.45	25	Sparse sporinite, yellow to dull orange, rare cutinite, yellow orange to orange, rare resinite, bright yellow. (Siltstone. D.o.m. common, V>I>E. Vitrinite common, inertinite and exinite sparse. Sparse carbonate. Abundant pyrite.)
		T.O.C. 1.82			
19708	906.5 SWC28	-	-	-	No fluorescing exinite. (Sandstone. D.o.m. absent. Abundant carbonate. Common pyrite.)
		T.O.C. 0.59			
<u>BELFAST MUDSTONE MEMBER</u>					
19709	1210 Ctgs	0.39	0.32-0.47	20	Sparse phytoplankton, green yellow to orange, rare sporinite, dull orange, rare cutinite and ?tasmanitid, orange. (Claystone>siltstone>sandstone. D.o.m. abundant, I>V>E. Inertinite abundant, cutinite common, exinite sparse. Abundant carbonate. Sparse ?glaucinite. Abundant pyrite.)
		T.O.C. 1.76			
19710	1230 Ctgs	0.38	0.31-0.44	6	Rare sporinite, orange, rare cutinite, yellow, rare ?phytoplankton, green yellow to yellow orange, rare fluorinite, green. (Sandstone>>claystone>coal. Coal rare, V>I>E, vitrite>duroclarite. D.o.m. sparse, I>E>V. Inertinite sparse, exinite and vitrinite rare. Sparse carbonate and pyrite.)
		T.O.C. 0.43			
<u>EUMERALLA FORMATION</u>					
19711	1250 Ctgs	0.45	0.40-0.53	6	Common phytoplankton, green yellow to orange. (Sandstone>siltstone>claystone. D.o.m. common, E>I>V. Exinite common, inertinite sparse, vitrinite rare. Limestone present. Sparse carbonate. Abundant pyrite.)
		T.O.C. 0.56			
19276	1340 Ctgs	0.43	0.38-0.57	19	Rare to sparse sporinite, yellow to orange, rare lipto-detrinite, yellow to orange, rare phytoplankton, yellow. (Siltstone>sandstone>claystone>coal>shaly coal. Coal sparse, vitrite. D.o.m. sparse, I>V>E. Inertinite and vitrinite sparse, exinite rare to sparse. Some of the vitrinite may be reworked. Rare pyrite.)
		T.O.C. 1.44			
19712	1560 Ctgs	0.43	0.35-0.56	10	Common phytoplankton, green yellow to yellow orange, sparse sporinite, yellow to orange, rare cutinite, orange to dull orange, rare resinite, green. (Claystone>siltstone>coal. Coal rare, vitrite. D.o.m. common, E>I>V. Exinite common, inertinite and vitrinite sparse. Common carbonate. Rare ?glaucinite. Abundant pyrite.)
		T.O.C. 0.58			
19713	1760 Ctgs	0.42	-	1	Sparse to common phytoplankton, yellow to dull orange, rare sporinite, yellow to orange, rare cutinite, orange to dull orange brown. (Siltstone>claystone>sandstone. D.o.m. common, E>I>V. Exinite common, inertinite sparse, vitrinite rare. Sparse carbonate and pyrite.)
		T.O.C. 0.38			



K.K. No.	Depth (m)	\bar{R}_V max	Range	N	LINDON No 1 Exinite Fluorescence (Remarks)
DILWYN FORMATION					
19275	630 Ctgs	0.38	0.32-0.47	27	Rare sporinite, yellow to orange, rare cutinite yellow, rare phytoplankton, greenish yellow, rare suberinite, dull orange. (Sandstone>>slitstone>shaly coal>coal. Coal rare, vitrinite. D.o.m. common, but mostly confirmed to shaly coal and intensified claystone matrix in sandstone, V>I>E. Vitrinite common, inertite and exinite rare, common pyrite.)
	T.O.C. 1.01				
EUMERALLA FORMATION					
19276	1340 Ctgs	0.43	0.38-0.57	19	Rare to sparse sporinite, yellow to orange, rare liptodetrinite, yellow to orange, rare phytoplankton, yellow. (Slitstone>sandstone>claystone>coal>shaly coal. Coal sparse, vitrinite. D.o.m sparse, I>V>E. Inertinite and vitrinite sparse, exinite rare to sparse. Some of the vitrinite may be reworked. Rare pyrite.)
	T.O.C. 1.44				
19277	2060 Ctgs	0.61	0.52-0.72	12	Sparse sporinite, yellow to dull orange, rare liptodetrinite, orange to dull orange, rare phytoplankton, orange, rare resinite, yellow, rare cutinite, orange, vitrinite abundant in coal, weak brown. (Slitstone>sandstone>claystone>coal. Coal rare, clarodurite, I>V>E. Inertite, rare to sparse, vitrinite and exinite, rare, Some of the vitrinite may be reworked but reworking does not appear to have resulted in a higher reflectance, Rare pyrite.)
	T.O.C. 0.60				
19279	2900 Ctgs	0.87	0.78-0.93	25	Sporinite rare in coal, weak brown, abundant vitrinite, weak brown. (Sandstone>slitstone>shaly coal>claystone>coal. Coal rare vitrinite>inertite V>I>E. D.o.m. abundant, V>I. Vitrinite and inertite abundant, exinite absent as D.o.m. Rare pyrite.)
	T.O.C. 6.05				

Total Organic Carbon Results for Lindon No. 1

Sample No.	TOC
19275	1.01
19276	1.44
19277	0.60
19279	6.05

Total Organic Carbon Results for Lindon No. 1

Sample No.	TOC
19707	1.82
19708	0.59
19709	1.76
19710	0.43
19711	0.56
19712	0.58
19713	0.38
19714	1.81
19715	1.14
19716	3.59
19717	2.12
19718	1.80
19719	1.84

LINDON 1
Coaly Lithologies

Depth (metres)	S ₁ (kg/tonne)	S ₂ (kg/tonne)	TOC (%)	HI
1950	1.5	31.0	19.3	161
2330	3.1	182.0	51.0	357
2350	3.1	157.0	46.8	335
2650	1.5	32.0	9.5	337
2730	2.5	86.0	27.3	315
2740	2.7	122.0	42.7	286
2830	3.0	77.0	27.4	281
2880	2.5	41.0	13.9	295

CONNARD

LINDON-1

DEPTH (metres)	SAMPLE TYPE	VITRINITE REFLECTANCE		NO. READINGS
		MEAN	RANGE	
873	CC	0.43		15
1300	CTGS	0.48		41
1815	CTGS	0.54		32
2000		0.61		
2205	CTGS	0.66		32
2285		0.69		
2460		0.68		
2685		0.76		
2790		0.82		
2840	CTGS	0.85	0.60-1.10	51
2940	CTGS	0.88	0.60-1.10	48
2945		0.81		
2970		0.87		
2995		0.86		

CONNARO