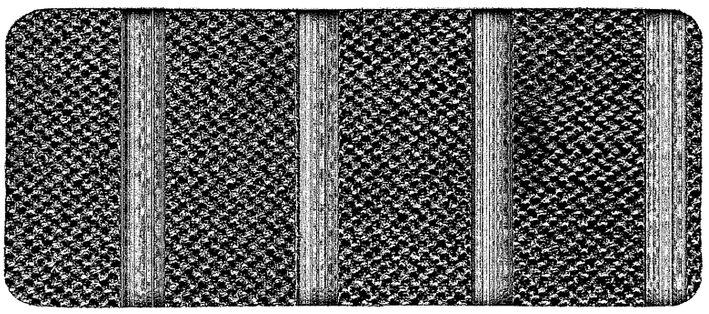

WCR (VOL. 2)
BREAM-5
(W781)

ESSO EXPLORATION AND PRODUCTION
AUSTRALIA INC.

WELL COMPLETION REPORT

BREAM 5

VOLUME II

GIPPSLAND BASIN
VICTORIA

ESSO AUSTRALIA LIMITED

Compiled by : G. Lindsay

May , 1983

BREAM-5

WELL COMPLETION REPORT

VOLUME II

(Interpretative Data)

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GEOLOGICAL AND GEOPHYSICAL ANALYSIS

AGE	FORMATION/HORIZON	DEPTH PREDICTED (m KB)	DEPTH DRILLED (m KB)	DEPTH DRILLED (m Subsea)
Recent to Miocene	Gippsland Limestone	79-1011	80.6-1180	59.6-1159
Miocene	Lakes Entrance Formation	1011-1858	1180-1864	1159-1843
Eocene to Upper Cretaceous	Latrobe Group	1858-T.D.	1864-T.D.	1843-T.D.
Eocene	Gurnard Formation	1858-1913	1864-1924	1843-1903
	TOTAL DEPTH Initial	3000	3322	3301
	TOTAL DEPTH Revised	3300		

INTRODUCTION

The primary purpose of Bream-5 was to determine the eastern extent of the Bream Field and establish the reservoir quality of the strata. The secondary purpose was to test a large intra-Latrobe Group closure beneath the eastern half of the Bream Field.

PREVIOUS DRILLING HISTORY

The Bream oil and gas field has been penetrated by three exploration wells prior to Bream-5. These were Bream-2, Bream-3 and Bream-4A. Bream-1 and Bream-4 were abandoned before reaching the reservoir section. Bream-2 was drilled in April, 1969 to a T.D. of 3248m KB, Bream-3 in January 1970 to a T.D. of 3357m KB and Bream-4A in September 1981 to a T.D. of 2421m KB.

STRUCTURE

The underlying structural style of the Bream Field is of a WSW/ENE trending anticline superimposed on a deep graben complex. At the top of the Latrobe Group (Enclosure 1) the anticline has been modified by a series of shallow igneous intrusions (Enclosure 3), increasing the height of closure and producing closure over areas of no closure at depth.

Within the L. balmei zone the structure is intensely faulted and the faults show increasing displacement with depth. The faults generally strike northwest-southeast. A large deep closure occurs beneath the eastern half of the Top of Latrobe Group structure, and exists as a relatively simple faulted anticline at the M. diversus seismic marker but becomes much more complexly faulted at the level of the lower L. balmei seismic marker (Enclosure 2).

STRATIGRAPHY

The stratigraphic sequence encountered in Bream-5 was generally as predicted and with the same gross character as the other Bream wells (Enclosure 3).

Directly overlaying the top of Latrobe Group reservoirs are the mostly non-net glauconitic mudstones and siltstones of the Gurnard Formation. The Gurnard Formation is in turn overlain and sealed by the Lakes Entrance Formation.

The sandstones of the Latrobe Group "Coarse Clastics" deltaic/marginal marine sequence to a depth of -1926m provide the main reservoir. Beneath these sands to about -2140m the lower P. asperopolus and M. diversus zones consist of a lower net to gross sequence of coal seams, shale and thin sands. The upper 19m of this interval contained more shale than was predicted so that clear definition of the oil-water contact is not possible.

The underlying Upper L. balmei zone is composed of massive, thick channel sands with only relatively minor coals and shales to a depth of -2450m.

The Lower L. balmei zone consists of a sequence of backswamp and overbank shales and coals with only thin channel sands of fairly limited extent. It was within this interval that the majority of the intra-Latrobe Group hydrocarbon indications occurred. The top of this sequence represents a significant facies change into the Upper L. balmei zone.

HYDROCARBONS

Top of Latrobe Group

It was not possible to precisely position both the oil-water contact and the gas-oil contact due to the presence of non-net sediments in the reservoir.

The gas-oil contact falls within a two metre thick shale between -1917m and -1919m. A gas sample was recovered from a one metre thick sandstone at -1916 metres and an oil sample from the top of a thick sandstone unit at -1919 metres. Pressure data (Appendix 4) suggests a contact at about -1918 metres.

The results of the Bream-5 well failed to conclusively establish the oil-water contact due to the presence of a thicker than expected, essentially non-net interval between about -1926 metres and -1945 metres. These lithologies obscured the oil-water contact. Oil was recovered from a thin (about 0.25 metres thick) sandstone unit at about -1930.3 metres and water from a similar sandstone at about -1940.9 metres. A plot of the RFT pressure data from Bream-5 (Appendix 4) suggests that the oil-water contact may be as deep as about -1940 metres. This is 11 metres deeper than the Bream Field contact at -1929 metres.

It is believed that this apparent anomaly in the oil-water contact can be attributed to the differential drawdown between the Latrobe Group aquifer and the top of Latrobe Group reservoir at Bream-5 due to production from the major fields. The Bream Field water pressure gradient is mainly affected by the production from the Kingfish field 25 kilometres to the east. Hence, the water gradient in Bream-5 is more drawn down than that in Bream-4A some 10.4 km to the west. The thick non-net interval seen between -1926 metres and -1945 metres in Bream-5 appears to subcrop against the top of the Latrobe Group between Bream and Kingfish. This may have partially isolated the hydrocarbon column at Bream from the effects of the pressure drawdown. That is, the fluid system above -1926 metres is separate from the fluid system below -1945 metres at the Bream-5 location. The differential drawdown of the two fluid systems has given rise to the oil/water contact observed from the pressure data, being too deep.

With the current level of knowledge of the Bream field, the field is assumed to have a common oil-water and gas-oil contact of -1929 metres and -1916 metres respectively.

Intra-Latrobe Group

Bream-5 penetrated numerous hydrocarbons bearing sands between -2450 metres and -2960 metres. Within this interval some 21 RFT samples were attempted, resulting in two successful oil tests, nine successful gas tests and 10 inconclusive tests. Based on RFT recoveries and log analysis, the intervals intersected have been interpreted to represent nine separate hydrocarbon columns, six gas, one oil and gas and two oil. It is difficult to determine how many of these zones would be productive, if any. 'Net" oil sands total about 14 metres and 'net' gas sands about 27 metres. 'Net' is used here to mean hydrocarbon bearing sands having a porosity greater than 10%. Hydrocarbon fluorescence and cut were observed in drill cuttings of low porosity sandstones throughout the hole to T.D.

GEOPHYSICAL ANALYSIS

The east Bream predrill structural configuration was confirmed by the results of the Bream-5A well.

The primary target horizon, the 'Top of Latrobe Group Coarse Clastics' came in 11 metres low to prediction representing an error or 0.58%.

The deep hydrocarbon accumulations were intersected within the zone anticipated, adding confidence to the deep Bream structural interpretation (enclosure 2).

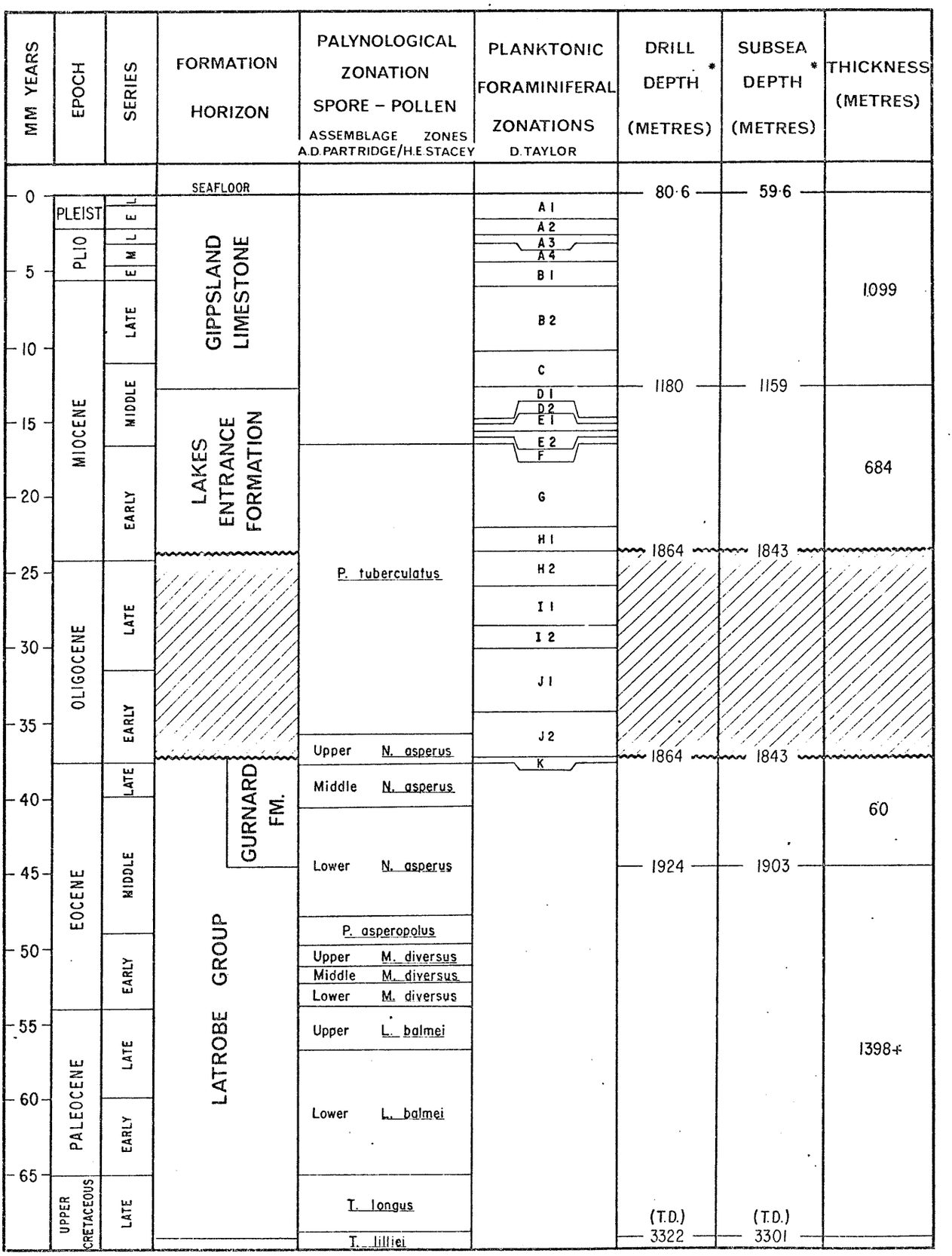
The error in mapping of the "Top of Latrobe Group Coarse Clastics" horizon has been attributed to inaccuracies occuring in the predrill velocity field.

Reinterpretation of the velocity field resulted only in a deepening of the "Top of Latrobe Group Coarse Clastics" horizon in the east Bream region.

FIGURES

FIGURE 1

BREAM – 5
STRATIGRAPHIC TABLE



* Depths are True Vertical Depths

Base Dwg. 1107/OP/149

2104/OP/7-4/83

APPENDIX 1

APPENDIX 1

MICROPALAEONTOLOGICAL ANALYSIS

APPENDIX
FORAMINIFERAL ANALYSIS, BREAM-5
GIPPSLAND BASIN

by

John Rexilius.

ESSO Australia Ltd. December 10, 1982.

Palaeontology Report 1982/47.

0283L.

INTERPRETATIVE DATA

INTRODUCTION

Thirty four (34) sidewall core samples were processed for foraminiferal analysis in Bream-5 from 1125 to 1921 metres. Both planktonic and benthonic foraminiferal faunas have been scrutinized, with emphasis on the planktonics. Adequate planktonic foraminiferal faunas occur in most samples with the exception of samples of Gurnard Formation between 1885 and 1921m which are either barren or contain rare, very poorly preserved planktonics.

Tables 1 and 2 provide a summary (Basic and Interpretative) of the palaeontological analysis in Bream-5. A summary of the biostratigraphic breakdown of the stratigraphic units in Bream-5 is given below.

SUMMARY

AGE	UNIT	ZONE	DEPTH (m)
Recent-Late Pliocene	Gippsland Formation	(not sampled)	(seafloor to 1125m)
Late Pliocene-Mid Miocene		A-4 to C	1125m
——————lithological change at 1180m——————			
Mid Miocene		D-1 to D-2	1350-1425
latest Early Miocene	Lakes	E-2	1500
Early Miocene	Entrance	F	1575-1650
Early Miocene	Formation	G	1725-1825
Early Miocene		H-1	1830-1860
——————log break at 1864m——————			
Late Eocene	Gurnard	K	1865-1869
Mid/Late Eocene	Formation	K to N	1873-1881
-		Indeterminate	1885-1921
——————log break at 1924m——————			
Eocene-Late Cretaceous	Latrobe Group (coarse clastics)	(not sampled)	(1924-TD)

GEOLOG NTS

The up mple of Gurnard Formation (SWC29-1865m) in Bream-5
is Lat (Zone K) in age. On the basis of sonic log
charac op of the Gurnard Formation is placed at 1864m.

The lo mple of Lakes Entrance Formation (SWC30-1860m) is
Early M Zone H-1) in age. Sonic log correlation in the basal
part of es Entrance Formation over the Bream field shows that
Zones J -2 are probably absent at Bream-5 and that Zone I-1
is prob sent between 1860 and 1864m. The Lakes Entrance
Formati rs to unconformably overlay the Gurnard Formation at
Bream-5 iatus between the two units spans the Early Oligocene
and the art of the Late Oligocene. The Oligocene is
condens e flanks of the Bream field (in Bream-4A it is less
than 20 in Bream-5 it is less than 4m thick) and relatively
thick o re now the structural highs at Bream-3 (102m thick)
and Bre m thick).

DISCUSS ONES

The Ter ostratigraphy in Bream-5 is based on the Gippsland
Basin p c foraminiferal zonal scheme of Taylor (in prep.)
Studies ins (1960,1971); Blow (1969,1979); Postuma (1971);
Stainfo l. (1975) and Hornibrook (1982) have also been
consult

INDETE NTERVAL: 1885-1921m.
The Gur mation (in samples between 1885 and 1921m) is barren
of plan oraminifera with the exception of SWC18 at 1909m
which c rare, very poorly preserved planktonics.
Aggluti nthonic foraminifera are present in most samples but
there i sporadic occurrence of calcareous benthonics. The
foramin ssemblages within the interval 1885-1921m are not age
diagnos lynological evidence (Macphail 1982) indicates that
the int Middle/Late Eocene in age and assignable to the
Middle us Zone.

ZONES 1873-1881m.
The o of Globigerinatheka index at 1881m indicates
assign ones K to N while the presence of Globigerina
linape ghout the interval 1873-1881m indicates assignment to
Zone K . The absence of Globigerina brevis (which defines

the base of Zone K in Taylor's Gippsland Basin zonation) in the interval does not dismiss assignment to Zone K because the yield of planktonic foraminifera is very low. The meagre planktonic foraminiferal assemblages within the interval 1873-1881m are Zones K to N (Mid/Late Eocene) in age.

ZONE K : 1865-1869m.
The appearance uphole of Globigerina brevis at 1869m defines the base of definite Zone K in Bream-5. The extinction of Globigerina linaperta at 1865m defines the top of Zone K. The Late Eocene (Zone K) assignment for the interval 1865-1869m based on planktonic foraminifera is confirmed by Macphail (1982) who records spore pollen assemblages of the Late Eocene Upper N. asperus Zone in the same interval.

ZONE H-1 : 1830-1860m.
The first appearance uphole of Globigerina woodi connecta at 1860m defines the base of Zone H-1 in Bream-5. The top of Zone H-1 is defined by the first appearance of Globigerinoides trilobus at 1825m.

ZONE G : 1725-1825m.
The uphole entry of Globigerinoides trilobus at 1825m defines the base of Zone G in Bream-5. The top of Zone G is defined by the evolutionary appearance of Globigerinoides bisphericus from G. trilobus at 1650m. Zone G planktonic foraminiferal faunas in Bream-5 are diverse and well preserved.

ZONE F : 1575-1650m.
A typical Zone F planktonic foraminiferal fauna comprising Globigerinoides bisphericus and advanced forms of G. trilobus occur within the interval 1575-1650m.

ZONE E-2 : 1500m.
A well preserved, diverse Zone E-2 planktonic foraminiferal assemblage comprising Praeorbulina glomerosa without the Orbulina plexus, occurs in SWC 46 at 1500m.

ZONES D-1 to D-2 : 1350-1425m.
The first appearance uphole of Orbulina univera at 1425m defines the base of Zone D-2 in Bream-5. The extinction of Globorotalia miozea at 1350m defines the top of Zone D-1.

ZONES A-4 to C : 1125m.
The association of Globorotalia conomiozea with G. miozea conoidea indicates that SWC 51 at 1125m can be no older than Zone C and no younger than Zone A-4. A more refined age assignment is not possible because of the low diversity of planktonic foraminifera.

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MICROPALEONTOLOGICAL DATA SHEET

BASIN: GIPPSLAND ELEVATION: KB: 21M GL: -58M

WELL NAME: BREAM-5 TOTAL DEPTH: 3325M

AGE		FORAM. ZONULES	HIGHEST DATA					LOWEST DATA				
			Preferred Depth	Rtg	Alternate Depth	Rtg	Two Way Time	Preferred Depth	Rtg	Alternate Depth	Rtg	Two Way Time
PLEISTOCENE		A_1										
		A_2										
PLIOCENE		A_3										
		A_4	1125	2								
MIOCENE	LATE	B_1										
		B_2										
		C						1125	2			
	MIDDLE	D_1	1350	0								
		D_2						1425	0			
		E_1										
		E_2	1500	0				1500	0			
	EARLY	F	1575	0				1650	0			
		G	1725	0				1825	0			
		H_1	1830	0				1860	0			
OLIGOCENE	LATE	H_2										
		I_1										
		I_2										
	EARLY	J_1										
		J_2										
EOCENE		K	1865	1				1869	1			
		Pre-K										

COMMENTS: Adequate planktonic foraminiferal assemblages occur in most samples with the exception of samples of Gurnard Formation between 1885 and 1921m which are either barren or contain rare, very poorly preserved planktonics. The lowermost sample of Lakes Entrance Formation is Zone H-1 in age. The interval 1860 to 1864m (basal Lakes Entrance Formation) may contain a condensed Oligocene section. Sonic log correlation with Bream-3 indicates that Zone I is present and Zones J-1 and J-2 are absent within this interval.

CONFIDENCE RATING:

0:	SWC or Core	- Complete assemblage (very high confidence).
1:	SWC or Core	- Almost complete assemblage (high confidence).
2:	SWC or Core	- Close to zonule change but able to interpret (low confidence).
3:	Cuttings	- Complete assemblage (low confidence).
4:	Cuttings	- Incomplete assemblage, next to uninterpretable or SWC with depth suspicion (very low confidence).

NOTE: If an entry is given a 3 or 4 confidence rating, an alternative depth with a better confidence rating should be entered, if possible. If a sample cannot be assigned to one particular zone, then no entry should be made, unless a range of zones is given where the highest possible limit will appear in one zone and the lowest possible limit in another.

DATA RECORDED BY: M.J. Hannah DATE: 31 August, 1982.

DATA REVISED BY: J.P. Rexilius DATE: 10 December, 1982.

TABLE - 1

SUMMARY OF PALAEONTOLOGICAL ANALYSIS

BREAM-5, GIPPSLAND BASIN

INTERPRETATIVE DATA

NATURE OF SAMPLE	DEPTH (M)	MICRO-FOSSIL YIELD	PRESERVATION	DIVERSITY	ZONE	RATING	AGE
SWC 51	1125	Moderate	Moderate	Moderately low	A-4 to C	2	Late Pliocene-Mid Miocene
SWC 48	1350	Moderate	Moderate	Moderate	D-1 to D-2	0	Mid Miocene
SWC 47	1425	High	Good	High	D-1 to D-2	0	Mid Miocene
SWC 46	1500	High	Good	High	E-2	0	latest Early Miocene
SWC 45	1575	High	Good	Moderate	F	0	Early Miocene
SWC 44	1650	High	Good	Moderate	F	0	Early Miocene
SWC 43	1725	High	Good	Moderate	G	0	Early Miocene
SWC 42	1800	High	Good	High	G	0	Early Miocene
SWC 41	1805	High	Good	Moderately high	G	0	Early Miocene
SWC 40	1810	High	Moderate-poor	Moderately high	G	0	Early Miocene
SWC 39	1815	High	Good	Moderate	G	0	Early Miocene
SWC 38	1820	High	Good	High	G	0	Early Miocene
SWC 37	1825	Moderate	Moderate-poor	Moderately high	G	0	Early Miocene
SWC 36	1830	High	Poor	Moderately low	H-1	1	Early Miocene
SWC 35	1835	High	Moderate-good	Moderately high	H-1	0	Early Miocene
SWC 34	1840	High	Poor	Moderately low	H-1	0	Early Miocene
SWC 33	1845	Moderately high	Poor	Low	H-1	2	Early Miocene

TABLE - 1 (2)

SUMMARY OF PALAEONTOLOGICAL ANALYSIS

BREAM-5, GIPPSLAND BASIN

INTERPRETATIVE DATA

NATURE OF SAMPLE	DEPTH (M)	MICRO-FOSSIL YIELD	PRESERVATION	DIVERSITY	ZONE	RATING	AGE
SWC 32	1850	High	Poor	Moderate	H-1	0	Early Miocene
SWC 31	1855	High	Moderate	Moderate	H-1	1	Early Miocene
SWC 30	1860	High	Moderate	Moderate	H-1	0	Early Miocene
SWC 29	1865	High	Poor	Moderate	K	1	Late Eocene
SWC 28	1869	Moderate	Poor	Moderate	K	1	Late Eocene
SWC 27	1873	Low	Poor	Low	K/N	2	Mid/Late Eocene
SWC 26	1877	Moderate	Poor	Moderately low	K/N	2	Mid/Late Eocene
SWC 25	1881	Very low	Very poor	Moderately low	K/N	2	Mid/Late Eocene
SWC 24	1885	Barren planktonics		-	-	-	-
SWC 23	1889	Barren planktonics		-	-	-	-
SWC 22	1893	Barren planktonics		-	-	-	-
SWC 21	1897	Barren planktonics		-	-	-	-
SWC 20	1901	Barren planktonics		-	-	-	-
SWC 19	1905	Barren planktonics		-	-	-	-
SWC 18	1909	Barren planktonics		-	-	-	-
SWC 17	1913	Barren planktonics		-	-	-	-
SWC 15	1921	Barren planktonics		-	-	-	-

BASIC DATA

TABLE 2 : FORAMINIFERAL DATA, BREAM-5.
RANGE CHART : TERTIARY PLANKTONIC FORAMINIFERA.
RANGE CHART : TERTIARY BENTHONIC FORAMINIFERA

TABLE-2

FORAMINIFERAL DATA

BREAM-5, GIPPSLAND BASIN

BASIC DATA

SAMPLE NO.	DEPTH (M)	MICROFOSSIL YIELD	PRESERVATION	DIVERSITY
SWC 51	1125	Moderate	Moderate	Moderately low
SWC 48	1350	Moderate	Moderate	Moderate
SWC 47	1425	High	Good	High
SWC 46	1500	High	Good	High
SWC 45	1575	High	Good	Moderate
SWC 44	1650	High	Good	Moderate
SWC 43	1725	High	Good	Moderate
SWC 42	1800	High	Good	High
SWC 41	1805	High	Good	Moderate
SWC 40	1810	High	Moderate-Poor	Moderately high
SWC 39	1815	High	Good	Moderate
SWC 38	1820	High	Good	High
SWC 37	1825	Moderate	Moderate-Poor	Moderately high
SWC 36	1830	High	Poor	Moderately low
SWC 35	1835	High	Moderate-Good	Moderately high
SWC 34	1840	High	Poor	Moderately low
SWC 33	1845	Moderately high	Poor	Low
SWC 32	1850	High	Poor	Moderate
SWC 31	1855	High	Moderate	Moderate
SWC 30	1860	High	Moderate	Moderate
SWC 29	1865	High	Poor	Moderate
SWC 28	1869	Moderate	Poor	Moderate
SWC 27	1873	Low	Poor	Low
SWC 26	1877	Moderate	Poor	Moderately low
SWC 25	1881	Very low	Very poor	Moderately low
SWC 24	1886	Barren planktonics	-	-
SWC 23	1889	Barren planktonics	-	-
SWC 22	1893	Barren planktonics	-	-
SWC 21	1897	Barren planktonics	-	-
SWC 20	1901	Barren planktonics	-	-
SWC 19	1905	Barren planktonics	-	-
SWC 18	1909	Barren planktonics	-	-
SWC 17	1913	Barren planktonics	-	-
SWC 15	1921	Barren planktonics	-	-

FOSSIL TYPE: PLANKTONIC FORAMINIFERA

Well Name BREAM - 5 Basin GIPPSLAND Sheet No. 1 of 2

SAMPLE TYPE OR NO. *	51	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24
DEPTHS (m) / FOSSIL NAMES	1125	1350	1425	1500	1575	1650	1725	1800	1805	1810	1815	1820	1825	1830	1835	1840	1844.9	1850	1855	1860	1865	1869	1873	1877	1881	1885
Orbulina universa																										
Globigerina woodi woodi																										
Globoquadrina dehiscens s.s.																										
Globorotalia conomiozea																										
G. miozea conoidea																										
G. miozea miozea																										
G. praemenardii																										
Globigerinoides trilobus																										
G. bisphericus																										
Globigerina bulloides																										
Globorotalia praescitula																										
Praeorbulina glomerosa																										
Globigerina praebulloides																										
Globigerinoides bisphericus-trilobus																										
Globoquadrina advena																										
G. dehiscens s.l.																										
Catapsydrax dissimilis																										
Globigerina obesa																										
G. woodi connecta																										
Globorotalia bella																										
G. continuosa																										
G. zealandica zealandica																										
Globigerina ouachitaensis																										
Indeterminate globigerinids																										
Globorotalia nana nana																										
G. kugleri																										
Globigerina tripartita																										
Chiloguembelina cubensis																										
Globigerina angiporoides																										
G. euapertura																										
G. euapertura-ampliapertura																										
G. linaperta																										
Globorotalia gemma																										
Globigerina brevis																										
Globigerinatheka index																										
Globorotalia sp. 1																										

C=CORE S=SIDEWALL CORE
T=CUTTINGS J=JUNK BASKET

--- Rare
— Few
Common
Abundant

PALAEO.CHART-2
DWG.1107/OP/287

FOSSIL TYPE : PLANKTONIC FORAMINIFERA

Well Name BREAM - 5 Basin GIPPSLAND Sheet No. 2 of 2

SAMPLE TYPE OR NO. *	23	22	21	20	19	18	17	15
DEPTHS (m) / FOSSIL NAMES	1889	1893	1897	1900.9	1905	1909	1913.9	1921
Orbulina universa								
Globigerina woodi woodi								
Globoquadrina dehiscens s.s.								
Globorotalia conomiozea								
G. miozea conoidea								
G. miozea miozea								
G. praemenardii								
Globigerinoides trilobus								
G. bisphericus								
Globigerina bulloides								
Globorotalia praescitula								
Praeorbulina glomerosa								
Globigerina praebulloides								
Globigerinoides bisphericus-trilobus								
Globoquadrina advena								
G. dehiscens s.l.								
Catapsydrax dissimilis								
Globigerina obesa								
G. woodi connecta								
Globorotalia bella								
G. continuosa								
G. zealandica zealandica								
Globigerina ouachitaensis								
Indeterminate globigerinids								
Globorotalia nana nana								
G. kugleri								
Globigerina tripartita								
Chiloguembelina cubensis								
Globigerina angiporoides								
G. euapertura								
G. euapertura-ampliapertura								
G. linaperta								
Globorotalia gemma								
Globigerina brevis								
Globigerinatheka index								
Globorotalia sp. 1								

* C=CORE S=SIDEWALL CORE
T=CUTTINGS J=JUNK BASKET

PALAEO.CHART-2
DWG.1107/OP/287

FOSSIL TYPE: BENTHONIC FORAMINIFERA

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 1 of 2

SAMPLE TYPE OR NO. *	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
DEPTHS / FOSSIL NAMES	1125	1350	1425	1500	1575	1650	1725	1800	1805	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860	1865	1869	1873	1877	1881	1885
Uvigerina (costate)	—									—	—		—									—			—	
Lenticulina spp	—	—	—		—	—	—	—	—	—	—	—	—	—	—			—	—	—	—	—		—	—	
Lagena flatulenta	—																									
Indeterminate rotalids	—	—	—	—	▒		—	—	—	—	—	—	—		—						—					
Gyroidinoides spp.	—	—		—			—	—	—	—	—	—	—							—	—			—	—	
Lagena sp.1	—																									
Cibicides spp.	—		—	—	—	—			—	—	—				—					—				—	—	
Haplophragmoides spp.	—				—					—	—			—	—					—		—			—	
Sphaeroidina bulloides		—	—		—	—	—	—	—	—	—	—	—	—	—			—	—	—		—		—		
Bolivina spp.		—	▒	—	—					—	—	—	—	—	—	—					—					
Uvigerina (spinose)		—	▒	—						—	—										—			—		
Dentalina (costate)			—	—	—	—	—	—		—	—		—	—	—	—		—		—		—					
Dentalina(non-costate)			—	—	—	—	—	—	—	—	—		—	—	—			—		—	—	—	—		—		
Siphonina sp.1			—								—									—						
Fissurina sp.1			—	—		—				—	—	—			—											
Lagena sulcata			—		—	—					—		—	—	—					—	—		—	—		
Pullenia bulloides			—							—	—				—			—		—	—				—	
Ammobaculites spp			—							—											—		—			
Marssonella spp.			—	—																—						
Textularia spp.			—		▒		—	—	—	—				—	—			—		—	▒				—	
Indeterminate agglutinates			—		—						—	—								—						
Pullenia quinqueloba				—			—	—	—		—	—	—					—			—				—	
Quinqueloculina spp.			▒				—	—	—		—			—	—					—						
Gaudyrina spp.			—											—						—						
Triloculina spp.			—																							
Cassidulina spp.					▒																—					
Lagena sp.2					—																				—	
Dorothia spp.					—							—													—	
Trifarina bradyi						—		—			—										—	—	—	—		
Bathysiphon spp.						—				—			—		—			—		—			—			
Pullenia sp.1									—																	
Lagena sp.3										—																
Spiroloculina sp.1										—		—														
Ammodiscus spp.										—																
Anomalina sp.1											—							—				—		—		
Frondicularia sp.1											—															
Indeterminate nodosarians															—											
Lagena hexagona																				—		—				
Lagena sp.4																				—						
Bolivina (reticulate)																				—		—	—			
Cassidulina subglobosa																						—	—	—	—	
Indet. calc. benthonics																										

* C=CORE S=SIDEWALL CORE
T=CUTTINGS J=JUNK BASKET

— RARE
— FEW
▒ COMMON

PALAEO.CHART-2
DWG.1107/OP/287

FOSSIL TYPE : BENTHONIC FORAMINIFERA

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 2 of 2

SAMPLE TYPE OR NO. *	S	S	S	S	S	S	S	S																			
DEPTHS / FOSSIL NAMES	1889	1893	1897	1901	1905	1909	1913	1921																			
Uvigerina (costate)																											
Lenticulina spp																											
Lagena flatulenta																											
Indeterminate rotalids			---																								
Gyroidinoides spp.																											
Lagena sp.1																											
Cibicides spp.																											
Haplophragmoides spp.						---																					
Sphaeroidina bulloides																											
Bolivina spp.																											
Uvigerina (spinose)																											
Dentalina (costate)																											
Dentalina(non-costate)																											
Siphonina sp.1																											
Fissurina sp.1																											
Lagena sulcata																											
Pullenia bulloides																											
Ammobaculites spp																											
Marssonella spp.																											
Textularia spp.																											
Indeterminate agglutinates				---		---																					
Pullenia quinqueloba																											
Quinqueloculina spp.																											
Gaudyrina spp.				---		---																					
Triloculina spp.																											
Cassidulina spp.																											
Lagena sp.2																											
Dorothia spp.				---		---																					
Trifarina bradyi																											
Bathysiphon spp.																											
Pullenia sp.1																											
Lagena sp.3																											
Spiroloculina sp.1																											
Ammodiscus spp.																											
Anomalina sp.1																											
Frondicularia sp.1																											
Indeterminate nodosarians																											
Lagena hexagona																											
Lagena sp.4																											
Bolivina (reticulate)																											
Cassidulina subglobosa																											
Indet. calc. benthonics					---																						

* C=CORE S=SIDEWALL CORE
T=CUTTINGS J=JUNK BASKET

--- RARE
—— FEW
▒▒ COMMON

PALAEO.CHART-2
DWG.NO7/OP/287

APPENDIX 2

APPENDIX 2

PALYNOLOGICAL ANALYSIS

APPENDIX
PALYNOLOGICAL ANALYSIS, BREAM - 5
GIPPSLAND BASIN

by
M.K. Macphail

Esso Australia Ltd.,
Palaeontology Report 1982/46.
0249L

December 1, 1982

INTERPRETATIVE DATA

INTRODUCTION

SUMMARY TABLE

GEOLOGICAL COMMENTS

DISCUSSION OF AGE ZONES

TABLE - 1 INTERPRETATIVE DATA

PALYNOLOGY DATA SHEET

INTRODUCTION

Sixty three (63) sidewall cores, six core chips and eight cuttings samples were processed and examined for spore-pollen and dinoflagellates. Recovery was usually low and preservation poor, although diversity was sufficiently high to enable confident age determinations. Sidewall cores within the section 2114.0 to 2416.5m are misplaced (SWC Nos. 154-171, see Summary Table and Biostratigraphy Section). This section has been dated using cuttings.

Palynological zones and lithological facies division for the base of the Lakes Entrance Formation to the total depth of the well are given below. The occurrences of the more stratigraphically important species are tabulated in the accompanying range chart.

SUMMARY

UNIT/FACIES	ZONE	DEPTH (Metres)
Lakes Entrance Formation	*P. tuberculatus*	1860.0
Gurnard Formation	Upper *N. asperus*	1865.0-1869.0
	Middle *N. asperus*	1873.0-1905.0
	Lower *N. asperus*	1909.0-1923.0
Latrobe Group Coarse Clastics	Lower *N. asperus*	1925.0-1935.0
	P. asperopolus	1948.5-2029.0
	Upper *M. diversus*	2065
	Middle *M. diversus*	2120*
	Lower *M. diversus*	2145* -2170*
	Upper *L. balmei*	2225* -2280*
	Lower *L. balmei*	2310* -2698.0
	T. longus	2740.4-3305.0
	T. lilliei	3320.0

* = Zone depth based on cuttings. 3325TD.

GEOLOGICAL COMMENTS

1. The Bream-5 well contains a continuous sequence of zones from the Late Cretaceous T. lilliei Zone up to and possibly including the Middle/Late Eocene Upper N. asperus Zone.

2. The base of the Lakes Entrance Formation, picked on log and lithological characteristics as occurring at 1864.0m, is above the first appearance of a P. tuberculatus Zone flora, present in the uppermost sample from the Gurnard Formation at 1865.0m (SWC29). The same phenomenan has been recorded by Stacy (1982) in the Bream-4A well. Foraminiferal data (Rexilius 1982) makes it clear that a major unconformity or period of non-deposition occupying all or part of the Early/Middle Oligocene occurs between the top of the Gurnard and base of the Lakes Entrance Fomation (1865.0 to 1860.0) in Bream-5. Accordingly the presence of the P. tuberculatus Zone flora at 1865.0m in Bream-5 is believed to be due to bioturbation, or reworking of very top of Gurnard Formation during basal Oligocene. The same may be true of the P. tuberculatus Zone flora in the top sample of the Gurnard Formation in the Bream-4A well.

3. The Gurnard Formation picked on log characteristics extends from 1865.0 to 1924.0m and contains good Lower N. asperus and Middle N. asperus Zone spore-pollen and dinoflagellate assemblages. From the sidewall core descriptions, a facies change from glauconitic sandstones to glauconitic shales and siltstones occurs between 1889.0 to 1885.0m, within the Middle N. asperus Zone. The uppermost two sidewall core samples in the Gurnard Formation at 1869.0m and 1865.0m, contain mixed, probably bioturbated, Middle/Upper N. asperus Zone and Upper N. asperus/P. tuberculatus Zone floras. The interval has been provisionally dated as upper N. asperus Zone in age, but it is noted that sediments of this age are absent in the Bream-4A well (Stacy ibid).

4. Glauconite sandstones, which are apparently homogenous with those in the lower section of the Gurnard Formation, extend for 5m below the picked base of the Formation - from 1925.0 to 1929.0m. Spore-pollen and dinoflagellate assemblages are virtually identical throughout and these may be a case for extending the base of the Gurnard Formation to 1929.0m.

5. The highest sidewall core sample of the Latrobe Group Sediments, which lack glauconite(1935.0m), is dated as Lower N. asperus Zone in age. This age-determination is based on frequent Nothofagidites pollen. The highest coal sample, at 1950.7m, is P. asperopolus Zone in age, indicating that the transition from a fluvial/deltaic to a marine environment occurred close to the Lower N. asperus/P. asperopolus Zone boundary. It is unclear whether hydrocarbon-bearing sands recorded at approximately 1940-1945m. are lower N. asperus or P. asperopolus Zone in age.

6. Cuttings from sediment infilling a probable channel, picked on seismic data as occurring between 2157 to 2219m, are Lower M. diversus Zone in age. The sample (2170-75m) contained frequent specimens of an unidentified Deflandrea sp. and rare Apectodinium hyperacantha. The age dating of these dinoflagellates suggest (i) that the cutting of the channel relates to the eustatic fall of sea level at the end of the Upper L. balmei Zone and (ii) the channel was subsequently filled by the A. hyperacanthea Zone transgression described by Partridge (1976). The base of the channel, picked on seismic data at 2219m, is 6m above the highest cuttings sample containing a good L. balmei palynoflora.

7. The age/depth relationships of pre-Eocene strata correspond well with that predicted by seismic stratigraphy. It is noted that the Upper L. balmei seismic marker at 2305m is close to the highest cuttings sample containing a possible Lower L. balmei Zone palynoflora. The Lower L. balmei seismic marker (2672m) falls within the Lower L. balmei Zone but is within 70m of the highest good T. longus Zone assemblage (2740.4m).

8. Two marine transgressions are recorded within the Lower L. balmei Zone sediments, at 2472.0 and 2588.0m. Neither contained the marker dinoflagellate species for the Eisenackia crassitabulata Zone or the Trithyrodinium evittii Zone marine transgressions recognised by Partridge (1976).

9. The well bottomed in T. lilliei Zone sediments close to the T. longus/T. lilliei Zone boundary.

DISCUSSION OF ZONES

The zone boundaries have been established using the criteria of Stover & Evans (1973), Stover & Partridge (1973), Partridge (1976) and subsequent revisions.

Tricolporites lilliei Zone: 3320.0m.
This zone is represented by the basal sample only. The age determination is based on the occurrence of Tricolporites lilliei and frequent Nothofagidites endurus and the absence of definite indicator species of the Tricolites longus Zone.

Tricolpites longus Zone: 2740.4 to 3305.0m
Samples from this section are dominated by gymnosperm, Proteacidites and Nothofagidites pollen but the majority contained species which first appear in zone: Tricolpites longus, T. waiparensis, Tetracolporites verrucosus, Proteacidites otwayensis, P. palisadus, P. reticuloconcavus and P. wahooensis. Gambierina rudata was mostly uncommon relative to Nothofagidites spp., indicating that the criterion of abundance of Gambierina: Nothofagidites pollen, established by Stover & Evans (1973) to separate the T. longus and T. lilliei Zones, is unreliable. The base of the zone is defined by the simultaneous first appearances of Tricolpites waiparensis, Tetracolporites verrucosus and Proteacidites wahooensis. The top of the zone is placed at 2740.4m, based on the simultaneous last appearances of Tricolporites lilliei, Triporopollenites sectilis and Tricolpites waiparensis. The highest occurrence of Tricolpites longus is at 3284.0m.

Lower L. balmei Zone: 2310-15 to 2698.0m
The section is characterized by the general L. balmei Zone indicators, e.g. Polycolpites langstonii, frequent to abundant Lygistepollenites balmei and Australopollis obscurus, in association with Tetracolporites verrucosus, a species which ranges no higher than the Lower L. balmei Zone. The base of the zone is picked at 2698.0m on the occurrence of these species in an assemblage lacking definite T. longus Zone indicators. Integricorpus antipodus, a species which first appears in the Lower L. balmei Zone is present at 2687.0m. The top of the zone is based on the last appearance of Tetracolporites verrucosus at 2310-15m. There is some uncertainty about the age-determination since this cuttings sample also contained the late Cretaceous species Tetracopollis securus and

Gambierina rudata. An alternative pick is at 2472.0m, based on the abundant occurrence of the dinoflagellates Glaphyrocysta retiintextum and Svalbardella australina in association with Lygistepollenites balmei and Australopollis obscurus but not Apectodinium homomorpha. This indicates the marine transgression is likely to be Lower, not Upper, L. balmei Zone in age.

Upper L. balmei Zone: 2280-85m
The interval from 2175 to 2472m comprises either barren or misplaced sidewall core samples. The only reliable age determination is based on coal in cuttings from the interval 2280-85m. This sample is dated as Upper L. balmei Zone in age on the occurrence of Tetracolporites multistrixus and T. textus in association with Australopollis obscurus and (common) Lygistepollenites balmei. The position of the M. diversus/L. balmei Zone boundary lies in the barren interval between 2175m and the highest occurrence of Lygistepollenites balmei at 2225-30m.

Lower M. diversus Zone: 2170-75 to 2145-50m
Lower M. diversus Zone assemblages, characterized by Malvacipollis diversus, Ilexpollenites anguloclavatus and Proteacidites lapis, occur in two cuttings samples - at 2145-50m and 2170-75m. The former (a coal) is of interest as it contained Beaupreadites elegansiformis, a species which is usually not found below Middle M. diversus Zone sediments. The presence of Tetracolporites textus and the absence of other definite spore-pollen markers of the Middle M. diversus strongly supports a Lower M. diversus Zone age. Spore-pollen at 2145-50m is swollen, suggesting the interval has been subjected to liquid hydrocarbons at one time (see Macphail 1982).

Middle M. diversus Zone: 2120-25m
The occurrence of Proteacidites leightonii, Liliacidites lanceolatus and Malvacipollis diversus in cuttings from 2120-25m indicates the sample is no older than Middle M. diversus Zone in age. The absence of Proteacidites pachypolus and Myrtaceidites tenuis indicates the interval is no younger than Middle M. diversus Zone in age.

Upper M. diversus Zone: 2065m
As with the Middle M. diversus Zone, the Upper M. diversus Zone sediments are represented by one cuttings sample only, at 2065m. The age-determination is confirmed by the presence of low but

approximately equal number of Malvacipollis diversus and Proteacidites pachypolus. Since the sample is located only 6m below the base of the 9-5/8" casing, it is less likely to be contaminated and therefore has a better confidence rating than is usually the case with cuttings.

P. asperopolus Zone: 1948.5 to 2029.0m
Samples within this interval are dominated by Haloragacidites harrisii and Proteacidites species including P. asperopolus and often frequent to common P. pachypolus. Nothofagidites emarcidus/heterus is frequent in three samples, core chips at 1954.5m and 1959.9m and a coal at 1954.94m, but the presence of Myrtaceidites tenuis in these, as well as adjacent samples in which Nothofagidites is rare, confirm a P. asperopolus Zone age-determination. The coal at 1954.94m is of interest in that it contains the rare species Droseridites tholus and one of the earliest (Early/Middle Eocene) records for Quintinia psilatispora. The base of the zone is picked on the first occurrence of frequent Proteacidites pachypolus with Myrtaceidites tenuis at 2029.0m. This sample contains infrequent dinoflagellate cysts. The first occurrence of Proteacidites asperopolus is at 2017.5m. The top of the zone is placed at 1948.5m, based on the occurrence of Proteacidites asperopolus, P. pachypolus and Sapotaceoidae-pollenites rotundus with Spinizonocolpites prominatus, a species which last appears in this zone.

Lower N. asperus Zone: 1897.0 to 1935.0
The base of the zone is placed at the marked increase in Nothofagidites spp. abundance from rare at 1948.5m to dominant in a sparse assemblage at 1935.0m. The Lower N. asperus Zone indicator dinoflagellate species Areosphaeridium diktyoplokus occurs at 1928.0m together with Proteacidites asperopolus, a species which ranges no higher than the Lower N. asperus Zone. Both species, Proteacidites pachypolus and (frequent to common) Nothofagidites spp occur in all samples up to 1909.0m. The top of the zone is placed at 1909.0m, based on the highest occurrences of Areosphaeridium diktyoplokus and Proteacidites asperopolus in an assemblage lacking indicator species of the Middle N. asperus Zone.

Middle N. asperus Zone: 1873.0 to 1905.0m
The base of the zone is picked on the first appearance of the indicator species for the Middle N. asperus Zone, Triorites

magnificus, at 1905.0m. This sample contains Proteacidites reticulatus, a species which appears late in the Lower N. asperus Zone but then becomes common in the Middle N. asperus Zone. Also present are Diporites delicatus and Areosphaeridium diktyoplokus, species which are characteristic of sediments no younger than Lower N. asperus Zone in age. It is therefore likely the sample is near the base of the Middle N. asperus Zone, possibly within the Deflandrea heterophylcta Zone since this is the most common dinoflagellate species in the sample. Otherwise dinoflagellate and spore-pollen species diagnostic of the Middle N. asperus Zone are not recorded until 1881.0m. This sample contains the first good specimens of Vozzhenikova extensa, Corrudinium incompositum, and Proteacidites rectomarginis as well as the highest appearance of Proteacidites pachypolus. The top of the zone is picked at 1873.0m, based on the frequent occurrence of the Middle N. asperus dinoflagellate species Corrudinium incompositum.

Upper N. asperus Zone: 1869.0 to 1865.0m
Two samples are provisionally identified as being Upper N. asperus Zone in age. The lower most at 1869.0m contains Proteacidites truncatus, a rare species which is recorded as early as the Middle N. asperus Zone, Proteacidites leightonii which ranges no higher than the Middle N. asperus zone, Foveotriletes crater which first appears at the top of the Middle N. asperus Zone in the Bass Basin but rarely before the P. tuberculatus Zone in the Gippsland Basin, and Foveotriletes lacunosus, an indicator species for the P. tuberculatus Zone. The sample contains a K-Zone foraminiferal assemblage (Rexilius 1982), the chronostratigraphic equivalent of the Upper N. asperus Zone but comprising species which range into the Middle N. asperus Zone.

The uppermost sample, at 1865.0, contains a K-Zone foraminiferal assemblage and a P. tuberculatus Zone spore-pollen assemblage. The age-determination is based upon the abundance of pelletal glauconite, indicating the sediment forms part of the Gurnard Formation. Its position, immediately below the base of the Lakes Entrance Formation, makes incorporation of Oligocene spore-pollen by bioturbation a strong possibility.

P. tuberculatus Zone 1860.0 to 1840.0
The regular occurrence of Cyatheacidites annulatus in these glauconite-free calcareous sediments, confirms a P. tuberculatus Zone age for the interval.

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TABLE 1

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN.

INTERPRETATIVE DATA

SAMPLE	DEPTH (M)	YIELD	DIVERSITY SPORE POLLEN	LITHOLOGY	ZONE	AGE	CONFIDENCE RATING	COMMENTS
SWC 34	1840.0	Low	Low	Mdst.calc.	P.tuberculatus	Post Eocene	0	C.annulatus
SWC 30	1860.0	Very Low	Low	Mdst.calc.	P.tuberculatus	Post Eocene	0	C.annulatus
SWC 29	1865.0	Good	Moderate	Sltst.glau.	Upper N.asperus	Late Eocene	2	C.annulatus, Q.psilatispora
SWC 28	1869.0	Good	High	Sltst.glau.	Upper N.asperus	Late Eocene	2	P.truncatus, F.crater
SWC 27	1873.0	Fair	Low	Sltst.glau.	Middle N.asperus	Late Eocene	1	Corrudinium incompositum
SWC 26	1877.0	Very Low	Moderate	Sltst.glau.	N.asperus	Middle/Late Eocene	-	P.vesicus, N.falcatus
SWC 25	1881.0	Good	Moderate	Slst.glau.	Middle N.asperus	Middle/Late Eocene	0	P.pachypolus, P.rectomarginus Corrudinium incompositum, Vozzhenikova extensa
SWC 24	1885.0	Good	Moderate	Sh.glau.	N.asperus	Middle/Late Eocene	-	P.pachypolus, T.simatus
SWC 23	1889.0	Very Low	Low	Ss.glau.	Middle N.asperus	Middle/Late Eocene	2	Vozzhennikovia cf.extensa
SWC 22	1893.0	Very Low	Low	Ss.glau.	N.asperus	Middle/Late Eocene	-	Frequent N.emarcidus/heterus
SWC 21	1897.0	Fair	Low	Ss.glau.	Middle N.asperus	Middle Eocene	2	P.reticulatus, M.diversus
SWC 20	1900.9	Low	Moderate	Ss.glau.	Middle N.asperus	Middle Eocene	2	P.pachypolus, Areosphaeridium diktyoplokus
SWC 19	1905.0	Fair	High	Ss.glau.	Middle N.asperus	Middle Eocene	2	A.diktyoplokus, D.delicatus T.magnifus
SWC 18	1909.0	Fair	High	Ss.glau.	Lower N.asperus	Middle Eocene	1	R.trophus, P.asperopolus
SWC 17	1912.9	Very Low	Low	Ss.glau.	Indeterminate	-	-	

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN.

INTERPRETATIVE DATA

SAMPLE	DEPTH (M)	YIELD	DIVERSITY SPORE POLLEN	LITHOLOGY	ZONE	AGE	CONFIDENCE RATING	COMMENTS
SWC 15	1921.0	Low	Moderate	Ss.glau.	Lower N.asperus	Middle Eocene	1	A.diktypolkus, P.asperopolus
SWC 14	1923.0	Low	Moderate	Ss.glau.	Lower N.asperus	Middle Eocene	1	A.diktyplokus, P.asperopolus
SWC 13	1925.0	Fair	Moderate	Ss.glau.	Lower N.asperus	Middle Eocene	1	A.diktyplokus, P.asperopolus
SWC 12	1927.0	Very Low	Low	Ss.	Lower N.asperus	Middle Eocene	1	A.diktyplokus, D.phosphoritica
SWC 11	1928.0	Fair	Moderate	Ss.glau.	Lower N.asperus	Middle Eocene	1	A.diktyplokus, P.asperopolus
SWC 9	1935.0	Very Low	Low	Ss.	Lower N.asperus	Middle Eocene	2	Frequent N.emaricidus/heterus
SWC 8	1937.0	Barren	-	Ss.	-	-	-	
Core	1948.5	Fair	Moderate	Sh.	P.asperopolus	Early/ Middle Eocene	2	P.asperopolus, P.pachypolus, S.prominatus
Core	1950.7	Fair	Moderate	Coal	P.asperopolus	Early/ Middle Eocene	2	
Core	1954.5	Fair	High	Sh.	P.asperopolus	Early Eocene	0	P.asperopolus, M.tenuis
Core 2	1954.94	Good	High	Coal	P.asperopolus	Early Eocene	0	B.trigonalis, M.tenuis, Q.psilatispora
Core 2	1959.9	Low	Low	Sh.	P.asperopolus	Early Eocene	2	P.pachypolus
SWC 7	1972.5	Barren	-	Sltst.carb.	-	-	-	
SWC 5	2002.0	Good	High	Mdst.	P.asperopolus	Early Eocene	0	M.tenuis, S.rotundus, abundant P.pachypolus
SWC 4	2008.0	Very Low	Low	Ss.carb	P.asperopolus	Early Eocene	2	P.pachypolus

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN.

INTERPRETATIVE DATA

SAMPLE	DEPTH (M)	YIELD	DIVERSITY SPORE POLLEN	LITHOLOGY	ZONE	AGE	CONFIDENCE RATING	COMMENTS
SWC 3	2017.4	Good	Moderate	Sltst.carb.	P.asperopolus	Early Eocene	0	P.asperopolus, abundant P.pachypolus, M.tenuis
SWC 2	2029.0	Very Low	Low	Sltst.carb.	P.asperopolus	Early Eocene	1	Frequent P.pachypolus, M.tenuis
SWC 1	2042.4	Very Low	Low	Sltst.	Indeterminate	-	-	
Cts.	2065	Low	Low	sh.	Upper M.diversus	Early Eocene	3	M.diversus, P.pachypolus
SWC174	2077.0	Barren	-	Ss.carb	-	-	-	
Cts.	2095-100	Good	High	Coal	M.diversus	Early Eocene	3	T.multistrixus, M.textus, frequent M.diversus, I.notabilis
SWC171	2114.0	Low	Low	Sltst.	T.longus	Late Cretaceous	1	T.waiparensis
SWC170	2119.0	Low	Low	Sltst.	T.longus	Late Cretaceous	2	T.sectilis
Cts.	2120-25	Moderate	High	Sh.	Middle M.diversus	Early Eocene	3	M.diversus, P.leightonii, S.marlinensis
SWC169	2127.5	Low	Low	Sltst.	T.longus	Late Cretaceous	2	T.lilliei, T.sectilis, frequent N.endurus
Cts.	2145-50	Fair	High	Coal	Lower M.diversus	Early Eocene	3	T.textus, M.diversus, B.elegansiformis
SWC167	2157.5	Very Low	Low	Ss.carb.	T.longus	Late Cretaceous	1	T.waiparensis

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN.

INTERPRETATIVE DATA

SAMPLE	DEPTH (M)	YIELD	DIVERSITY SPORE POLLEN	LITHOLOGY	ZONE	AGE	CONFIDENCE RATING	COMMENTS
Cts.	2170-75	Fair	High	Sh.	Lower M.diversus	Early Eocene	2	M.diversus, I.anguloclavatus, Apectodinium hyperacantha.
SWC164	2209.0	Barren	-	Ss.	-	-	-	
SWC 163	2219.4	Barren	-	Ss.	-	-	-	
Cts.	2225-30	Very Low	Low	Sh.	L.balmei	Paleocene	3	L.balmei, H.harrisii
Cts.	2280--85	Fair	Moderate	Coal	Upper L.balmei	Paleocene	3	L.balmei, T.textus, T.multistrixus and A.obscurus (common).
Cts.	2310-15	High	Moderate	Sh.	Lower L.balmei	Paleocene	3	L.balmei, G.rudata, T.verrucosus
SWC158	2317.0	Fair	Low	Sh.	T.liliei	Late Cretaceous	2	T.lilliei, T.sectilis
SWC156	2369.0	Barren	-	Ss.	-	-	-	
SWC154	2416.5	Barren	-	Ss.	-	-	-	
SWC110	2472.0	High	High	Ss.carb	Lower L.balmei	Paleocene	2	Frequent L.balmei and A.obscurus, Glaphryocysta retiintextum common.
SWC108	2504.0	Fair	Moderate	Sltst.carb	Lower L.balmei	Paleocene	1	A.obscurus and L.balmei (frequent,) T.verrucosus

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN.

INTERPRETATIVE DATA

SAMPLE	DEPTH (M)	YIELD	DIVERSITY SPORE POLLEN	LITHOLOGY	ZONE	AGE	CONFIDENCE RATING	COMMENTS
SWC107	2530.0	Good	Moderate	Sh.	L.balmei	Paleocene	1	A.obscurus abundant, L. balmei frequent
SWC106	2551.0	Low	Moderate	Sltst.	L.balmei	Paleocene	-	L.balmei frequent, S. regium
SWC105	2566.0	Very Low	Low	Ss.carb.	Indeterminate	-	-	L.balmei
Core 3	2568.0	Barren	-	Sh.	-	-	-	
SWC104	2588.0	Good	High	Sh.	Lower L.balmei	Paleocene	1	A.obscurus frequent, R.mallatus, Deflandrea speciosus.
SWC103	2624.0	Fair	Moderate	Sh.	Lower L.balmei	Paleocene	2	
SWC101	2673.0	Fair	Low	Sltst.	Lower L.balmei	Paleocene	2	H.harrisii, T.verrucosus
SWC100	2687.0	Fair	Moderate	Sltst.	Lower L.balmei	Paleocene	1	I.antipodus, L.balmei, A.obscurus
SWC150	2694.9	Barren	-	Ss.	-	-	-	
SWC 99	2698.0	High	Moderate	Ss/sh.carb	Lower L.balmei	Paleocene	2	L.balmei, T.verrucosus
SWC 98	2727.5	Very Low	Low	Ss.carb.	Indeterminate	-	-	
SWC 97	2730.5	Barren	-	Ss.carb.	-	-	-	
SWC 96	2740.4	Fair	High	Ss.carb.	T.longus	Paleocene	1	T.lilliei, T.waiparensis, G.wahooensis
SWC 146	2776.6	Very Low	Low	Sh.	T.longus	Late Cretaceous	2	T.sectilis

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN.

INTERPRETATIVE DATA

SAMPLE	DEPTH (M)	YIELD	DIVERSITY SPORE	DIVERSITY POLLEN	LITHOLOGY	ZONE	AGE	CONFIDENCE RATING	COMMENTS
SWC 92	2848.0	Very Low	Moderate		Sltst.	T.longus	Late Cretaceous	1	G.rudata frequent, P.otwayensis,T.waiparensis
SWC142	3013.9	Very Low	Low		Sltst.	T.longus	Late Cretaceous	1	P.reticuloconcavus, P.palisadus
SWC141	3027.8	Very Low	Low		Sltst.carb.	Indeterminate	-	-	
SWC 78	3065.5	Fair	Moderate		Sltst.carb.	T.longus	Late Cretaceous	1	T.verrucosus,T.waiparensis
SWC 68	3194.0	Very Low	Low		Cly.	T.longus	Late Cretaceous	2	P.palisadus, T.sectilis, T.lilliei.
SWC137	3196.0	Very Low	Low		Sltst.carb.	Indeterminate	-	-	
SWC 63	3225.0	Very Low	Low		Ss.	Indeterminate	-	-	Caved L.balmei assemblage
SWC 56	3284.0	Very Low	Moderate		Sltst.coaly	T. longus	Late Cretaceous	0	T.verrucosus, T.longus P.palisadus.
SWC 54	3305.0	Very Low	Moderate		Sltst.coaly	T.longus	Late Cretaceous	1	T.verrucosus, T.waiparensis, P.wahooensis.
SWC 52	3320.0	Very Low	Moderate		Coal	T.lilliei	Late Cretaceous	2	T.lilliei, common Nothofagidites spp.,T.sectilis T.A.I.=2.3

PALYNOLOGY DATA SHEET

BASIN: GIPPSLAND ELEVATION: KB: +21m GL: -58m

WELL NAME: BREAM-5 TOTAL DEPTH: 3325m

AGE	PALYNOLOGICAL ZONES	HIGHEST DATA					LOWEST DATA				
		Preferred Depth	Rtg	Alternate Depth	Rtg	Two Way Time	Preferred Depth	Rtg	Alternate Depth	Rtg	Two Way Time
NEOGENE	*T. pleistocenicus*										
	M. lipsis										
	C. bifurcatus										
	T. bellus										
PALEOGENE	*P. tuberculatus*	1840.0	0				1860.0	1			
	Upper *N. asperus*	1865.0	2				1869.0	2			
	Mid *N. asperus*	1873.0	2				1905.0	2	1881.0	0	
	Lower *N. asperus*	1909.0	1				1935.0	2	1927.0	1	
	P. asperopolus	1948.5	2	1954.5	0		2029.0	1			
	Upper *M. diversus*	2065	3				2065	3			
	Mid *M. diversus*	2120	3				2125	3			
	Lower *M. diversus*	2145	3				2170	3			
	Upper *L. balmei*	2225	3	2280	3		2280	3			
	Lower *L. balmei*	2310	3	2472.0	2		2698.0	2	2687.0	1	
LATE CRETACEOUS	*T. longus*	2740.4	1				3305.0	1			
	T. lilliei	3320.0	2				3320.2				
	N. senectus										
	U. *T. pachyexinus*										
	L. *T. pachyexinus*										
	C. triplex										
	A. distocarinatus										
EARLY CRET.	*C. paradoxus*										
	C. striatus										
	F. asymmetricus										
	F. wonthaggiensis										
	C. australiensis										
PRE-CRETACEOUS											

COMMENTS:

CONFIDENCE RATING:
- 0: SWC or Core, Excellent Confidence, assemblage with zone species of spores, pollen and microplankton.
- 1: SWC or Core, Good Confidence, assemblage with zone species of spores and pollen or microplankton.
- 2: SWC or Core, Poor Confidence, assemblage with non-diagnostic spores, pollen and/or microplankton.
- 3: Cuttings, Fair Confidence, assemblage with zone species of either spores and pollen or microplankton, or both.
- 4: Cuttings, No Confidence, assemblage with non-diagnostic spores, pollen and/or microplankton.

NOTE: If an entry is given a 3 or 4 confidence rating, an alternative depth with a better confidence rating should be entered, if possible. If a sample cannot be assigned to one particular zone, then no entry should be made, unless a range of zones is given where the highest possible limit will appear in one zone and the lowest possible limit in another.

DATA RECORDED BY: M.K. Macphail. DATE: 18 November, 1982.

DATA REVISED BY: DATE:

BASIC DATA

Table - 2 : Palynological Data

Range Chart - Dinoflagellates.

Range Chart - Spore Pollen.

TABLE 2

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN

BASIC DATA

SWC 34	1840.0	Low	Low	Mdst.calc.
SWC 30	1860.0	Very Low	Low	Mdst.calc.
SWC 29	1865.0	Good	Moderate	Sltst.glau.
SWC 28	1869.0	Good	High	Sltst.glau.
SWC 27	1873.0	Fair	Low	Sltst.glau.
SWC 26	1877.0	Very Low	Moderate	Sltst.glau.
SWC 25	1881.0	Good	Moderate	Slst.glau.
SWC 24	1885.0	Good	Moderate	Sh.glau.
SWC 23	1889.0	Very Low	Low	Ss.glau.
SWC 22	1893.0	Very Low	Low	Ss.glau.
SWC 21	1897.0	Fair	Low	Ss.glau.
SWC 20	1900.9	Low	Moderate	Ss.glau.
SWC 19	1905.0	Fair	High	Ss.glau.
SWC 18	1909.0	Fair	High	Ss.glau.
SWC 17	1912.9	Very Low	Low	Ss.glau.
SWC 15	1921.0	Low	Moderate	Ss.glau.
SWC 14	1923.0	Low	Moderate	Ss.glau.
SWC 13	1925.0	Fair	Moderate	Ss.glau.
SWC 12	1927.0	Very Low	Low	Ss.
SWC 11	1928.0	Fair	Moderate	Ss.glau.
SWC 9	1935.0	Very Low	Low	Ss.
SWC 8	1937.0	Barren	-	Ss.
Core	1948.5	Fair	Moderate	Sh.
Core	1950.7	Fair	Moderate	Coal
Core	1954.5	Fair	High	Sh.
Core 2	1954.94	Good	High	Coal
Core 2	1959.9	Low	Low	Sh.
SWC 7	1972.5	Barren	-	Sltst.carb.

TABLE 2

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN

BASIC DATA

SWC 5	2002.0	Good	High	Mdst.
SWC 4	2008.0	Very Low	Low	Ss.carb.
SWC 3	2017.4	Good	Moderate	Slt.st.carb.
SWC 2	2029.0	Very Low	Low	Sltst.carb.
SWC 1	2042.4	Very Low	Low	Sltst.
Cts.	2065	Low	Low	sh.
SWC174	2077.0	Barren	-	Ss.carb.
Cts.	2095-100	Good	High	Coal
SWC171	2114.0	Low	Low	Sltst.
SWC170	2119.0	Low	Low	Sltst.
Cts.	2120-25	Moderate	High	Sh.
SWC169	2127.5	Low	Low	Sltst.
Cts.	2145-50	Fair	High	Coal
SWC167	2157.5	Very Low	Low	Ss.carb.
SWC164	2209.0	Barren	-	Ss.
SWC 163	2219.4-30	Barren	-	Ss.
Cts.	2280--85	Fair	Moderate	Coal
Cts.	2310-15	High	Moderate	Sh.
SWC158	2317.0	Fair	Low	Sh.
SWC156	2369.0	Barren	-	Ss.
SWC154	2416.5	Barren	-	Ss.
SWC110	2472.0	High	High	Ss.carb.
SWC108	2504.0	Fair	Moderate	Sltst.carb.

TABLE 2

SUMMARY OF PALYNOLOGICAL ANALYSIS, BREAM-5, GIPPSLAND BASIN

BASIC DATA

SWC107	2530.0	Good	Moderate	Sh.
SWC106	2551.0	Low	Moderate	Sltst.
SWC105	2566.0	Very Low	Low	Ss.carb.
Core 3	2568.0	Barren	-	Sh.
SWC104	2588.0	Good	High	Sh.
SWC103	2624.0	Fair	Moderate	Sh.
SWC101	2673.0	Fair	Low	Sltst.
SWC100	2687.0	Fair	Moderate	Sltst.
SWC150	2694.9	Barren	-	Ss.
SWC 99	2698.0	High	Moderate	Ss/sh.carb.
SWC 98	2727.5	Very Low	Low	Ss.carb.
SWC 97	2730.5	Barren	-	Ss.carb.
SWC 96	2740.4	Fair	High	Ss.carb.
SWC 146	2776.6	Very Low	Low	Sh.
SWC 92	2848.0	Very Low	Moderate	Sltst.
SWC142	3013.9	Very Low	Low	Sltst.
SWC141	3027.8	Very Low	Low	Sltst.carb.
SWC 78	3065.5	Fair	Moderate	Sltst.carb.
SWC 68	3194.0	Very Low	Low	Cly
SWC137	3196.0	Very Low	Low	Sltst.carb.
SWC 63	3225.0	Very Low	Low	Ss.
SWC 56	3284.0	Very Low	Moderate	Sltst.coaly
SWC 54	3305.0	Very Low	Moderate	Sltst.coaly
SWC 52	3320.0	Very Low	Moderate	Coal

SPORE-POLLEN

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 1 of 8

SAMPLE TYPE *	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	C	C		C	C	S
DEPTHS / PALYNOMORPHS	1840.0	1860.0	1865.0	1869.0	1873.0	1877.0	1881.0	1885.0	1889.0	1897.0	1900.9	1905.0	1909.0	1912.9	1921.0	1923.0	1925.0	1927.0	1928.0	1931.0	1935.0	1937.0	1948.5	1950.7	1954.5	1954.94	1959.9	1972.5
A. qualumis																												
A. acutullus																												
A. luteoides																												
A. oculatus																												
A. sectus																												
A. triplaxis																												
A. obscurus																												
B. disconformis				/																								
B. arcuatus											/		/				/				/							
B. elongatus																												
B. mutabilis																												
B. otwayensis																												
B. elegansiformis										/																/		
B. trigonalis																	/									X		
B. verrucosus																												
B. bombaxoides																												
B. emaciatus																												
C. bullatus																												
C. heskermensis															/													
C. horrendus																												
C. meleosus																												
C. apiculatus																												
C. leptos																												
C. striatus																												
C. vanraadshoovenii																												
C. orthoteichus/major					/			/							/	/			/								/	
C. annulatus	/	/	/																									
C gigantis																												
C. splendens							/	/								/												
D. australiensis			/		/							/	/															
D. granulatus				/										/		/												
D. tuberculatus				/											/											/		
D. delicatus												/			/													
D. semilunatus																												
E. notensis																												
E. crassiexinus																									/			
F. balteus						/	/						/															
F. crater				/																								
F. lucunosus				/																								
F. palaequetrus				/																								
G. edwardsii																												
G. rudata								R																				
G. divaricatus																												
G. gestus																												
G. catathus																												
G. cranwellae																									/			
G. wahooensis																												
G. bassensis																												
G. nebulosus																												
H. harrisii			X	X	/	/	▬	/	/	/	/	X	X	/	/	/	X	/	/	/	/	X	/	/	X	/	/	/	
H. astrus																												
H. elliottii				/											/													
I. anguloclavatus								/				/																
I. antipodus																												
I. notabilis																												
I. gremius		/			/	/		/				/																
I. irregularis				/								/							/									
J. peiratus																												
K. waterbolkii				/				/																				
L. amplus																												
L. crassus												/																
L. ohaiensis																												
L. bainii																												
L. lanceolatus																												
L. balmei																												
L. florinii		/	/	/	/		/		/			/		/	/	/					/			/	/	/		
M. diversus									/						/										/	/		
M. duratus																									/			
M. grandis																												
M. perimagnus																												

*C= core; S= sidewall core; T= cuttings.

R = contamination or reworked

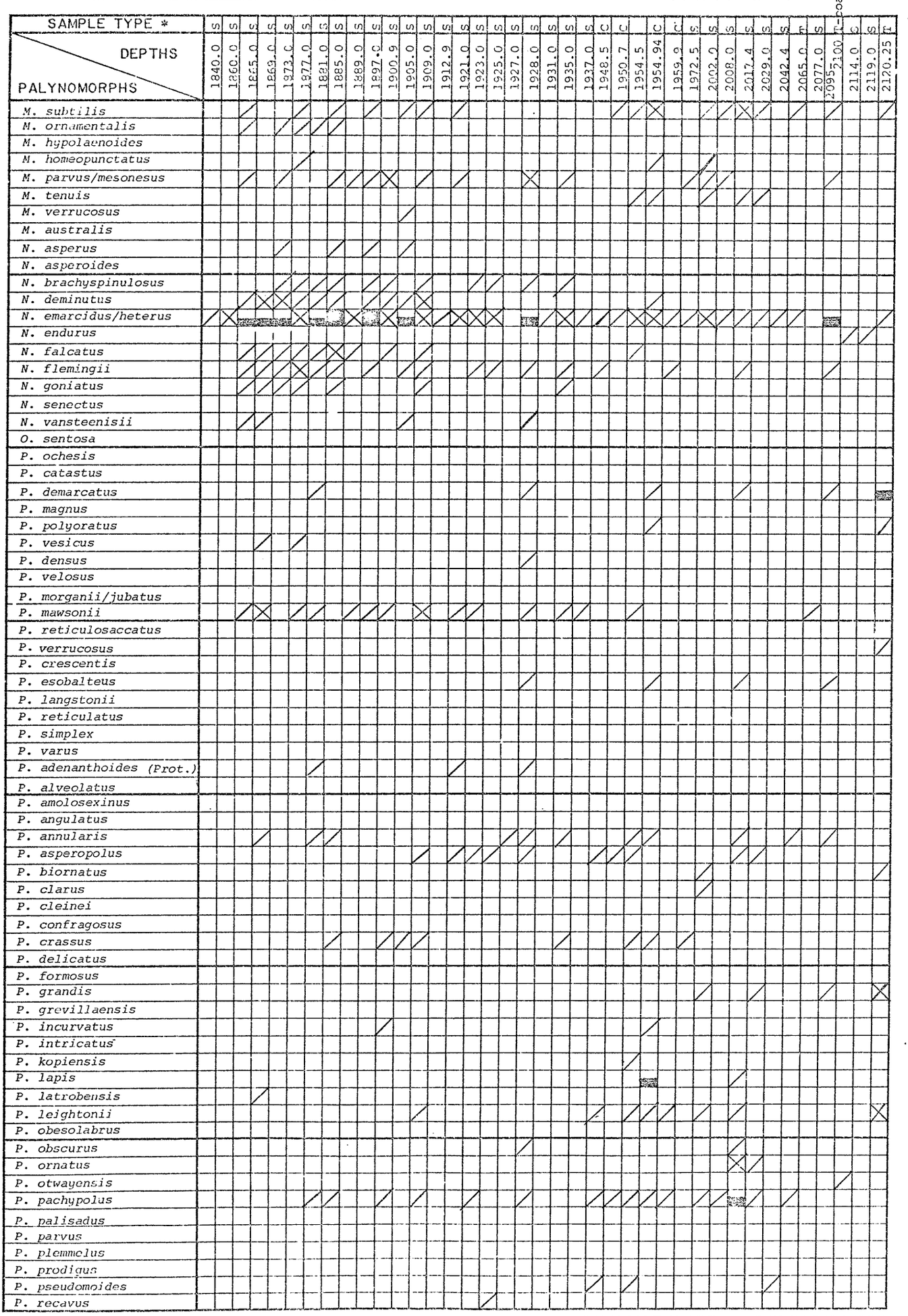
/ = rare

X = frequent

▬ = common

▬ = abundant to dominant

Well Name BREAM-5 Basin GIPPSLAND Sheet No 2 of 8



* C=core: S=sidewall core: T=cutting

MISC.PALY.DIST.CHART DWG.1107/OP/227

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 3 of 8.

SAMPLE TYPE *	1840.0 S	1860.0 S	1865.0 S	1869.0 S	1873.0 S	1877.0 S	1881.0 S	1885.0 S	1893.0 S	1897.0 S	1900.3 S	1905.0 S	1909.0 S	1912.9 S	1921.0 S	1923.0 S	1925.0 S	1927.0 S	1928.0 S	1931.0 S	1935.0 S	1937.0 S	1948.5 C	1950.7 C	1954.5	1954.94C	1959.9 C	1972.5 S
DEPTHS / PALYNOMORPHS																											
P. rectomarginis			/	/			/																				
P. reflexus																/											
P. reticulatus							/			/		/					/										
P. reticuloconcavus																					/						
P. reticuloscabratus																							/				
P. rugulatus																											
P. scitus																											
P. stipplatus																											
P. tenuiexinus																											
P. truncatus				/																							
P. tuberculatus																											
P. tuberculiformis																									/		
P. tuberculotumulatus																											
P. xestoformis (Prot.)																											
Q. brossus																											
R. boxatus																											
R. stellatus																											
R. mallatus				/																							
R. trophus													/														
S. cainozoicus																/						/		/	/		
S. rotundus																						/					
S. digitatoides																											
S. marlinensis																											
S. rarus																											
S. meridianus																	/		/								
S. prominatus																							/				
S. uvatus																											
S. punctatus										/			/		/												
S. regium																											
T. multistrixus (CP4)																											
T. textus																											
T. verrucosus																											
T. securus																											
T. confessus (C3)																											
T. gillii																											
T. incisus																											
T. longus																											
T. phillipsii																											
T. renmarkensis																											
T. sabulosus																											
T. simatus								/																			
T. thomasii																											
T. waiparaensis																											
T. adelaidensis (CP3)															/								/	/			
T. angurium																											
T. delicatus																											
T. geraniodes																											
T. leuros																											
T. lilliei																											
T. marginatus																											
T. moultonii																											
T. paenestriatus																											
T. retequetrus																											
T. scabratus																											
T. sphaerica																		/									
T. magnificus (P3)												/															
T. spinosus																											
T. ambiguus							/					/							/								
T. chnosus																											
T. helosus																								/	/		
T. scabratus																					/						
T. sectilis																											
V. attinatus																											
V. cristatus																											
V. kopukuensis			/	/	/		/	/		/			/					/									

*C= core; S= sidewall core; T= cuttings.

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 4 of 8

SAMPLE TYPE *	S	S	S	S	S	T	S	T-coal	S	S	T	S	T-coal	S	T	T	T	T	S	S	S	S	S	S	S	S	S
DEPTHS / PALYNOMORPHS	2002.0	2008.0	2017.4	2029.0	2042.4	2065.0	2077.0	2095-2100	2114.0	2119.0	2120-25	2127.5	2145-50	2157.5	2170-75	2225-30	2280-85	2310-15	2317.0	2472.0	2504.0	2530.0	2551.0	2556.0	2588.0	2624.0	2673.0	2687.0
A. qualumis																												
A. acutullus																												
A. luteoides	/																											
A. oculatus																												
A. sectus																												
A. triplaxis																												
A. obscurus																	/			X	X			/	X	X		X
B. disconformis																												
B. arcuatus			/																									
B. elongatus																												
B. mutabilis																							/					
B. otwayensis																				/						/		/
B. elegansiformis													/															
B. trigonalis																												
B. verrucosus																												
B. bombaxoides																												
B. emaciatus																												
C. bullatus																												
C. heskermensis																												
C. horrendus																				/			/			/		
C. meleosus																												
C. apiculatus																												
C. leptos																												
C. striatus																												
C. vanraadshoovenii																												
C. orthoteichus/major	X		X	/		/					/																	
C. annulatus																												
C. gigantis																												
C. splendens	/	/	/		/						/									/			/	/	/	/		/
D. australiensis																										/		
D. granulatus											/				/					/	/		/	/	/			/
D. tuberculatus				/											/													
D. delicatus	/																											
D. semilunatus			/																									
E. notensis											/																	
E. crassiexinus																												
F. balteus																												
F. crater																												
F. lucunosus																												
F. palaequetrus			/																									
G. edwardsii																				/						/		/
G. rudata									/	/		/					/	/		/	/	/				/	/	/
G. divaricatus																												
G. gestus																												
G. catathus																												
G. cranwellae																				/						/		
G. wahooensis																												
G. bassensis																												
G. nebulosus																												
H. harrisii	X		/	/	X	▬		▬			/		/		X	/	/	/		/	/		/				/	/
H. astrus																												
H. elliottii									/	/	/		/					/			/			/	/			
I. anguloclavatus								/					/		/													
I. antipodus																												/
I. notabilis			/					/																				
I. gremius																												
I. irregularis																												
J. peiratus																												
K. waterbolkii																												
L. amplus												/							/									
L. crassus																			/									/
L. ohaiensis									/	/								/					/				
L. bainii																												
L. lanceolatus	/							/		/		/																
L. balmei										/					/	▬	/		▬	X	X	X	/	/	/		/	
L. florinii								/		/										/		\						/
M. diversus					/		/	X		/		/		/														
M. duratus																												
M. grandis																												
M. perimagnus																												

*C= core; S= sidewall core; T= cuttings.

Well Name BREAM-5 Basin GIPPSLAND Sheet No 5 of 8

PALYNOMORPHS \ DEPTHS	2127.5	2145-50	2157.5	2170-75	2225-30	2280-85	2310-15	2317.0	2472.0	2504.0	2530.0	2551.0	2556.0	2588.0	2624.0	2673.0	2687.0	2698.0	2727.0	2740.4	2776.6	2849.0	3013.9	3065.6	3194.0	3196.0	3225.0	3284.0	3305.0	3320.0
SAMPLE TYPE *	S	T (coal)	S	T	T	T	T	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
M. subtilis		/		/		/																							R	R
M. ornamentalis																														
M. hypolaenoides																														
M. homeopunctatus																														
M. parvus/mesonesus																														
M. tenuis																														
M. verrucosus																														
M. australis																														
N. asperus																														
N. asperoides																														
N. brachyspinulosus													/		/	/				/	/	/			/					/
N. deminutus																														
N. emarcidus/heterus		/		/			/		/	/						/	/					/				/				/
N. endurus	X				/		■	/	■	/	/				/	/	X	/	/	X	/		/		/	X		/	X	X
N. falcatus																														
N. flemingii							/		/																					
N. goniatus																														
N. senectus																							/							
N. vansteenisii																														
O. sentosa																														
P. ochesis																														
P. catastus																														
P. demarcatus		/							/					/																
P. magnus																														
P. polyoratus				/					/			/		/	/		/													
P. vesicus																														
P. densus																														
P. velosus																														
P. morganii/jubatus																														
P. mawsonii	/	■		/		X	■	/	/		X	/	/	X	/		X	■		■	X	X	/	/	/	/	/	/	X	/
P. reticulosaccatus																														
P. verrucosus															/															
P. crescentis																														
P. esobalteus																														
P. langstonii									/		/																			
P. reticulatus																														
P. simplex																														
P. varus																														
P. adenanthoides (Prot.)		/				/																								
P. alveolatus																														
P. amolosexinus																								/						
P. angulatus																														
P. annularis				/		/																								
P. asperopolus																														
P. biornatus																														
P. clarus																														
P. cleinei																					/									
P. confragosus																														
P. crassus																														
P. delicatus																														
P. formosus																														
P. grandis		X		X																										
P. grevillaensis																														
P. incurvatus																														
P. intricatus																														
P. kopiensis																														
P. lapis		/		/																										
P. latrobensis																														
P. leightonii																														
P. obesolabrus																														
P. obscurus																														
P. ornatus																														
P. otwayensis	/																				/			/				/		
P. pachypolus																														
P. palisadus																							/		/					
P. parvus																														
P. plemmelus																														
P. prodigus															/															
P. pseudomoides																														
P. recavus																														

* C=core: S=sidewall core: T=cutting

MISC.PALY.DIST.CHART DWG.1107/OP/227

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 6 of 8

SAMPLE TYPE *	S	S	S	S	S	T	S	T-coal	S	S	T	S	T-coal	S	T	T	T	T	S	S	S	S	S	S	S	S	S	S
DEPTHS / PALYNOMORPHS	2002.0	2008.0	2017.4	2020.0	2042.4	2065.0	2077.0	2095-2100	2114.0	2119.0	2120-25	2127.5	2145-50	2157.5	2170-75	2225-30	2280-85	2310-15	2317.0	2472.0	2504.0	2530.0	2551.0	2556.0	2588.0	2624.0	2673.0	2687.0
P. rectomarginis																												
P. reflexus																												
P. reticulatus																												
P. reticuloconcavus																												
P. reticuloscabratus																												
P. rugulatus																												
P. scitus																												
P. stipplatus																												
P. tenuiexinus																												
P. truncatus																												
P. tuberculatus																												
P. tuberculiformis																												
P. tuberculotumulatus																												
P. xestoformis (Prot.)																												
Q. brossus																												
R. boxatus																												
R. stellatus																												
R. mallatus																												
R. trophus																												
S. cainozoicus																												
S. rotundus																												
S. digitatoides																												
S. marlinensis																												
S. rarus																												
S. meridianus																												
S. prominatus																												
S. uvatus																												
S. punctatus																												
S. regium																												
T. multistrixus (CP4)																												
T. textus																												
T. verrucosus																												
T. securus																												
T. confessus (C3)																												
T. gillii																												
T. incisus																												
T. longus																												
T. phillipsii																		R										
T. renmarkensis																												
T. sabulosus																												
T. simatus																												
T. thomasii																												
T. waiparaensis																												
T. adelaidensis (CP3)																												
T. angurium																												
T. delicatus																												
T. geraniodes																												
T. leuros																												
T. lilliei																												
T. marginatus																												
T. moultonii																												
T. paenestriatus																												
T. retequetrus																												
T. scabratus																												
T. sphaerica																												
T. magnificus (P3)																												
T. spinosus																												
T. ambiguus																												
T. chnosus																												
T. helosus																												
T. scabratus																												
T. sectilis																												
V. attinatus																												
V. cristatus																												
V. kopukuensis																												

*C=core; S=sidewall core; T=cuttings.

Well Name BREAM-5 Basin GIPPSLAND Sheet No. 7 of 8

SAMPLE TYPE *	S	S	S	S	S	S	S	S	S	S	S	S	S	S
DEPTHS / PALYNOMORPHS	2698.0	2727.5	2740.4	2776.6	2848.0	3013.9	3065.6	3194.0	3196.0	3225.0	3284.0	3305.0	3320.0	
A. qualumis														
A. acutullus														
A. luteoides														
A. oculatus														
A. sectus														
A. triplaxis														
A. obscurus	/													
B. disconformis														
B. arcuatus														
B. elongatus														
B. mutabilis									/					
B. otwayensis														
B. elegansiformis														
B. trigonalis														
B. verrucosus														
B. bombaxoides														
B. cinaciatus														
C. bullatus														
C. heskermensis	/		/			/	/	/						
C. horrendus	/		/											
C. meleosus														
C. apiculatus														
C. leptos														
C. striatus														
C. vanraadshoovenii														
C. orthoteichus/major														
C. annulatus														
C. gigantis														
C. splendens				/										
D. australiensis													/	
D. granulatus								/						
D. tuberculatus										/				
D. delicatus														
D. semilunatus														
E. notensis														
E. crassiexinus														
F. balteus														
F. crater														
F. lucunosus														
F. palaequetrus														
G. edwardsii			/								/			
G. rudata	/		/	/	X	/	/	/	/		/	/	/	
G. divaricatus														
G. gestus														
G. catathus														
G. cranwellae														
G. wahooensis			/											
G. bassensis														
G. nebulosus														
H. harrisii			/									R		
H. astrus														
H. elliottii	/		/		/				/					
I. anguloclavatus														
I. antipodus														
I. notabilis														
I. gremius														
I. irregularis														
J. peiratus														
K. waterbolkii														
L. amplus			X		/	/		/	/		/		/	
L. crassus									/					
L. ohaiensis			/		/									
L. bainii														
L. lanceolatus														
L. balmei	/				/	/	/			X				
L. florinii													/	
M. diversus														
M. duratus														
M. grandis														
M. perimagnus														

*C= core; S= sidewall core; T= cuttings.

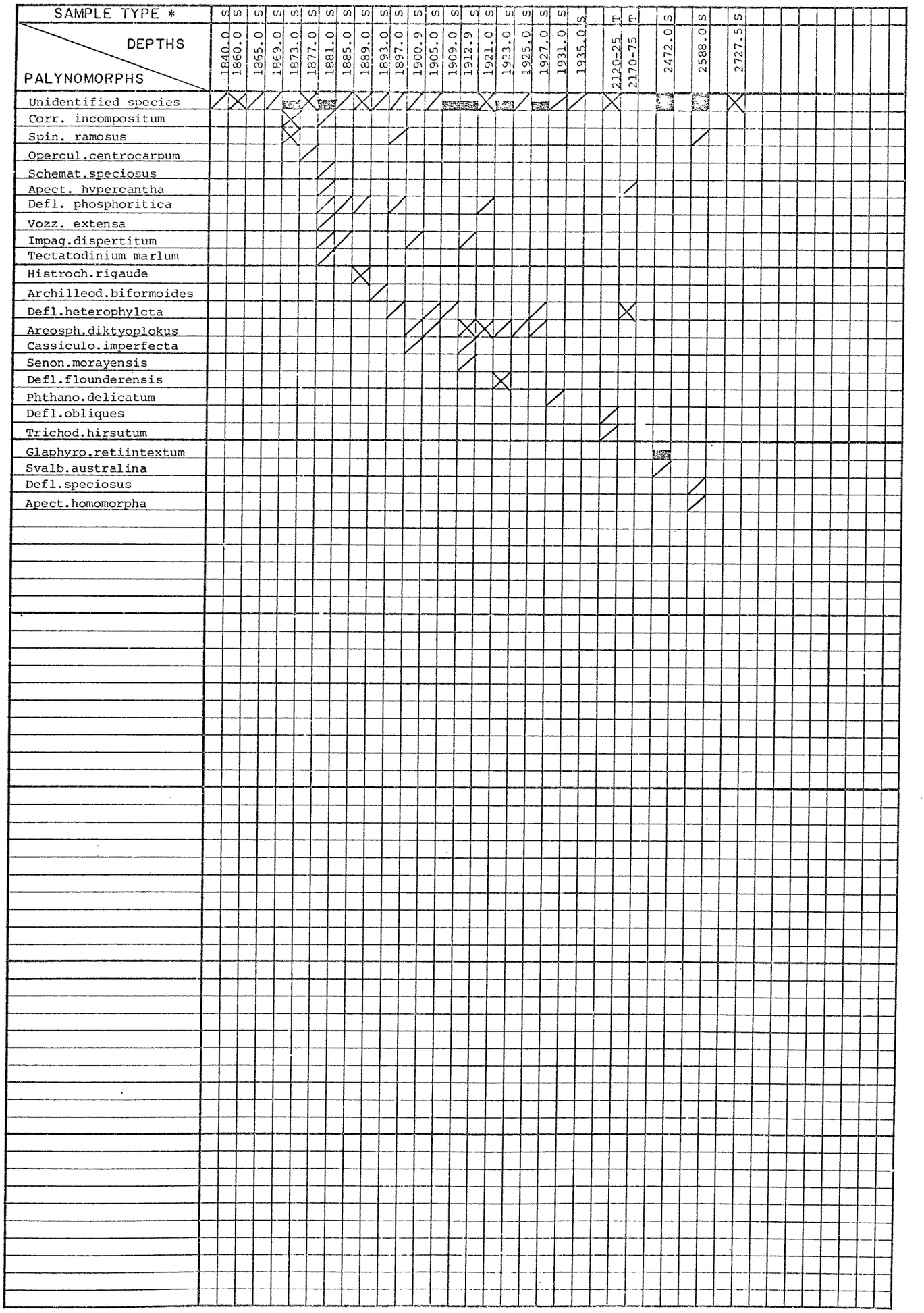
Well Name BREAM-5 Basin GIPPSLAND Sheet No. 8 of 8

SAMPLE TYPE *	S	S	S	S	S	S	S	S	S	S	S	S	S	S
DEPTHS / PALYNOMORPHS	2698.0	2727.5	2740.4	2776.6	2848.0	3013.9	3065.6	3194.0	3196.0	3225.0	3284.0	3305.0	3320.0	
P. rectomarginis														
P. reflexus														
P. reticulatus														
P. reticuloconcavus						/								
P. reticuloscabratus														
P. rugulatus														
P. scitus														
P. stipplatus														
P. tenuiexinus														
P. truncatus														
P. tuberculatus														
P. tuberculiformis														
P. tuberculotumulatus														
P. xestoformis (Prot.)														
Q. brossus														
R. boxatus														
R. stellatus														
R. mallatus														
R. trophus														
S. cainozoicus														
S. rotundus														
S. digitatoides														
S. marlinensis														
S. rarus														
S. meridianus														
S. prominatus														
S. uvatus														
S. punctatus														
S. regium	X													
T. multistrixus (CP4)														
T. textus														
T. verrucosus	/						/				/	/		
T. securus														
T. confessus (C3)			/	/			/	/	/				/	
T. gillii	/		/	/		/	/	/	/			/	/	
T. incisus														
T. longus											/			
T. phillipsii														
T. renmarkensis														
T. sabulosus														
T. simatus														
T. thomasii														
T. waiparaensis			/		/		/					/		
T. adelaidensis (CP3)														
T. angurium														
T. delicatus														
T. geraniodes														
T. leuros														
T. lilliei			/		/			/			/		/	
T. marginatus														
T. moultonii														
T. paenestriatus														
T. retequetrus														
T. scabratus														
T. sphaerica														
T. magnificus (P3)														
T. spinosus														
T. ambiguus														
T. chnosus														
T. helosus														
T. scabratus														
T. sectilis		/	/	/		/	/	/		/		/		
V. attinatus														
V. cristatus														
V. kopukuensis														

*C = core; S = sidewall core; T = cuttings.

DINOFLAGELLATES

Well Name BREAM-5 Basin GIPPSLAND Sheet No 1 of 1



* C=core; S=sidewall core; T=cutting

MISC.PALY.DIST.CHART DWG.1107/OP/227

PE902634

This is an enclosure indicator page.
The enclosure PE902634 is enclosed within the container PE902630 at this location in this document.

The enclosure PE902634 has the following characteristics:

ITEM_BARCODE	= PE902634
CONTAINER_BARCODE	= PE902630
NAME	= Palynological Analysis
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= DIAGRAM
DESCRIPTION	= Palynological Analysis (from WCR) for Bream-5
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 25/01/1985
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 3

APPENDIX 3

QUANTITATIVE LOG ANALYSIS

BREAM #5

QUANTITIVE LOG ANALYSIS

The Bream #5 wireline log data has been analysed to provide effective porosity, clay volume, water saturation, Sxo, and hydrocarbon volume data for the interval 1900m - 3300m. Drilling history, mud log data, and wireline formation test data have indicated hydrocarbon accumulations at the top of Latrobe (1933m - 1952m) and intra-Latrobe below 2477m.

Porosities and water saturations were calculated by an iterative technique which converged on a calculated grain density window of 2.65 - 2.67 gm/cc by appropriately incrementing Vcl. The initial Vcl was derived from the GR log, and porosities by crossplotting neutron and density logs and then correcting for clay and hydrocarbon effects. Saturations were computed from the Indonesian Shaly sand relationship. Below 3000m the density log tended to read too low as a result of bad hole conditions. For this interval, sonic porosities were calculated and normalised to density/neutron porosities in non-washed-out hole sections. The minimum of the neutron/density porosity and the normalised sonic porosity was then taken as being the best estimate of porosity below 3000m.

Logs Used

LLD, LLS, MSFL, GR, RHOB, CNL, SONIC, Caliper.
The LLD, LLS, MSFL and CNL logs were all corrected for borehole and environmental effects. An RT "log" was then derived by correcting the LLD for invasion effects.

Analysis Parameters

Apparent shale density and neutron porosity values were derived from density neutron cross plots (Figures #1 & #2) a and m values were derived by plotting log RT versus log Porosity (Pickett plot - Figures #3 & #4).

	1930-1980m	1980-2400m	2400-2650m	2650m-T.D.
a	0.65	-	1.00	1.000
m	2.15	-	2.00	2.014
N	2.00	-	2.00	2.000
Gamma Ray Minimum	20.00	20.00	20.00	20.000
Gamma Ray Maximum	150.00	150.00	145.00	145.000
Apparent Shale Density	2.53	2.60	2.62	2.620
Apparent Shale Neutron Porosity	0.32	0.31	0.31	0.310
Apparent Shale Resistivity	10.00	10.00	10.00	10.000
Formation Water Salinity	28000.00	28000.00	28000.00	28000.000

Saturations were not calculated for the interval 1980-2400m on the basis that no hydrocarbons were present in the interval.

Discussion and Results

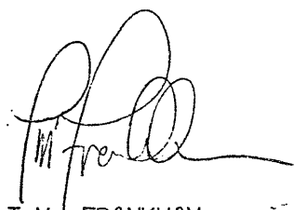
Calculated results are presented in the form of a clay, porosity and hydrocarbon fraction of total volume versus depth plot and in the form of a depth, Vcl, Sw, Sxo, porosity and hydrocarbon volume listing at 0.25m increments.

Coals and coal rich shale sequences were set to a bulk density value of 1 gm/cc. In these zones Vcl output was set to 0 and porosity to 0.

In the top of Latrobe hydrocarbon accumulation, RFT sampling has proved low gas at 1937m KB, high oil at 1940m KB and low proved oil at 1951.5 m KB. The log analysis calculates minor hydrocarbons in the top of the next sand below low proved oil, however it is believed that this is due to the failure of the LLD to give correct values in the 0-1.5 ohm.m range in this environment (c.f. Bream #4A where the LLD read 1.5 ohm.m in good porosity water sands where the ILD was reading in the order of 1 ohm.m). The sands below 1965m are believed to be water wet.

Resistivities and hence hydrocarbon saturations are lower in the top of Latrobe gas zone than might be expected. However the formation here is rather shaly - as evidenced by the lack of significant crossover of the density neutron logs. This shaly character will significantly increase irreducible water saturation over that of the cleaner, underlying oil sand.

Intra-Latrobe hydrocarbons are first encountered in the two small gas sands at 2477m and 2488m. These are underlain by an oil bearing sand with an oil water contact at 2498m. Minor hydrocarbons, presumably residual are calculated in sands below this to 2550m. The sand from 2556m to 2563m is gas bearing. Below this the sands again contain residual hydrocarbons as far as a gas bearing sand occuring between 2659m and 2666m. Minor hydrocarbon saturations occur in the sands below this, with oil recovered from a sand at 2692.5m. Good hydrocarbon saturations can be derived for sands occurring in the interval 2810m to 2980m, and gas has been recovered on test from a number of these. Below 3000m calculated porosities are of dubious validity owing to poor hole conditions adversly affecting the density log. However sand porosities appear to be in the 5-10% range. Log analysis does indicate hydrocarbon saturations; however at these low porosities, significant errors are inherent in the saturation relationship, a factor further complicated in this case by the lack of accuracy in calculated porosities. Irrespective of hydrocarbon presence, the interval below 3000m must be considered non net on the basis of lack of porosity.

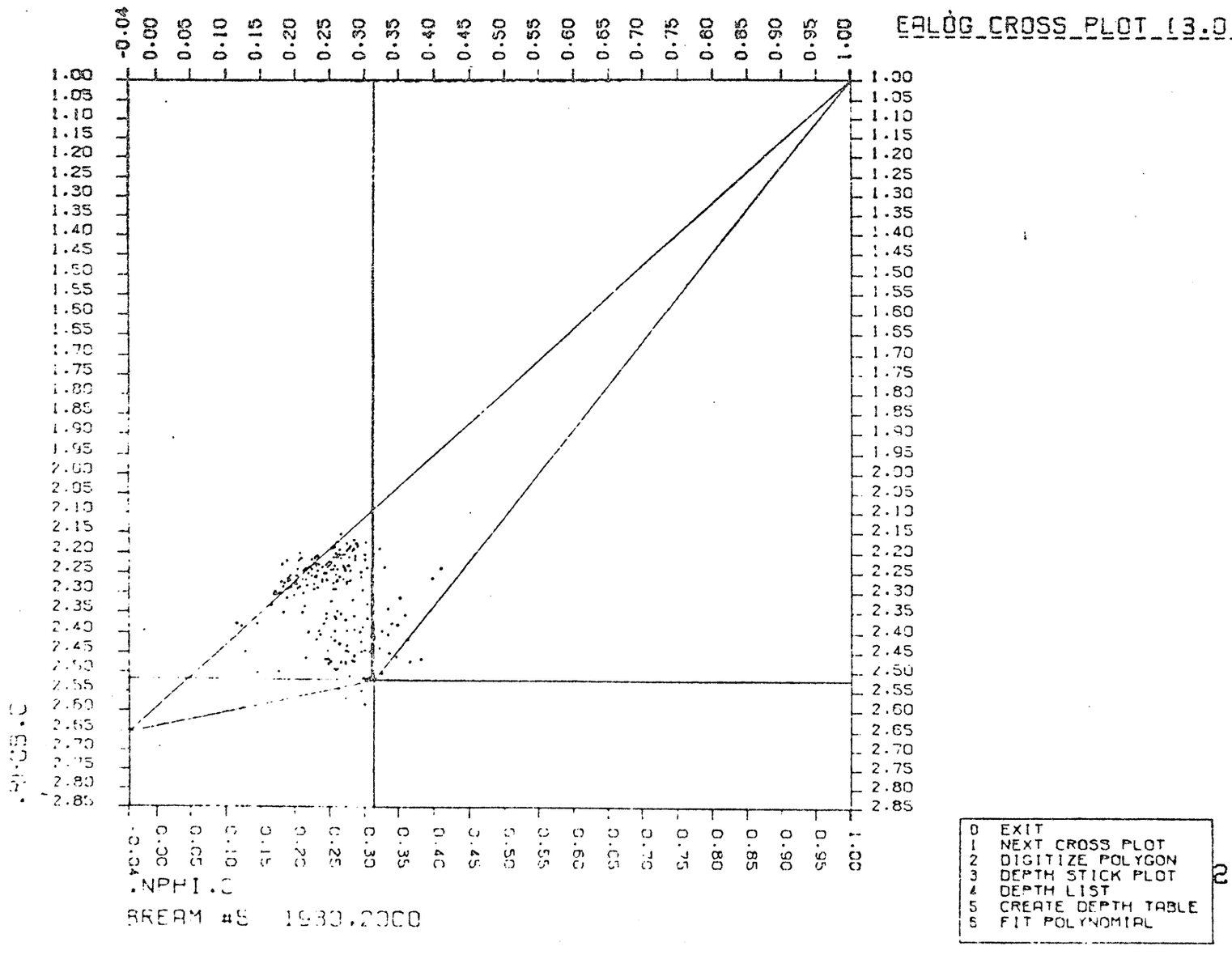


T.M. FRANKHAM
December 1982

01731/63

NET TO GROSS SUMMARY

Interval mKB	Assuming 10% Net/gross cut off		Assuming 15% Net/gross cut off	
	Net to gross	Average Porosity of net interval	Net to gross	Average porosity of net interval
1933-1939	84%	16%	52%	18%
1939-1952	72%	18%	59%	20%
2470-2570	29%	14%	13%	17%
2650-2800	29%	13%	5%	18%
2800-3000	12%	13%	2.5%	16%
	Average Sw of net interval	Average Hydrocarbon volume of net interval	Average Sw of net interval	Average Hydrocarbon volume of net interval
1933-1939	60%	6.9%	54%	8.6%
1939-1952	45%	10.5%	37%	12.2%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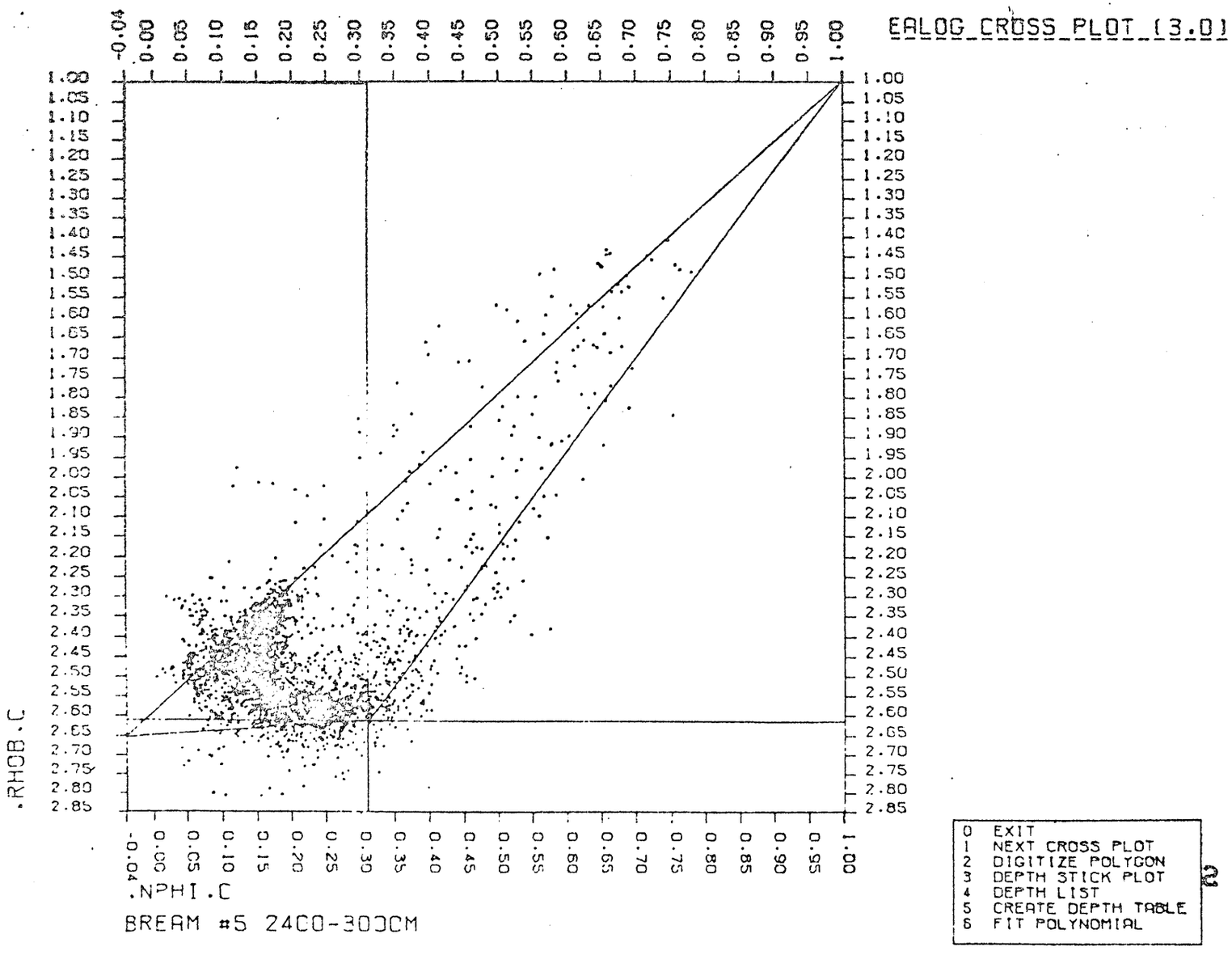
1.00 1.05 1.10 1.15 1.20 1.25 1.30 1.35 1.40 1.45 1.50 1.55 1.60 1.65 1.70 1.75 1.80 1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.25 2.30 2.35 2.40 2.45 2.50 2.55 2.60 2.65 2.70 2.75 2.80 2.85
.NPHI.0
BREAM #8 1930.2000
0 EXIT
1 NEXT CROSS PLOT
2 DIGITIZE POLYGON
3 DEPTH STICK PLOT
4 DEPTH LIST
5 CREATE DEPTH TABLE
6 FIT POLYNOMIAL

FIGURE 1.


EALOG CROSS PLOT (3.0)
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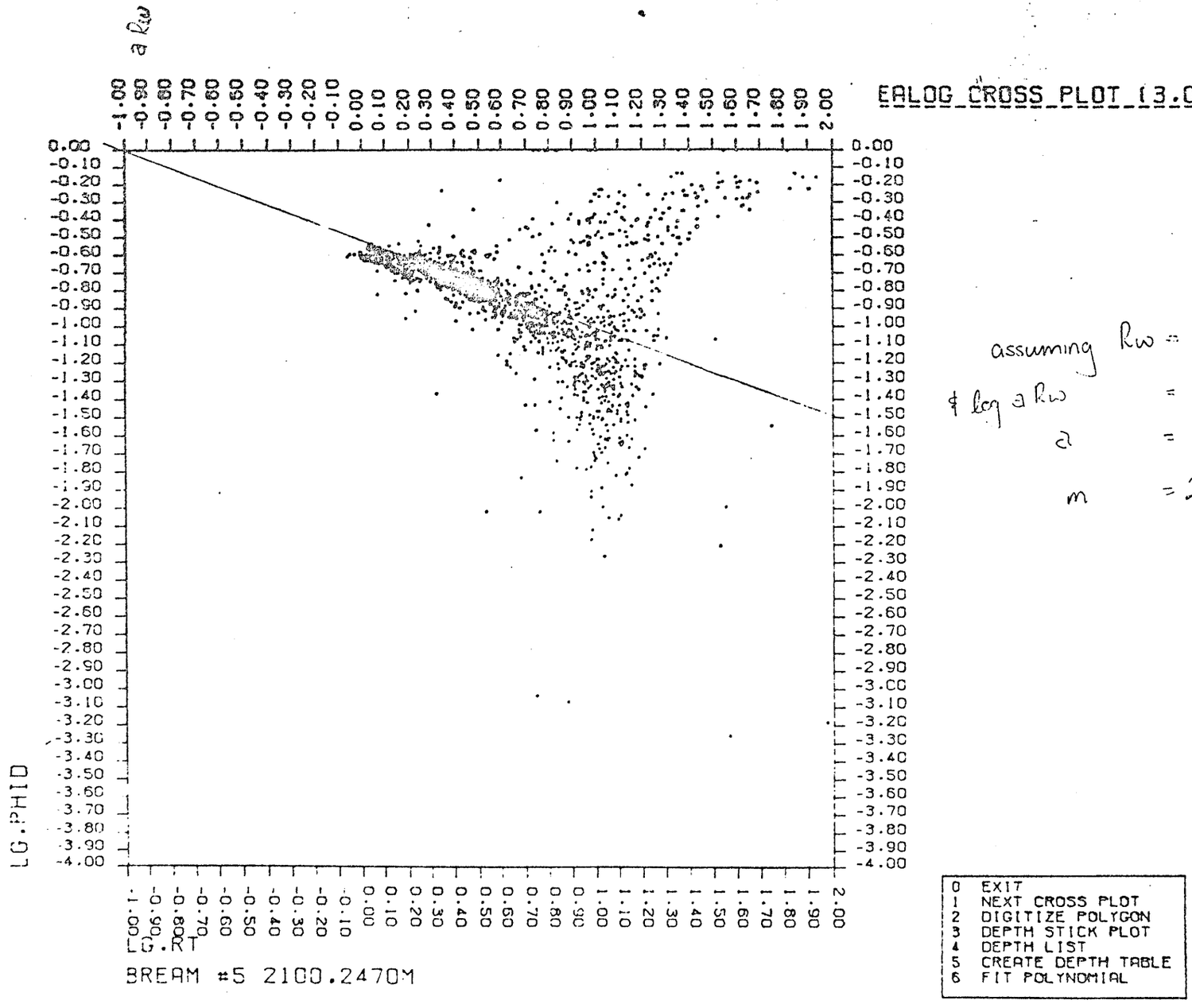
1.00 1.05 1.10 1.15 1.20 1.25 1.30 1.35 1.40 1.45 1.50 1.55 1.60 1.65 1.70 1.75 1.80 1.85 1.90 1.95 2.00 2.05 2.10 2.15 2.20 2.25 2.30 2.35 2.40 2.45 2.50 2.55 2.60 2.65 2.70 2.75 2.80 2.85
.RHOB.C
.NPHI.C
BREAM #5 2400-3000M
0 EXIT
1 NEXT CROSS PLOT
2 DIGITIZE POLYGON
3 DEPTH STICK PLOT
4 DEPTH LIST
5 CREATE DEPTH TABLE
6 FIT POLYNOMIAL

FIGURE 2.



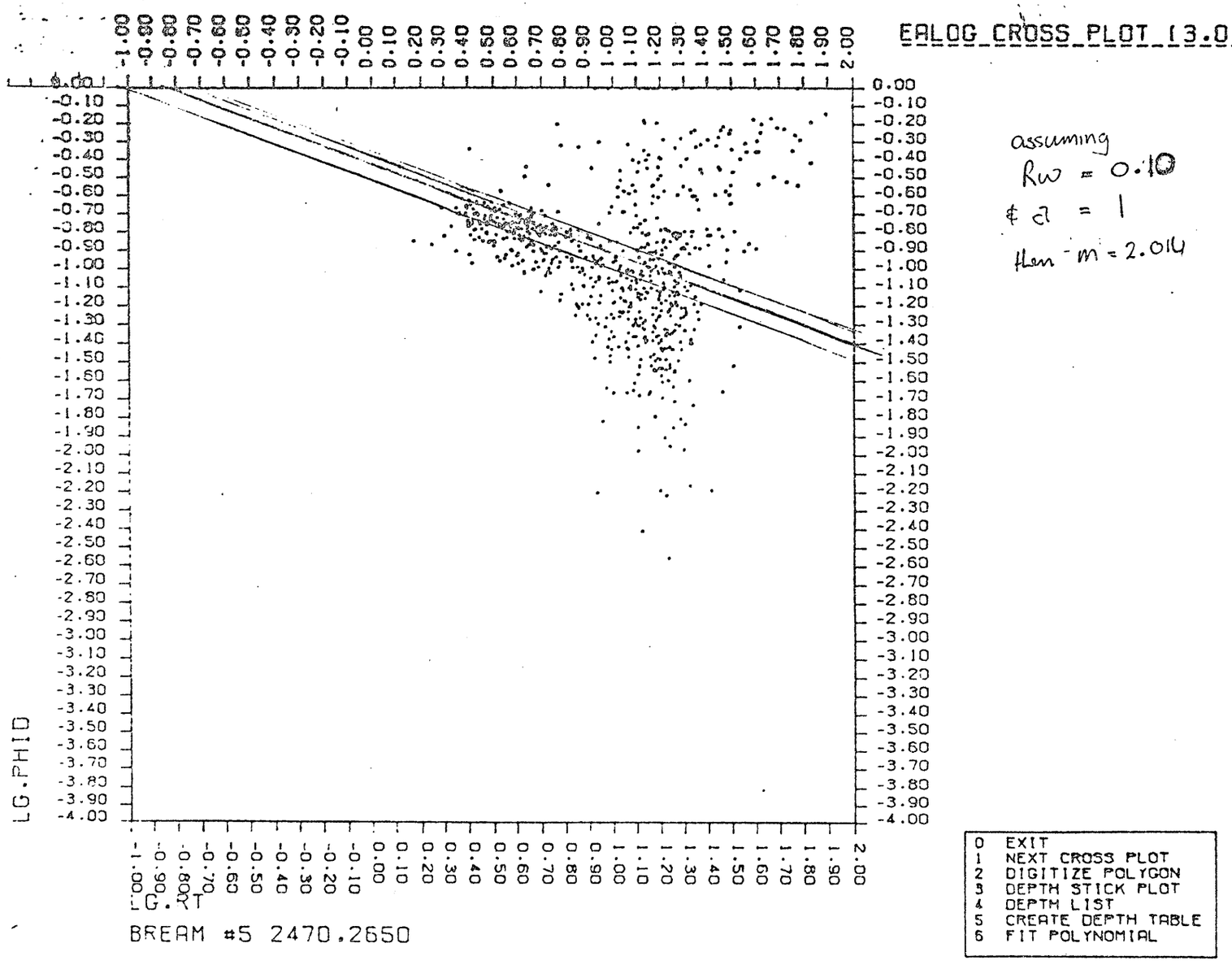
assuming $R_w = .1$

& $\log a R_w = -.1$

$a = 1$

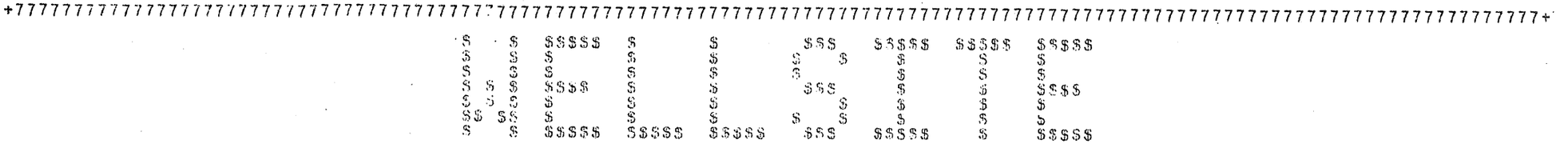
$m = 2$

FIGURE 3.



assuming
$R_w = 0.10$
$\phi_a = 1$
Hen - $m = 2.014$

FIGURE 4.



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/DELETE

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ENQUEUED: 7-DEC-82 10:52:08
PRINTING: 7-DEC-82 10:59:22

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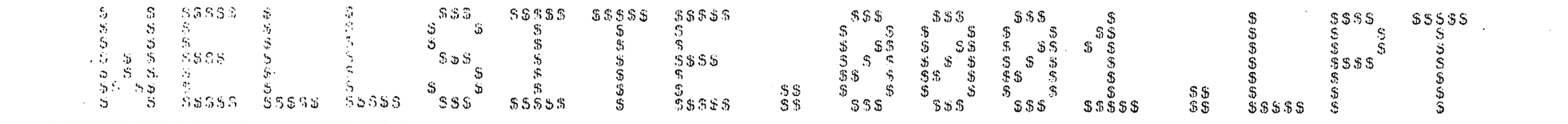

.AOS REV 4.10

AOS REV 04.10
AOS XLPT REV 04.10

1 BREAK #5

DEPTH	VCL	SXO	Sw	PHI	HC.VOL
1900.000	.000	1.000	*********	*********	*********
1900.250	.000	1.000	*********	*********	*********
1900.500	.000	1.000	*********	*********	*********
1900.750	.000	1.000	*********	*********	*********
1901.000	.000	1.000	*********	*********	*********
1901.250	.000	1.000	*********	*********	*********
1901.500	.000	1.000	*********	*********	*********
1901.750	.000	1.000	*********	*********	*********
1902.000	.000	1.000	*********	*********	*********
1902.250	.000	1.000	*********	*********	*********
1902.500	.000	1.000	*********	*********	*********
1902.750	.000	1.000	*********	*********	*********
1903.000	.000	1.000	*********	*********	*********
1903.250	.000	1.000	*********	*********	*********
1903.500	.000	1.000	*********	*********	*********
1903.750	.000	1.000	*********	*********	*********
1904.000	.000	1.000	*********	*********	*********
1904.250	.000	1.000	*********	*********	*********
1904.500	.000	1.000	*********	*********	*********
1904.750	.000	1.000	*********	*********	*********
1905.000	.000	1.000	*********	*********	*********
1905.250	.000	1.000	*********	*********	*********
1905.500	.000	1.000	*********	*********	*********
1905.750	.000	1.000	*********	*********	*********
1906.000	.000	1.000	*********	*********	*********
1906.250	.000	1.000	*********	*********	*********
1906.500	.000	1.000	*********	*********	*********
1906.750	.000	1.000	*********	*********	*********
1907.000	.000	1.000	*********	*********	*********
1907.250	.000	1.000	*********	*********	*********
1907.500	.000	1.000	*********	*********	*********
1907.750	.000	1.000	*********	*********	*********
1908.000	.000	1.000	*********	*********	*********
1908.250	.000	1.000	*********	*********	*********
1908.500	.000	1.000	*********	*********	*********
1908.750	.000	1.000	*********	*********	*********
1909.000	.000	1.000	*********	*********	*********
1909.250	.000	1.000	*********	*********	*********
1909.500	.000	1.000	*********	*********	*********
1909.750	.000	1.000	*********	*********	*********
1910.000	.000	1.000	*********	*********	*********
1910.250	.000	1.000	*********	*********	*********
1910.500	.000	1.000	*********	*********	*********
1910.750	.000	1.000	*********	*********	*********
1911.000	.000	1.000	*********	*********	*********
1911.250	.000	1.000	*********	*********	*********
1911.500	.000	1.000	*********	*********	*********
1911.750	.000	1.000	*********	*********	*********
1912.000	.000	1.000	*********	*********	*********
1912.250	.000	1.000	*********	*********	*********
1912.500	.000	1.000	*********	*********	*********
1912.750	.000	1.000	*********	*********	*********
1913.000	.000	1.000	*********	*********	*********
1913.250	.000	1.000	*********	*********	*********
1913.500	.000	1.000	*********	*********	*********
1913.750	.000	1.000	*********	*********	*********

1 BREAK #5

DEPTH	VCL	SXO	Sw	PHI	HC.VOL
1914.000	.000	1.000	*********	*********	*********
1914.250	.000	1.000	*********	*********	*********
1914.500	.000	1.000	*********	*********	*********

1914.750	.000	1.000	*********	*********	*********
1915.000	.000	1.000	*********	*********	*********
1915.250	.000	1.000	*********	*********	*********
1915.500	.000	1.000	*********	*********	*********
1915.750	.000	1.000	*********	*********	*********
1916.000	.000	1.000	*********	*********	*********
1916.250	.000	1.000	*********	*********	*********
1916.500	.000	1.000	*********	*********	*********
1916.750	.000	1.000	*********	*********	*********
1917.000	.000	1.000	*********	*********	*********
1917.250	.000	1.000	*********	*********	*********
1917.500	.000	1.000	*********	*********	*********
1917.750	.000	1.000	*********	*********	*********
1918.000	.000	1.000	*********	*********	*********
1918.250	.000	1.000	*********	*********	*********
1918.500	.000	1.000	*********	*********	*********
1918.750	.000	1.000	*********	*********	*********
1919.000	.000	1.000	*********	*********	*********
1919.250	.000	1.000	*********	*********	*********
1919.500	.000	1.000	*********	*********	*********
1919.750	.000	1.000	*********	*********	*********
1920.000	.000	1.000	*********	*********	*********
1920.250	.000	1.000	*********	*********	*********
1920.500	.000	1.000	*********	*********	*********
1920.750	.000	1.000	*********	*********	*********
1921.000	.000	1.000	*********	*********	*********
1921.250	.000	1.000	*********	*********	*********
1921.500	.000	1.000	*********	*********	*********
1921.750	.000	1.000	*********	*********	*********
1922.000	.000	1.000	*********	*********	*********
1922.250	.000	1.000	*********	*********	*********
1922.500	.000	1.000	*********	*********	*********
1922.750	.000	1.000	*********	*********	*********
1923.000	.000	1.000	*********	*********	*********
1923.250	.000	1.000	*********	*********	*********
1923.500	.000	1.000	*********	*********	*********
1923.750	.000	1.000	*********	*********	*********
1924.000	.000	1.000	*********	*********	*********
1924.250	.000	1.000	*********	*********	*********
1924.500	.000	1.000	*********	*********	*********
1924.750	.000	1.000	*********	*********	*********
1925.000	.000	1.000	*********	*********	*********
1925.250	.000	1.000	*********	*********	*********
1925.500	.000	1.000	*********	*********	*********
1925.750	.000	1.000	*********	*********	*********
1926.000	.000	1.000	*********	*********	*********
1926.250	.000	1.000	*********	*********	*********
1926.500	.000	1.000	*********	*********	*********
1926.750	.000	1.000	*********	*********	*********
1927.000	.000	1.000	*********	*********	*********
1927.250	.000	1.000	*********	*********	*********
1927.500	.000	1.000	*********	*********	*********
1927.750	.000	1.000	*********	*********	*********

1

BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
1928.000	.000	1.000	*********	*********	*********
1928.250	.000	1.000	*********	*********	*********
1928.500	.000	1.000	*********	*********	*********
1928.750	.000	1.000	*********	*********	*********
1929.000	.000	1.000	*********	*********	*********
1929.250	.000	1.000	*********	*********	*********
1929.500	.000	1.000	*********	*********	*********
1929.750	.000	1.000	*********	*********	*********
1930.000	.648	1.000	1.000	.104	.000

1930.250	.622	1.000	1.000	.089	.000
1930.500	.710	1.000	1.000	.047	.000
1930.750	.978	1.000	1.000	.022	.000
1931.000	.986	1.000	1.000	.034	.000
1931.250	.957	1.000	1.000	.043	.000
1931.500	.970	1.000	1.000	.030	.000
1931.750	.978	1.000	1.000	.022	.000
1932.000	.702	1.000	1.000	.046	.000
1932.250	.540	1.000	1.000	.089	.000
1932.500	.455	1.000	1.000	.086	.000
1932.750	.576	1.000	1.000	.073	.000
1933.000	.271	1.000	1.000	.079	.000
1933.250	.168	1.000	1.000	.110	.000
1933.500	.011	1.000	.731	.160	.043
1933.750	.000	1.000	.740	.162	.042
1934.000	.087	1.000	.724	.158	.044
1934.250	.122	1.000	.598	.177	.071
1934.500	.116	.930	.479	.193	.101
1934.750	.090	.857	.428	.200	.114
1935.000	.124	.829	.381	.203	.125
1935.250	.200	.853	.328	.217	.146
1935.500	.255	.929	.345	.215	.141
1935.750	.373	1.000	.478	.156	.082
1936.000	.409	1.000	.646	.117	.042
1936.250	.407	.919	.694	.124	.038
1936.500	.455	.875	.728	.128	.035
1936.750	.464	.890	.704	.143	.042
1937.000	.435	.816	.641	.159	.057
1937.250	.434	.765	.572	.179	.077
1937.500	.400	.779	.578	.178	.075
1937.750	.495	.856	.662	.141	.048
1938.000	.524	.941	.747	.106	.027
1938.250	.573	1.000	.848	.074	.011
1938.500	.641	1.000	.929	.048	.003
1938.750	.682	.835	.801	.074	.015
1939.000	.559	.801	.706	.127	.037
1939.250	.531	.817	.751	.139	.035
1939.500	.570	.903	.752	.117	.029
1939.750	.337	1.000	.549	.155	.070
1940.000	.040	.979	.382	.205	.127
1940.250	.069	1.000	.262	.213	.157
1940.500	.115	.904	.216	.210	.165
1940.750	.215	.757	.190	.197	.160
1941.000	.187	.769	.183	.197	.161
1941.250	.115	.822	.178	.210	.173
1941.500	.215	.795	.165	.207	.173
1941.750	.302	.776	.155	.201	.169

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
1942.000	.293	.700	.170	.208	.173
1942.250	.410	.699	.226	.208	.161
1942.500	.449	.759	.236	.207	.148
1942.750	.445	.692	.333	.196	.131
1943.000	.455	.727	.330	.199	.134
1943.250	.265	.901	.359	.210	.135
1943.500	.269	.852	.435	.182	.103
1943.750	.272	.892	.416	.187	.109
1944.000	.168	.858	.477	.188	.098
1944.250	.088	.834	.542	.185	.085
1944.500	.188	.785	.544	.180	.082
1944.750	.168	.841	.505	.204	.101
1945.000	.268	.869	.538	.191	.088
1945.250	.308	.899	.522	.188	.090
1945.500	.308	.855	.474	.196	.103

1945.750	.408	.655	.440	.204	.114
1946.000	.368	.645	.439	.198	.111
1946.250	.366	.652	.459	.201	.109
1946.500	.388	.914	.515	.193	.093
1946.750	.608	1.000	.689	.118	.037
1947.000	.952	1.000	.994	.048	.000
1947.250	.955	1.000	1.000	.045	.000
1947.500	.963	1.000	1.000	.037	.000
1947.750	.955	1.000	1.000	.045	.000
1948.000	.724	1.000	.973	.064	.002
1948.250	.930	1.000	.936	.074	.005
1948.500	.920	1.000	.889	.080	.009
1948.750	.938	1.000	.995	.062	.000
1949.000	.963	1.000	1.000	.037	.000
1949.250	.946	1.000	1.000	.054	.000
1949.500	.875	.853	.722	.125	.035
1949.750	.696	.567	.496	.197	.100
1950.000	.710	.693	.542	.182	.083
1950.250	.739	.987	.726	.114	.031
1950.500	.901	.772	.772	.079	.018
1950.750	.929	.665	.680	.071	.023
1951.000	.929	.669	.669	.071	.024
1951.250	.912	.660	.660	.088	.030
1951.500	.868	.672	.672	.137	.045
1951.750	.864	.710	.613	.155	.060
1952.000	.000	1.000	1.000	.000	.000
1952.250	.000	1.000	1.000	.000	.000
1952.500	.000	1.000	1.000	.000	.000
1952.750	.000	1.000	1.000	.000	.000
1953.000	.000	1.000	1.000	.000	.000
1953.250	.657	1.000	1.000	.001	.000
1953.500	.000	1.000	1.000	.000	.000
1953.750	.000	1.000	1.000	.000	.000
1954.000	.000	1.000	1.000	.000	.000
1954.250	.000	1.000	1.000	.000	.000
1954.500	.000	1.000	1.000	.000	.000
1954.750	.000	1.000	1.000	.000	.000
1955.000	.000	1.000	1.000	.000	.000
1955.250	.000	1.000	1.000	.000	.000
1955.500	.000	1.000	1.000	.000	.000
1955.750	.000	1.000	1.000	.000	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
1956.000	.000	1.000	1.000	.000	.000
1956.250	.000	1.000	1.000	.000	.000
1956.500	.000	1.000	1.000	.000	.000
1956.750	.000	1.000	1.000	.000	.000
1957.000	.000	1.000	1.000	.000	.000
1957.250	.923	.605	.507	.077	.038
1957.500	.861	.702	.588	.077	.032
1957.750	.962	.895	.755	.038	.009
1958.000	.977	.980	.796	.023	.005
1958.250	.976	.961	.777	.024	.005
1958.500	.984	1.000	.806	.016	.003
1958.750	.988	.991	.822	.012	.002
1959.000	.973	.877	.750	.027	.007
1959.250	.957	.810	.691	.043	.013
1959.500	.944	.755	.643	.056	.020
1959.750	.933	.655	.608	.067	.026
1960.000	.930	.698	.588	.070	.029
1960.250	.000	1.000	1.000	.000	.000
1960.500	.000	1.000	1.000	.000	.000
1960.750	.000	1.000	1.000	.000	.000
1961.000	.000	1.000	1.000	.000	.000

1961.250	.000	1.000	1.000	.000	.000
1961.500	.000	1.000	1.000	.000	.000
1961.750	.892	.495	.477	.109	.057
1962.000	.591	.589	.589	.131	.054
1962.250	.425	.724	.698	.151	.045
1962.500	.463	.916	.748	.126	.032
1962.750	.568	.660	.639	.096	.034
1963.000	.000	1.000	1.000	.000	.000
1963.250	.000	1.000	1.000	.000	.000
1963.500	.000	1.000	1.000	.000	.000
1963.750	.000	1.000	1.000	.000	.000
1964.000	.000	1.000	1.000	.000	.000
1964.250	.000	1.000	1.000	.000	.000
1964.500	.000	1.000	1.000	.000	.000
1964.750	.000	1.000	1.000	.000	.000
1965.000	.000	1.000	1.000	.000	.000
1965.250	.000	1.000	1.000	.000	.000
1965.500	.000	1.000	1.000	.000	.000
1965.750	.000	1.000	1.000	.000	.000
1966.000	.124	1.000	.930	.232	.016
1966.250	.140	1.000	.760	.240	.057
1966.500	.172	.950	.879	.233	.028
1966.750	.134	.983	.883	.245	.029
1967.000	.077	1.000	.750	.272	.068
1967.250	.102	.996	.738	.281	.074
1967.500	.153	1.000	.723	.265	.073
1967.750	.181	.994	.893	.241	.026
1968.000	.110	1.000	.897	.248	.026
1968.250	.049	1.000	.926	.262	.019
1968.500	.023	1.000	.907	.268	.025
1968.750	.023	1.000	.918	.260	.021
1969.000	.015	1.000	.979	.240	.005
1969.250	.002	1.000	.982	.231	.004
1969.500	.014	1.000	.982	.232	.004
1969.750	.005	1.000	.949	.248	.013

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
1970.000	.046	1.000	.917	.262	.022
1970.250	.032	1.000	.745	.267	.068
1970.500	.000	1.000	.926	.258	.019
1970.750	.000	1.000	.921	.251	.020
1971.000	.006	1.000	.696	.261	.079
1971.250	.050	1.000	.721	.248	.069
1971.500	.010	1.000	.931	.237	.016
1971.750	.016	1.000	.954	.232	.011
1972.000	.237	1.000	.834	.174	.029
1972.250	.408	.896	.896	.126	.013
1972.500	.560	.876	.585	.114	.047
1972.750	.657	.553	.553	.105	.047
1973.000	.904	.509	.408	.096	.057
1973.250	.693	.480	.459	.097	.053
1973.500	.429	.612	.612	.120	.047
1973.750	.202	.831	.831	.169	.029
1974.000	.100	1.000	.825	.211	.037
1974.250	.073	1.000	.833	.220	.037
1974.500	.053	.995	.916	.241	.020
1974.750	.045	1.000	.723	.261	.072
1975.000	.063	1.000	.900	.248	.025
1975.250	.059	1.000	.758	.240	.058
1975.500	.036	1.000	.960	.236	.009
1975.750	.035	1.000	.992	.231	.002
1976.000	.025	1.000	1.000	.219	.000
1976.250	.013	1.000	1.000	.209	.000
1976.500	.018	1.000	1.000	.212	.000

1976.750	.060	1.000	1.000	.227	.000
1977.000	.000	1.000	.980	.244	.005
1977.250	.000	1.000	.960	.264	.011
1977.500	.027	1.000	.966	.264	.009
1977.750	.071	1.000	.952	.262	.012
1978.000	.014	1.000	1.000	.248	.000
1978.250	.054	1.000	1.000	.228	.000
1978.500	.038	1.000	.982	.246	.004
1978.750	.054	1.000	.950	.246	.012
1979.000	.048	.980	.980	.246	.005
1979.250	.000	1.000	1.000	.000	.000
1979.500	.000	1.000	1.000	.000	.000
1979.750	.000	1.000	1.000	.000	.000
1980.000	.000	1.000	1.000	.000	.000
1980.250	.000	1.000	1.000	.000	.000
1980.500	.000	1.000	1.000	.000	.000
1980.750	.000	1.000	1.000	.000	.000
1981.000	.000	1.000	1.000	.000	.000
1981.250	.539	1.000	1.000	.092	.000
1981.500	.339	1.000	1.000	.139	.000
1981.750	.122	1.000	1.000	.218	.000
1982.000	.113	1.000	1.000	.262	.000
1982.250	.126	1.000	1.000	.283	.000
1982.500	.174	1.000	1.000	.260	.000
1982.750	.335	1.000	1.000	.175	.000
1983.000	.613	1.000	1.000	.083	.000
1983.250	.559	1.000	1.000	.089	.000
1983.500	.588	1.000	1.000	.083	.000
1983.750	.000	1.000	1.000	.000	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
1984.000	.000	1.000	1.000	.000	.000
1984.250	.000	1.000	1.000	.000	.000
1984.500	.000	1.000	1.000	.000	.000
1984.750	.000	1.000	1.000	.000	.000
1985.000	.000	1.000	1.000	.000	.000
1985.250	.343	1.000	1.000	.242	.000
1985.500	.107	1.000	1.000	.278	.000
1985.750	.075	1.000	1.000	.275	.000
1986.000	.042	1.000	1.000	.262	.000
1986.250	.041	1.000	1.000	.258	.000
1986.500	.062	1.000	1.000	.258	.000
1986.750	.130	1.000	1.000	.233	.000
1987.000	.236	1.000	1.000	.212	.000
1987.250	.449	1.000	1.000	.180	.000
1987.500	.655	1.000	1.000	.129	.000
1987.750	.681	1.000	1.000	.121	.000
1988.000	.000	1.000	1.000	.000	.000
1988.250	.000	1.000	1.000	.000	.000
1988.500	.000	1.000	1.000	.000	.000
1988.750	.000	1.000	1.000	.000	.000
1989.000	.000	1.000	1.000	.000	.000
1989.250	.000	1.000	1.000	.000	.000
1989.500	.000	1.000	1.000	.000	.000
1989.750	.000	1.000	1.000	.000	.000
1990.000	.000	1.000	1.000	.000	.000
1990.250	.000	1.000	1.000	.000	.000
1990.500	.000	1.000	1.000	.000	.000
1990.750	.000	1.000	1.000	.000	.000
1991.000	.000	1.000	1.000	.000	.000
1991.250	.608	1.000	1.000	.116	.000
1991.500	.356	1.000	1.000	.191	.000
1991.750	.152	1.000	1.000	.251	.000
1992.000	.063	1.000	1.000	.271	.000

1992.250	.162	1.000	1.000	.262	.000
1992.500	.213	1.000	1.000	.260	.000
1992.750	.076	1.000	1.000	.280	.000
1993.000	.036	1.000	1.000	.290	.000
1993.250	.038	1.000	1.000	.300	.000
1993.500	.086	1.000	1.000	.281	.000
1993.750	.191	1.000	1.000	.245	.000
1994.000	.206	1.000	1.000	.230	.000
1994.250	.096	1.000	1.000	.256	.000
1994.500	.097	1.000	1.000	.283	.000
1994.750	.228	1.000	1.000	.276	.000
1995.000	.190	1.000	1.000	.268	.000
1995.250	.087	1.000	1.000	.273	.000
1995.500	.048	1.000	1.000	.282	.000
1995.750	.090	1.000	1.000	.290	.000
1996.000	.131	1.000	1.000	.290	.000
1996.250	.041	1.000	1.000	.294	.000
1996.500	.024	1.000	1.000	.286	.000
1996.750	.056	1.000	1.000	.265	.000
1997.000	.090	1.000	1.000	.245	.000
1997.250	.080	1.000	1.000	.246	.000
1997.500	.069	1.000	1.000	.251	.000
1997.750	.156	1.000	1.000	.241	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
1998.000	.194	1.000	1.000	.246	.000
1998.250	.124	1.000	1.000	.266	.000
1998.500	.064	1.000	1.000	.277	.000
1998.750	.107	1.000	1.000	.267	.000
1999.000	.149	1.000	1.000	.259	.000
1999.250	.114	1.000	1.000	.279	.000
1999.500	.080	1.000	1.000	.294	.000
1999.750	.108	1.000	1.000	.285	.000
2000.000	.161	1.000	1.000	.253	.000
2000.250	.192	1.000	1.000	.211	.000
2000.500	.177	1.000	1.000	.249	.000
2000.750	.479	1.000	1.000	.239	.000
2001.000	.750	1.000	1.000	.010	.000
2001.250	.750	1.000	1.000	.010	.000
2001.500	.750	1.000	1.000	.010	.000
2001.750	.676	1.000	1.000	.100	.000
2002.000	.702	1.000	1.000	.142	.000
2002.250	.750	1.000	1.000	.010	.000
2002.500	.750	1.000	1.000	.010	.000
2002.750	.750	1.000	1.000	.010	.000
2003.000	.568	1.000	1.000	.158	.000
2003.250	.473	1.000	1.000	.187	.000
2003.500	.000	1.000	1.000	.000	.000
2003.750	.000	1.000	1.000	.000	.000
2004.000	.000	1.000	1.000	.000	.000
2004.250	.000	1.000	1.000	.000	.000
2004.500	.000	1.000	1.000	.000	.000
2004.750	.000	1.000	1.000	.000	.000
2005.000	.000	1.000	1.000	.000	.000
2005.250	.000	1.000	1.000	.000	.000
2005.500	.000	1.000	1.000	.000	.000
2005.750	.000	1.000	1.000	.000	.000
2006.000	.000	1.000	1.000	.000	.000
2006.250	.000	1.000	1.000	.000	.000
2006.500	.000	1.000	1.000	.000	.000
2006.750	.000	1.000	1.000	.000	.000
2007.000	.000	1.000	1.000	.000	.000
2007.250	.000	1.000	1.000	.000	.000
2007.500	.000	1.000	1.000	.000	.000

2007.750	.465	1.000	1.000	.165	.000
2008.000	.450	1.000	1.000	.168	.000
2008.250	.505	1.000	1.000	.154	.000
2008.500	.461	1.000	1.000	.163	.000
2008.750	.522	1.000	1.000	.148	.000
2009.000	.612	1.000	1.000	.138	.000
2009.250	.538	1.000	1.000	.162	.000
2009.500	.440	1.000	1.000	.185	.000
2009.750	.434	1.000	1.000	.198	.000
2010.000	.411	1.000	1.000	.203	.000
2010.250	.350	1.000	1.000	.213	.000
2010.500	.248	1.000	1.000	.240	.000
2010.750	.236	1.000	1.000	.255	.000
2011.000	.269	1.000	1.000	.248	.000
2011.250	.202	1.000	1.000	.251	.000
2011.500	.173	1.000	1.000	.253	.000
2011.750	.202	1.000	1.000	.237	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2012.000	.236	1.000	1.000	.220	.000
2012.250	.384	1.000	1.000	.180	.000
2012.500	.622	1.000	1.000	.112	.000
2012.750	.750	1.000	1.000	.010	.000
2013.000	.746	1.000	1.000	.058	.000
2013.250	.389	1.000	1.000	.094	.000
2013.500	.052	1.000	1.000	.163	.000
2013.750	.001	1.000	1.000	.216	.000
2014.000	.057	1.000	1.000	.235	.000
2014.250	.058	1.000	1.000	.239	.000
2014.500	.052	1.000	1.000	.236	.000
2014.750	.061	1.000	1.000	.229	.000
2015.000	.040	1.000	1.000	.228	.000
2015.250	.039	1.000	1.000	.243	.000
2015.500	.051	1.000	1.000	.262	.000
2015.750	.063	1.000	1.000	.261	.000
2016.000	.120	1.000	1.000	.240	.000
2016.250	.185	1.000	1.000	.212	.000
2016.500	.191	1.000	1.000	.217	.000
2016.750	.301	1.000	1.000	.223	.000
2017.000	.517	1.000	1.000	.193	.000
2017.250	.566	1.000	1.000	.155	.000
2017.500	.596	1.000	1.000	.116	.000
2017.750	.601	1.000	1.000	.097	.000
2018.000	.555	1.000	1.000	.105	.000
2018.250	.524	1.000	1.000	.121	.000
2018.500	.495	1.000	1.000	.129	.000
2018.750	.469	1.000	1.000	.128	.000
2019.000	.480	1.000	1.000	.131	.000
2019.250	.423	1.000	1.000	.146	.000
2019.500	.329	1.000	1.000	.178	.000
2019.750	.182	1.000	1.000	.240	.000
2020.000	.150	1.000	1.000	.267	.000
2020.250	.216	1.000	1.000	.251	.000
2020.500	.248	1.000	1.000	.243	.000
2020.750	.216	1.000	1.000	.253	.000
2021.000	.125	1.000	1.000	.267	.000
2021.250	.065	1.000	1.000	.269	.000
2021.500	.076	1.000	1.000	.269	.000
2021.750	.079	1.000	1.000	.271	.000
2022.000	.050	1.000	1.000	.274	.000
2022.250	.038	1.000	1.000	.278	.000
2022.500	.085	1.000	1.000	.282	.000
2022.750	.089	1.000	1.000	.286	.000
2023.000	.074	1.000	1.000	.285	.000

2023.250	.061	1.000	1.000	.283	.000
2023.500	.100	1.000	1.000	.281	.000
2023.750	.105	1.000	1.000	.284	.000
2024.000	.099	1.000	1.000	.272	.000
2024.250	.061	1.000	1.000	.266	.000
2024.500	.067	1.000	1.000	.257	.000
2024.750	.116	1.000	1.000	.249	.000
2025.000	.149	1.000	1.000	.255	.000
2025.250	.154	1.000	1.000	.271	.000
2025.500	.125	1.000	1.000	.270	.000
2025.750	.085	1.000	1.000	.278	.000

1 BREAM #3

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2026.000	.036	1.000	1.000	.289	.000
2026.250	.055	1.000	1.000	.276	.000
2026.500	.131	1.000	1.000	.261	.000
2026.750	.225	1.000	1.000	.267	.000
2027.000	.392	1.000	1.000	.265	.000
2027.250	.750	1.000	1.000	.010	.000
2027.500	.750	1.000	1.000	.010	.000
2027.750	.750	1.000	1.000	.010	.000
2028.000	.667	1.000	1.000	.156	.000
2028.250	.750	1.000	1.000	.217	.000
2028.500	.750	1.000	1.000	.010	.000
2028.750	.750	1.000	1.000	.010	.000
2029.000	.750	1.000	1.000	.010	.000
2029.250	.750	1.000	1.000	.010	.000
2029.500	.750	1.000	1.000	.010	.000
2029.750	.750	1.000	1.000	.010	.000
2030.000	.000	1.000	1.000	.000	.000
2030.250	.000	1.000	1.000	.000	.000
2030.500	.000	1.000	1.000	.000	.000
2030.750	.000	1.000	1.000	.000	.000
2031.000	.000	1.000	1.000	.000	.000
2031.250	.000	1.000	1.000	.000	.000
2031.500	.645	1.000	1.000	.104	.000
2031.750	.560	1.000	1.000	.099	.000
2032.000	.658	1.000	1.000	.089	.000
2032.250	.750	1.000	1.000	.010	.000
2032.500	.750	1.000	1.000	.010	.000
2032.750	.750	1.000	1.000	.010	.000
2033.000	.000	1.000	1.000	.000	.000
2033.250	.000	1.000	1.000	.000	.000
2033.500	.000	1.000	1.000	.000	.000
2033.750	.000	1.000	1.000	.000	.000
2034.000	.000	1.000	1.000	.000	.000
2034.250	.000	1.000	1.000	.000	.000
2034.500	.000	1.000	1.000	.000	.000
2034.750	.000	1.000	1.000	.000	.000
2035.000	.000	1.000	1.000	.000	.000
2035.250	.000	1.000	1.000	.000	.000
2035.500	.000	1.000	1.000	.000	.000
2035.750	.000	1.000	1.000	.000	.000
2036.000	.000	1.000	1.000	.000	.000
2036.250	.000	1.000	1.000	.000	.000
2036.500	.000	1.000	1.000	.000	.000
2036.750	.000	1.000	1.000	.000	.000
2037.000	.000	1.000	1.000	.000	.000
2037.250	.000	1.000	1.000	.000	.000
2037.500	.000	1.000	1.000	.000	.000
2037.750	.000	1.000	1.000	.000	.000
2038.000	.000	1.000	1.000	.000	.000
2038.250	.000	1.000	1.000	.000	.000
2038.500	.000	1.000	1.000	.000	.000

2038.750	.000	1.000	1.000	.000	.000
2039.000	.000	1.000	1.000	.000	.000
2039.250	.000	1.000	1.000	.000	.000
2039.500	.000	1.000	1.000	.000	.000
2039.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2040.000	.000	1.000	1.000	.000	.000
2040.250	.000	1.000	1.000	.000	.000
2040.500	.000	1.000	1.000	.000	.000
2040.750	.000	1.000	1.000	.000	.000
2041.000	.000	1.000	1.000	.000	.000
2041.250	.000	1.000	1.000	.000	.000
2041.500	.000	1.000	1.000	.000	.000
2041.750	.000	1.000	1.000	.000	.000
2042.000	.000	1.000	1.000	.000	.000
2042.250	.000	1.000	1.000	.000	.000
2042.500	.000	1.000	1.000	.000	.000
2042.750	.000	1.000	1.000	.000	.000
2043.000	.000	1.000	1.000	.000	.000
2043.250	.000	1.000	1.000	.000	.000
2043.500	.000	1.000	1.000	.000	.000
2043.750	.000	1.000	1.000	.000	.000
2044.000	.000	1.000	1.000	.000	.000
2044.250	.000	1.000	1.000	.000	.000
2044.500	.000	1.000	1.000	.000	.000
2044.750	.000	1.000	1.000	.000	.000
2045.000	.000	1.000	1.000	.000	.000
2045.250	.000	1.000	1.000	.000	.000
2045.500	.000	1.000	1.000	.000	.000
2045.750	.000	1.000	1.000	.000	.000
2046.000	.000	1.000	1.000	.000	.000
2046.250	.000	1.000	1.000	.000	.000
2046.500	.000	1.000	1.000	.000	.000
2046.750	.000	1.000	1.000	.000	.000
2047.000	.000	1.000	1.000	.000	.000
2047.250	.000	1.000	1.000	.000	.000
2047.500	.000	1.000	1.000	.000	.000
2047.750	.000	1.000	1.000	.000	.000
2048.000	.000	1.000	1.000	.000	.000
2048.250	.000	1.000	1.000	.000	.000
2048.500	.000	1.000	1.000	.000	.000
2048.750	.000	1.000	1.000	.000	.000
2049.000	.000	1.000	1.000	.000	.000
2049.250	.122	1.000	1.000	.278	.000
2049.500	.172	1.000	1.000	.273	.000
2049.750	.146	1.000	1.000	.264	.000
2050.000	.109	1.000	1.000	.258	.000
2050.250	.134	1.000	1.000	.266	.000
2050.500	.197	1.000	1.000	.263	.000
2050.750	.173	1.000	1.000	.262	.000
2051.000	.153	1.000	1.000	.265	.000
2051.250	.157	1.000	1.000	.267	.000
2051.500	.196	1.000	1.000	.266	.000
2051.750	.131	1.000	1.000	.281	.000
2052.000	.102	1.000	1.000	.280	.000
2052.250	.038	1.000	1.000	.277	.000
2052.500	.055	1.000	1.000	.273	.000
2052.750	.108	1.000	1.000	.271	.000
2053.000	.154	1.000	1.000	.261	.000
2053.250	.132	1.000	1.000	.260	.000
2053.500	.109	1.000	1.000	.267	.000
2053.750	.066	1.000	1.000	.269	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2054.000	.010	1.000	1.000	.267	.000
2054.250	.004	1.000	1.000	.268	.000
2054.500	.000	1.000	1.000	.268	.000
2054.750	.009	1.000	1.000	.271	.000
2055.000	.076	1.000	1.000	.255	.000
2055.250	.112	1.000	1.000	.239	.000
2055.500	.218	1.000	1.000	.211	.000
2055.750	.243	1.000	1.000	.211	.000
2056.000	.139	1.000	1.000	.257	.000
2056.250	.186	1.000	1.000	.270	.000
2056.500	.162	1.000	1.000	.252	.000
2056.750	.208	1.000	1.000	.227	.000
2057.000	.449	1.000	1.000	.165	.000
2057.250	.633	1.000	1.000	.061	.000
2057.500	.520	1.000	1.000	.000	.000
2057.750	.348	1.000	1.000	.000	.000
2058.000	.185	1.000	1.000	.017	.000
2058.250	.063	1.000	1.000	.026	.000
2058.500	.041	1.000	1.000	.015	.000
2058.750	.146	1.000	1.000	.000	.000
2059.000	.126	1.000	1.000	.000	.000
2059.250	.044	1.000	1.000	.013	.000
2059.500	.000	1.000	1.000	.013	.000
2059.750	.000	1.000	1.000	.000	.000
2060.000	.000	1.000	1.000	.000	.000
2060.250	.000	1.000	1.000	.000	.000
2060.500	.000	1.000	1.000	.000	.000
2060.750	.000	1.000	1.000	.000	.000
2061.000	.000	1.000	1.000	.000	.000
2061.250	.000	1.000	1.000	.000	.000
2061.500	.000	1.000	1.000	.000	.000
2061.750	.000	1.000	1.000	.000	.000
2062.000	.000	1.000	1.000	.000	.000
2062.250	.000	1.000	1.000	.000	.000
2062.500	.000	1.000	1.000	.000	.000
2062.750	.000	1.000	1.000	.000	.000
2063.000	.000	1.000	1.000	.000	.000
2063.250	.000	1.000	1.000	.000	.000
2063.500	.000	1.000	1.000	.000	.000
2063.750	.000	1.000	1.000	.000	.000
2064.000	.000	1.000	1.000	.000	.000
2064.250	.000	1.000	1.000	.000	.000
2064.500	.000	1.000	1.000	.000	.000
2064.750	.000	1.000	1.000	.000	.000
2065.000	.000	1.000	1.000	.000	.000
2065.250	.000	1.000	1.000	.000	.000
2065.500	.000	1.000	1.000	.000	.000
2065.750	.000	1.000	1.000	.000	.000
2066.000	.000	1.000	1.000	.000	.000
2066.250	.000	1.000	1.000	.000	.000
2066.500	.000	1.000	1.000	.000	.000
2066.750	.000	1.000	1.000	.000	.000
2067.000	.000	1.000	1.000	.000	.000
2067.250	.000	1.000	1.000	.000	.000
2067.500	.000	1.000	1.000	.000	.000
2067.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2068.000	.000	1.000	1.000	.000	.000
2068.250	.000	1.000	1.000	.000	.000
2068.500	.000	1.000	1.000	.000	.000
2068.750	.000	1.000	1.000	.000	.000

2069.000	.000	1.000	1.000	.000	.000
2069.250	.000	1.000	1.000	.000	.000
2069.500	.000	1.000	1.000	.000	.000
2069.750	.000	1.000	1.000	.000	.000
2070.000	.000	1.000	1.000	.000	.000
2070.250	.000	1.000	1.000	.000	.000
2070.500	.000	1.000	1.000	.000	.000
2070.750	.000	1.000	1.000	.000	.000
2071.000	.000	1.000	1.000	.000	.000
2071.250	.000	1.000	1.000	.000	.000
2071.500	.000	1.000	1.000	.000	.000
2071.750	.000	1.000	1.000	.000	.000
2072.000	.000	1.000	1.000	.000	.000
2072.250	.000	1.000	1.000	.000	.000
2072.500	.000	1.000	1.000	.000	.000
2072.750	.000	1.000	1.000	.000	.000
2073.000	.000	1.000	1.000	.000	.000
2073.250	.000	1.000	1.000	.000	.000
2073.500	.000	1.000	1.000	.000	.000
2073.750	.000	1.000	1.000	.000	.000
2074.000	.000	1.000	1.000	.000	.000
2074.250	.000	1.000	1.000	.000	.000
2074.500	.000	1.000	1.000	.000	.000
2074.750	.000	1.000	1.000	.000	.000
2075.000	.000	1.000	1.000	.000	.000
2075.250	.630	1.000	1.000	.078	.000
2075.500	.750	1.000	1.000	.058	.000
2075.750	.750	1.000	1.000	.010	.000
2076.000	.750	1.000	1.000	.010	.000
2076.250	.750	1.000	1.000	.010	.000
2076.500	.750	1.000	1.000	.010	.000
2076.750	.720	1.000	1.000	.058	.000
2077.000	.645	1.000	1.000	.081	.000
2077.250	.610	1.000	1.000	.111	.000
2077.500	.530	1.000	1.000	.142	.000
2077.750	.405	1.000	1.000	.161	.000
2078.000	.379	1.000	1.000	.158	.000
2078.250	.385	1.000	1.000	.149	.000
2078.500	.321	1.000	1.000	.169	.000
2078.750	.288	1.000	1.000	.207	.000
2079.000	.305	1.000	1.000	.226	.000
2079.250	.263	1.000	1.000	.216	.000
2079.500	.258	1.000	1.000	.203	.000
2079.750	.256	1.000	1.000	.205	.000
2080.000	.236	1.000	1.000	.191	.000
2080.250	.276	1.000	1.000	.163	.000
2080.500	.309	1.000	1.000	.162	.000
2080.750	.318	1.000	1.000	.189	.000
2081.000	.299	1.000	1.000	.215	.000
2081.250	.238	1.000	1.000	.229	.000
2081.500	.149	1.000	1.000	.237	.000
2081.750	.091	1.000	1.000	.234	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2082.000	.060	1.000	1.000	.232	.000
2082.250	.046	1.000	1.000	.236	.000
2082.500	.032	1.000	1.000	.243	.000
2082.750	.035	1.000	1.000	.248	.000
2083.000	.044	1.000	1.000	.250	.000
2083.250	.050	1.000	1.000	.254	.000
2083.500	.090	1.000	1.000	.253	.000
2083.750	.114	1.000	1.000	.248	.000
2084.000	.129	1.000	1.000	.241	.000
2084.250	.138	1.000	1.000	.230	.000

2084.500	.104	1.000	1.000	.217	.000
2084.750	.057	1.000	1.000	.218	.000
2085.000	.058	1.000	1.000	.223	.000
2085.250	.133	1.000	1.000	.213	.000
2085.500	.196	1.000	1.000	.206	.000
2085.750	.176	1.000	1.000	.213	.000
2086.000	.085	1.000	1.000	.220	.000
2086.250	.046	1.000	1.000	.228	.000
2086.500	.049	1.000	1.000	.234	.000
2086.750	.084	1.000	1.000	.241	.000
2087.000	.115	1.000	1.000	.247	.000
2087.250	.100	1.000	1.000	.245	.000
2087.500	.145	1.000	1.000	.238	.000
2087.750	.142	1.000	1.000	.246	.000
2088.000	.093	1.000	1.000	.252	.000
2088.250	.072	1.000	1.000	.246	.000
2088.500	.096	1.000	1.000	.227	.000
2088.750	.322	1.000	1.000	.157	.000
2089.000	.665	1.000	1.000	.084	.000
2089.250	.759	1.000	1.000	.010	.000
2089.500	.750	1.000	1.000	.010	.000
2089.750	.750	1.000	1.000	.010	.000
2090.000	.735	1.000	1.000	.079	.000
2090.250	.505	1.000	1.000	.125	.000
2090.500	.390	1.000	1.000	.160	.000
2090.750	.303	1.000	1.000	.184	.000
2091.000	.201	1.000	1.000	.217	.000
2091.250	.147	1.000	1.000	.238	.000
2091.500	.113	1.000	1.000	.243	.000
2091.750	.059	1.000	1.000	.249	.000
2092.000	.000	1.000	1.000	.249	.000
2092.250	.023	1.000	1.000	.251	.000
2092.500	.064	1.000	1.000	.250	.000
2092.750	.118	1.000	1.000	.246	.000
2093.000	.133	1.000	1.000	.238	.000
2093.250	.036	1.000	1.000	.239	.000
2093.500	.002	1.000	1.000	.246	.000
2093.750	.014	1.000	1.000	.250	.000
2094.000	.007	1.000	1.000	.242	.000
2094.250	.000	1.000	1.000	.000	.000
2094.500	.000	1.000	1.000	.000	.000
2094.750	.000	1.000	1.000	.000	.000
2095.000	.000	1.000	1.000	.000	.000
2095.250	.000	1.000	1.000	.000	.000
2095.500	.000	1.000	1.000	.000	.000
2095.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2096.000	.000	1.000	1.000	.000	.000
2096.250	.000	1.000	1.000	.000	.000
2096.500	.000	1.000	1.000	.000	.000
2096.750	.000	1.000	1.000	.000	.000
2097.000	.000	1.000	1.000	.000	.000
2097.250	.000	1.000	1.000	.000	.000
2097.500	.000	1.000	1.000	.000	.000
2097.750	.000	1.000	1.000	.000	.000
2098.000	.000	1.000	1.000	.000	.000
2098.250	.000	1.000	1.000	.000	.000
2098.500	.000	1.000	1.000	.000	.000
2098.750	.000	1.000	1.000	.000	.000
2099.000	.000	1.000	1.000	.000	.000
2099.250	.000	1.000	1.000	.000	.000
2099.500	.000	1.000	1.000	.000	.000
2099.750	.000	1.000	1.000	.000	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2100.000	.000	1.000	1.000	.000	.000
2100.250	.000	1.000	1.000	.000	.000
2100.500	.000	1.000	1.000	.000	.000
2100.750	.000	1.000	1.000	.000	.000
2101.000	.000	1.000	1.000	.000	.000
2101.250	.000	1.000	1.000	.000	.000
2101.500	.000	1.000	1.000	.000	.000
2101.750	.000	1.000	1.000	.000	.000
2102.000	.000	1.000	1.000	.000	.000
2102.250	.000	1.000	1.000	.000	.000
2102.500	.000	1.000	1.000	.000	.000
2102.750	.000	1.000	1.000	.000	.000
2103.000	.000	1.000	1.000	.000	.000
2103.250	.000	1.000	1.000	.000	.000
2103.500	.000	1.000	1.000	.000	.000
2103.750	.000	1.000	1.000	.000	.000
2104.000	.000	1.000	1.000	.000	.000
2104.250	.000	1.000	1.000	.000	.000
2104.500	.000	1.000	1.000	.000	.000
2104.750	.000	1.000	1.000	.000	.000
2105.000	.000	1.000	1.000	.000	.000
2105.250	.750	1.000	1.000	.010	.000
2105.500	.645	1.000	1.000	.064	.000
2105.750	.465	1.000	1.000	.111	.000
2106.000	.398	1.000	1.000	.137	.000
2106.250	.324	1.000	1.000	.171	.000
2106.500	.275	1.000	1.000	.196	.000
2106.750	.257	1.000	1.000	.208	.000
2107.000	.174	1.000	1.000	.222	.000
2107.250	.124	1.000	1.000	.229	.000
2107.500	.168	1.000	1.000	.224	.000
2107.750	.222	1.000	1.000	.212	.000
2108.000	.265	1.000	1.000	.204	.000
2108.250	.157	1.000	1.000	.224	.000
2108.500	.092	1.000	1.000	.236	.000
2108.750	.000	1.000	1.000	.000	.000
2109.000	.000	1.000	1.000	.000	.000
2109.250	.000	1.000	1.000	.000	.000
2109.500	.000	1.000	1.000	.000	.000
2109.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2110.000	.000	1.000	1.000	.000	.000
2110.250	.000	1.000	1.000	.000	.000
2110.500	.000	1.000	1.000	.000	.000
2110.750	.000	1.000	1.000	.000	.000
2111.000	.000	1.000	1.000	.000	.000
2111.250	.725	1.000	1.000	.058	.000
2111.500	.500	1.000	1.000	.097	.000
2111.750	.454	1.000	1.000	.102	.000
2112.000	.516	1.000	1.000	.093	.000
2112.250	.579	1.000	1.000	.082	.000
2112.500	.670	1.000	1.000	.076	.000
2112.750	.750	1.000	1.000	.010	.000
2113.000	.750	1.000	1.000	.010	.000
2113.250	.750	1.000	1.000	.010	.000
2113.500	.750	1.000	1.000	.010	.000
2113.750	.750	1.000	1.000	.010	.000
2114.000	.750	1.000	1.000	.010	.000
2114.250	.750	1.000	1.000	.135	.000
2114.500	.479	1.000	1.000	.181	.000
2114.750	.173	1.000	1.000	.236	.000
2115.000	.004	1.000	1.000	.260	.000
2115.250	.000	1.000	1.000	.260	.000

2115.500	.036	1.000	1.000	.269	.000
2115.750	.105	1.000	1.000	.250	.000
2116.000	.129	1.000	1.000	.244	.000
2116.250	.093	1.000	1.000	.247	.000
2116.500	.065	1.000	1.000	.251	.000
2116.750	.088	1.000	1.000	.251	.000
2117.000	.122	1.000	1.000	.255	.000
2117.250	.121	1.000	1.000	.261	.000
2117.500	.093	1.000	1.000	.264	.000
2117.750	.152	1.000	1.000	.249	.000
2118.000	.295	1.000	1.000	.185	.000
2118.250	.525	1.000	1.000	.098	.000
2118.500	.750	1.000	1.000	.010	.000
2118.750	.750	1.000	1.000	.010	.000
2119.000	.750	1.000	1.000	.010	.000
2119.250	.750	1.000	1.000	.010	.000
2119.500	.750	1.000	1.000	.010	.000
2119.750	.750	1.000	1.000	.010	.000
2120.000	.750	1.000	1.000	.010	.000
2120.250	.750	1.000	1.000	.010	.000
2120.500	.000	1.000	1.000	.000	.000
2120.750	.000	1.000	1.000	.000	.000
2121.000	.000	1.000	1.000	.000	.000
2121.250	.000	1.000	1.000	.000	.000
2121.500	.000	1.000	1.000	.000	.000
2121.750	.000	1.000	1.000	.000	.000
2122.000	.000	1.000	1.000	.000	.000
2122.250	.000	1.000	1.000	.000	.000
2122.500	.000	1.000	1.000	.000	.000
2122.750	.000	1.000	1.000	.000	.000
2123.000	.000	1.000	1.000	.000	.000
2123.250	.000	1.000	1.000	.000	.000
2123.500	.000	1.000	1.000	.000	.000
2123.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2124.000	.000	1.000	1.000	.000	.000
2124.250	.000	1.000	1.000	.000	.000
2124.500	.000	1.000	1.000	.000	.000
2124.750	.000	1.000	1.000	.000	.000
2125.000	.000	1.000	1.000	.000	.000
2125.250	.000	1.000	1.000	.000	.000
2125.500	.000	1.000	1.000	.000	.000
2125.750	.000	1.000	1.000	.000	.000
2126.000	.000	1.000	1.000	.000	.000
2126.250	.000	1.000	1.000	.000	.000
2126.500	.000	1.000	1.000	.000	.000
2126.750	.000	1.000	1.000	.000	.000
2127.000	.000	1.000	1.000	.000	.000
2127.250	.000	1.000	1.000	.000	.000
2127.500	.000	1.000	1.000	.000	.000
2127.750	.000	1.000	1.000	.000	.000
2128.000	.000	1.000	1.000	.000	.000
2128.250	.750	1.000	1.000	.010	.000
2128.500	.736	1.000	1.000	.061	.000
2128.750	.686	1.000	1.000	.067	.000
2129.000	.578	1.000	1.000	.082	.000
2129.250	.454	1.000	1.000	.106	.000
2129.500	.421	1.000	1.000	.129	.000
2129.750	.425	1.000	1.000	.134	.000
2130.000	.337	1.000	1.000	.141	.000
2130.250	.276	1.000	1.000	.158	.000
2130.500	.305	1.000	1.000	.156	.000
2130.750	.315	1.000	1.000	.158	.000

2131.000	.307	1.000	1.000	.162	.000
2131.250	.304	1.000	1.000	.155	.000
2131.500	.279	1.000	1.000	.167	.000
2131.750	.269	1.000	1.000	.180	.000
2132.000	.267	1.000	1.000	.172	.000
2132.250	.269	1.000	1.000	.163	.000
2132.500	.226	1.000	1.000	.176	.000
2132.750	.167	1.000	1.000	.197	.000
2133.000	.167	1.000	1.000	.206	.000
2133.250	.240	1.000	1.000	.202	.000
2133.500	.266	1.000	1.000	.204	.000
2133.750	.299	1.000	1.000	.195	.000
2134.000	.308	1.000	1.000	.171	.000
2134.250	.234	1.000	1.000	.180	.000
2134.500	.126	1.000	1.000	.219	.000
2134.750	.122	1.000	1.000	.232	.000
2135.000	.134	1.000	1.000	.224	.000
2135.250	.107	1.000	1.000	.226	.000
2135.500	.131	1.000	1.000	.228	.000
2135.750	.176	1.000	1.000	.220	.000
2136.000	.193	1.000	1.000	.217	.000
2136.250	.185	1.000	1.000	.224	.000
2136.500	.111	1.000	1.000	.243	.000
2136.750	.049	1.000	1.000	.260	.000
2137.000	.048	1.000	1.000	.264	.000
2137.250	.063	1.000	1.000	.252	.000
2137.500	.204	1.000	1.000	.200	.000
2137.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2138.000	.000	1.000	1.000	.000	.000
2138.250	.000	1.000	1.000	.000	.000
2138.500	.000	1.000	1.000	.000	.000
2138.750	.000	1.000	1.000	.000	.000
2139.000	.000	1.000	1.000	.000	.000
2139.250	.558	1.000	1.000	.075	.000
2139.500	.459	1.000	1.000	.111	.000
2139.750	.308	1.000	1.000	.163	.000
2140.000	.172	1.000	1.000	.200	.000
2140.250	.148	1.000	1.000	.207	.000
2140.500	.197	1.000	1.000	.201	.000
2140.750	.207	1.000	1.000	.193	.000
2141.000	.221	1.000	1.000	.184	.000
2141.250	.375	1.000	1.000	.159	.000
2141.500	.555	1.000	1.000	.121	.000
2141.750	.530	1.000	1.000	.103	.000
2142.000	.481	1.000	1.000	.091	.000
2142.250	.507	1.000	1.000	.075	.000
2142.500	.523	1.000	1.000	.075	.000
2142.750	.500	1.000	1.000	.089	.000
2143.000	.532	1.000	1.000	.084	.000
2143.250	.617	1.000	1.000	.071	.000
2143.500	.730	1.000	1.000	.070	.000
2143.750	.750	1.000	1.000	.010	.000
2144.000	.750	1.000	1.000	.071	.000
2144.250	.730	1.000	1.000	.066	.000
2144.500	.647	1.000	1.000	.092	.000
2144.750	.514	1.000	1.000	.126	.000
2145.000	.000	1.000	1.000	.000	.000
2145.250	.000	1.000	1.000	.000	.000
2145.500	.000	1.000	1.000	.000	.000
2145.750	.000	1.000	1.000	.000	.000
2146.000	.000	1.000	1.000	.000	.000
2146.250	.000	1.000	1.000	.000	.000

2146.500	.000	1.000	1.000	.000	.000
2146.750	.000	1.000	1.000	.000	.000
2147.000	.000	1.000	1.000	.000	.000
2147.250	.000	1.000	1.000	.000	.000
2147.500	.000	1.000	1.000	.000	.000
2147.750	.000	1.000	1.000	.000	.000
2148.000	.000	1.000	1.000	.000	.000
2148.250	.000	1.000	1.000	.000	.000
2148.500	.000	1.000	1.000	.000	.000
2148.750	.000	1.000	1.000	.000	.000
2149.000	.000	1.000	1.000	.000	.000
2149.250	.000	1.000	1.000	.000	.000
2149.500	.000	1.000	1.000	.000	.000
2149.750	.000	1.000	1.000	.000	.000
2150.000	.000	1.000	1.000	.000	.000
2150.250	.000	1.000	1.000	.000	.000
2150.500	.000	1.000	1.000	.000	.000
2150.750	.000	1.000	1.000	.000	.000
2151.000	.000	1.000	1.000	.000	.000
2151.250	.000	1.000	1.000	.000	.000
2151.500	.000	1.000	1.000	.000	.000
2151.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2152.000	.000	1.000	1.000	.000	.000
2152.250	.000	1.000	1.000	.000	.000
2152.500	.000	1.000	1.000	.000	.000
2152.750	.000	1.000	1.000	.000	.000
2153.000	.000	1.000	1.000	.000	.000
2153.250	.000	1.000	1.000	.000	.000
2153.500	.000	1.000	1.000	.000	.000
2153.750	.000	1.000	1.000	.000	.000
2154.000	.000	1.000	1.000	.000	.000
2154.250	.000	1.000	1.000	.000	.000
2154.500	.000	1.000	1.000	.000	.000
2154.750	.000	1.000	1.000	.000	.000
2155.000	.000	1.000	1.000	.000	.000
2155.250	.000	1.000	1.000	.000	.000
2155.500	.000	1.000	1.000	.000	.000
2155.750	.000	1.000	1.000	.000	.000
2156.000	.000	1.000	1.000	.000	.000
2156.250	.000	1.000	1.000	.000	.000
2156.500	.000	1.000	1.000	.000	.000
2156.750	.000	1.000	1.000	.000	.000
2157.000	.000	1.000	1.000	.000	.000
2157.250	.750	1.000	1.000	.010	.000
2157.500	.750	1.000	1.000	.010	.000
2157.750	.688	1.000	1.000	.093	.000
2158.000	.432	1.000	1.000	.188	.000
2158.250	.163	1.000	1.000	.247	.000
2158.500	.068	1.000	1.000	.254	.000
2158.750	.072	1.000	1.000	.249	.000
2159.000	.043	1.000	1.000	.254	.000
2159.250	.014	1.000	1.000	.255	.000
2159.500	.070	1.000	1.000	.228	.000
2159.750	.139	1.000	1.000	.193	.000
2160.000	.134	1.000	1.000	.196	.000
2160.250	.069	1.000	1.000	.232	.000
2160.500	.040	1.000	1.000	.250	.000
2160.750	.085	1.000	1.000	.247	.000
2161.000	.115	1.000	1.000	.242	.000
2161.250	.059	1.000	1.000	.241	.000
2161.500	.034	1.000	1.000	.236	.000
2161.750	.032	1.000	1.000	.237	.000

2162.000	.021	1.000	1.000	.237	.000
2162.250	.033	1.000	1.000	.227	.000
2162.500	.067	1.000	1.000	.226	.000
2162.750	.091	1.000	1.000	.229	.000
2163.000	.082	1.000	1.000	.224	.000
2163.250	.035	1.000	1.000	.230	.000
2163.500	.030	1.000	1.000	.248	.000
2163.750	.074	1.000	1.000	.259	.000
2164.000	.090	1.000	1.000	.258	.000
2164.250	.067	1.000	1.000	.257	.000
2164.500	.056	1.000	1.000	.263	.000
2164.750	.047	1.000	1.000	.269	.000
2165.000	.063	1.000	1.000	.265	.000
2165.250	.078	1.000	1.000	.264	.000
2165.500	.096	1.000	1.000	.258	.000
2165.750	.079	1.000	1.000	.254	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2166.000	.059	1.000	1.000	.256	.000
2166.250	.061	1.000	1.000	.255	.000
2166.500	.079	1.000	1.000	.244	.000
2166.750	.183	1.000	1.000	.208	.000
2167.000	.393	1.000	1.000	.140	.000
2167.250	.511	1.000	1.000	.095	.000
2167.500	.458	1.000	1.000	.108	.000
2167.750	.273	1.000	1.000	.156	.000
2168.000	.169	1.000	1.000	.189	.000
2168.250	.099	1.000	1.000	.227	.000
2168.500	.060	1.000	1.000	.255	.000
2168.750	.027	1.000	1.000	.260	.000
2169.000	.074	1.000	1.000	.239	.000
2169.250	.239	1.000	1.000	.166	.000
2169.500	.546	1.000	1.000	.066	.000
2169.750	.720	1.000	1.000	.024	.000
2170.000	.700	1.000	1.000	.037	.000
2170.250	.660	1.000	1.000	.065	.000
2170.500	.519	1.000	1.000	.100	.000
2170.750	.479	1.000	1.000	.083	.000
2171.000	.578	1.000	1.000	.047	.000
2171.250	.664	1.000	1.000	.034	.000
2171.500	.678	1.000	1.000	.029	.000
2171.750	.676	1.000	1.000	.023	.000
2172.000	.692	1.000	1.000	.020	.000
2172.250	.710	1.000	1.000	.022	.000
2172.500	.700	1.000	1.000	.025	.000
2172.750	.735	1.000	1.000	.021	.000
2173.000	.655	1.000	1.000	.057	.000
2173.250	.490	1.000	1.000	.124	.000
2173.500	.545	1.000	1.000	.140	.000
2173.750	.625	1.000	1.000	.137	.000
2174.000	.745	1.000	1.000	.122	.000
2174.250	.750	1.000	1.000	.010	.000
2174.500	.692	1.000	1.000	.096	.000
2174.750	.433	1.000	1.000	.165	.000
2175.000	.203	1.000	1.000	.242	.000
2175.250	.122	1.000	1.000	.251	.000
2175.500	.110	1.000	1.000	.235	.000
2175.750	.127	1.000	1.000	.224	.000
2176.000	.144	1.000	1.000	.210	.000
2176.250	.104	1.000	1.000	.197	.000
2176.500	.106	1.000	1.000	.203	.000
2176.750	.134	1.000	1.000	.217	.000
2177.000	.110	1.000	1.000	.223	.000
2177.250	.079	1.000	1.000	.225	.000

2177.500	.088	1.000	1.000	.234	.000
2177.750	.107	1.000	1.000	.238	.000
2178.000	.078	1.000	1.000	.245	.000
2178.250	.057	1.000	1.000	.262	.000
2178.500	.091	1.000	1.000	.268	.000
2178.750	.091	1.000	1.000	.263	.000
2179.000	.100	1.000	1.000	.253	.000
2179.250	.144	1.000	1.000	.236	.000
2179.500	.087	1.000	1.000	.239	.000
2179.750	.087	1.000	1.000	.259	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2180.000	.112	1.000	1.000	.259	.000
2180.250	.058	1.000	1.000	.253	.000
2180.500	.020	1.000	1.000	.255	.000
2180.750	.050	1.000	1.000	.250	.000
2181.000	.054	1.000	1.000	.262	.000
2181.250	.089	1.000	1.000	.262	.000
2181.500	.085	1.000	1.000	.260	.000
2181.750	.131	1.000	1.000	.246	.000
2182.000	.236	1.000	1.000	.236	.000
2182.250	.230	1.000	1.000	.261	.000
2182.500	.190	1.000	1.000	.276	.000
2182.750	.156	1.000	1.000	.282	.000
2183.000	.118	1.000	1.000	.292	.000
2183.250	.086	1.000	1.000	.292	.000
2183.500	.059	1.000	1.000	.290	.000
2183.750	.048	1.000	1.000	.286	.000
2184.000	.034	1.000	1.000	.281	.000
2184.250	.001	1.000	1.000	.281	.000
2184.500	.002	1.000	1.000	.278	.000
2184.750	.038	1.000	1.000	.275	.000
2185.000	.053	1.000	1.000	.275	.000
2185.250	.102	1.000	1.000	.273	.000
2185.500	.087	1.000	1.000	.267	.000
2185.750	.017	1.000	1.000	.259	.000
2186.000	.050	1.000	1.000	.235	.000
2186.250	.230	1.000	1.000	.143	.000
2186.500	.696	1.000	1.000	.017	.000
2186.750	.750	1.000	1.000	.010	.000
2187.000	.750	1.000	1.000	.010	.000
2187.250	.750	1.000	1.000	.010	.000
2187.500	.750	1.000	1.000	.010	.000
2187.750	.750	1.000	1.000	.010	.000
2188.000	.750	1.000	1.000	.010	.000
2188.250	.750	1.000	1.000	.010	.000
2188.500	.750	1.000	1.000	.010	.000
2188.750	.750	1.000	1.000	.010	.000
2189.000	.750	1.000	1.000	.010	.000
2189.250	.750	1.000	1.000	.010	.000
2189.500	.750	1.000	1.000	.010	.000
2189.750	.750	1.000	1.000	.010	.000
2190.000	.750	1.000	1.000	.010	.000
2190.250	.750	1.000	1.000	.010	.000
2190.500	.750	1.000	1.000	.010	.000
2190.750	.750	1.000	1.000	.010	.000
2191.000	.750	1.000	1.000	.010	.000
2191.250	.750	1.000	1.000	.010	.000
2191.500	.750	1.000	1.000	.010	.000
2191.750	.750	1.000	1.000	.010	.000
2192.000	.750	1.000	1.000	.010	.000
2192.250	.750	1.000	1.000	.010	.000
2192.500	.750	1.000	1.000	.010	.000
2192.750	.750	1.000	1.000	.010	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2193.000	.750	1.000	1.000	.010	.000
2193.250	.750	1.000	1.000	.010	.000
2193.500	.740	1.000	1.000	.020	.000
2193.750	.655	1.000	1.000	.026	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2194.000	.629	1.000	1.000	.030	.000
2194.250	.616	1.000	1.000	.039	.000
2194.500	.545	1.000	1.000	.052	.000
2194.750	.447	1.000	1.000	.077	.000
2195.000	.381	1.000	1.000	.101	.000
2195.250	.393	1.000	1.000	.102	.000
2195.500	.407	1.000	1.000	.102	.000
2195.750	.344	1.000	1.000	.127	.000
2196.000	.246	1.000	1.000	.154	.000
2196.250	.211	1.000	1.000	.163	.000
2196.500	.232	1.000	1.000	.164	.000
2196.750	.251	1.000	1.000	.151	.000
2197.000	.266	1.000	1.000	.150	.000
2197.250	.253	1.000	1.000	.170	.000
2197.500	.230	1.000	1.000	.170	.000
2197.750	.201	1.000	1.000	.171	.000
2198.000	.182	1.000	1.000	.188	.000
2198.250	.159	1.000	1.000	.201	.000
2198.500	.060	1.000	1.000	.224	.000
2198.750	.082	1.000	1.000	.224	.000
2199.000	.207	1.000	1.000	.181	.000
2199.250	.203	1.000	1.000	.160	.000
2199.500	.130	1.000	1.000	.184	.000
2199.750	.102	1.000	1.000	.207	.000
2200.000	.087	1.000	1.000	.218	.000
2200.250	.060	1.000	1.000	.218	.000
2200.500	.118	1.000	1.000	.209	.000
2200.750	.140	1.000	1.000	.203	.000
2201.000	.137	1.000	1.000	.192	.000
2201.250	.134	1.000	1.000	.181	.000
2201.500	.127	1.000	1.000	.191	.000
2201.750	.131	1.000	1.000	.197	.000
2202.000	.123	1.000	1.000	.201	.000
2202.250	.089	1.000	1.000	.207	.000
2202.500	.061	1.000	1.000	.204	.000
2202.750	.077	1.000	1.000	.191	.000
2203.000	.093	1.000	1.000	.186	.000
2203.250	.118	1.000	1.000	.192	.000
2203.500	.127	1.000	1.000	.201	.000
2203.750	.120	1.000	1.000	.200	.000
2204.000	.128	1.000	1.000	.189	.000
2204.250	.129	1.000	1.000	.181	.000
2204.500	.111	1.000	1.000	.182	.000
2204.750	.126	1.000	1.000	.181	.000
2205.000	.145	1.000	1.000	.178	.000
2205.250	.112	1.000	1.000	.185	.000
2205.500	.094	1.000	1.000	.197	.000
2205.750	.137	1.000	1.000	.194	.000
2206.000	.199	1.000	1.000	.176	.000
2206.250	.210	1.000	1.000	.176	.000
2206.500	.157	1.000	1.000	.204	.000
2206.750	.102	1.000	1.000	.230	.000
2207.000	.104	1.000	1.000	.237	.000
2207.250	.074	1.000	1.000	.244	.000
2207.500	.035	1.000	1.000	.251	.000
2207.750	.040	1.000	1.000	.252	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2208.000	.051	1.000	1.000	.245	.000
2208.250	.116	1.000	1.000	.204	.000
2208.500	.310	1.000	1.000	.133	.000
2208.750	.467	1.000	1.000	.109	.000
2209.000	.315	1.000	1.000	.186	.000
2209.250	.257	1.000	1.000	.248	.000
2209.500	.397	1.000	1.000	.249	.000
2209.750	.243	1.000	1.000	.248	.000
2210.000	.089	1.000	1.000	.249	.000
2210.250	.079	1.000	1.000	.243	.000
2210.500	.122	1.000	1.000	.223	.000
2210.750	.135	1.000	1.000	.213	.000
2211.000	.145	1.000	1.000	.217	.000
2211.250	.166	1.000	1.000	.214	.000
2211.500	.168	1.000	1.000	.211	.000
2211.750	.147	1.000	1.000	.217	.000
2212.000	.124	1.000	1.000	.227	.000
2212.250	.103	1.000	1.000	.236	.000
2212.500	.150	1.000	1.000	.229	.000
2212.750	.161	1.000	1.000	.235	.000
2213.000	.094	1.000	1.000	.257	.000
2213.250	.047	1.000	1.000	.264	.000
2213.500	.058	1.000	1.000	.256	.000
2213.750	.057	1.000	1.000	.250	.000
2214.000	.072	1.000	1.000	.232	.000
2214.250	.113	1.000	1.000	.210	.000
2214.500	.152	1.000	1.000	.204	.000
2214.750	.137	1.000	1.000	.216	.000
2215.000	.193	1.000	1.000	.221	.000
2215.250	.177	1.000	1.000	.212	.000
2215.500	.146	1.000	1.000	.219	.000
2215.750	.145	1.000	1.000	.232	.000
2216.000	.154	1.000	1.000	.232	.000
2216.250	.137	1.000	1.000	.229	.000
2216.500	.146	1.000	1.000	.218	.000
2216.750	.105	1.000	1.000	.212	.000
2217.000	.073	1.000	1.000	.216	.000
2217.250	.096	1.000	1.000	.218	.000
2217.500	.108	1.000	1.000	.220	.000
2217.750	.085	1.000	1.000	.230	.000
2218.000	.065	1.000	1.000	.238	.000
2218.250	.065	1.000	1.000	.237	.000
2218.500	.081	1.000	1.000	.235	.000
2218.750	.160	1.000	1.000	.236	.000
2219.000	.358	1.000	1.000	.191	.000
2219.250	.521	1.000	1.000	.113	.000
2219.500	.000	1.000	1.000	.000	.000
2219.750	.000	1.000	1.000	.000	.000
2220.000	.000	1.000	1.000	.000	.000
2220.250	.000	1.000	1.000	.000	.000
2220.500	.000	1.000	1.000	.000	.000
2220.750	.000	1.000	1.000	.000	.000
2221.000	.000	1.000	1.000	.000	.000
2221.250	.000	1.000	1.000	.000	.000
2221.500	.000	1.000	1.000	.000	.000
2221.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2222.000	.000	1.000	1.000	.000	.000
2222.250	.000	1.000	1.000	.000	.000
2222.500	.000	1.000	1.000	.000	.000
2222.750	.000	1.000	1.000	.000	.000
2223.000	.000	1.000	1.000	.000	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2223.250	.000	1.000	1.000	.000	.000
2223.500	.000	1.000	1.000	.000	.000
2223.750	.000	1.000	1.000	.000	.000
2224.000	.000	1.000	1.000	.000	.000
2224.250	.000	1.000	1.000	.000	.000
2224.500	.000	1.000	1.000	.000	.000
2224.750	.000	1.000	1.000	.000	.000
2225.000	.000	1.000	1.000	.000	.000
2225.250	.000	1.000	1.000	.000	.000
2225.500	.000	1.000	1.000	.000	.000
2225.750	.000	1.000	1.000	.000	.000
2226.000	.000	1.000	1.000	.000	.000
2226.250	.000	1.000	1.000	.000	.000
2226.500	.000	1.000	1.000	.000	.000
2226.750	.000	1.000	1.000	.000	.000
2227.000	.000	1.000	1.000	.000	.000
2227.250	.000	1.000	1.000	.000	.000
2227.500	.000	1.000	1.000	.000	.000
2227.750	.000	1.000	1.000	.000	.000
2228.000	.000	1.000	1.000	.000	.000
2228.250	.000	1.000	1.000	.000	.000
2228.500	.000	1.000	1.000	.000	.000
2228.750	.000	1.000	1.000	.000	.000
2229.000	.000	1.000	1.000	.000	.000
2229.250	.000	1.000	1.000	.000	.000
2229.500	.000	1.000	1.000	.000	.000
2229.750	.000	1.000	1.000	.000	.000
2230.000	.000	1.000	1.000	.000	.000
2230.250	.000	1.000	1.000	.000	.000
2230.500	.000	1.000	1.000	.000	.000
2230.750	.000	1.000	1.000	.000	.000
2231.000	.000	1.000	1.000	.000	.000
2231.250	.000	1.000	1.000	.000	.000
2231.500	.000	1.000	1.000	.000	.000
2231.750	.000	1.000	1.000	.000	.000
2232.000	.000	1.000	1.000	.000	.000
2232.250	.446	1.000	1.000	.107	.000
2232.500	.410	1.000	1.000	.111	.000
2232.750	.565	1.000	1.000	.072	.000
2233.000	.676	1.000	1.000	.046	.000
2233.250	.657	1.000	1.000	.044	.000
2233.500	.579	1.000	1.000	.068	.000
2233.750	.462	1.000	1.000	.104	.000
2234.000	.330	1.000	1.000	.130	.000
2234.250	.184	1.000	1.000	.167	.000
2234.500	.074	1.000	1.000	.206	.000
2234.750	.069	1.000	1.000	.225	.000
2235.000	.047	1.000	1.000	.243	.000
2235.250	.007	1.000	1.000	.248	.000
2235.500	.003	1.000	1.000	.243	.000
2235.750	.017	1.000	1.000	.243	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2236.000	.003	1.000	1.000	.252	.000
2236.250	.000	1.000	1.000	.000	.000
2236.500	.000	1.000	1.000	.000	.000
2236.750	.000	1.000	1.000	.000	.000
2237.000	.000	1.000	1.000	.000	.000
2237.250	.000	1.000	1.000	.000	.000
2237.500	.000	1.000	1.000	.000	.000
2237.750	.000	1.000	1.000	.000	.000
2238.000	.000	1.000	1.000	.000	.000
2238.250	.000	1.000	1.000	.000	.000
2238.500	.000	1.000	1.000	.000	.000

2238.750	.000	1.000	1.000	.000	.000
2239.000	.000	1.000	1.000	.000	.000
2239.250	.000	1.000	1.000	.000	.000
2239.500	.000	1.000	1.000	.000	.000
2239.750	.000	1.000	1.000	.000	.000
2240.000	.000	1.000	1.000	.000	.000
2240.250	.000	1.000	1.000	.000	.000
2240.500	.000	1.000	1.000	.000	.000
2240.750	.000	1.000	1.000	.000	.000
2241.000	.000	1.000	1.000	.000	.000
2241.250	.550	1.000	1.000	.054	.000
2241.500	.473	1.000	1.000	.069	.000
2241.750	.459	1.000	1.000	.073	.000
2242.000	.460	1.000	1.000	.070	.000
2242.250	.460	1.000	1.000	.070	.000
2242.500	.435	1.000	1.000	.074	.000
2242.750	.440	1.000	1.000	.073	.000
2243.000	.475	1.000	1.000	.064	.000
2243.250	.480	1.000	1.000	.064	.000
2243.500	.460	1.000	1.000	.076	.000
2243.750	.420	1.000	1.000	.096	.000
2244.000	.420	1.000	1.000	.113	.000
2244.250	.387	1.000	1.000	.139	.000
2244.500	.255	1.000	1.000	.167	.000
2244.750	.130	1.000	1.000	.195	.000
2245.000	.147	1.000	1.000	.205	.000
2245.250	.218	1.000	1.000	.191	.000
2245.500	.250	1.000	1.000	.177	.000
2245.750	.236	1.000	1.000	.177	.000
2246.000	.223	1.000	1.000	.177	.000
2246.250	.208	1.000	1.000	.198	.000
2246.500	.134	1.000	1.000	.243	.000
2246.750	.102	1.000	1.000	.255	.000
2247.000	.131	1.000	1.000	.232	.000
2247.250	.149	1.000	1.000	.191	.000
2247.500	.144	1.000	1.000	.164	.000
2247.750	.143	1.000	1.000	.159	.000
2248.000	.218	1.000	1.000	.157	.000
2248.250	.227	1.000	1.000	.163	.000
2248.500	.235	1.000	1.000	.150	.000
2248.750	.364	1.000	1.000	.109	.000
2249.000	.469	1.000	1.000	.086	.000
2249.250	.497	1.000	1.000	.088	.000
2249.500	.495	1.000	1.000	.094	.000
2249.750	.451	1.000	1.000	.110	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2250.000	.331	1.000	1.000	.151	.000
2250.250	.194	1.000	1.000	.175	.000
2250.500	.128	1.000	1.000	.173	.000
2250.750	.116	1.000	1.000	.189	.000
2251.000	.134	1.000	1.000	.209	.000
2251.250	.178	1.000	1.000	.204	.000
2251.500	.208	1.000	1.000	.183	.000
2251.750	.207	1.000	1.000	.176	.000
2252.000	.191	1.000	1.000	.186	.000
2252.250	.204	1.000	1.000	.177	.000
2252.500	.171	1.000	1.000	.172	.000
2252.750	.159	1.000	1.000	.169	.000
2253.000	.200	1.000	1.000	.165	.000
2253.250	.224	1.000	1.000	.176	.000
2253.500	.223	1.000	1.000	.184	.000
2253.750	.158	1.000	1.000	.193	.000
2254.000	.116	1.000	1.000	.196	.000

2254.250	.181	1.000	1.000	.182	.000
2254.500	.176	1.000	1.000	.189	.000
2254.750	.132	1.000	1.000	.202	.000
2255.000	.144	1.000	1.000	.185	.000
2255.250	.141	1.000	1.000	.178	.000
2255.500	.120	1.000	1.000	.203	.000
2255.750	.089	1.000	1.000	.229	.000
2256.000	.034	1.000	1.000	.243	.000
2256.250	.077	1.000	1.000	.234	.000
2256.500	.146	1.000	1.000	.214	.000
2256.750	.105	1.000	1.000	.218	.000
2257.000	.076	1.000	1.000	.227	.000
2257.250	.109	1.000	1.000	.214	.000
2257.500	.114	1.000	1.000	.218	.000
2257.750	.109	1.000	1.000	.216	.000
2258.000	.110	1.000	1.000	.211	.000
2258.250	.110	1.000	1.000	.210	.000
2258.500	.104	1.000	1.000	.212	.000
2258.750	.137	1.000	1.000	.207	.000
2259.000	.193	1.000	1.000	.206	.000
2259.250	.191	1.000	1.000	.216	.000
2259.500	.162	1.000	1.000	.225	.000
2259.750	.143	1.000	1.000	.226	.000
2260.000	.161	1.000	1.000	.215	.000
2260.250	.178	1.000	1.000	.212	.000
2260.500	.135	1.000	1.000	.237	.000
2260.750	.075	1.000	1.000	.246	.000
2261.000	.086	1.000	1.000	.222	.000
2261.250	.159	1.000	1.000	.219	.000
2261.500	.169	1.000	1.000	.230	.000
2261.750	.140	1.000	1.000	.219	.000
2262.000	.144	1.000	1.000	.215	.000
2262.250	.126	1.000	1.000	.218	.000
2262.500	.124	1.000	1.000	.231	.000
2262.750	.143	1.000	1.000	.236	.000
2263.000	.147	1.000	1.000	.236	.000
2263.250	.124	1.000	1.000	.232	.000
2263.500	.101	1.000	1.000	.208	.000
2263.750	.134	1.000	1.000	.167	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2264.000	.171	1.000	1.000	.151	.000
2264.250	.211	1.000	1.000	.153	.000
2264.500	.324	1.000	1.000	.137	.000
2264.750	.406	1.000	1.000	.106	.000
2265.000	.000	1.000	1.000	.000	.000
2265.250	.000	1.000	1.000	.000	.000
2265.500	.000	1.000	1.000	.000	.000
2265.750	.000	1.000	1.000	.000	.000
2266.000	.000	1.000	1.000	.000	.000
2266.250	.000	1.000	1.000	.000	.000
2266.500	.000	1.000	1.000	.000	.000
2266.750	.000	1.000	1.000	.000	.000
2267.000	.000	1.000	1.000	.000	.000
2267.250	.699	1.000	1.000	.000	.000
2267.500	.648	1.000	1.000	.015	.000
2267.750	.647	1.000	1.000	.023	.000
2268.000	.617	1.000	1.000	.036	.000
2268.250	.565	1.000	1.000	.040	.000
2268.500	.555	1.000	1.000	.038	.000
2268.750	.586	1.000	1.000	.038	.000
2269.000	.624	1.000	1.000	.034	.000
2269.250	.667	1.000	1.000	.032	.000
2269.500	.687	1.000	1.000	.033	.000

2269.750	.650	1.000	1.000	.040	.000
2270.000	.550	1.000	1.000	.067	.000
2270.250	.449	1.000	1.000	.097	.000
2270.500	.422	1.000	1.000	.104	.000
2270.750	.397	1.000	1.000	.104	.000
2271.000	.355	1.000	1.000	.106	.000
2271.250	.378	1.000	1.000	.095	.000
2271.500	.398	1.000	1.000	.082	.000
2271.750	.398	1.000	1.000	.087	.000
2272.000	.377	1.000	1.000	.103	.000
2272.250	.352	1.000	1.000	.113	.000
2272.500	.280	1.000	1.000	.119	.000
2272.750	.229	1.000	1.000	.126	.000
2273.000	.247	1.000	1.000	.127	.000
2273.250	.252	1.000	1.000	.130	.000
2273.500	.219	1.000	1.000	.149	.000
2273.750	.225	1.000	1.000	.155	.000
2274.000	.216	1.000	1.000	.159	.000
2274.250	.000	1.000	1.000	.000	.000
2274.500	.000	1.000	1.000	.000	.000
2274.750	.000	1.000	1.000	.000	.000
2275.000	.000	1.000	1.000	.000	.000
2275.250	.000	1.000	1.000	.000	.000
2275.500	.000	1.000	1.000	.000	.000
2275.750	.344	1.000	1.000	.135	.000
2276.000	.191	1.000	1.000	.156	.000
2276.250	.152	1.000	1.000	.157	.000
2276.500	.201	1.000	1.000	.139	.000
2276.750	.307	1.000	1.000	.114	.000
2277.000	.387	1.000	1.000	.096	.000
2277.250	.432	1.000	1.000	.099	.000
2277.500	.577	1.000	1.000	.108	.000
2277.750	.750	1.000	1.000	.092	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2278.000	.663	1.000	1.000	.094	.000
2278.250	.435	1.000	1.000	.123	.000
2278.500	.342	1.000	1.000	.137	.000
2278.750	.328	1.000	1.000	.141	.000
2279.000	.373	1.000	1.000	.127	.000
2279.250	.458	1.000	1.000	.100	.000
2279.500	.455	1.000	1.000	.085	.000
2279.750	.455	1.000	1.000	.070	.000
2280.000	.535	1.000	1.000	.056	.000
2280.250	.585	1.000	1.000	.064	.000
2280.500	.000	1.000	1.000	.000	.000
2280.750	.000	1.000	1.000	.000	.000
2281.000	.000	1.000	1.000	.000	.000
2281.250	.000	1.000	1.000	.000	.000
2281.500	.000	1.000	1.000	.000	.000
2281.750	.000	1.000	1.000	.000	.000
2282.000	.000	1.000	1.000	.000	.000
2282.250	.000	1.000	1.000	.000	.000
2282.500	.000	1.000	1.000	.000	.000
2282.750	.000	1.000	1.000	.000	.000
2283.000	.000	1.000	1.000	.000	.000
2283.250	.000	1.000	1.000	.000	.000
2283.500	.000	1.000	1.000	.000	.000
2283.750	.000	1.000	1.000	.000	.000
2284.000	.000	1.000	1.000	.000	.000
2284.250	.000	1.000	1.000	.000	.000
2284.500	.000	1.000	1.000	.000	.000
2284.750	.000	1.000	1.000	.000	.000
2285.000	.000	1.000	1.000	.000	.000

2285.250	.000	1.000	1.000	.000	.000
2285.500	.000	1.000	1.000	.000	.000
2285.750	.000	1.000	1.000	.000	.000
2286.000	.000	1.000	1.000	.000	.000
2286.250	.000	1.000	1.000	.000	.000
2286.500	.000	1.000	1.000	.000	.000
2286.750	.000	1.000	1.000	.000	.000
2287.000	.000	1.000	1.000	.000	.000
2287.250	.000	1.000	1.000	.000	.000
2287.500	.000	1.000	1.000	.000	.000
2287.750	.000	1.000	1.000	.000	.000
2288.000	.000	1.000	1.000	.000	.000
2288.250	.000	1.000	1.000	.000	.000
2288.500	.000	1.000	1.000	.000	.000
2288.750	.000	1.000	1.000	.000	.000
2289.000	.000	1.000	1.000	.000	.000
2289.250	.000	1.000	1.000	.000	.000
2289.500	.000	1.000	1.000	.000	.000
2289.750	.000	1.000	1.000	.000	.000
2290.000	.000	1.000	1.000	.000	.000
2290.250	.577	1.000	1.000	.076	.000
2290.500	.473	1.000	1.000	.096	.000
2290.750	.403	1.000	1.000	.112	.000
2291.000	.339	1.000	1.000	.118	.000
2291.250	.350	1.000	1.000	.103	.000
2291.500	.396	1.000	1.000	.096	.000
2291.750	.376	1.000	1.000	.118	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2292.000	.290	1.000	1.000	.151	.000
2292.250	.203	1.000	1.000	.184	.000
2292.500	.152	1.000	1.000	.218	.000
2292.750	.127	1.000	1.000	.228	.000
2293.000	.321	1.000	1.000	.150	.000
2293.250	.565	1.000	1.000	.062	.000
2293.500	.536	1.000	1.000	.068	.000
2293.750	.440	1.000	1.000	.098	.000
2294.000	.000	1.000	1.000	.000	.000
2294.250	.000	1.000	1.000	.000	.000
2294.500	.000	1.000	1.000	.000	.000
2294.750	.000	1.000	1.000	.000	.000
2295.000	.000	1.000	1.000	.000	.000
2295.250	.000	1.000	1.000	.000	.000
2295.500	.000	1.000	1.000	.000	.000
2295.750	.723	1.000	1.000	.000	.000
2296.000	.695	1.000	1.000	.000	.000
2296.250	.645	1.000	1.000	.009	.000
2296.500	.610	1.000	1.000	.022	.000
2296.750	.579	1.000	1.000	.029	.000
2297.000	.555	1.000	1.000	.039	.000
2297.250	.512	1.000	1.000	.055	.000
2297.500	.482	1.000	1.000	.062	.000
2297.750	.462	1.000	1.000	.063	.000
2298.000	.470	1.000	1.000	.055	.000
2298.250	.453	1.000	1.000	.065	.000
2298.500	.451	1.000	1.000	.065	.000
2298.750	.456	1.000	1.000	.061	.000
2299.000	.466	1.000	1.000	.056	.000
2299.250	.401	1.000	1.000	.078	.000
2299.500	.374	1.000	1.000	.088	.000
2299.750	.431	1.000	1.000	.079	.000
2300.000	.466	1.000	1.000	.075	.000
2300.250	.465	1.000	1.000	.075	.000
2300.500	.457	1.000	1.000	.078	.000

2300.750	.375	1.000	1.000	.091	.000
2301.000	.325	1.000	1.000	.100	.000
2301.250	.353	1.000	1.000	.098	.000
2301.500	.362	1.000	1.000	.101	.000
2301.750	.388	1.000	1.000	.102	.000
2302.000	.433	1.000	1.000	.085	.000
2302.250	.431	1.000	1.000	.085	.000
2302.500	.393	1.000	1.000	.107	.000
2302.750	.332	1.000	1.000	.141	.000
2303.000	.241	1.000	1.000	.163	.000
2303.250	.240	1.000	1.000	.146	.000
2303.500	.347	1.000	1.000	.111	.000
2303.750	.375	1.000	1.000	.109	.000
2304.000	.322	1.000	1.000	.119	.000
2304.250	.293	1.000	1.000	.123	.000
2304.500	.343	1.000	1.000	.118	.000
2304.750	.357	1.000	1.000	.118	.000
2305.000	.374	1.000	1.000	.099	.000
2305.250	.485	1.000	1.000	.074	.000
2305.500	.533	1.000	1.000	.086	.000
2305.750	.392	1.000	1.000	.121	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2306.000	.345	1.000	1.000	.125	.000
2306.250	.400	1.000	1.000	.104	.000
2306.500	.382	1.000	1.000	.108	.000
2306.750	.311	1.000	1.000	.132	.000
2307.000	.277	1.000	1.000	.151	.000
2307.250	.293	1.000	1.000	.139	.000
2307.500	.265	1.000	1.000	.144	.000
2307.750	.230	1.000	1.000	.162	.000
2308.000	.166	1.000	1.000	.166	.000
2308.250	.109	1.000	1.000	.169	.000
2308.500	.096	1.000	1.000	.181	.000
2308.750	.099	1.000	1.000	.193	.000
2309.000	.109	1.000	1.000	.195	.000
2309.250	.136	1.000	1.000	.187	.000
2309.500	.155	1.000	1.000	.181	.000
2309.750	.151	1.000	1.000	.183	.000
2310.000	.121	1.000	1.000	.193	.000
2310.250	.085	1.000	1.000	.206	.000
2310.500	.000	1.000	1.000	.000	.000
2310.750	.000	1.000	1.000	.000	.000
2311.000	.000	1.000	1.000	.000	.000
2311.250	.000	1.000	1.000	.000	.000
2311.500	.000	1.000	1.000	.000	.000
2311.750	.000	1.000	1.000	.000	.000
2312.000	.000	1.000	1.000	.000	.000
2312.250	.750	1.000	1.000	.010	.000
2312.500	.745	1.000	1.000	.000	.000
2312.750	.740	1.000	1.000	.001	.000
2313.000	.750	1.000	1.000	.010	.000
2313.250	.750	1.000	1.000	.010	.000
2313.500	.750	1.000	1.000	.010	.000
2313.750	.750	1.000	1.000	.010	.000
2314.000	.000	1.000	1.000	.000	.000
2314.250	.000	1.000	1.000	.000	.000
2314.500	.000	1.000	1.000	.000	.000
2314.750	.000	1.000	1.000	.000	.000
2315.000	.000	1.000	1.000	.000	.000
2315.250	.000	1.000	1.000	.000	.000
2315.500	.000	1.000	1.000	.000	.000
2315.750	.000	1.000	1.000	.000	.000
2316.000	.000	1.000	1.000	.000	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2316.250	.000	1.000	1.000	.000	.000
2316.500	.000	1.000	1.000	.000	.000
2316.750	.715	1.000	1.000	.048	.000
2317.000	.568	1.000	1.000	.085	.000
2317.250	.444	1.000	1.000	.118	.000
2317.500	.364	1.000	1.000	.147	.000
2317.750	.333	1.000	1.000	.158	.000
2318.000	.280	1.000	1.000	.162	.000
2318.250	.192	1.000	1.000	.176	.000
2318.500	.163	1.000	1.000	.185	.000
2318.750	.166	1.000	1.000	.181	.000
2319.000	.133	1.000	1.000	.186	.000
2319.250	.113	1.000	1.000	.193	.000
2319.500	.122	1.000	1.000	.203	.000
2319.750	.098	1.000	1.000	.225	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2320.000	.086	1.000	1.000	.239	.000
2320.250	.093	1.000	1.000	.237	.000
2320.500	.130	1.000	1.000	.197	.000
2320.750	.242	1.000	1.000	.143	.000
2321.000	.244	1.000	1.000	.154	.000
2321.250	.202	1.000	1.000	.173	.000
2321.500	.180	1.000	1.000	.173	.000
2321.750	.149	1.000	1.000	.186	.000
2322.000	.125	1.000	1.000	.199	.000
2322.250	.139	1.000	1.000	.180	.000
2322.500	.164	1.000	1.000	.162	.000
2322.750	.159	1.000	1.000	.167	.000
2323.000	.132	1.000	1.000	.176	.000
2323.250	.133	1.000	1.000	.171	.000
2323.500	.156	1.000	1.000	.173	.000
2323.750	.170	1.000	1.000	.173	.000
2324.000	.172	1.000	1.000	.164	.000
2324.250	.175	1.000	1.000	.164	.000
2324.500	.134	1.000	1.000	.180	.000
2324.750	.103	1.000	1.000	.194	.000
2325.000	.107	1.000	1.000	.197	.000
2325.250	.067	1.000	1.000	.202	.000
2325.500	.040	1.000	1.000	.204	.000
2325.750	.068	1.000	1.000	.202	.000
2326.000	.059	1.000	1.000	.212	.000
2326.250	.032	1.000	1.000	.216	.000
2326.500	.032	1.000	1.000	.211	.000
2326.750	.025	1.000	1.000	.218	.000
2327.000	.000	1.000	1.000	.000	.000
2327.250	.000	1.000	1.000	.000	.000
2327.500	.000	1.000	1.000	.000	.000
2327.750	.000	1.000	1.000	.000	.000
2328.000	.000	1.000	1.000	.000	.000
2328.250	.000	1.000	1.000	.000	.000
2328.500	.000	1.000	1.000	.000	.000
2328.750	.000	1.000	1.000	.000	.000
2329.000	.000	1.000	1.000	.000	.000
2329.250	.750	1.000	1.000	.010	.000
2329.500	.750	1.000	1.000	.010	.000
2329.750	.750	1.000	1.000	.010	.000
2330.000	.731	1.000	1.000	.012	.000
2330.250	.622	1.000	1.000	.022	.000
2330.500	.631	1.000	1.000	.030	.000
2330.750	.635	1.000	1.000	.030	.000
2331.000	.553	1.000	1.000	.041	.000
2331.250	.495	1.000	1.000	.056	.000
2331.500	.466	1.000	1.000	.072	.000

2331.750	.402	1.000	1.000	.095	.000
2332.000	.378	1.000	1.000	.105	.000
2332.250	.418	1.000	1.000	.101	.000
2332.500	.438	1.000	1.000	.097	.000
2332.750	.465	1.000	1.000	.076	.000
2333.000	.419	1.000	1.000	.081	.000
2333.250	.356	1.000	1.000	.106	.000
2333.500	.323	1.000	1.000	.127	.000
2333.750	.256	1.000	1.000	.154	.000

1 SREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2334.000	.185	1.000	1.000	.169	.000
2334.250	.177	1.000	1.000	.156	.000
2334.500	.268	1.000	1.000	.136	.000
2334.750	.548	1.000	1.000	.118	.000
2335.000	.000	1.000	1.000	.000	.000
2335.250	.000	1.000	1.000	.000	.000
2335.500	.000	1.000	1.000	.000	.000
2335.750	.000	1.000	1.000	.000	.000
2336.000	.000	1.000	1.000	.000	.000
2336.250	.000	1.000	1.000	.000	.000
2336.500	.000	1.000	1.000	.000	.000
2336.750	.000	1.000	1.000	.000	.000
2337.000	.000	1.000	1.000	.000	.000
2337.250	.000	1.000	1.000	.000	.000
2337.500	.000	1.000	1.000	.000	.000
2337.750	.000	1.000	1.000	.000	.000
2338.000	.000	1.000	1.000	.000	.000
2338.250	.510	1.000	1.000	.063	.000
2338.500	.610	1.000	1.000	.054	.000
2338.750	.550	1.000	1.000	.054	.000
2339.000	.445	1.000	1.000	.061	.000
2339.250	.383	1.000	1.000	.075	.000
2339.500	.309	1.000	1.000	.096	.000
2339.750	.183	1.000	1.000	.141	.000
2340.000	.119	1.000	1.000	.160	.000
2340.250	.376	1.000	1.000	.083	.000
2340.500	.710	1.000	1.000	.004	.000
2340.750	.740	1.000	1.000	.004	.000
2341.000	.655	1.000	1.000	.030	.000
2341.250	.630	1.000	1.000	.045	.000
2341.500	.573	1.000	1.000	.063	.000
2341.750	.479	1.000	1.000	.089	.000
2342.000	.407	1.000	1.000	.109	.000
2342.250	.378	1.000	1.000	.112	.000
2342.500	.410	1.000	1.000	.105	.000
2342.750	.441	1.000	1.000	.104	.000
2343.000	.379	1.000	1.000	.113	.000
2343.250	.378	1.000	1.000	.109	.000
2343.500	.454	1.000	1.000	.098	.000
2343.750	.468	1.000	1.000	.096	.000
2344.000	.442	1.000	1.000	.099	.000
2344.250	.416	1.000	1.000	.100	.000
2344.500	.408	1.000	1.000	.096	.000
2344.750	.499	1.000	1.000	.074	.000
2345.000	.498	1.000	1.000	.082	.000
2345.250	.284	1.000	1.000	.149	.000
2345.500	.140	1.000	1.000	.199	.000
2345.750	.117	1.000	1.000	.223	.000
2346.000	.095	1.000	1.000	.238	.000
2346.250	.063	1.000	1.000	.232	.000
2346.500	.044	1.000	1.000	.223	.000
2346.750	.067	1.000	1.000	.229	.000
2347.000	.076	1.000	1.000	.224	.000

2347.250	.079	1.000	1.000	.207	.000
2347.500	.070	1.000	1.000	.197	.000
2347.750	.138	1.000	1.000	.177	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2348.000	.271	1.000	1.000	.156	.000
2348.250	.288	1.000	1.000	.151	.000
2348.500	.271	1.000	1.000	.142	.000
2348.750	.287	1.000	1.000	.129	.000
2349.000	.247	1.000	1.000	.125	.000
2349.250	.169	1.000	1.000	.144	.000
2349.500	.143	1.000	1.000	.184	.000
2349.750	.118	1.000	1.000	.208	.000
2350.000	.133	1.000	1.000	.197	.000
2350.250	.168	1.000	1.000	.099	.000
2350.500	.160	1.000	1.000	.007	.000
2350.750	.138	1.000	1.000	.000	.000
2351.000	.153	1.000	1.000	.000	.000
2351.250	.176	1.000	1.000	.000	.000
2351.500	.134	1.000	1.000	.000	.000
2351.750	.139	1.000	1.000	.000	.000
2352.000	.147	1.000	1.000	.000	.000
2352.250	.085	1.000	1.000	.000	.000
2352.500	.000	1.000	1.000	.000	.000
2352.750	.000	1.000	1.000	.000	.000
2353.000	.000	1.000	1.000	.000	.000
2353.250	.098	1.000	1.000	.060	.000
2353.500	.132	1.000	1.000	.000	.000
2353.750	.111	1.000	1.000	.000	.000
2354.000	.058	1.000	1.000	.000	.000
2354.250	.000	1.000	1.000	.000	.000
2354.500	.000	1.000	1.000	.000	.000
2354.750	.000	1.000	1.000	.000	.000
2355.000	.050	1.000	1.000	.214	.000
2355.250	.151	1.000	1.000	.188	.000
2355.500	.174	1.000	1.000	.120	.000
2355.750	.213	1.000	1.000	.010	.000
2356.000	.170	1.000	1.000	.000	.000
2356.250	.142	1.000	1.000	.000	.000
2356.500	.130	1.000	1.000	.000	.000
2356.750	.102	1.000	1.000	.000	.000
2357.000	.045	1.000	1.000	.015	.000
2357.250	.000	1.000	1.000	.015	.000
2357.500	.000	1.000	1.000	.015	.000
2357.750	.016	1.000	1.000	.192	.000
2358.000	.084	1.000	1.000	.193	.000
2358.250	.123	1.000	1.000	.177	.000
2358.500	.063	1.000	1.000	.178	.000
2358.750	.006	1.000	1.000	.178	.000
2359.000	.000	1.000	1.000	.178	.000
2359.250	.000	1.000	1.000	.178	.000
2359.500	.025	1.000	1.000	.154	.000
2359.750	.042	1.000	1.000	.142	.000
2360.000	.024	1.000	1.000	.142	.000
2360.250	.011	1.000	1.000	.148	.000
2360.500	.037	1.000	1.000	.144	.000
2360.750	.059	1.000	1.000	.139	.000
2361.000	.054	1.000	1.000	.144	.000
2361.250	.060	1.000	1.000	.151	.000
2361.500	.057	1.000	1.000	.153	.000
2361.750	.044	1.000	1.000	.140	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2362.000	.151	1.000	1.000	.059	.000
2362.250	.251	1.000	1.000	.000	.000
2362.500	.167	1.000	1.000	.000	.000
2362.750	.162	1.000	1.000	.000	.000
2363.000	.222	1.000	1.000	.000	.000
2363.250	.220	1.000	1.000	.000	.000
2363.500	.148	1.000	1.000	.024	.000
2363.750	.027	1.000	1.000	.085	.000
2364.000	.000	1.000	1.000	.000	.000
2364.250	.000	1.000	1.000	.000	.000
2364.500	.000	1.000	1.000	.000	.000
2364.750	.000	1.000	1.000	.000	.000
2365.000	.000	1.000	1.000	.000	.000
2365.250	.000	1.000	1.000	.000	.000
2365.500	.000	1.000	1.000	.000	.000
2365.750	.000	1.000	1.000	.000	.000
2366.000	.000	1.000	1.000	.000	.000
2366.250	.000	1.000	1.000	.000	.000
2366.500	.000	1.000	1.000	.000	.000
2366.750	.000	1.000	1.000	.000	.000
2367.000	.000	1.000	1.000	.000	.000
2367.250	.750	1.000	1.000	.010	.000
2367.500	.750	1.000	1.000	.010	.000
2367.750	.750	1.000	1.000	.010	.000
2368.000	.750	1.000	1.000	.010	.000
2368.250	.750	1.000	1.000	.010	.000
2368.500	.750	1.000	1.000	.010	.000
2368.750	.750	1.000	1.000	.010	.000
2369.000	.750	1.000	1.000	.010	.000
2369.250	.656	1.000	1.000	.009	.000
2369.500	.511	1.000	1.000	.045	.000
2369.750	.493	1.000	1.000	.052	.000
2370.000	.597	1.000	1.000	.060	.000
2370.250	.750	1.000	1.000	.010	.000
2370.500	.750	1.000	1.000	.010	.000
2370.750	.750	1.000	1.000	.010	.000
2371.000	.750	1.000	1.000	.010	.000
2371.250	.750	1.000	1.000	.010	.000
2371.500	.750	1.000	1.000	.010	.000
2371.750	.692	1.000	1.000	.003	.000
2372.000	.000	1.000	1.000	.000	.000
2372.250	.000	1.000	1.000	.000	.000
2372.500	.000	1.000	1.000	.000	.000
2372.750	.000	1.000	1.000	.000	.000
2373.000	.000	1.000	1.000	.000	.000
2373.250	.000	1.000	1.000	.000	.000
2373.500	.000	1.000	1.000	.000	.000
2373.750	.000	1.000	1.000	.000	.000
2374.000	.000	1.000	1.000	.000	.000
2374.250	.750	1.000	1.000	.010	.000
2374.500	.750	1.000	1.000	.010	.000
2374.750	.750	1.000	1.000	.010	.000
2375.000	.750	1.000	1.000	.010	.000
2375.250	.750	1.000	1.000	.010	.000
2375.500	.750	1.000	1.000	.029	.000
2375.750	.695	1.000	1.000	.033	.000

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BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2376.000	.675	1.000	1.000	.029	.000
2376.250	.625	1.000	1.000	.029	.000
2376.500	.575	1.000	1.000	.035	.000
2376.750	.564	1.000	1.000	.040	.000
2377.000	.490	1.000	1.000	.059	.000
2377.250	.423	1.000	1.000	.074	.000

2377.500	.440	1.000	1.000	.072	.000
2377.750	.456	1.000	1.000	.077	.000
2378.000	.334	1.000	1.000	.113	.000
2378.250	.207	1.000	1.000	.142	.000
2378.500	.186	1.000	1.000	.147	.000
2378.750	.270	1.000	1.000	.136	.000
2379.000	.306	1.000	1.000	.129	.000
2379.250	.201	1.000	1.000	.162	.000
2379.500	.149	1.000	1.000	.197	.000
2379.750	.150	1.000	1.000	.196	.000
2380.000	.138	1.000	1.000	.181	.000
2380.250	.110	1.000	1.000	.183	.000
2380.500	.117	1.000	1.000	.183	.000
2380.750	.123	1.000	1.000	.183	.000
2381.000	.104	1.000	1.000	.181	.000
2381.250	.097	1.000	1.000	.168	.000
2381.500	.116	1.000	1.000	.156	.000
2381.750	.136	1.000	1.000	.145	.000
2382.000	.130	1.000	1.000	.156	.000
2382.250	.110	1.000	1.000	.188	.000
2382.500	.102	1.000	1.000	.203	.000
2382.750	.101	1.000	1.000	.203	.000
2383.000	.122	1.000	1.000	.189	.000
2383.250	.171	1.000	1.000	.155	.000
2383.500	.233	1.000	1.000	.117	.000
2383.750	.269	1.000	1.000	.111	.000
2384.000	.284	1.000	1.000	.119	.000
2384.250	.308	1.000	1.000	.112	.000
2384.500	.247	1.000	1.000	.119	.000
2384.750	.251	1.000	1.000	.134	.000
2385.000	.222	1.000	1.000	.146	.000
2385.250	.165	1.000	1.000	.171	.000
2385.500	.104	1.000	1.000	.201	.000
2385.750	.075	1.000	1.000	.203	.000
2386.000	.042	1.000	1.000	.192	.000
2386.250	.102	1.000	1.000	.165	.000
2386.500	.000	1.000	1.000	.000	.000
2386.750	.000	1.000	1.000	.000	.000
2387.000	.000	1.000	1.000	.000	.000
2387.250	.000	1.000	1.000	.000	.000
2387.500	.000	1.000	1.000	.000	.000
2387.750	.000	1.000	1.000	.000	.000
2388.000	.000	1.000	1.000	.000	.000
2388.250	.000	1.000	1.000	.000	.000
2388.500	.000	1.000	1.000	.000	.000
2388.750	.000	1.000	1.000	.000	.000
2389.000	.000	1.000	1.000	.000	.000
2389.250	.000	1.000	1.000	.000	.000
2389.500	.000	1.000	1.000	.000	.000
2389.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2390.000	.000	1.000	1.000	.000	.000
2390.250	.000	1.000	1.000	.000	.000
2390.500	.000	1.000	1.000	.000	.000
2390.750	.000	1.000	1.000	.000	.000
2391.000	.000	1.000	1.000	.000	.000
2391.250	.000	1.000	1.000	.000	.000
2391.500	.000	1.000	1.000	.000	.000
2391.750	.000	1.000	1.000	.000	.000
2392.000	.000	1.000	1.000	.000	.000
2392.250	.715	1.000	1.000	.002	.000
2392.500	.655	1.000	1.000	.017	.000
2392.750	.660	1.000	1.000	.006	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2393.000	.720	1.000	1.000	.000	.000
2393.250	.685	1.000	1.000	.000	.000
2393.500	.615	1.000	1.000	.032	.000
2393.750	.635	1.000	1.000	.040	.000
2394.000	.660	1.000	1.000	.058	.000
2394.250	.680	1.000	1.000	.096	.000
2394.500	.627	1.000	1.000	.115	.000
2394.750	.424	1.000	1.000	.144	.000
2395.000	.188	1.000	1.000	.189	.000
2395.250	.064	1.000	1.000	.206	.000
2395.500	.125	1.000	1.000	.185	.000
2395.750	.151	1.000	1.000	.171	.000
2396.000	.111	1.000	1.000	.172	.000
2396.250	.063	1.000	1.000	.189	.000
2396.500	.014	1.000	1.000	.210	.000
2396.750	.019	1.000	1.000	.214	.000
2397.000	.027	1.000	1.000	.216	.000
2397.250	.025	1.000	1.000	.219	.000
2397.500	.007	1.000	1.000	.227	.000
2397.750	.013	1.000	1.000	.221	.000
2398.000	.000	1.000	1.000	.221	.000
2398.250	.000	1.000	1.000	.221	.000
2398.500	.000	1.000	1.000	.221	.000
2398.750	.015	1.000	1.000	.219	.000
2399.000	.051	1.000	1.000	.207	.000
2399.250	.054	1.000	1.000	.207	.000
2399.500	.080	1.000	1.000	.204	.000
2399.750	.118	1.000	1.000	.195	.000
2400.000	.130	1.000	1.000	.187	.000
2400.250	.098	1.000	1.000	.194	.000
2400.500	.065	.957	.957	.213	.009
2400.750	.027	.990	.990	.216	.002
2401.000	.043	1.000	1.000	.207	.000
2401.250	.067	.991	.991	.210	.002
2401.500	.051	.979	.979	.220	.005
2401.750	.047	.987	.987	.226	.003
2402.000	.015	.977	.977	.234	.005
2402.250	.005	1.000	1.000	.234	.000
2402.500	.093	1.000	1.000	.197	.000
2402.750	.360	1.000	1.000	.100	.000
2403.000	.660	1.000	1.000	.001	.000
2403.250	.750	1.000	1.000	.001	.000
2403.500	.705	1.000	1.000	.001	.000
2403.750	.580	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2404.000	.974	.980	.980	.026	.001
2404.250	.803	.792	.792	.112	.023
2404.500	.358	.818	.818	.098	.018
2404.750	.969	.913	.913	.031	.003
2405.000	.972	.892	.892	.028	.003
2405.250	.974	.937	.937	.026	.002
2405.500	.981	.979	.979	.019	.000
2405.750	.975	.870	.870	.025	.003
2406.000	.439	.705	.705	.099	.029
2406.250	.308	.821	.821	.143	.026
2406.500	.095	.881	.881	.182	.022
2406.750	.035	.880	.880	.180	.022
2407.000	.122	.804	.804	.149	.029
2407.250	.147	.821	.821	.148	.027
2407.500	.077	.852	.852	.180	.026
2407.750	.036	.910	.910	.191	.017
2408.000	.085	.999	.999	.163	.000
2408.250	.169	1.000	1.000	.123	.000

2408.500	.198	1.000	1.000	.121	.000
2408.750	.190	.990	.990	.144	.002
2409.000	.280	1.000	1.000	.108	.000
2409.250	.336	1.000	1.000	.081	.000
2409.500	.258	1.000	1.000	.116	.000
2409.750	.208	1.000	1.000	.135	.000
2410.000	.167	1.000	1.000	.135	.000
2410.250	.188	1.000	1.000	.146	.000
2410.500	.174	.948	.948	.165	.009
2410.750	.180	.949	.949	.171	.009
2411.000	.160	.961	.961	.179	.003
2411.250	.092	1.000	1.000	.171	.000
2411.500	.097	1.000	1.000	.131	.000
2411.750	.114	1.000	1.000	.112	.000
2412.000	.153	.984	.984	.128	.002
2412.250	.193	.998	.998	.146	.000
2412.500	.195	1.000	1.000	.162	.000
2412.750	.118	.897	.897	.195	.020
2413.000	.050	.877	.877	.218	.027
2413.250	.050	.922	.922	.223	.017
2413.500	.101	1.000	1.000	.203	.000
2413.750	.132	1.000	1.000	.189	.000
2414.000	.000	1.000	1.000	.000	.000
2414.250	.000	1.000	1.000	.000	.000
2414.500	.000	1.000	1.000	.000	.000
2414.750	.000	1.000	1.000	.000	.000
2415.000	.000	1.000	1.000	.000	.000
2415.250	.000	1.000	1.000	.000	.000
2415.500	.000	1.000	1.000	.000	.000
2415.750	.000	1.000	1.000	.000	.000
2416.000	.000	1.000	1.000	.000	.000
2416.250	1.000	1.000	.981	.000	.000
2416.500	.750	1.000	1.000	.000	.000
2416.750	.750	1.000	1.000	.000	.000
2417.000	.660	1.000	1.000	.000	.000
2417.250	.505	1.000	1.000	.000	.000
2417.500	.412	1.000	1.000	.000	.000
2417.750	.319	.806	.806	.099	.019

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BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2418.000	.160	.786	.786	.151	.032
2418.250	.000	.839	.839	.199	.032
2418.500	.000	.902	.902	.215	.021
2418.750	.000	.902	.902	.215	.021
2419.000	.000	.899	.899	.207	.021
2419.250	.000	.904	.904	.203	.019
2419.500	.020	.905	.905	.201	.019
2419.750	.062	.951	.951	.184	.009
2420.000	.055	.968	.968	.179	.006
2420.250	.052	.972	.972	.185	.005
2420.500	.075	.979	.979	.185	.004
2420.750	.046	.922	.922	.192	.015
2421.000	.000	.906	.906	.203	.019
2421.250	.024	.899	.899	.205	.021
2421.500	.129	.922	.922	.179	.014
2421.750	.121	.933	.933	.172	.012
2422.000	.099	.949	.949	.173	.009
2422.250	.111	.949	.949	.162	.008
2422.500	.125	.967	.967	.154	.005
2422.750	.149	.980	.980	.147	.003
2423.000	.149	.993	.993	.148	.001
2423.250	.141	.947	.947	.151	.008
2423.500	.176	.991	.991	.129	.001
2423.750	.200	1.000	1.000	.108	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2424.000	.153	.895	.895	.135	.014
2424.250	.095	.880	.880	.186	.022
2424.500	.138	.952	.952	.193	.009
2424.750	.109	1.000	1.000	.176	.000
2425.000	.083	1.000	1.000	.167	.000
2425.250	.056	1.000	1.000	.172	.000
2425.500	.035	.973	.973	.185	.005
2425.750	.009	.946	.946	.197	.011
2426.000	.000	.991	.991	.198	.002
2426.250	.030	1.000	1.000	.194	.000
2426.500	.062	1.000	1.000	.184	.000
2426.750	.034	1.000	1.000	.180	.000
2427.000	.049	1.000	1.000	.169	.000
2427.250	.080	1.000	1.000	.154	.000
2427.500	.149	.969	.969	.135	.004
2427.750	.217	.999	.999	.115	.000
2428.000	.219	1.000	1.000	.118	.000
2428.250	.153	.964	.964	.158	.002
2428.500	.123	.923	.923	.182	.014
2428.750	.121	.926	.926	.179	.013
2429.000	.065	.934	.934	.184	.012
2429.250	.047	.995	.995	.188	.001
2429.500	.000	1.000	1.000	.000	.000
2429.750	.000	1.000	1.000	.000	.000
2430.000	.000	1.000	1.000	.000	.000
2430.250	.000	1.000	1.000	.000	.000
2430.500	.000	1.000	1.000	.000	.000
2430.750	.000	1.000	1.000	.000	.000
2431.000	.000	1.000	1.000	.000	.000
2431.250	.000	1.000	1.000	.000	.000
2431.500	.000	1.000	1.000	.000	.000
2431.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2432.000	.000	1.000	1.000	.000	.000
2432.250	.000	1.000	1.000	.000	.000
2432.500	.000	1.000	1.000	.000	.000
2432.750	.000	1.000	1.000	.000	.000
2433.000	.000	1.000	1.000	.000	.000
2433.250	.000	1.000	1.000	.000	.000
2433.500	.000	1.000	1.000	.000	.000
2433.750	.000	1.000	1.000	.000	.000
2434.000	.000	1.000	1.000	.000	.000
2434.250	.000	1.000	1.000	.000	.000
2434.500	.000	1.000	1.000	.000	.000
2434.750	.000	1.000	1.000	.000	.000
2435.000	.000	1.000	1.000	.000	.000
2435.250	.427	.912	.912	.058	.005
2435.500	.435	1.000	1.000	.001	.000
2435.750	.480	1.000	1.000	.001	.000
2436.000	.494	1.000	1.000	.001	.000
2436.250	.452	1.000	1.000	.001	.000
2436.500	.458	1.000	1.000	.001	.000
2436.750	.407	1.000	1.000	.055	.000
2437.000	.295	.938	.938	.087	.005
2437.250	.264	.862	.862	.096	.013
2437.500	.329	.852	.852	.089	.013
2437.750	.293	.810	.810	.106	.020
2438.000	.226	.814	.814	.125	.023
2438.250	.189	.839	.889	.130	.015
2438.500	.195	.879	.879	.124	.015
2438.750	.278	.945	.945	.101	.006
2439.000	.287	.996	.996	.096	.000
2439.250	.300	.990	.990	.095	.001

2439.500	.393	1.000	1.000	.069	.000
2439.750	.456	1.000	1.000	.053	.000
2440.000	.456	1.000	1.000	.063	.000
2440.250	.403	1.000	1.000	.078	.000
2440.500	.347	1.000	1.000	.105	.000
2440.750	.265	.999	.999	.140	.000
2441.000	.187	.953	.953	.158	.008
2441.250	.158	.908	.908	.171	.016
2441.500	.204	.901	.901	.159	.016
2441.750	.249	.955	.955	.136	.006
2442.000	.219	.922	.922	.168	.013
2442.250	.153	.975	.975	.215	.005
2442.500	.096	1.000	1.000	.234	.000
2442.750	.127	.991	.991	.209	.002
2443.000	.227	1.000	1.000	.171	.000
2443.250	.189	.938	.938	.171	.011
2443.500	.133	.954	.954	.160	.007
2443.750	.243	.990	.990	.112	.001
2444.000	.425	1.000	1.000	.001	.000
2444.250	.455	1.000	1.000	.001	.000
2444.500	.390	1.000	1.000	.001	.000
2444.750	.251	1.000	1.000	.087	.000
2445.000	.316	.884	.884	.096	.011
2445.250	.951	.805	.805	.049	.010
2445.500	.953	.733	.733	.047	.012
2445.750	.951	.670	.670	.049	.016

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2446.000	.691	.411	.411	.109	.064
2446.250	.930	.535	.535	.070	.033
2446.500	.969	.767	.767	.031	.007
2446.750	.750	1.000	1.000	.001	.000
2447.000	.745	1.000	1.000	.001	.000
2447.250	.750	1.000	1.000	.001	.000
2447.500	.750	1.000	1.000	.001	.000
2447.750	.740	1.000	1.000	.001	.000
2448.000	.987	1.000	1.000	.013	.000
2448.250	.977	1.000	1.000	.023	.000
2448.500	.962	.925	.925	.038	.003
2448.750	.966	.878	.878	.034	.004
2449.000	.750	1.000	1.000	.001	.000
2449.250	.750	1.000	1.000	.001	.000
2449.500	.750	1.000	1.000	.001	.000
2449.750	.750	1.000	1.000	.001	.000
2450.000	.750	1.000	1.000	.001	.000
2450.250	.750	1.000	1.000	.001	.000
2450.500	.750	1.000	1.000	.001	.000
2450.750	.750	1.000	1.000	.001	.000
2451.000	.750	1.000	1.000	.001	.000
2451.250	.750	1.000	1.000	.001	.000
2451.500	.700	1.000	1.000	.001	.000
2451.750	.660	1.000	1.000	.001	.000
2452.000	.645	1.000	1.000	.001	.000
2452.250	.615	1.000	1.000	.001	.000
2452.500	.554	1.000	1.000	.001	.000
2452.750	.520	1.000	1.000	.001	.000
2453.000	.520	1.000	1.000	.001	.000
2453.250	.576	1.000	1.000	.001	.000
2453.500	.609	1.000	1.000	.001	.000
2453.750	.562	1.000	1.000	.001	.000
2454.000	.546	1.000	1.000	.001	.000
2454.250	.521	1.000	1.000	.001	.000
2454.500	.443	1.000	1.000	.001	.000
2454.750	.374	1.000	1.000	.001	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2455.000	.309	.954	.954	.098	.005
2455.250	.184	.913	.913	.154	.013
2455.500	.112	.967	.967	.191	.006
2455.750	.108	1.000	1.000	.197	.000
2456.000	.135	1.000	1.000	.196	.000
2456.250	.139	1.000	1.000	.197	.000
2456.500	.492	1.000	.879	.105	.013
2456.750	.974	.823	.823	.026	.005
2457.000	.750	1.000	1.000	.001	.000
2457.250	.750	1.000	1.000	.001	.000
2457.500	.750	1.000	1.000	.001	.000
2457.750	.986	.864	.864	.014	.002
2458.000	.685	1.000	1.000	.001	.000
2458.250	.614	1.000	1.000	.001	.000
2458.500	.735	1.000	1.000	.001	.000
2458.750	.750	1.000	1.000	.001	.000
2459.000	.750	1.000	1.000	.001	.000
2459.250	.611	1.000	1.000	.001	.000
2459.500	.570	1.000	1.000	.001	.000
2459.750	.585	1.000	1.000	.001	.000

1 AREA #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2460.000	.560	1.000	1.000	.001	.000
2460.250	.540	1.000	1.000	.001	.000
2460.500	.530	1.000	1.000	.001	.000
2460.750	.513	1.000	1.000	.001	.000
2461.000	.538	1.000	1.000	.001	.000
2461.250	.610	1.000	1.000	.001	.000
2461.500	.655	1.000	1.000	.001	.000
2461.750	.630	1.000	1.000	.001	.000
2462.000	.600	1.000	1.000	.001	.000
2462.250	.595	1.000	1.000	.001	.000
2462.500	.502	.395	.395	.163	.098
2462.750	.410	1.000	1.000	.001	.000
2463.000	.405	1.000	1.000	.001	.000
2463.250	.520	1.000	1.000	.001	.000
2463.500	.510	1.000	1.000	.001	.000
2463.750	.970	.955	.955	.030	.001
2464.000	.266	.724	.724	.132	.036
2464.250	.214	.715	.713	.153	.044
2464.500	.173	.734	.734	.171	.046
2464.750	.059	.782	.782	.205	.045
2465.000	.000	.843	.843	.213	.033
2465.250	.072	.902	.902	.186	.018
2465.500	.240	.935	.935	.136	.009
2465.750	.264	.896	.896	.111	.012
2466.000	.292	.838	.838	.106	.017
2466.250	.315	.901	.901	.097	.010
2466.500	.395	1.000	1.000	.075	.000
2466.750	.392	1.000	1.000	.067	.000
2467.000	.339	1.000	1.000	.077	.000
2467.250	.314	1.000	1.000	.083	.000
2467.500	.324	.975	.975	.082	.002
2467.750	.306	.933	.933	.087	.006
2468.000	.261	.879	.879	.109	.013
2468.250	.271	.804	.804	.126	.025
2468.500	.341	.750	.750	.113	.028
2468.750	.405	.606	.606	.101	.040
2469.000	.000	1.000	1.000	.000	.000
2469.250	.000	1.000	1.000	.000	.000
2469.500	.000	1.000	1.000	.000	.000
2469.750	.000	1.000	1.000	.000	.000
2470.000	.000	1.000	1.000	.000	.000
2470.250	.000	1.000	1.000	.000	.000

2470.500	.000	1.000	1.000	.000	.000
2470.750	.000	1.000	1.000	.000	.000
2471.000	.000	1.000	1.000	.000	.000
2471.250	.000	1.000	1.000	.000	.000
2471.500	.000	1.000	1.000	.000	.000
2471.750	.000	1.000	1.000	.000	.000
2472.000	.000	1.000	1.000	.000	.000
2472.250	.000	1.000	1.000	.000	.000
2472.500	.000	1.000	1.000	.000	.000
2472.750	.000	1.000	1.000	.000	.000
2473.000	.000	1.000	1.000	.000	.000
2473.250	.000	1.000	1.000	.000	.000
2473.500	.000	1.000	1.000	.000	.000
2473.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2474.000	.000	1.000	1.000	.000	.000
2474.250	.000	1.000	1.000	.000	.000
2474.500	.000	1.000	1.000	.000	.000
2474.750	.000	1.000	1.000	.000	.000
2475.000	.000	1.000	1.000	.000	.000
2475.250	.000	1.000	1.000	.000	.000
2475.500	.000	1.000	1.000	.000	.000
2475.750	.000	1.000	1.000	.000	.000
2476.000	.000	1.000	1.000	.000	.000
2476.250	.407	.421	.397	.125	.076
2476.500	.580	.272	.272	.137	.100
2476.750	.704	.266	.266	.127	.093
2477.000	.516	.324	.324	.135	.091
2477.250	.285	.397	.397	.153	.092
2477.500	.327	.510	.510	.114	.056
2477.750	.553	.674	.674	.050	.016
2478.000	.988	.775	.775	.012	.003
2478.250	.725	1.000	1.000	.001	.000
2478.500	.750	1.000	1.000	.001	.000
2478.750	.750	1.000	1.000	.001	.000
2479.000	.710	1.000	1.000	.001	.000
2479.250	.750	1.000	1.000	.001	.000
2479.500	.000	1.000	1.000	.000	.000
2479.750	.000	1.000	1.000	.000	.000
2480.000	.000	1.000	1.000	.000	.000
2480.250	.000	1.000	1.000	.000	.000
2480.500	.000	1.000	1.000	.000	.000
2480.750	.000	1.000	1.000	.000	.000
2481.000	.000	1.000	1.000	.000	.000
2481.250	.000	1.000	1.000	.000	.000
2481.500	.000	1.000	1.000	.000	.000
2481.750	.000	1.000	1.000	.000	.000
2482.000	.000	1.000	1.000	.000	.000
2482.250	.000	1.000	1.000	.000	.000
2482.500	.000	1.000	1.000	.000	.000
2482.750	.000	1.000	1.000	.000	.000
2483.000	.000	1.000	1.000	.000	.000
2483.250	.000	1.000	1.000	.000	.000
2483.500	.000	1.000	1.000	.000	.000
2483.750	.000	1.000	1.000	.000	.000
2484.000	.000	1.000	1.000	.000	.000
2484.250	.979	.724	.724	.021	.006
2484.500	.680	1.000	1.000	.001	.000
2484.750	.645	1.000	1.000	.001	.000
2485.000	.680	1.000	1.000	.001	.000
2485.250	.675	1.000	1.000	.001	.000
2485.500	.660	1.000	1.000	.001	.000
2485.750	.675	1.000	1.000	.001	.000

2486.000	.695	1.000	1.000	.001	.000
2486.250	.750	1.000	1.000	.001	.000
2486.500	.969	.519	.519	.031	.015
2486.750	.980	.585	.585	.020	.008
2487.000	.964	.586	.586	.036	.015
2487.250	.372	.442	.442	.120	.067
2487.500	.231	.631	.430	.142	.081
2487.750	.190	.630	.443	.136	.076

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2488.000	.186	.543	.441	.133	.074
2488.250	.149	.639	.430	.137	.078
2488.500	.202	.545	.465	.122	.065
2488.750	.000	1.000	1.000	.000	.000
2489.000	.000	1.000	1.000	.000	.000
2489.250	.000	1.000	1.000	.000	.000
2489.500	.000	1.000	1.000	.000	.000
2489.750	.000	1.000	1.000	.000	.000
2490.000	.000	1.000	1.000	.000	.000
2490.250	.675	1.000	1.000	.001	.000
2490.500	.574	1.000	1.000	.001	.000
2490.750	.534	1.000	1.000	.001	.000
2491.000	.469	.906	.906	.050	.005
2491.250	.466	.839	.839	.057	.009
2491.500	.435	.790	.790	.067	.014
2491.750	.409	.751	.751	.076	.019
2492.000	.393	.696	.696	.082	.025
2492.250	.389	.648	.648	.087	.031
2492.500	.390	.640	.640	.089	.032
2492.750	.364	.649	.649	.090	.032
2493.000	.370	.695	.695	.081	.025
2493.250	.393	.728	.728	.073	.020
2493.500	.339	.645	.645	.091	.032
2493.750	.316	.575	.575	.104	.044
2494.000	.273	.527	.527	.119	.056
2494.250	.281	.517	.517	.119	.057
2494.500	.310	.589	.588	.098	.040
2494.750	.303	.617	.580	.094	.039
2495.000	.264	.510	.501	.114	.057
2495.250	.187	.503	.359	.139	.089
2495.500	.145	.514	.361	.141	.090
2495.750	.193	.527	.472	.129	.068
2496.000	.257	.665	.442	.113	.063
2496.250	.296	.700	.474	.109	.057
2496.500	.282	.726	.494	.114	.058
2496.750	.276	.781	.501	.112	.056
2497.000	.278	.593	.593	.114	.046
2497.250	.249	.607	.565	.129	.056
2497.500	.230	.628	.628	.137	.051
2497.750	.186	.676	.676	.143	.046
2498.000	.125	.709	.709	.156	.045
2498.250	.000	.737	.737	.183	.048
2498.500	.000	.744	.743	.192	.049
2498.750	.046	.784	.784	.183	.040
2499.000	.051	.812	.812	.177	.033
2499.250	.044	.850	.850	.178	.027
2499.500	.071	.903	.903	.181	.018
2499.750	.098	.906	.837	.198	.032
2500.000	.000	1.000	1.000	.000	.000
2500.250	.000	1.000	1.000	.000	.000
2500.500	.000	1.000	1.000	.000	.000
2500.750	.000	1.000	1.000	.000	.000
2501.000	.000	1.000	1.000	.000	.000
2501.250	.000	1.000	1.000	.000	.000

2501.500	.000	1.000	1.000	.000	.000
2501.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2502.000	.000	1.000	1.000	.000	.000
2502.250	.000	1.000	1.000	.000	.000
2502.500	.000	1.000	1.000	.000	.000
2502.750	.000	1.000	1.000	.000	.000
2503.000	.000	1.000	1.000	.000	.000
2503.250	.000	1.000	1.000	.000	.000
2503.500	.000	1.000	1.000	.000	.000
2503.750	.000	1.000	1.000	.000	.000
2504.000	.000	1.000	1.000	.000	.000
2504.250	.000	1.000	1.000	.001	.000
2504.500	.000	1.000	1.000	.001	.000
2504.750	.000	1.000	1.000	.001	.000
2505.000	.000	1.000	1.000	.001	.000
2505.250	.306	.825	.823	.099	.018
2505.500	.086	.827	.827	.166	.029
2505.750	.044	.817	.817	.178	.033
2506.000	.114	.846	.846	.151	.023
2506.250	.131	.881	.881	.144	.017
2506.500	.044	.834	.834	.171	.028
2506.750	.000	.755	.755	.191	.047
2507.000	.000	.752	.752	.187	.046
2507.250	.000	.780	.780	.171	.038
2507.500	.000	.792	.792	.162	.034
2507.750	.000	.812	.812	.156	.029
2508.000	.000	.800	.800	.160	.032
2508.250	.000	.806	.806	.164	.032
2508.500	.000	.825	.825	.158	.028
2508.750	.000	.801	.801	.137	.027
2509.000	.000	1.000	1.000	.000	.000
2509.250	.000	1.000	1.000	.000	.000
2509.500	.000	1.000	1.000	.000	.000
2509.750	.000	1.000	1.000	.000	.000
2510.000	.000	1.000	1.000	.000	.000
2510.250	.000	1.000	1.000	.000	.000
2510.500	.000	1.000	1.000	.000	.000
2510.750	.000	1.000	1.000	.000	.000
2511.000	.000	1.000	1.000	.000	.000
2511.250	.947	.500	.500	.053	.026
2511.500	.506	.512	.512	.076	.037
2511.750	.419	.570	.570	.073	.031
2512.000	.288	.556	.556	.092	.041
2512.250	.137	.444	.444	.142	.079
2512.500	.197	.430	.430	.166	.094
2512.750	.184	.489	.489	.178	.091
2513.000	.000	.574	.574	.205	.087
2513.250	.000	.674	.674	.201	.066
2513.500	.020	.745	.717	.188	.053
2513.750	.009	.670	.670	.179	.059
2514.000	.039	.656	.656	.165	.057
2514.250	.068	.743	.743	.154	.040
2514.500	.090	.825	.794	.152	.031
2514.750	.051	.764	.764	.160	.038
2515.000	.103	.739	.711	.148	.043
2515.250	.311	.678	.678	.113	.036
2515.500	.435	.716	.716	.098	.028
2515.750	.330	.829	.829	.105	.018

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2516.000	.285	.918	.918	.106	.009

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2516.250	.197	.803	.803	.131	.026
2516.500	.133	.738	.738	.158	.042
2516.750	.073	.693	.693	.172	.053
2517.000	.145	.725	.725	.153	.042
2517.250	.200	.737	.737	.138	.036
2517.500	.216	.761	.761	.133	.032
2517.750	.209	.808	.808	.127	.024
2518.000	.228	.858	.858	.119	.017
2518.250	.267	.878	.758	.117	.028
2518.500	.251	.814	.814	.137	.026
2518.750	.152	.729	.729	.177	.048
2519.000	.028	.710	.710	.215	.062
2519.250	.104	.649	.589	.216	.089
2519.500	.000	1.000	1.000	.000	.000
2519.750	.000	1.000	1.000	.000	.000
2520.000	.000	1.000	1.000	.000	.000
2520.250	.000	1.000	1.000	.000	.000
2520.500	.000	1.000	1.000	.000	.000
2520.750	.000	1.000	1.000	.000	.000
2521.000	.000	1.000	1.000	.000	.000
2521.250	.362	.960	.980	.072	.001
2521.500	.359	1.000	1.000	.063	.000
2521.750	.400	1.000	1.000	.050	.000
2522.000	.389	1.000	1.000	.051	.000
2522.250	.380	1.000	1.000	.058	.000
2522.500	.290	1.000	1.000	.078	.000
2522.750	.323	1.000	1.000	.057	.000
2523.000	.000	1.000	1.000	.001	.000
2523.250	.000	1.000	1.000	.001	.000
2523.500	.000	1.000	1.000	.001	.000
2523.750	.665	.767	.767	.021	.005
2524.000	.551	.831	.831	.034	.006
2524.250	.382	.976	.976	.048	.001
2524.500	.321	.894	.894	.061	.006
2524.750	.335	.756	.756	.081	.020
2525.000	.276	.705	.705	.110	.032
2525.250	.146	.725	.725	.156	.043
2525.500	.052	.730	.730	.185	.050
2525.750	.000	.741	.741	.191	.049
2526.000	.000	.702	.702	.189	.056
2526.250	.000	.727	.727	.184	.050
2526.500	.000	.775	.775	.174	.039
2526.750	.000	.793	.793	.177	.037
2527.000	.000	1.000	1.000	.000	.000
2527.250	.000	1.000	1.000	.000	.000
2527.500	.000	1.000	1.000	.000	.000
2527.750	.000	1.000	1.000	.000	.000
2528.000	.000	1.000	1.000	.000	.000
2528.250	.000	1.000	1.000	.000	.000
2528.500	.000	1.000	1.000	.000	.000
2528.750	.000	1.000	1.000	.000	.000
2529.000	.000	1.000	1.000	.000	.000
2529.250	.964	.794	.794	.036	.007
2529.500	.957	.781	.781	.043	.009
2529.750	.959	.774	.774	.041	.009

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2530.000	.968	.774	.774	.032	.007
2530.250	.978	.775	.775	.022	.005
2530.500	.000	1.000	1.000	.001	.000
2530.750	.042	.595	.595	.037	.015
2531.000	.000	1.000	1.000	.001	.000
2531.250	.000	1.000	1.000	.001	.000
2531.500	.000	1.000	1.000	.001	.000

2531.750	.000	1.000	1.000	.001	.000
2532.000	.000	1.000	1.000	.001	.000
2532.250	.000	.608	.608	.025	.010
2532.500	.000	.632	.632	.017	.006
2532.750	.000	1.000	1.000	.001	.000
2533.000	.000	1.000	1.000	.001	.000
2533.250	.987	.590	.590	.013	.005
2533.500	.982	.572	.572	.018	.008
2533.750	.000	1.000	1.000	.001	.000
2534.000	.000	1.000	1.000	.001	.000
2534.250	.401	.727	.727	.066	.018
2534.500	.385	.758	.758	.071	.017
2534.750	.383	.865	.865	.067	.008
2535.000	.263	.868	.868	.093	.012
2535.250	.272	.854	.854	.091	.013
2535.500	.265	.824	.824	.088	.015
2535.750	.200	.789	.789	.100	.021
2536.000	.203	.882	.882	.099	.012
2536.250	.288	.938	.938	.074	.005
2536.500	.360	1.000	1.000	.050	.000
2536.750	.341	1.000	1.000	.059	.000
2537.000	.284	1.000	1.000	.091	.000
2537.250	.273	1.000	1.000	.102	.000
2537.500	.209	.998	.998	.119	.000
2537.750	.075	.884	.884	.156	.018
2538.000	.045	.890	.890	.161	.018
2538.250	.090	.902	.902	.146	.014
2538.500	.097	.902	.902	.135	.013
2538.750	.131	.936	.936	.119	.008
2539.000	.000	1.000	1.000	.000	.000
2539.250	.000	1.000	1.000	.000	.000
2539.500	.000	1.000	1.000	.000	.000
2539.750	.000	1.000	1.000	.000	.000
2540.000	.000	1.000	1.000	.000	.000
2540.250	.000	1.000	1.000	.000	.000
2540.500	.000	1.000	1.000	.000	.000
2540.750	.000	1.000	1.000	.000	.000
2541.000	.000	1.000	1.000	.000	.000
2541.250	.000	1.000	1.000	.001	.000
2541.500	.315	.703	.703	.083	.025
2541.750	.292	.707	.707	.090	.026
2542.000	.295	.760	.760	.084	.020
2542.250	.318	.813	.813	.078	.015
2542.500	.281	.872	.872	.082	.010
2542.750	.186	.780	.780	.106	.023
2543.000	.040	.662	.662	.148	.050
2543.250	.000	.653	.653	.163	.057
2543.500	.000	1.000	1.000	.000	.000
2543.750	.000	1.000	1.000	.000	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2544.000	.000	1.000	1.000	.000	.000
2544.250	.000	1.000	1.000	.000	.000
2544.500	.000	1.000	1.000	.000	.000
2544.750	.000	1.000	1.000	.000	.000
2545.000	.000	1.000	1.000	.000	.000
2545.250	.000	1.000	1.000	.000	.000
2545.500	.000	1.000	1.000	.000	.000
2545.750	.000	1.000	1.000	.000	.000
2546.000	.000	1.000	1.000	.000	.000
2546.250	.000	1.000	1.000	.000	.000
2546.500	.000	1.000	1.000	.000	.000
2546.750	.000	1.000	1.000	.000	.000
2547.000	.000	1.000	1.000	.000	.000

2547.250	.000	1.000	1.000	.000	.000
2547.500	.000	1.000	1.000	.000	.000
2547.750	.000	1.000	1.000	.000	.000
2548.000	.000	1.000	1.000	.000	.000
2548.250	.000	1.000	1.000	.000	.000
2548.500	.000	1.000	1.000	.000	.000
2548.750	.000	1.000	1.000	.000	.000
2549.000	.000	1.000	1.000	.000	.000
2549.250	.000	1.000	1.000	.001	.000
2549.500	.000	1.000	1.000	.001	.000
2549.750	.000	1.000	1.000	.001	.000
2550.000	.000	1.000	1.000	.001	.000
2550.250	.000	1.000	1.000	.001	.000
2550.500	.000	1.000	1.000	.001	.000
2550.750	.000	1.000	1.000	.001	.000
2551.000	.989	.848	.848	.011	.002
2551.250	.000	1.000	1.000	.001	.000
2551.500	.000	1.000	1.000	.001	.000
2551.750	.000	1.000	1.000	.001	.000
2552.000	.000	1.000	1.000	.001	.000
2552.250	.000	1.000	1.000	.001	.000
2552.500	.000	1.000	1.000	.001	.000
2552.750	.000	1.000	1.000	.001	.000
2553.000	.000	1.000	1.000	.001	.000
2553.250	.000	1.000	1.000	.001	.000
2553.500	.000	1.000	1.000	.001	.000
2553.750	.000	1.000	1.000	.001	.000
2554.000	.000	1.000	1.000	.000	.000
2554.250	.000	1.000	1.000	.000	.000
2554.500	.862	.172	.172	.000	.000
2554.750	.000	1.000	1.000	.000	.000
2555.000	.000	.666	.666	.000	.000
2555.250	.000	1.000	1.000	.001	.000
2555.500	.000	.463	.463	.065	.035
2555.750	.000	1.000	1.000	.001	.000
2556.000	.000	1.000	1.000	.001	.000
2556.250	.000	1.000	1.000	.001	.000
2556.500	.341	.640	.571	.083	.036
2556.750	.290	.700	.506	.101	.050
2557.000	.250	.707	.457	.115	.062
2557.250	.252	.602	.432	.112	.064
2557.500	.175	.745	.368	.111	.070
2557.750	.172	.561	.351	.115	.075

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2558.000	.144	.541	.338	.132	.088
2558.250	.139	.640	.420	.109	.063
2558.500	.069	1.000	.512	.103	.050
2558.750	.091	.830	.488	.121	.062
2559.000	.094	.950	.590	.106	.044
2559.250	.260	1.000	.808	.060	.012
2559.500	.321	.919	.718	.057	.016
2559.750	.325	.854	.706	.059	.017
2560.000	.260	.880	.730	.063	.017
2560.250	.244	.746	.786	.076	.016
2560.500	.271	.828	.823	.071	.013
2560.750	.317	1.000	1.000	.037	.000
2561.000	.323	1.000	1.000	.033	.000
2561.250	.286	.934	.934	.057	.004
2561.500	.263	1.000	.833	.067	.011
2561.750	.215	.828	.652	.093	.032
2562.000	.174	.517	.421	.133	.077
2562.250	.141	.543	.465	.126	.068
2562.500	.263	1.000	.953	.048	.002

2562.750	.000	1.000	1.000	.001	.000
2563.000	.000	1.000	1.000	.001	.000
2563.250	.000	1.000	1.000	.001	.000
2563.500	.000	1.000	1.000	.001	.000
2563.750	.000	1.000	1.000	.001	.000
2564.000	.000	1.000	1.000	.001	.000
2564.250	.000	1.000	1.000	.001	.000
2564.500	.000	1.000	1.000	.001	.000
2564.750	.000	1.000	1.000	.001	.000
2565.000	.000	1.000	1.000	.001	.000
2565.250	.000	1.000	1.000	.001	.000
2565.500	.000	.520	.520	.042	.020
2565.750	.000	1.000	1.000	.001	.000
2566.000	.000	1.000	1.000	.001	.000
2566.250	.000	1.000	1.000	.001	.000
2566.500	.000	1.000	1.000	.001	.000
2566.750	.000	1.000	1.000	.001	.000
2567.000	.000	1.000	1.000	.001	.000
2567.250	.000	.913	.913	.020	.002
2567.500	.000	1.000	1.000	.001	.000
2567.750	.264	.772	.772	.111	.025
2568.000	.118	.665	.665	.166	.056
2568.250	.000	.633	.633	.197	.072
2568.500	.078	.703	.703	.162	.048
2568.750	.208	.799	.799	.122	.025
2569.000	.227	.844	.844	.115	.018
2569.250	.255	.868	.868	.110	.014
2569.500	.262	.903	.903	.104	.010
2569.750	.280	1.000	1.000	.090	.000
2570.000	.279	.953	.953	.097	.005
2570.250	.203	.837	.837	.136	.022
2570.500	.115	.812	.812	.168	.032
2570.750	.056	.849	.849	.180	.027
2571.000	.000	1.000	1.000	.000	.000
2571.250	.000	1.000	1.000	.000	.000
2571.500	.000	1.000	1.000	.000	.000
2571.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2572.000	.000	1.000	1.000	.000	.000
2572.250	.000	1.000	1.000	.000	.000
2572.500	.000	1.000	1.000	.000	.000
2572.750	.000	1.000	1.000	.000	.000
2573.000	.000	1.000	1.000	.000	.000
2573.250	.000	1.000	1.000	.000	.000
2573.500	.000	1.000	1.000	.000	.000
2573.750	.000	1.000	1.000	.000	.000
2574.000	.000	1.000	1.000	.000	.000
2574.250	.000	1.000	1.000	.000	.000
2574.500	.000	1.000	1.000	.000	.000
2574.750	.000	1.000	1.000	.000	.000
2575.000	.000	1.000	1.000	.000	.000
2575.250	.000	1.000	1.000	.000	.000
2575.500	.000	1.000	1.000	.000	.000
2575.750	.000	1.000	1.000	.000	.000
2576.000	.000	1.000	1.000	.000	.000
2576.250	.000	1.000	1.000	.000	.000
2576.500	.000	1.000	1.000	.000	.000
2576.750	.000	1.000	1.000	.000	.000
2577.000	.000	1.000	1.000	.000	.000
2577.250	.000	1.000	1.000	.000	.000
2577.500	.000	1.000	1.000	.000	.000
2577.750	.000	1.000	1.000	.000	.000
2578.000	.000	1.000	1.000	.000	.000

2578.250	.000	1.000	1.000	.000	.000
2578.500	.000	1.000	1.000	.000	.000
2578.750	.000	1.000	1.000	.000	.000
2579.000	.000	1.000	1.000	.000	.000
2579.250	.000	1.000	1.000	.000	.000
2579.500	.000	1.000	1.000	.000	.000
2579.750	.000	1.000	1.000	.000	.000
2580.000	.000	1.000	1.000	.000	.000
2580.250	.278	.600	.600	.043	.017
2580.500	.733	.290	.290	.159	.113
2580.750	.000	1.000	1.000	.001	.000
2581.000	.000	1.000	1.000	.001	.000
2581.250	.000	1.000	1.000	.001	.000
2581.500	.000	1.000	1.000	.001	.000
2581.750	.000	.619	.619	.028	.011
2582.000	.000	.556	.556	.048	.021
2582.250	.000	1.000	1.000	.001	.000
2582.500	.252	.675	.675	.090	.029
2582.750	.241	.704	.704	.086	.025
2583.000	.241	.694	.694	.092	.028
2583.250	.164	.692	.692	.110	.034
2583.500	.079	.678	.678	.133	.043
2583.750	.008	.697	.697	.160	.048
2584.000	.021	.693	.693	.169	.052
2584.250	.064	.675	.675	.169	.055
2584.500	.047	.699	.699	.172	.052
2584.750	.039	.807	.807	.170	.033
2585.000	.000	.848	.848	.177	.027
2585.250	.000	.861	.861	.181	.025
2585.500	.032	.871	.871	.171	.022
2585.750	.052	.820	.820	.159	.029

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2586.000	.000	1.000	1.000	.000	.000
2586.250	.000	1.000	1.000	.000	.000
2586.500	.000	1.000	1.000	.000	.000
2586.750	.000	1.000	1.000	.000	.000
2587.000	.000	1.000	1.000	.000	.000
2587.250	.000	1.000	1.000	.000	.000
2587.500	.000	1.000	1.000	.000	.000
2587.750	.000	1.000	1.000	.001	.000
2588.000	.988	.799	.799	.012	.002
2588.250	.000	1.000	1.000	.001	.000
2588.500	.000	1.000	1.000	.001	.000
2588.750	.000	1.000	1.000	.001	.000
2589.000	.911	.681	.681	.089	.029
2589.250	.723	.815	.815	.109	.020
2589.500	.270	.888	.888	.164	.018
2589.750	.000	.823	.819	.200	.036
2590.000	.000	.772	.765	.212	.050
2590.250	.000	.770	.753	.219	.054
2590.500	.000	.805	.805	.220	.043
2590.750	.000	.857	.740	.212	.055
2591.000	.008	.758	.753	.207	.051
2591.250	.000	.701	.701	.215	.064
2591.500	.000	.764	.764	.224	.053
2591.750	.000	.802	.802	.223	.044
2592.000	.077	.852	.852	.202	.030
2592.250	.091	.881	.881	.200	.024
2592.500	.056	.922	.838	.217	.035
2592.750	.075	1.000	.835	.194	.032
2593.000	.127	.880	.880	.172	.021
2593.250	.151	.871	.871	.176	.023
2593.500	.178	.990	.907	.177	.017

2593.750	.150	.974	.894	.179	.019
2594.000	.158	.948	.948	.169	.009
2594.250	.144	.844	.785	.165	.036
2594.500	.047	.781	.781	.188	.041
2594.750	.000	.805	.803	.199	.039
2595.000	.028	.884	.884	.200	.023
2595.250	.000	.857	.857	.208	.030
2595.500	.000	.828	.828	.194	.033
2595.750	.000	.779	.779	.172	.038
2596.000	.155	.710	.710	.132	.038
2596.250	.958	.716	.716	.042	.012
2596.500	.977	.751	.751	.023	.006
2596.750	.000	1.000	1.000	.001	.000
2597.000	.000	1.000	1.000	.001	.000
2597.250	.000	1.000	1.000	.001	.000
2597.500	.000	1.000	1.000	.001	.000
2597.750	.000	1.000	1.000	.001	.000
2598.000	.392	.672	.672	.072	.024
2598.250	.275	.669	.669	.099	.033
2598.500	.242	.703	.703	.109	.032
2598.750	.245	.723	.723	.114	.032
2599.000	.293	.760	.760	.098	.024
2599.250	.326	.785	.785	.096	.021
2599.500	.274	.777	.777	.113	.025
2599.750	.359	.948	.948	.089	.005

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2600.000	.330	.954	.954	.098	.004
2600.250	.172	.824	.824	.144	.025
2600.500	.084	.805	.805	.173	.034
2600.750	.020	.788	.788	.189	.040
2601.000	.042	.821	.821	.175	.031
2601.250	.142	.887	.887	.140	.016
2601.500	.164	.860	.860	.134	.019
2601.750	.119	.779	.779	.151	.033
2602.000	.071	.760	.760	.166	.040
2602.250	.048	.756	.756	.175	.043
2602.500	.121	.741	.741	.163	.042
2602.750	.127	.757	.757	.156	.038
2603.000	.090	.796	.796	.167	.034
2603.250	.112	.819	.819	.172	.031
2603.500	.120	.830	.830	.169	.029
2603.750	.071	.785	.785	.176	.038
2604.000	.013	.720	.720	.187	.052
2604.250	.064	.766	.766	.168	.039
2604.500	.157	.885	.885	.144	.017
2604.750	.232	.970	.970	.125	.004
2605.000	.310	1.000	1.000	.103	.000
2605.250	.326	1.000	1.000	.112	.000
2605.500	.311	1.000	1.000	.124	.000
2605.750	.227	1.000	1.000	.143	.000
2606.000	.170	1.000	1.000	.158	.000
2606.250	.191	1.000	1.000	.149	.000
2606.500	.219	1.000	1.000	.130	.000
2606.750	.254	1.000	1.000	.104	.000
2607.000	.214	1.000	1.000	.113	.000
2607.250	.175	1.000	1.000	.136	.000
2607.500	.112	.995	.995	.161	.001
2607.750	.113	.929	.929	.175	.012
2608.000	.133	.961	.961	.170	.007
2608.250	.172	1.000	1.000	.150	.000
2608.500	.161	1.000	1.000	.143	.000
2608.750	.176	1.000	1.000	.141	.000
2609.000	.170	.997	.997	.140	.000

2609.250	.153	1.000	1.000	.137	.000
2609.500	.146	1.000	1.000	.140	.000
2609.750	.123	.969	.969	.154	.005
2610.000	.122	.956	.956	.157	.007
2610.250	.152	1.000	1.000	.133	.000
2610.500	.260	1.000	1.000	.111	.000
2610.750	.632	.965	.965	.065	.002
2611.000	.000	1.000	1.000	.001	.000
2611.250	.000	1.000	1.000	.001	.000
2611.500	.000	1.000	1.000	.001	.000
2611.750	.964	.959	.959	.036	.001
2612.000	.278	.854	.854	.122	.018
2612.250	.972	1.000	1.000	.028	.000
2612.500	.208	.857	.857	.133	.019
2612.750	.098	.733	.733	.173	.046
2613.000	.065	.760	.760	.180	.043
2613.250	.071	.804	.804	.169	.033
2613.500	.094	.836	.836	.161	.026
2613.750	.204	.897	.897	.128	.013

1 BREAT #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2614.000	.297	1.000	1.000	.094	.000
2614.250	.324	1.000	1.000	.088	.000
2614.500	.274	.986	.986	.113	.002
2614.750	.199	.907	.907	.145	.014
2615.000	.107	.846	.846	.170	.026
2615.250	.033	.814	.814	.193	.036
2615.500	.011	.837	.837	.201	.033
2615.750	.096	.915	.915	.182	.016
2616.000	.000	1.000	1.000	.001	.000
2616.250	.000	1.000	1.000	.001	.000
2616.500	.000	1.000	1.000	.001	.000
2616.750	.955	1.000	1.000	.045	.000
2617.000	.961	1.000	1.000	.039	.000
2617.250	.990	1.000	1.000	.010	.000
2617.500	.000	1.000	1.000	.001	.000
2617.750	.286	.602	.602	.072	.029
2618.000	.603	.592	.592	.072	.029
2618.250	.000	1.000	1.000	.001	.000
2618.500	.969	.965	.965	.031	.001
2618.750	.140	.785	.785	.154	.033
2619.000	.102	.839	.839	.183	.029
2619.250	.119	.863	.863	.175	.024
2619.500	.185	.901	.901	.152	.015
2619.750	.160	.906	.906	.166	.016
2620.000	.076	.887	.887	.186	.021
2620.250	.046	.897	.897	.180	.019
2620.500	.021	.846	.846	.186	.029
2620.750	.000	.860	.860	.197	.028
2621.000	.000	.940	.940	.196	.012
2621.250	.000	1.000	1.000	.000	.000
2621.500	.000	1.000	1.000	.000	.000
2621.750	.000	1.000	1.000	.000	.000
2622.000	.000	1.000	1.000	.000	.000
2622.250	.000	1.000	1.000	.000	.000
2622.500	.000	1.000	1.000	.000	.000
2622.750	.000	1.000	1.000	.000	.000
2623.000	.000	1.000	1.000	.000	.000
2623.250	.000	1.000	1.000	.001	.000
2623.500	.000	1.000	1.000	.001	.000
2623.750	.000	1.000	1.000	.001	.000
2624.000	.000	1.000	1.000	.001	.000
2624.250	.000	1.000	1.000	.001	.000
2624.500	.000	1.000	1.000	.001	.000

2624.750	.000	1.000	1.000	.001	.000
2625.000	.000	1.000	1.000	.001	.000
2625.250	.000	1.000	1.000	.001	.000
2625.500	.000	1.000	1.000	.001	.000
2625.750	.305	1.000	1.000	.088	.000
2626.000	.059	.884	.884	.161	.019
2626.250	.000	.855	.855	.181	.026
2626.500	.000	.872	.872	.170	.022
2626.750	.000	.837	.837	.164	.027
2627.000	.053	.878	.878	.153	.019
2627.250	.069	.941	.941	.149	.009
2627.500	.245	1.000	1.000	.107	.000
2627.750	.000	.861	.861	.034	.005

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2628.000	.000	1.000	1.000	.001	.000
2628.250	.000	1.000	1.000	.001	.000
2628.500	.000	1.000	1.000	.001	.000
2628.750	.000	1.000	1.000	.001	.000
2629.000	.000	1.000	1.000	.000	.000
2629.250	.000	1.000	1.000	.000	.000
2629.500	.000	1.000	1.000	.000	.000
2629.750	.000	1.000	1.000	.000	.000
2630.000	.000	1.000	1.000	.000	.000
2630.250	.000	1.000	1.000	.000	.000
2630.500	.000	1.000	1.000	.000	.000
2630.750	.000	1.000	1.000	.000	.000
2631.000	.000	1.000	1.000	.000	.000
2631.250	.000	1.000	1.000	.000	.000
2631.500	.000	1.000	1.000	.000	.000
2631.750	.000	1.000	1.000	.000	.000
2632.000	.000	1.000	1.000	.000	.000
2632.250	.000	1.000	1.000	.000	.000
2632.500	.000	1.000	1.000	.000	.000
2632.750	.000	1.000	1.000	.000	.000
2633.000	.000	1.000	1.000	.000	.000
2633.250	.000	1.000	1.000	.000	.000
2633.500	.000	1.000	1.000	.000	.000
2633.750	.000	1.000	1.000	.000	.000
2634.000	.000	1.000	1.000	.000	.000
2634.250	.000	1.000	1.000	.000	.000
2634.500	.000	1.000	1.000	.000	.000
2634.750	.000	1.000	1.000	.000	.000
2635.000	.000	1.000	1.000	.000	.000
2635.250	.000	1.000	1.000	.000	.000
2635.500	.000	1.000	1.000	.000	.000
2635.750	.000	1.000	1.000	.000	.000
2636.000	.000	1.000	1.000	.000	.000
2636.250	.000	1.000	1.000	.000	.000
2636.500	.000	1.000	1.000	.000	.000
2636.750	.000	1.000	1.000	.000	.000
2637.000	.000	1.000	1.000	.000	.000
2637.250	.837	.253	.253	.163	.122
2637.500	.835	.241	.241	.165	.125
2637.750	.659	.268	.268	.141	.103
2638.000	.932	.396	.396	.068	.041
2638.250	.000	1.000	1.000	.001	.000
2638.500	.983	.745	.745	.017	.004
2638.750	.982	.847	.847	.018	.003
2639.000	.000	1.000	1.000	.001	.000
2639.250	.000	1.000	1.000	.001	.000
2639.500	.000	1.000	1.000	.001	.000
2639.750	.000	1.000	1.000	.001	.000
2640.000	.000	1.000	1.000	.001	.000

2640.250	.000	1.000	1.000	.001	.000
2640.500	.000	1.000	1.000	.001	.000
2640.750	.000	1.000	1.000	.001	.000
2641.000	.000	1.000	1.000	.001	.000
2641.250	.000	1.000	1.000	.001	.000
2641.500	.000	1.000	1.000	.001	.000
2641.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2642.000	.000	1.000	1.000	.000	.000
2642.250	.000	1.000	1.000	.000	.000
2642.500	.000	1.000	1.000	.000	.000
2642.750	.000	1.000	1.000	.000	.000
2643.000	.000	1.000	1.000	.000	.000
2643.250	.000	1.000	1.000	.000	.000
2643.500	.000	1.000	1.000	.000	.000
2643.750	.000	1.000	1.000	.000	.000
2644.000	.000	1.000	1.000	.000	.000
2644.250	.000	1.000	1.000	.000	.000
2644.500	.000	1.000	1.000	.000	.000
2644.750	.000	1.000	1.000	.000	.000
2645.000	.000	1.000	1.000	.000	.000
2645.250	.000	1.000	1.000	.000	.000
2645.500	.000	1.000	1.000	.000	.000
2645.750	.000	1.000	1.000	.000	.000
2646.000	.000	1.000	1.000	.000	.000
2646.250	.000	1.000	1.000	.000	.000
2646.500	.000	1.000	1.000	.000	.000
2646.750	.000	1.000	1.000	.000	.000
2647.000	.000	1.000	1.000	.000	.000
2647.250	.000	1.000	1.000	.000	.000
2647.500	.000	1.000	1.000	.000	.000
2647.750	.364	.211	.211	.000	.000
2648.000	.000	1.000	1.000	.000	.000
2648.250	.000	1.000	1.000	.000	.000
2648.500	.000	1.000	1.000	.000	.000
2648.750	.000	1.000	1.000	.000	.000
2649.000	.000	1.000	1.000	.000	.000
2649.250	.000	1.000	1.000	.000	.000
2649.500	.000	1.000	1.000	.000	.000
2649.750	.000	1.000	1.000	.000	.000
2650.000	.000	1.000	1.000	.000	.000
2650.250	.000	1.000	1.000	.000	.000
2650.500	.000	1.000	1.000	.000	.000
2650.750	.000	1.000	1.000	.000	.000
2651.000	.000	1.000	1.000	.000	.000
2651.250	.000	1.000	1.000	.000	.000
2651.500	.000	1.000	1.000	.000	.000
2651.750	.000	1.000	1.000	.000	.000
2652.000	.000	1.000	1.000	.000	.000
2652.250	.000	1.000	1.000	.000	.000
2652.500	.000	1.000	1.000	.000	.000
2652.750	.000	1.000	1.000	.000	.000
2653.000	.000	1.000	1.000	.000	.000
2653.250	.000	1.000	1.000	.000	.000
2653.500	.000	1.000	1.000	.000	.000
2653.750	.000	1.000	1.000	.000	.000
2654.000	.000	1.000	1.000	.000	.000
2654.250	.000	1.000	1.000	.000	.000
2654.500	.000	1.000	1.000	.000	.000
2654.750	.000	1.000	1.000	.000	.000
2655.000	.000	1.000	1.000	.000	.000
2655.250	.000	1.000	1.000	.000	.000
2655.500	.000	1.000	1.000	.000	.000

2655.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2656.000	.000	1.000	1.000	.000	.000
2656.250	.000	1.000	1.000	.000	.000
2656.500	.000	1.000	1.000	.000	.000
2656.750	.000	1.000	1.000	.000	.000
2657.000	.000	1.000	1.000	.000	.000
2657.250	.000	1.000	1.000	.001	.000
2657.500	.000	1.000	1.000	.001	.000
2657.750	.000	.578	.578	.047	.020
2658.000	.000	1.000	1.000	.001	.000
2658.250	.000	1.000	1.000	.001	.000
2658.500	.000	1.000	1.000	.001	.000
2658.750	.000	1.000	1.000	.001	.000
2659.000	.249	.557	.557	.110	.049
2659.250	.163	.564	.489	.128	.065
2659.500	.248	.530	.521	.099	.047
2659.750	.288	.503	.503	.095	.047
2660.000	.247	.475	.475	.105	.055
2660.250	.205	.529	.450	.108	.059
2660.500	.152	.525	.394	.122	.074
2660.750	.140	.537	.361	.128	.082
2661.000	.183	.513	.333	.127	.085
2661.250	.153	.496	.285	.151	.108
2661.500	.147	.449	.267	.164	.120
2661.750	.091	.412	.256	.168	.125
2662.000	.068	.483	.272	.162	.118
2662.250	.112	.537	.317	.146	.100
2662.500	.172	.541	.387	.127	.078
2662.750	.234	.456	.419	.117	.068
2663.000	.236	.432	.432	.126	.072
2663.250	.205	.466	.466	.128	.068
2663.500	.189	.636	.572	.104	.044
2663.750	.000	1.000	1.000	.001	.000
2664.000	.000	1.000	1.000	.001	.000
2664.250	.271	.511	.511	.111	.054
2664.500	.180	.384	.384	.162	.100
2664.750	.127	.316	.314	.186	.127
2665.000	.091	.423	.276	.190	.137
2665.250	.160	.402	.320	.177	.120
2665.500	.183	.482	.482	.185	.096
2665.750	.177	.645	.645	.193	.068
2666.000	.000	1.000	1.000	.000	.000
2666.250	.000	1.000	1.000	.000	.000
2666.500	.000	1.000	1.000	.000	.000
2666.750	.000	1.000	1.000	.000	.000
2667.000	.000	1.000	1.000	.000	.000
2667.250	.000	1.000	1.000	.001	.000
2667.500	.000	1.000	1.000	.001	.000
2667.750	.000	1.000	1.000	.001	.000
2668.000	.000	1.000	1.000	.001	.000
2668.250	.000	1.000	1.000	.001	.000
2668.500	.000	1.000	1.000	.001	.000
2668.750	.000	1.000	1.000	.001	.000
2669.000	.000	1.000	1.000	.001	.000
2669.250	.000	1.000	1.000	.001	.000
2669.500	.947	.749	.749	.053	.013
2669.750	.234	.582	.582	.151	.063

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2670.000	.230	.585	.585	.156	.065
2670.250	.260	.569	.569	.158	.068

2670.500	.241	.561	.561	.162	.071
2670.750	.222	.659	.659	.137	.047
2671.000	.252	.753	.753	.114	.028
2671.250	.247	.668	.668	.132	.044
2671.500	.237	.626	.626	.144	.054
2671.750	.213	.661	.661	.137	.047
2672.000	.197	.668	.668	.138	.046
2672.250	.213	.663	.663	.137	.046
2672.500	.220	.658	.658	.138	.047
2672.750	.213	.640	.640	.143	.052
2673.000	.213	.683	.683	.132	.042
2673.250	.224	.808	.808	.107	.021
2673.500	.000	1.000	1.000	.001	.000
2673.750	.000	1.000	1.000	.001	.000
2674.000	.263	.670	.670	.130	.043
2674.250	.257	.593	.593	.151	.061
2674.500	.248	.593	.593	.152	.062
2674.750	.237	.596	.596	.148	.060
2675.000	.200	.598	.598	.151	.060
2675.250	.920	.623	.623	.080	.030
2675.500	.000	1.000	1.000	.001	.000
2675.750	.814	.344	.344	.186	.122
2676.000	.934	.584	.584	.066	.027
2676.250	.000	1.000	1.000	.001	.000
2676.500	.000	1.000	1.000	.001	.000
2676.750	.259	.583	.583	.141	.059
2677.000	.216	.618	.618	.157	.060
2677.250	.173	.658	.658	.161	.055
2677.500	.173	.669	.669	.167	.055
2677.750	.189	.679	.679	.172	.055
2678.000	.161	.728	.728	.168	.046
2678.250	.148	.748	.748	.161	.040
2678.500	.200	.715	.715	.153	.044
2678.750	.946	.868	.868	.054	.007
2679.000	.977	.951	.951	.023	.001
2679.250	.942	.620	.620	.058	.022
2679.500	.798	.327	.327	.202	.136
2679.750	.000	1.000	1.000	.001	.000
2680.000	.000	1.000	1.000	.001	.000
2680.250	.000	1.000	1.000	.001	.000
2680.500	.972	.746	.746	.028	.007
2680.750	.286	.695	.695	.104	.032
2681.000	.000	1.000	1.000	.001	.000
2681.250	.000	1.000	1.000	.001	.000
2681.500	.000	1.000	1.000	.001	.000
2681.750	.280	.619	.619	.127	.048
2682.000	.000	1.000	1.000	.000	.000
2682.250	.000	1.000	1.000	.000	.000
2682.500	.000	1.000	1.000	.000	.000
2682.750	.000	1.000	1.000	.000	.000
2683.000	.000	1.000	1.000	.000	.000
2683.250	.335	.659	.659	.090	.031
2683.500	.000	1.000	1.000	.001	.000
2683.750	.000	1.000	1.000	.001	.000

1 DREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2684.000	.000	1.000	1.000	.001	.000
2684.250	.000	1.000	1.000	.001	.000
2684.500	.000	1.000	1.000	.001	.000
2684.750	.000	1.000	1.000	.001	.000
2685.000	.937	.510	.510	.063	.031
2685.250	.342	.497	.497	.133	.067
2685.500	.217	.608	.608	.146	.057
2685.750	.181	.625	.625	.148	.056

DEPTH	VCL	SXO	Sw	PHI	HC.VOL
2686.000	.961	.833	.833	.039	.006
2686.250	.000	1.000	1.000	.001	.000
2686.500	.000	1.000	1.000	.001	.000
2686.750	.000	1.000	1.000	.001	.000
2687.000	.000	1.000	1.000	.001	.000
2687.250	.000	1.000	1.000	.001	.000
2687.500	.000	1.000	1.000	.000	.000
2687.750	.000	1.000	1.000	.000	.000
2688.000	.000	1.000	1.000	.000	.000
2688.250	.000	1.000	1.000	.000	.000
2688.500	.000	1.000	1.000	.000	.000
2688.750	.000	1.000	1.000	.000	.000
2689.000	.000	1.000	1.000	.000	.000
2689.250	.136	.566	.566	.064	.028
2689.500	.000	1.000	1.000	.001	.000
2689.750	.000	1.000	1.000	.001	.000
2690.000	.976	.714	.714	.024	.007
2690.250	.985	.860	.880	.015	.002
2690.500	.667	.824	.824	.033	.006
2690.750	.748	.686	.686	.045	.014
2691.000	.520	.525	.525	.097	.046
2691.250	.242	.530	.530	.134	.063
2691.500	.094	.657	.657	.148	.051
2691.750	.118	.830	.830	.141	.024
2692.000	.127	.804	.804	.137	.027
2692.250	.055	.610	.610	.145	.056
2692.500	.000	.593	.593	.146	.060
2692.750	.000	.831	.649	.135	.047
2693.000	.015	.796	.796	.123	.025
2693.250	.055	.802	.802	.122	.024
2693.500	.084	.827	.827	.119	.021
2693.750	.105	.852	.852	.114	.017
2694.000	.087	.795	.795	.124	.025
2694.250	.092	.803	.803	.117	.023
2694.500	.083	.902	.902	.098	.010
2694.750	.113	1.000	1.000	.077	.000
2695.000	.066	.975	.975	.087	.002
2695.250	.000	1.000	.797	.103	.021
2695.500	.000	1.000	.808	.104	.020
2695.750	.000	1.000	.841	.102	.016
2696.000	.000	1.000	.995	.089	.000
2696.250	.000	1.000	1.000	.077	.000
2696.500	.000	1.000	1.000	.082	.000
2696.750	.000	1.000	.943	.088	.005
2697.000	.000	1.000	.924	.088	.007
2697.250	.000	1.000	.937	.088	.006
2697.500	.000	1.000	1.000	.085	.000
2697.750	.000	1.000	1.000	.079	.000

1 BREAM #5

DEPTH	VCL	SXO	Sw	PHI	HC.VOL
2698.000	.000	1.000	1.000	.068	.000
2698.250	.000	1.000	1.000	.076	.000
2698.500	.000	.935	.935	.091	.006
2698.750	.000	.943	.943	.097	.006
2699.000	.000	1.000	1.000	.089	.000
2699.250	.000	1.000	1.000	.085	.000
2699.500	.000	.990	.990	.093	.001
2699.750	.000	.921	.921	.098	.008
2700.000	.000	.887	.887	.101	.011
2700.250	.000	.840	.840	.106	.017
2700.500	.000	.832	.832	.106	.018
2700.750	.000	.777	.777	.111	.025
2701.000	.000	.670	.670	.128	.042
2701.250	.019	.607	.607	.148	.058

2701.500	.079	.595	.595	.158	.064
2701.750	.071	.603	.603	.162	.064
2702.000	.000	1.000	1.000	.000	.000
2702.250	.000	1.000	1.000	.000	.000
2702.500	.000	1.000	1.000	.000	.000
2702.750	.000	1.000	1.000	.000	.000
2703.000	.000	1.000	1.000	.000	.000
2703.250	.000	1.000	1.000	.000	.000
2703.500	.000	1.000	1.000	.000	.000
2703.750	.000	1.000	1.000	.000	.000
2704.000	.000	1.000	1.000	.000	.000
2704.250	.000	1.000	1.000	.000	.000
2704.500	.000	1.000	1.000	.000	.000
2704.750	.000	1.000	1.000	.000	.000
2705.000	.000	1.000	1.000	.000	.000
2705.250	.117	.991	.991	.061	.001
2705.500	.154	1.000	1.000	.067	.000
2705.750	.119	.915	.915	.099	.008
2706.000	.101	.798	.798	.132	.027
2706.250	.050	.792	.792	.141	.029
2706.500	.021	.833	.833	.139	.023
2706.750	.000	.910	.910	.129	.012
2707.000	.000	1.000	1.000	.110	.000
2707.250	.000	.963	.963	.112	.004
2707.500	.025	.830	.830	.125	.021
2707.750	.000	1.000	1.000	.001	.000
2708.000	.000	1.000	1.000	.001	.000
2708.250	.977	1.000	1.000	.023	.000
2708.500	.000	1.000	1.000	.001	.000
2708.750	.956	.846	.795	.044	.009
2709.000	.679	.854	.567	.098	.043
2709.250	.300	.637	.623	.126	.048
2709.500	.264	.696	.696	.123	.037
2709.750	.525	.817	.817	.115	.021
2710.000	.287	.853	.853	.124	.018
2710.250	.151	.880	.880	.141	.017
2710.500	.000	1.000	1.000	.000	.000
2710.750	.000	1.000	1.000	.000	.000
2711.000	.000	1.000	1.000	.000	.000
2711.250	.000	1.000	1.000	.000	.000
2711.500	.000	1.000	1.000	.000	.000
2711.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2712.000	.000	1.000	1.000	.000	.000
2712.250	.000	1.000	1.000	.000	.000
2712.500	.000	1.000	1.000	.000	.000
2712.750	.000	1.000	1.000	.000	.000
2713.000	.000	1.000	1.000	.000	.000
2713.250	.000	1.000	1.000	.000	.000
2713.500	.000	1.000	1.000	.000	.000
2713.750	.000	1.000	1.000	.000	.000
2714.000	.000	1.000	1.000	.000	.000
2714.250	.000	1.000	1.000	.000	.000
2714.500	.000	1.000	1.000	.000	.000
2714.750	.000	1.000	1.000	.000	.000
2715.000	.000	1.000	1.000	.000	.000
2715.250	.105	.749	.749	.118	.030
2715.500	.062	.763	.763	.129	.030
2715.750	.000	.783	.783	.136	.030
2716.000	.015	.788	.788	.132	.028
2716.250	.071	.792	.792	.124	.026
2716.500	.067	.823	.823	.121	.021
2716.750	.071	.776	.778	.119	.026

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2717.000	.101	.727	.727	.123	.034
2717.250	.074	.715	.715	.130	.037
2717.500	.100	.795	.795	.119	.024
2717.750	.246	.967	.967	.078	.003
2718.000	.000	1.000	1.000	.001	.000
2718.250	.000	1.000	1.000	.001	.000
2718.500	.000	1.000	1.000	.001	.000
2718.750	.965	.691	.691	.035	.011
2719.000	.540	.686	.686	.060	.019
2719.250	.437	1.000	.913	.041	.004
2719.500	.000	1.000	1.000	.001	.000
2719.750	.000	1.000	1.000	.001	.000
2720.000	.000	1.000	1.000	.001	.000
2720.250	.000	1.000	1.000	.001	.000
2720.500	.000	1.000	1.000	.001	.000
2720.750	.000	1.000	1.000	.001	.000
2721.000	.977	.773	.773	.023	.005
2721.250	.647	.776	.776	.035	.008
2721.500	.388	.847	.847	.051	.008
2721.750	.253	.925	.923	.067	.005
2722.000	.209	.965	.963	.085	.003
2722.250	.161	1.000	1.000	.100	.000
2722.500	.136	1.000	1.000	.102	.000
2722.750	.142	1.000	1.000	.093	.000
2723.000	.126	1.000	1.000	.087	.000
2723.250	.123	1.000	1.000	.086	.000
2723.500	.105	1.000	1.000	.092	.000
2723.750	.135	1.000	1.000	.081	.000
2724.000	.000	1.000	1.000	.001	.000
2724.250	.000	1.000	1.000	.001	.000
2724.500	.000	1.000	1.000	.001	.000
2724.750	.000	1.000	1.000	.001	.000
2725.000	.262	.957	.957	.082	.004
2725.250	.217	.944	.944	.093	.005
2725.500	.219	.993	.993	.088	.001
2725.750	.244	1.000	1.000	.082	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2726.000	.233	.924	.924	.089	.007
2726.250	.202	.891	.891	.091	.010
2726.500	.246	.832	.832	.084	.014
2726.750	.392	.663	.663	.084	.028
2727.000	.466	.542	.542	.092	.042
2727.250	.453	.606	.606	.073	.029
2727.500	.000	1.000	1.000	.001	.000
2727.750	.000	1.000	1.000	.001	.000
2728.000	.207	.643	.643	.079	.028
2728.250	.074	.675	.675	.106	.035
2728.500	.059	.744	.744	.110	.028
2728.750	.040	.819	.819	.110	.020
2729.000	.022	.893	.893	.102	.011
2729.250	.044	.999	.999	.083	.000
2729.500	.041	.896	.896	.087	.009
2729.750	.000	.695	.695	.116	.035
2730.000	.000	.611	.611	.135	.053
2730.250	.000	.576	.576	.147	.063
2730.500	.085	.796	.530	.137	.064
2730.750	.134	1.000	.544	.128	.058
2731.000	.060	.902	.520	.145	.070
2731.250	.000	.873	.479	.166	.087
2731.500	.000	.953	.427	.184	.105
2731.750	.000	.700	.488	.161	.083
2732.000	.144	.842	.545	.127	.058
2732.250	.179	.945	.550	.123	.055

2732.500	.000	1.000	1.000	.001	.000
2732.750	.000	1.000	1.000	.001	.000
2733.000	.948	.632	.632	.052	.019
2733.250	.000	1.000	1.000	.001	.000
2733.500	.000	1.000	1.000	.001	.000
2733.750	.985	.864	.864	.015	.002
2734.000	.000	1.000	1.000	.001	.000
2734.250	.253	.333	.333	.142	.094
2734.500	.000	1.000	1.000	.001	.000
2734.750	.000	1.000	1.000	.001	.000
2735.000	.000	1.000	1.000	.001	.000
2735.250	.000	.506	.506	.043	.021
2735.500	.987	.708	.708	.013	.004
2735.750	.223	.520	.520	.109	.052
2736.000	.084	.580	.580	.125	.052
2736.250	.095	.581	.581	.126	.053
2736.500	.120	.580	.580	.126	.053
2736.750	.152	.649	.649	.112	.039
2737.000	.143	.749	.749	.101	.025
2737.250	.200	.902	.902	.081	.008
2737.500	.006	1.000	1.000	.001	.000
2737.750	.000	1.000	1.000	.001	.000
2738.000	.000	1.000	1.000	.001	.000
2738.250	.000	1.000	1.000	.001	.000
2738.500	.000	1.000	1.000	.001	.000
2738.750	.000	1.000	1.000	.001	.000
2739.000	.405	.630	.630	.082	.030
2739.250	.298	.780	.780	.081	.018
2739.500	.000	1.000	1.000	.001	.000
2739.750	.000	1.000	1.000	.001	.000

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BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2740.000	.000	.559	.559	.054	.024
2740.250	.000	1.000	1.000	.001	.000
2740.500	.000	1.000	1.000	.001	.000
2740.750	.000	1.000	1.000	.001	.000
2741.000	.000	1.000	1.000	.001	.000
2741.250	.952	.540	.540	.048	.022
2741.500	.407	.494	.494	.111	.056
2741.750	.241	.557	.557	.118	.052
2742.000	.256	.612	.612	.109	.042
2742.250	.257	.582	.582	.106	.044
2742.500	.359	.664	.664	.080	.027
2742.750	.000	1.000	1.000	.001	.000
2743.000	.365	.417	.417	.100	.058
2743.250	.777	.210	.210	.100	.079
2743.500	.000	1.000	1.000	.001	.000
2743.750	.000	1.000	1.000	.001	.000
2744.000	.000	1.000	1.000	.001	.000
2744.250	.000	1.000	1.000	.001	.000
2744.500	.163	.632	.632	.107	.039
2744.750	.148	.806	.688	.107	.033
2745.000	.000	1.000	1.000	.000	.000
2745.250	.000	1.000	1.000	.000	.000
2745.500	.000	1.000	1.000	.000	.000
2745.750	.000	1.000	1.000	.000	.000
2746.000	.000	1.000	1.000	.000	.000
2746.250	.000	1.000	1.000	.000	.000
2746.500	.000	1.000	1.000	.000	.000
2746.750	.000	1.000	1.000	.001	.000
2747.000	.000	1.000	1.000	.001	.000
2747.250	.696	.311	.311	.149	.103
2747.500	.000	1.000	1.000	.001	.000
2747.750	.000	1.000	1.000	.001	.000

2748.000	.000	1.000	1.000	.001	.000
2748.250	.000	1.000	1.000	.001	.000
2748.500	.000	1.000	1.000	.001	.000
2748.750	.000	1.000	1.000	.001	.000
2749.000	.000	1.000	1.000	.001	.000
2749.250	.000	1.000	1.000	.001	.000
2749.500	.000	1.000	1.000	.001	.000
2749.750	.101	.624	.624	.090	.034
2750.000	.134	.580	.580	.104	.044
2750.250	.125	.612	.612	.106	.041
2750.500	.197	.764	.632	.084	.031
2750.750	.000	1.000	1.000	.001	.000
2751.000	.000	1.000	1.000	.000	.000
2751.250	.000	1.000	1.000	.000	.000
2751.500	.000	1.000	1.000	.000	.000
2751.750	.645	.245	.245	.000	.000
2752.000	.000	.701	.701	.000	.000
2752.250	.000	1.000	1.000	.000	.000
2752.500	.000	1.000	1.000	.000	.000
2752.750	.000	1.000	1.000	.000	.000
2753.000	.000	1.000	1.000	.000	.000
2753.250	.000	1.000	1.000	.001	.000
2753.500	.000	1.000	1.000	.001	.000
2753.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2754.000	.070	.393	.393	.097	.059
2754.250	.000	1.000	1.000	.001	.000
2754.500	.000	1.000	1.000	.001	.000
2754.750	.000	.559	.559	.035	.015
2755.000	.000	1.000	1.000	.001	.000
2755.250	.000	1.000	1.000	.001	.000
2755.500	.000	.516	.371	.078	.049
2755.750	.615	.270	.270	.172	.125
2756.000	.000	1.000	1.000	.001	.000
2756.250	.208	.548	.548	.117	.053
2756.500	.188	.555	.542	.116	.053
2756.750	.000	1.000	1.000	.001	.000
2757.000	.000	1.000	1.000	.001	.000
2757.250	.000	1.000	1.000	.001	.000
2757.500	.190	.659	.453	.106	.058
2757.750	.210	.560	.434	.110	.062
2758.000	.000	1.000	1.000	.001	.000
2758.250	.196	.582	.582	.093	.039
2758.500	.201	.520	.520	.106	.051
2758.750	.202	.485	.477	.113	.059
2759.000	.204	.471	.471	.110	.058
2759.250	.179	.523	.514	.099	.048
2759.500	.185	.509	.475	.105	.055
2759.750	.226	.474	.474	.108	.057
2760.000	.000	1.000	1.000	.001	.000
2760.250	.939	.446	.446	.061	.034
2760.500	.417	.515	.312	.127	.087
2760.750	.297	.632	.354	.124	.080
2761.000	.289	.439	.417	.121	.070
2761.250	.273	.431	.431	.120	.068
2761.500	.265	.444	.444	.113	.063
2761.750	.236	.476	.476	.107	.056
2762.000	.220	.502	.502	.101	.050
2762.250	.269	.519	.519	.095	.046
2762.500	.277	.508	.457	.096	.052
2762.750	.309	.459	.459	.102	.055
2763.000	.000	1.000	1.000	.000	.000
2763.250	.000	1.000	1.000	.000	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2763.500	.000	1.000	1.000	.000	.000
2763.750	.000	1.000	1.000	.000	.000
2764.000	.000	1.000	1.000	.000	.000
2764.250	.000	1.000	1.000	.001	.000
2764.500	.000	1.000	1.000	.001	.000
2764.750	.000	1.000	1.000	.001	.000
2765.000	.000	1.000	1.000	.001	.000
2765.250	.000	.672	.672	.012	.004
2765.500	.393	.286	.288	.142	.101
2765.750	.000	1.000	1.000	.001	.000
2766.000	.000	1.000	1.000	.001	.000
2766.250	.000	1.000	1.000	.001	.000
2766.500	.220	.603	.603	.100	.040
2766.750	.231	.552	.552	.118	.053
2767.000	.222	.566	.566	.127	.055
2767.250	.353	.565	.565	.119	.052
2767.500	.483	.607	.607	.092	.036
2767.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2768.000	.000	1.000	1.000	.001	.000
2768.250	.323	.575	.576	.088	.037
2768.500	.262	.536	.538	.108	.050
2768.750	.282	.644	.644	.100	.035
2769.000	.494	.860	.880	.054	.007
2769.250	.000	1.000	1.000	.001	.000
2769.500	.000	1.000	1.000	.001	.000
2769.750	.000	1.000	1.000	.001	.000
2770.000	.000	1.000	1.000	.000	.000
2770.250	.000	1.000	1.000	.000	.000
2770.500	.000	1.000	1.000	.000	.000
2770.750	.000	1.000	1.000	.000	.000
2771.000	.000	1.000	1.000	.000	.000
2771.250	.000	1.000	1.000	.000	.000
2771.500	.000	1.000	1.000	.000	.000
2771.750	.000	1.000	1.000	.000	.000
2772.000	.000	1.000	1.000	.000	.000
2772.250	.398	.563	.583	.087	.036
2772.500	.265	.585	.586	.101	.042
2772.750	.000	1.000	1.000	.001	.000
2773.000	.000	1.000	1.000	.001	.000
2773.250	.000	1.000	1.000	.001	.000
2773.500	.000	1.000	1.000	.001	.000
2773.750	.000	1.000	1.000	.001	.000
2774.000	.552	.300	.300	.000	.000
2774.250	.000	1.000	1.000	.000	.000
2774.500	.000	1.000	1.000	.000	.000
2774.750	.000	1.000	1.000	.000	.000
2775.000	.000	1.000	1.000	.000	.000
2775.250	.673	.288	.288	.000	.000
2775.500	.740	.250	.250	.000	.000
2775.750	1.000	.773	.773	.000	.000
2776.000	.254	.504	.504	.000	.000
2776.250	.037	.544	.544	.142	.065
2776.500	.000	.610	.610	.144	.056
2776.750	.066	.690	.690	.123	.038
2777.000	.134	.750	.750	.106	.026
2777.250	.355	.772	.772	.071	.016
2777.500	.000	1.000	1.000	.000	.000
2777.750	1.000	.763	.752	.000	.000
2778.000	1.000	.360	.304	.000	.000
2778.250	.000	1.000	1.000	.000	.000
2778.500	.000	1.000	1.000	.000	.000
2778.750	.000	1.000	1.000	.000	.000

2779.000	.000	1.000	1.000	.000	.000
2779.250	.000	1.000	1.000	.000	.000
2779.500	.000	1.000	1.000	.000	.000
2779.750	.000	1.000	1.000	.000	.000
2780.000	.837	.214	.214	.000	.000
2780.250	.000	1.000	1.000	.000	.000
2780.500	.000	1.000	1.000	.000	.000
2780.750	.000	1.000	1.000	.000	.000
2781.000	.000	1.000	1.000	.000	.000
2781.250	.000	1.000	1.000	.000	.000
2781.500	.000	1.000	1.000	.000	.000
2781.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2782.000	.000	1.000	1.000	.000	.000
2782.250	.000	1.000	1.000	.000	.000
2782.500	.000	1.000	1.000	.000	.000
2782.750	.000	1.000	1.000	.000	.000
2783.000	.000	1.000	1.000	.000	.000
2783.250	.000	1.000	1.000	.000	.000
2783.500	.000	1.000	1.000	.000	.000
2783.750	.000	1.000	1.000	.000	.000
2784.000	.000	1.000	1.000	.000	.000
2784.250	.000	1.000	1.000	.000	.000
2784.500	.000	1.000	1.000	.000	.000
2784.750	.000	1.000	1.000	.000	.000
2785.000	.000	1.000	1.000	.000	.000
2785.250	.969	.794	.579	.031	.013
2785.500	.000	1.000	1.000	.001	.000
2785.750	.895	.427	.352	.105	.068
2786.000	.879	.319	.319	.121	.082
2786.250	.952	.977	.540	.048	.022
2786.500	.963	1.000	.624	.037	.014
2786.750	.986	1.000	.799	.014	.003
2787.000	.000	1.000	1.000	.001	.000
2787.250	.971	1.000	.665	.029	.010
2787.500	.973	.707	.627	.027	.010
2787.750	.974	.920	.629	.026	.010
2788.000	.979	.847	.745	.021	.005
2788.250	.000	1.000	1.000	.001	.000
2788.500	.000	1.000	1.000	.001	.000
2788.750	.000	1.000	1.000	.001	.000
2789.000	.000	1.000	1.000	.001	.000
2789.250	.000	1.000	1.000	.001	.000
2789.500	.000	1.000	1.000	.001	.000
2789.750	.000	1.000	1.000	.001	.000
2790.000	.000	1.000	1.000	.001	.000
2790.250	.000	1.000	1.000	.001	.000
2790.500	.000	.538	.538	.056	.026
2790.750	.000	.634	.684	.027	.008
2791.000	.000	1.000	1.000	.001	.000
2791.250	.000	1.000	1.000	.001	.000
2791.500	.000	1.000	1.000	.001	.000
2791.750	.000	1.000	1.000	.001	.000
2792.000	.989	.687	.687	.011	.001
2792.250	.140	.723	.723	.111	.031
2792.500	.089	.802	.802	.111	.022
2792.750	.078	.823	.823	.110	.020
2793.000	.064	.842	.842	.116	.018
2793.250	.033	.838	.838	.119	.019
2793.500	.071	.865	.865	.102	.014
2793.750	.135	.912	.912	.081	.007
2794.000	.138	.890	.890	.083	.009
2794.250	.083	.814	.814	.101	.019

2794.500	.074	.838	.838	.100	.016
2794.750	.152	.968	.968	.077	.002
2795.000	.228	1.000	1.000	.057	.000
2795.250	.256	1.000	1.000	.055	.000
2795.500	.262	1.000	1.000	.051	.000
2795.750	.277	1.000	1.000	.050	.000

1 DREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2796.000	.000	1.000	1.000	.001	.000
2796.250	.000	.526	.526	.067	.032
2796.500	.000	1.000	1.000	.001	.000
2796.750	.000	1.000	1.000	.001	.000
2797.000	.000	1.000	1.000	.001	.000
2797.250	.000	1.000	1.000	.001	.000
2797.500	.000	1.000	1.000	.001	.000
2797.750	.000	.449	.449	.074	.041
2798.000	.000	1.000	1.000	.001	.000
2798.250	.000	1.000	1.000	.001	.000
2798.500	.000	1.000	1.000	.001	.000
2798.750	.000	1.000	1.000	.001	.000
2799.000	.000	1.000	1.000	.001	.000
2799.250	.000	1.000	1.000	.001	.000
2799.500	.000	1.000	1.000	.001	.000
2799.750	.000	1.000	1.000	.001	.000
2800.000	.000	1.000	1.000	.001	.000
2800.250	.000	1.000	1.000	.001	.000
2800.500	.000	1.000	1.000	.001	.000
2800.750	.547	.540	.540	.031	.014
2801.000	.000	1.000	1.000	.001	.000
2801.250	.000	.786	.634	.023	.009
2801.500	.000	1.000	1.000	.001	.000
2801.750	.000	1.000	1.000	.001	.000
2802.000	.000	1.000	1.000	.001	.000
2802.250	.951	.521	.521	.049	.023
2802.500	.000	1.000	1.000	.001	.000
2802.750	.000	1.000	1.000	.001	.000
2803.000	.000	1.000	1.000	.001	.000
2803.250	.000	1.000	1.000	.001	.000
2803.500	.000	1.000	1.000	.001	.000
2803.750	.000	1.000	1.000	.001	.000
2804.000	.000	1.000	1.000	.001	.000
2804.250	.000	1.000	1.000	.001	.000
2804.500	.974	.942	.591	.026	.011
2804.750	.000	1.000	1.000	.001	.000
2805.000	.000	1.000	1.000	.001	.000
2805.250	.000	.648	.648	.015	.005
2805.500	.000	1.000	1.000	.001	.000
2805.750	.000	1.000	1.000	.001	.000
2806.000	.000	1.000	1.000	.001	.000
2806.250	.000	1.000	1.000	.001	.000
2806.500	.426	.475	.475	.084	.044
2806.750	.255	.777	.568	.089	.038
2807.000	.270	1.000	.673	.074	.024
2807.250	.378	.883	.883	.048	.006
2807.500	.601	.971	.957	.016	.001
2807.750	.986	.910	.679	.014	.004
2808.000	.000	1.000	1.000	.001	.000
2808.250	.637	.254	.254	.139	.104
2808.500	.621	.310	.239	.163	.124
2808.750	.000	1.000	1.000	.001	.000
2809.000	.000	1.000	1.000	.000	.000
2809.250	.000	1.000	1.000	.000	.000
2809.500	.000	1.000	1.000	.000	.000
2809.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2810.000	.000	1.000	1.000	.000	.000
2810.250	.000	1.000	1.000	.000	.000
2810.500	.000	1.000	1.000	.000	.000
2810.750	.000	1.000	1.000	.000	.000
2811.000	.000	1.000	1.000	.000	.000
2811.250	.000	1.000	1.000	.001	.000
2811.500	.000	1.000	1.000	.001	.000
2811.750	.000	1.000	1.000	.001	.000
2812.000	.000	1.000	1.000	.001	.000
2812.250	.000	1.000	1.000	.001	.000
2812.500	.000	1.000	1.000	.001	.000
2812.750	.000	1.000	1.000	.001	.000
2813.000	.000	1.000	1.000	.001	.000
2813.250	.000	1.000	1.000	.001	.000
2813.500	.194	.001	.667	.085	.028
2813.750	.152	.613	.405	.117	.070
2814.000	.117	.583	.327	.123	.083
2814.250	.070	.511	.258	.137	.102
2814.500	.059	.449	.206	.146	.116
2814.750	.032	.415	.160	.153	.128
2815.000	.014	.360	.134	.161	.139
2815.250	.041	.361	.135	.159	.138
2815.500	.049	.406	.146	.158	.135
2815.750	.059	.564	.162	.151	.127
2816.000	.060	.439	.186	.151	.123
2816.250	.070	.514	.209	.145	.115
2816.500	.069	.562	.210	.147	.116
2816.750	.090	.498	.196	.154	.124
2817.000	.074	.460	.172	.164	.135
2817.250	.040	.455	.153	.171	.144
2817.500	.066	.414	.155	.160	.135
2817.750	.074	.460	.181	.154	.126
2818.000	.101	.486	.203	.152	.121
2818.250	.089	.518	.227	.147	.113
2818.500	.095	.553	.252	.134	.100
2818.750	.140	.605	.276	.114	.082
2819.000	.154	.637	.311	.097	.067
2819.250	.139	.668	.403	.079	.047
2819.500	.145	.912	.434	.072	.041
2819.750	.151	.867	.430	.071	.040
2820.000	.108	.829	.412	.079	.046
2820.250	.107	.830	.405	.083	.050
2820.500	.112	.945	.471	.070	.037
2820.750	.000	1.000	1.000	.001	.000
2821.000	.105	1.000	.507	.065	.032
2821.250	.073	.848	.393	.089	.054
2821.500	.075	.666	.359	.096	.062
2821.750	.020	.750	.386	.108	.066
2822.000	.028	.867	.464	.095	.051
2822.250	.047	.876	.518	.084	.040
2822.500	.105	.726	.463	.090	.048
2822.750	.115	.632	.421	.102	.059
2823.000	.152	.517	.353	.125	.081
2823.250	.125	.527	.355	.132	.085
2823.500	.129	.525	.370	.126	.079
2823.750	.374	.542	.374	.102	.064

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2824.000	.000	1.000	1.000	.001	.000
2824.250	.000	1.000	1.000	.001	.000
2824.500	.000	1.000	1.000	.001	.000

2824.750	.000	1.000	1.000	.001	.000
2825.000	.000	1.000	1.000	.001	.000
2825.250	.000	1.000	1.000	.001	.000
2825.500	.974	1.000	.515	.026	.010
2825.750	.000	1.000	1.000	.001	.000
2826.000	.000	1.000	1.000	.001	.000
2826.250	.000	1.000	1.000	.001	.000
2826.500	.000	1.000	1.000	.001	.000
2826.750	.276	.550	.426	.059	.034
2827.000	.000	1.000	1.000	.001	.000
2827.250	.000	1.000	1.000	.001	.000
2827.500	.000	1.000	1.000	.001	.000
2827.750	.000	1.000	1.000	.001	.000
2828.000	.000	1.000	1.000	.001	.000
2828.250	.000	1.000	1.000	.001	.000
2828.500	.251	.547	.547	.105	.048
2828.750	.195	.554	.554	.115	.051
2829.000	.168	.670	.649	.097	.034
2829.250	.108	.699	.699	.081	.024
2829.500	.185	.609	.609	.094	.037
2829.750	.163	.568	.560	.109	.048
2830.000	.164	.609	.565	.104	.045
2830.250	.181	.580	.556	.101	.045
2830.500	.175	.512	.508	.114	.056
2830.750	.191	.554	.513	.107	.052
2831.000	.128	.746	.468	.088	.047
2831.250	.089	.754	.676	.076	.025
2831.500	.124	.716	.678	.071	.023
2831.750	.153	.769	.756	.060	.015
2832.000	.104	.802	.700	.071	.021
2832.250	.089	.754	.619	.083	.031
2832.500	.074	.706	.571	.088	.038
2832.750	.059	.654	.546	.093	.042
2833.000	.074	.690	.498	.108	.054
2833.250	.080	.578	.477	.114	.060
2833.500	.113	.563	.491	.109	.055
2833.750	.138	.530	.480	.112	.058
2834.000	.142	.603	.488	.111	.057
2834.250	.168	.592	.536	.097	.045
2834.500	.126	.690	.568	.093	.040
2834.750	.094	.653	.567	.092	.040
2835.000	.087	.505	.475	.111	.058
2835.250	.084	.551	.484	.116	.060
2835.500	.000	1.000	1.000	.001	.000
2835.750	.000	1.000	1.000	.001	.000
2836.000	.222	.673	.570	.082	.035
2836.250	.223	.596	.596	.082	.033
2836.500	.122	.649	.549	.102	.046
2836.750	.105	.651	.568	.096	.042
2837.000	.119	.705	.628	.081	.030
2837.250	.114	.671	.603	.084	.034
2837.500	.137	.630	.592	.085	.035
2837.750	.159	.627	.596	.084	.034

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2838.000	.000	1.000	1.000	.000	.000
2838.250	.000	1.000	1.000	.000	.000
2838.500	.000	1.000	1.000	.000	.000
2838.750	.000	1.000	1.000	.000	.000
2839.000	.000	1.000	1.000	.000	.000
2839.250	.000	1.000	1.000	.000	.000
2839.500	.000	1.000	1.000	.000	.000
2839.750	.000	1.000	1.000	.000	.000
2840.000	.000	1.000	1.000	.000	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2840.250	.000	1.000	1.000	.000	.000
2840.500	.000	1.000	1.000	.000	.000
2840.750	.000	1.000	1.000	.000	.000
2841.000	.000	1.000	1.000	.000	.000
2841.250	.000	1.000	1.000	.000	.000
2841.500	.000	1.000	1.000	.000	.000
2841.750	.000	1.000	1.000	.000	.000
2842.000	.000	1.000	1.000	.000	.000
2842.250	.000	1.000	1.000	.000	.000
2842.500	.000	1.000	1.000	.000	.000
2842.750	.000	1.000	1.000	.000	.000
2843.000	.000	1.000	1.000	.000	.000
2843.250	.000	1.000	1.000	.000	.000
2843.500	.000	1.000	1.000	.000	.000
2843.750	.000	1.000	1.000	.000	.000
2844.000	.000	1.000	1.000	.000	.000
2844.250	.000	1.000	1.000	.000	.000
2844.500	.000	1.000	1.000	.000	.000
2844.750	.000	1.000	1.000	.000	.000
2845.000	.000	1.000	1.000	.000	.000
2845.250	.000	1.000	1.000	.000	.000
2845.500	.000	1.000	1.000	.000	.000
2845.750	.000	1.000	1.000	.000	.000
2846.000	.000	1.000	1.000	.000	.000
2846.250	.000	1.000	1.000	.000	.000
2846.500	.000	1.000	1.000	.000	.000
2846.750	.000	1.000	1.000	.000	.000
2847.000	.000	1.000	1.000	.000	.000
2847.250	.000	1.000	1.000	.000	.000
2847.500	.000	1.000	1.000	.000	.000
2847.750	.000	1.000	1.000	.000	.000
2848.000	.000	1.000	1.000	.000	.000
2848.250	.239	.566	.554	.093	.041
2848.500	.192	.660	.561	.098	.043
2848.750	.188	.646	.410	.103	.061
2849.000	.161	.554	.337	.125	.083
2849.250	.140	.511	.303	.133	.093
2849.500	.127	.579	.318	.124	.085
2849.750	.133	.583	.315	.115	.079
2850.000	.143	.686	.359	.104	.067
2850.250	.000	1.000	1.000	.000	.000
2850.500	.000	1.000	1.000	.000	.000
2850.750	.000	1.000	1.000	.000	.000
2851.000	.000	1.000	1.000	.000	.000
2851.250	.000	1.000	1.000	.000	.000
2851.500	.000	1.000	1.000	.000	.000
2851.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2852.000	.000	1.000	1.000	.000	.000
2852.250	.963	.482	.449	.037	.020
2852.500	.000	1.000	1.000	.001	.000
2852.750	.000	1.000	1.000	.001	.000
2853.000	.000	1.000	1.000	.001	.000
2853.250	.000	1.000	1.000	.001	.000
2853.500	.000	1.000	1.000	.001	.000
2853.750	.000	1.000	1.000	.001	.000
2854.000	.000	1.000	1.000	.001	.000
2854.250	.000	1.000	1.000	.001	.000
2854.500	.949	.439	.439	.051	.028
2854.750	.989	1.000	.642	.011	.004
2855.000	.000	1.000	1.000	.000	.000
2855.250	.000	1.000	1.000	.000	.000
2855.500	.000	1.000	1.000	.000	.000

2855.750	.000	1.000	1.000	.000	.000
2856.000	.000	1.000	1.000	.000	.000
2856.250	.000	1.000	1.000	.000	.000
2856.500	.000	1.000	1.000	.000	.000
2856.750	.000	1.000	1.000	.000	.000
2857.000	.000	1.000	1.000	.000	.000
2857.250	.000	1.000	1.000	.001	.000
2857.500	.000	1.000	1.000	.001	.000
2857.750	.885	.277	.277	.115	.083
2858.000	.000	1.000	1.000	.001	.000
2858.250	.000	1.000	1.000	.001	.000
2858.500	.000	1.000	1.000	.001	.000
2858.750	.000	1.000	1.000	.001	.000
2859.000	.000	1.000	1.000	.001	.000
2859.250	.974	.621	.619	.026	.010
2859.500	.959	.571	.515	.041	.020
2859.750	.961	.586	.535	.039	.018
2860.000	.903	.763	.396	.097	.059
2860.250	.806	.593	.260	.194	.143
2860.500	.916	.389	.389	.084	.051
2860.750	.000	1.000	1.000	.001	.000
2861.000	.000	1.000	1.000	.001	.000
2861.250	.000	1.000	1.000	.001	.000
2861.500	.000	1.000	1.000	.001	.000
2861.750	.000	1.000	1.000	.001	.000
2862.000	.000	1.000	1.000	.001	.000
2862.250	.000	1.000	1.000	.001	.000
2862.500	.000	1.000	1.000	.001	.000
2862.750	.960	.603	.586	.040	.017
2863.000	.828	.277	.277	.172	.124
2863.250	.000	1.000	1.000	.001	.000
2863.500	.000	1.000	1.000	.001	.000
2863.750	.000	1.000	1.000	.001	.000
2864.000	.970	.588	.586	.030	.012
2864.250	.930	.553	.416	.070	.041
2864.500	.000	1.000	1.000	.001	.000
2864.750	.000	1.000	1.000	.001	.000
2865.000	.000	1.000	1.000	.001	.000
2865.250	.988	1.000	.818	.012	.002
2865.500	.957	.922	.584	.043	.018
2865.750	.882	.488	.325	.118	.079

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2866.000	.873	.360	.318	.127	.087
2866.250	.908	.613	.387	.092	.056
2866.500	.949	.665	.495	.051	.026
2866.750	.000	1.000	1.000	.001	.000
2867.000	.764	.448	.448	.059	.033
2867.250	.000	1.000	1.000	.001	.000
2867.500	.000	1.000	1.000	.001	.000
2867.750	.000	1.000	1.000	.001	.000
2868.000	.000	1.000	1.000	.001	.000
2868.250	.988	.730	.730	.012	.003
2868.500	.987	.703	.703	.013	.004
2868.750	.000	1.000	1.000	.001	.000
2869.000	.984	.670	.670	.016	.005
2869.250	.974	.602	.602	.026	.011
2869.500	.969	.587	.587	.031	.013
2869.750	.969	.598	.598	.031	.013
2870.000	.978	.660	.621	.022	.008
2870.250	.000	1.000	1.000	.001	.000
2870.500	.311	.592	.592	.024	.010
2870.750	.562	.625	.625	.017	.006
2871.000	.000	1.000	1.000	.001	.000

2871.250	.000	.643	.643	.012	.004
2871.500	.000	1.000	1.000	.001	.000
2871.750	.461	.451	.451	.096	.053
2872.000	.579	.520	.501	.077	.039
2872.250	.485	1.000	.666	.046	.015
2872.500	.000	1.000	1.000	.001	.000
2872.750	.227	1.000	.621	.070	.026
2873.000	.142	.716	.519	.096	.046
2873.250	.170	.581	.581	.095	.040
2873.500	.164	.577	.577	.094	.040
2873.750	.170	.604	.604	.087	.034
2874.000	.139	.580	.580	.093	.039
2874.250	.125	.584	.584	.094	.039
2874.500	.115	.617	.617	.088	.034
2874.750	.116	.621	.621	.086	.033
2875.000	.101	.616	.616	.088	.034
2875.250	.052	.638	.638	.089	.032
2875.500	.090	.760	.760	.068	.016
2875.750	.132	.860	.860	.054	.007
2876.000	.146	.827	.827	.055	.010
2876.250	.140	.824	.824	.056	.010
2876.500	.185	1.000	1.000	.026	.000
2876.750	.000	1.000	1.000	.001	.000
2877.000	.000	1.000	1.000	.001	.000
2877.250	.000	1.000	1.000	.001	.000
2877.500	.000	1.000	1.000	.000	.000
2877.750	.000	1.000	1.000	.000	.000
2878.000	.000	1.000	1.000	.000	.000
2878.250	.000	1.000	1.000	.000	.000
2878.500	.000	1.000	1.000	.000	.000
2878.750	.000	1.000	1.000	.000	.000
2879.000	.000	1.000	1.000	.000	.000
2879.250	.000	1.000	1.000	.000	.000
2879.500	.000	1.000	1.000	.000	.000
2879.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2880.000	.000	1.000	1.000	.000	.000
2880.250	.000	1.000	1.000	.001	.000
2880.500	.000	1.000	1.000	.001	.000
2880.750	.000	1.000	1.000	.001	.000
2881.000	.000	1.000	1.000	.001	.000
2881.250	.000	1.000	1.000	.001	.000
2881.500	.000	1.000	1.000	.001	.000
2881.750	.000	1.000	1.000	.001	.000
2882.000	.000	1.000	1.000	.001	.000
2882.250	.000	1.000	1.000	.001	.000
2882.500	.000	1.000	1.000	.001	.000
2882.750	.000	1.000	1.000	.001	.000
2883.000	.000	1.000	1.000	.001	.000
2883.250	.000	1.000	1.000	.001	.000
2883.500	.000	1.000	1.000	.001	.000
2883.750	.000	1.000	1.000	.001	.000
2884.000	.000	1.000	1.000	.001	.000
2884.250	.000	1.000	1.000	.001	.000
2884.500	.000	1.000	1.000	.001	.000
2884.750	.160	1.000	.557	.109	.048
2885.000	.000	1.000	1.000	.001	.000
2885.250	.000	1.000	1.000	.001	.000
2885.500	.154	1.000	.546	.110	.050
2885.750	.167	1.000	.500	.113	.056
2886.000	.000	1.000	1.000	.001	.000
2886.250	.000	1.000	1.000	.001	.000
2886.500	.000	1.000	1.000	.001	.000

2886.750	.000	1.000	1.000	.001	.000
2887.000	.000	1.000	1.000	.001	.000
2887.250	.000	1.000	1.000	.001	.000
2887.500	.647	.586	.586	.039	.016
2887.750	.402	.437	.487	.103	.053
2888.000	.316	.662	.662	.084	.029
2888.250	.296	.708	.698	.078	.023
2888.500	.157	.456	.456	.149	.081
2888.750	.138	.383	.383	.194	.120
2889.000	.235	.349	.357	.185	.119
2889.250	.471	.489	.396	.124	.075
2889.500	.000	1.000	1.000	.000	.000
2889.750	.000	1.000	1.000	.000	.000
2890.000	.057	.212	.212	.000	.000
2890.250	.000	1.000	1.000	.000	.000
2890.500	.273	.392	.291	.000	.000
2890.750	.000	1.000	1.000	.000	.000
2891.000	.000	1.000	1.000	.000	.000
2891.250	.000	1.000	1.000	.001	.000
2891.500	.000	1.000	1.000	.001	.000
2891.750	.000	1.000	1.000	.001	.000
2892.000	.911	.617	.384	.089	.055
2892.250	.000	1.000	1.000	.001	.000
2892.500	.000	1.000	1.000	.001	.000
2892.750	.000	1.000	1.000	.001	.000
2893.000	.000	1.000	1.000	.001	.000
2893.250	.000	1.000	1.000	.001	.000
2893.500	.969	.589	.589	.031	.013
2893.750	.952	.524	.524	.048	.023

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2894.000	.000	1.000	1.000	.001	.000
2894.250	.988	.765	.765	.012	.003
2894.500	.000	1.000	1.000	.001	.000
2894.750	.000	1.000	1.000	.001	.000
2895.000	.000	.525	.525	.034	.016
2895.250	.000	1.000	1.000	.001	.000
2895.500	.000	1.000	1.000	.001	.000
2895.750	.000	1.000	1.000	.001	.000
2896.000	.000	1.000	1.000	.001	.000
2896.250	.942	.586	.544	.058	.026
2896.500	.000	1.000	1.000	.000	.000
2896.750	.000	1.000	1.000	.000	.000
2897.000	.000	1.000	1.000	.000	.000
2897.250	1.000	.177	.169	.000	.000
2897.500	.000	1.000	1.000	.000	.000
2897.750	.000	1.000	1.000	.000	.000
2898.000	.000	1.000	1.000	.000	.000
2898.250	.000	1.000	1.000	.001	.000
2898.500	.000	1.000	1.000	.001	.000
2898.750	.000	1.000	1.000	.001	.000
2899.000	.000	1.000	1.000	.001	.000
2899.250	.000	1.000	1.000	.001	.000
2899.500	.255	1.000	.647	.078	.028
2899.750	.286	1.000	.690	.070	.022
2900.000	.393	1.000	.817	.047	.009
2900.250	.369	1.000	.753	.064	.016
2900.500	.944	1.000	.615	.056	.022
2900.750	.885	.732	.362	.115	.074
2901.000	.869	.329	.277	.131	.095
2901.250	.000	1.000	1.000	.001	.000
2901.500	.000	1.000	1.000	.001	.000
2901.750	.858	.258	.258	.142	.105
2902.000	.957	.517	.476	.043	.023

2902.250	.000	1.000	1.000	.001	.000
2902.500	.000	1.000	1.000	.001	.000
2902.750	.000	1.000	1.000	.001	.000
2903.000	.000	1.000	1.000	.001	.000
2903.250	.000	1.000	1.000	.001	.000
2903.500	.000	1.000	1.000	.001	.000
2903.750	.978	.580	.580	.022	.009
2904.000	.000	1.000	1.000	.001	.000
2904.250	.000	1.000	1.000	.001	.000
2904.500	.000	1.000	1.000	.001	.000
2904.750	.322	.427	.427	.070	.040
2905.000	.000	1.000	1.000	.001	.000
2905.250	.000	1.000	1.000	.001	.000
2905.500	.000	1.000	1.000	.001	.000
2905.750	.000	1.000	1.000	.001	.000
2906.000	.000	1.000	1.000	.001	.000
2906.250	.000	1.000	1.000	.001	.000
2906.500	.000	1.000	1.000	.001	.000
2906.750	.193	.389	.389	.062	.038
2907.000	.000	1.000	1.000	.001	.000
2907.250	.976	.661	.607	.024	.009
2907.500	.000	1.000	1.000	.001	.000
2907.750	.172	.450	.450	.053	.029

1 BREAM #5

DEPTH	VCL	SXO	Sw	PHI	HC.VOL
2908.000	.000	1.000	1.000	.000	.000
2908.250	.000	1.000	1.000	.000	.000
2908.500	.000	1.000	1.000	.000	.000
2908.750	.000	1.000	1.000	.000	.000
2909.000	.000	1.000	1.000	.000	.000
2909.250	.000	1.000	1.000	.000	.000
2909.500	.000	1.000	1.000	.000	.000
2909.750	.983	.672	.672	.017	.006
2910.000	.000	1.000	1.000	.001	.000
2910.250	.278	.615	.615	.024	.009
2910.500	.000	1.000	1.000	.001	.000
2910.750	.000	1.000	1.000	.001	.000
2911.000	.281	.347	.347	.159	.103
2911.250	.389	.313	.313	.167	.114
2911.500	.956	.934	.545	.044	.020
2911.750	.000	1.000	.767	.013	.003
2912.000	.000	1.000	1.000	.000	.000
2912.250	.000	1.000	1.000	.000	.000
2912.500	.000	1.000	1.000	.000	.000
2912.750	.000	1.000	1.000	.000	.000
2913.000	.535	.206	.206	.000	.000
2913.250	.000	1.000	1.000	.000	.000
2913.500	.000	1.000	1.000	.001	.000
2913.750	.000	.525	.525	.034	.016
2914.000	.000	1.000	1.000	.001	.000
2914.250	.000	1.000	1.000	.001	.000
2914.500	.000	1.000	1.000	.001	.000
2914.750	.000	1.000	1.000	.001	.000
2915.000	.972	.776	.486	.028	.014
2915.250	.978	1.000	.531	.022	.010
2915.500	.981	1.000	.570	.019	.008
2915.750	.977	.776	.523	.023	.011
2916.000	.000	1.000	1.000	.001	.000
2916.250	.961	.457	.457	.039	.021
2916.500	1.000	1.000	.483	.000	.000
2916.750	1.000	1.000	.546	.000	.000
2917.000	1.000	1.000	.553	.000	.000
2917.250	.000	1.000	1.000	.000	.000
2917.500	.000	1.000	1.000	.000	.000

2917.750	.773	.158	.158	.000	.000
2918.000	.705	.312	.312	.000	.000
2918.250	.000	1.000	1.000	.000	.000
2918.500	.000	1.000	1.000	.000	.000
2918.750	.000	1.000	1.000	.000	.000
2919.000	.000	.509	.509	.000	.000
2919.250	.000	.539	.539	.000	.000
2919.500	.702	.519	.519	.000	.000
2919.750	1.000	.434	.434	.000	.000
2920.000	.000	1.000	1.000	.000	.000
2920.250	1.000	.519	.519	.000	.000
2920.500	.000	1.000	1.000	.000	.000
2920.750	.000	1.000	1.000	.000	.000
2921.000	.000	1.000	1.000	.000	.000
2921.250	.000	1.000	1.000	.001	.000
2921.500	.000	1.000	1.000	.000	.000
2921.750	.000	1.000	1.000	.000	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2922.000	.000	1.000	1.000	.000	.000
2922.250	.000	1.000	1.000	.000	.000
2922.500	.000	1.000	1.000	.000	.000
2922.750	.000	1.000	1.000	.000	.000
2923.000	.000	1.000	1.000	.000	.000
2923.250	.000	1.000	1.000	.000	.000
2923.500	.000	1.000	1.000	.000	.000
2923.750	.000	1.000	1.000	.000	.000
2924.000	.000	1.000	1.000	.000	.000
2924.250	.000	1.000	1.000	.000	.000
2924.500	.000	1.000	1.000	.000	.000
2924.750	.000	1.000	1.000	.000	.000
2925.000	.000	1.000	1.000	.000	.000
2925.250	.000	1.000	1.000	.000	.000
2925.500	.000	1.000	1.000	.000	.000
2925.750	.000	1.000	1.000	.000	.000
2926.000	.000	1.000	1.000	.000	.000
2926.250	.000	1.000	1.000	.000	.000
2926.500	.000	1.000	1.000	.000	.000
2926.750	.000	1.000	1.000	.000	.000
2927.000	.000	1.000	1.000	.000	.000
2927.250	.508	1.000	.388	.112	.068
2927.500	.000	1.000	1.000	.001	.000
2927.750	.000	1.000	1.000	.001	.000
2928.000	.986	.686	.686	.014	.004
2928.250	.000	1.000	1.000	.001	.000
2928.500	.000	1.000	1.000	.001	.000
2928.750	.000	1.000	1.000	.001	.000
2929.000	.983	.710	.611	.017	.007
2929.250	.000	1.000	1.000	.001	.000
2929.500	.000	1.000	1.000	.001	.000
2929.750	.000	1.000	1.000	.001	.000
2930.000	.000	1.000	1.000	.000	.000
2930.250	.000	1.000	1.000	.000	.000
2930.500	.000	1.000	1.000	.000	.000
2930.750	.755	.168	.168	.000	.000
2931.000	.000	1.000	1.000	.000	.000
2931.250	.000	1.000	1.000	.000	.000
2931.500	.000	1.000	1.000	.000	.000
2931.750	.000	1.000	1.000	.000	.000
2932.000	.000	1.000	1.000	.000	.000
2932.250	.574	.208	.208	.000	.000
2932.500	.000	1.000	1.000	.000	.000
2932.750	.000	1.000	1.000	.001	.000
2933.000	.000	1.000	1.000	.001	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2933.250	.000	1.000	1.000	.001	.000
2933.500	.000	1.000	1.000	.001	.000
2933.750	.249	.557	.510	.081	.040
2934.000	.431	.730	.505	.048	.024
2934.250	.300	.777	.765	.041	.010
2934.500	.176	1.000	.699	.051	.015
2934.750	.163	.832	.588	.062	.026
2935.000	.173	.732	.634	.072	.026
2935.250	.191	.633	.417	.090	.053
2935.500	.180	.578	.372	.098	.062
2935.750	.203	.667	.433	.075	.042

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2936.000	.203	.862	.531	.055	.026
2936.250	.121	.869	.500	.069	.034
2936.500	.149	1.000	.705	.047	.014
2936.750	.241	1.000	1.000	.015	.000
2937.000	.000	1.000	1.000	.001	.000
2937.250	.255	1.000	.955	.027	.001
2937.500	.212	1.000	.800	.040	.008
2937.750	.103	.956	.604	.070	.028
2938.000	.116	.716	.538	.087	.040
2938.250	.202	.701	.670	.079	.026
2938.500	.000	1.000	1.000	.001	.000
2938.750	.000	1.000	1.000	.001	.000
2939.000	.000	1.000	1.000	.000	.000
2939.250	.000	1.000	1.000	.000	.000
2939.500	.000	1.000	1.000	.000	.000
2939.750	.000	1.000	1.000	.000	.000
2940.000	.000	1.000	1.000	.000	.000
2940.250	.000	1.000	1.000	.000	.000
2940.500	.000	1.000	1.000	.000	.000
2940.750	.000	1.000	1.000	.000	.000
2941.000	.000	1.000	1.000	.000	.000
2941.250	.000	1.000	1.000	.000	.000
2941.500	.000	1.000	1.000	.000	.000
2941.750	.000	1.000	1.000	.000	.000
2942.000	.000	1.000	1.000	.000	.000
2942.250	.000	1.000	1.000	.000	.000
2942.500	.000	1.000	1.000	.000	.000
2942.750	.000	1.000	1.000	.000	.000
2943.000	.000	1.000	1.000	.000	.000
2943.250	.000	1.000	1.000	.001	.000
2943.500	.000	1.000	1.000	.001	.000
2943.750	.000	1.000	1.000	.001	.000
2944.000	.000	1.000	1.000	.001	.000
2944.250	.396	.532	.532	.063	.029
2944.500	.170	.610	.610	.076	.030
2944.750	.158	.741	.741	.067	.017
2945.000	.161	.847	.847	.059	.009
2945.250	.169	.834	.834	.062	.010
2945.500	.000	1.000	1.000	.001	.000
2945.750	.000	1.000	1.000	.001	.000
2946.000	.000	1.000	1.000	.001	.000
2946.250	.000	1.000	1.000	.001	.000
2946.500	.000	1.000	1.000	.001	.000
2946.750	.000	1.000	1.000	.001	.000
2947.000	.000	1.000	1.000	.001	.000
2947.250	.000	1.000	1.000	.001	.000
2947.500	.230	.628	.628	.080	.030
2947.750	.184	.562	.531	.117	.055
2948.000	.231	.555	.553	.113	.051
2948.250	.325	.608	.514	.094	.046
2948.500	.000	1.000	1.000	.001	.000

2948.750	.000	1.000	1.000	.001	.000
2949.000	.000	1.000	1.000	.001	.000
2949.250	.000	1.000	1.000	.001	.000
2949.500	.264	.479	.479	.044	.023
2949.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2950.000	.000	1.000	1.000	.001	.000
2950.250	.947	.463	.463	.053	.028
2950.500	.895	.597	.312	.105	.073
2950.750	.900	.293	.272	.100	.073
2951.000	.975	.447	.447	.025	.014
2951.250	.000	1.000	1.000	.001	.000
2951.500	.978	.518	.518	.022	.010
2951.750	.965	.456	.456	.035	.019
2952.000	.970	.497	.492	.030	.015
2952.250	.958	1.000	.514	.042	.021
2952.500	.000	1.000	1.000	.001	.000
2952.750	.000	1.000	1.000	.001	.000
2953.000	.000	1.000	1.000	.000	.000
2953.250	.000	1.000	1.000	.000	.000
2953.500	.000	1.000	1.000	.000	.000
2953.750	.000	1.000	1.000	.000	.000
2954.000	.000	1.000	1.000	.000	.000
2954.250	.000	1.000	1.000	.000	.000
2954.500	.000	1.000	1.000	.000	.000
2954.750	.000	1.000	1.000	.000	.000
2955.000	.000	1.000	1.000	.000	.000
2955.250	.000	1.000	1.000	.001	.000
2955.500	.000	1.000	1.000	.001	.000
2955.750	.000	1.000	1.000	.001	.000
2956.000	.000	1.000	1.000	.001	.000
2956.250	.000	1.000	1.000	.001	.000
2956.500	.000	1.000	1.000	.001	.000
2956.750	.627	.319	.319	.132	.090
2957.000	.000	1.000	1.000	.001	.000
2957.250	.000	1.000	1.000	.001	.000
2957.500	.000	1.000	1.000	.001	.000
2957.750	.000	1.000	1.000	.001	.000
2958.000	.930	.404	.404	.070	.042
2958.250	.000	1.000	1.000	.001	.000
2958.500	.000	1.000	1.000	.001	.000
2958.750	.000	1.000	1.000	.001	.000
2959.000	.000	1.000	1.000	.001	.000
2959.250	.000	1.000	1.000	.001	.000
2959.500	.354	.258	.258	.140	.104
2959.750	.000	1.000	1.000	.001	.000
2960.000	.000	1.000	1.000	.001	.000
2960.250	.000	1.000	1.000	.001	.000
2960.500	.611	.650	.650	.017	.006
2960.750	.961	.511	.511	.039	.019
2961.000	.000	1.000	1.000	.000	.000
2961.250	.000	1.000	1.000	.000	.000
2961.500	.000	1.000	1.000	.000	.000
2961.750	.000	1.000	1.000	.000	.000
2962.000	.000	1.000	1.000	.000	.000
2962.250	.000	1.000	1.000	.000	.000
2962.500	.000	1.000	1.000	.000	.000
2962.750	.000	1.000	1.000	.000	.000
2963.000	.000	1.000	1.000	.000	.000
2963.250	.000	1.000	1.000	.001	.000
2963.500	.000	1.000	1.000	.001	.000
2963.750	.222	.718	.572	.077	.033

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2964.000	.173	.562	.562	.091	.040
2964.250	.165	.620	.620	.094	.036
2964.500	.153	.858	.646	.079	.028
2964.750	.096	1.000	.690	.074	.023
2965.000	.098	.964	.647	.069	.024
2965.250	.130	.996	.618	.063	.024
2965.500	.121	.975	.583	.062	.026
2965.750	.075	.924	.532	.071	.033
2966.000	.077	.684	.398	.091	.055
2966.250	.073	.611	.351	.101	.066
2966.500	.052	.620	.350	.105	.068
2966.750	.037	.550	.314	.119	.082
2967.000	.061	.504	.404	.116	.069
2967.250	.082	.607	.520	.090	.043
2967.500	.096	.764	.666	.070	.023
2967.750	.098	.563	.484	.104	.054
2968.000	.125	.550	.481	.105	.054
2968.250	.115	.774	.698	.076	.023
2968.500	.228	.922	.866	.051	.007
2968.750	.000	1.000	1.000	.001	.000
2969.000	.000	1.000	1.000	.001	.000
2969.250	.000	.569	.569	.018	.008
2969.500	.000	.557	.557	.022	.010
2969.750	.000	1.000	1.000	.001	.000
2970.000	.000	1.000	1.000	.001	.000
2970.250	.661	.253	.253	.144	.108
2970.500	.000	1.000	1.000	.001	.000
2970.750	.000	1.000	1.000	.001	.000
2971.000	.208	.612	.363	.075	.048
2971.250	.000	1.000	1.000	.001	.000
2971.500	.000	1.000	1.000	.001	.000
2971.750	.000	1.000	1.000	.001	.000
2972.000	.000	1.000	1.000	.001	.000
2972.250	.000	1.000	1.000	.001	.000
2972.500	.000	1.000	1.000	.001	.000
2972.750	.000	1.000	1.000	.001	.000
2973.000	.000	1.000	1.000	.001	.000
2973.250	.000	1.000	1.000	.001	.000
2973.500	.000	1.000	1.000	.001	.000
2973.750	.000	1.000	1.000	.001	.000
2974.000	.000	1.000	1.000	.001	.000
2974.250	.179	.573	.565	.085	.037
2974.500	.000	1.000	1.000	.001	.000
2974.750	.000	1.000	1.000	.001	.000
2975.000	.000	1.000	1.000	.001	.000
2975.250	.000	1.000	1.000	.001	.000
2975.500	.146	.477	.477	.109	.057
2975.750	.166	.499	.397	.118	.071
2976.000	.143	.491	.366	.129	.082
2976.250	.128	.430	.295	.144	.101
2976.500	.064	.463	.270	.151	.110
2976.750	.066	.428	.260	.145	.107
2977.000	.087	.434	.286	.134	.096
2977.250	.109	.464	.323	.125	.085
2977.500	.103	.562	.336	.129	.086
2977.750	.086	.496	.322	.139	.094

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2978.000	.103	.491	.322	.131	.089
2978.250	.094	.619	.409	.104	.061
2978.500	.086	.693	.588	.080	.033
2978.750	.000	1.000	1.000	.001	.000

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2979.000	.000	1.000	1.000	.001	.000
2979.250	.000	1.000	1.000	.001	.000
2979.500	.000	1.000	1.000	.001	.000
2979.750	.000	.647	.647	.017	.006
2980.000	.000	1.000	1.000	.001	.000
2980.250	.000	1.000	1.000	.001	.000
2980.500	.000	1.000	1.000	.001	.000
2980.750	.000	1.000	1.000	.001	.000
2981.000	.000	1.000	1.000	.001	.000
2981.250	.000	1.000	1.000	.001	.000
2981.500	.000	1.000	1.000	.001	.000
2981.750	.000	1.000	1.000	.001	.000
2982.000	.000	1.000	1.000	.001	.000
2982.250	.000	1.000	1.000	.001	.000
2982.500	.000	1.000	1.000	.001	.000
2982.750	.000	1.000	1.000	.001	.000
2983.000	.007	.563	.458	.121	.065
2983.250	.080	.588	.588	.107	.044
2983.500	.000	1.000	1.000	.001	.000
2983.750	.000	1.000	1.000	.001	.000
2984.000	.000	1.000	1.000	.001	.000
2984.250	.000	1.000	1.000	.001	.000
2984.500	.361	1.000	1.000	.030	.000
2984.750	.108	.701	.701	.093	.028
2985.000	.035	.562	.562	.120	.053
2985.250	.103	.653	.638	.087	.035
2985.500	.000	1.000	1.000	.001	.000
2985.750	.000	1.000	1.000	.001	.000
2986.000	.000	1.000	1.000	.001	.000
2986.250	.240	.572	.572	.096	.041
2986.500	.129	.581	.581	.112	.047
2986.750	.128	.663	.628	.101	.038
2987.000	.200	.736	.766	.069	.015
2987.250	.258	.665	.885	.053	.006
2987.500	.203	.839	.874	.061	.008
2987.750	.182	.991	.901	.059	.006
2988.000	.225	.695	.895	.063	.007
2988.250	.258	.630	.630	.077	.013
2988.500	.000	1.000	1.000	.001	.000
2988.750	.000	1.000	1.000	.001	.000
2989.000	.000	1.000	1.000	.001	.000
2989.250	.000	1.000	1.000	.001	.000
2989.500	.000	1.000	1.000	.001	.000
2989.750	.000	1.000	1.000	.001	.000
2990.000	.000	1.000	1.000	.001	.000
2990.250	.000	1.000	1.000	.001	.000
2990.500	.000	.486	.486	.053	.027
2990.750	.000	1.000	1.000	.001	.000
2991.000	.983	.520	.520	.017	.008
2991.250	.000	1.000	1.000	.001	.000
2991.500	.000	1.000	1.000	.001	.000
2991.750	.000	1.000	1.000	.001	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
2992.000	.000	1.000	1.000	.001	.000
2992.250	.000	1.000	1.000	.001	.000
2992.500	.000	1.000	1.000	.001	.000
2992.750	.972	.562	.562	.028	.012
2993.000	.000	1.000	1.000	.001	.000
2993.250	.000	1.000	1.000	.001	.000
2993.500	.000	1.000	1.000	.001	.000
2993.750	.119	.600	.600	.100	.040
2994.000	.098	.581	.581	.100	.042
2994.250	.131	.639	.639	.098	.035

2994.500	.000	1.000	1.000	.097	.000
2994.750	.577	.210	.210	.080	.063
2995.000	.000	1.000	1.000	.061	.000
2995.250	.000	1.000	1.000	.001	.000
2995.500	.000	1.000	1.000	.001	.000
2995.750	.000	1.000	1.000	.001	.000
2996.000	.164	.221	.221	.083	.064
2996.250	.000	.220	.220	.063	.049
2996.500	.572	.120	.120	.068	.060
2996.750	.000	1.000	1.000	.001	.000
2997.000	.000	1.000	1.000	.001	.000
2997.250	.000	1.000	1.000	.001	.000
2997.500	.000	1.000	1.000	.001	.000
2997.750	.000	1.000	1.000	.100	.000
2998.000	.000	1.000	1.000	.100	.000
2998.250	.000	1.000	1.000	.001	.000
2998.500	.000	1.000	1.000	.001	.000
2998.750	.000	1.000	1.000	.001	.000
2999.000	.000	1.000	1.000	.001	.000
2999.250	.000	1.000	1.000	.001	.000
2999.500	.000	1.000	1.000	.001	.000
2999.750	.000	1.000	1.000	.001	.000
3000.000	.000	1.000	1.000	.000	.000
3000.250	.000	1.000	1.000	.000	.000
3000.500	.000	1.000	1.000	.000	.000
3000.750	.000	1.000	1.000	.000	.000
3001.000	.000	1.000	1.000	.000	.000
3001.250	.000	1.000	1.000	.001	.000
3001.500	.000	1.000	1.000	.001	.000
3001.750	.000	.698	.698	.013	.004
3002.000	.000	1.000	1.000	.001	.000
3002.250	.921	.319	.319	.079	.054
3002.500	.000	1.000	1.000	.001	.000
3002.750	.000	1.000	1.000	.001	.000
3003.000	.000	1.000	1.000	.001	.000
3003.250	.000	1.000	1.000	.001	.000
3003.500	.000	1.000	1.000	.001	.000
3003.750	.618	.519	.282	.085	.061
3004.000	.000	1.000	1.000	.001	.000
3004.250	.000	1.000	1.000	.001	.000
3004.500	.000	1.000	1.000	.001	.000
3004.750	.000	1.000	1.000	.001	.000
3005.000	.000	1.000	1.000	.001	.000
3005.250	.000	1.000	1.000	.001	.000
3005.500	.000	1.000	1.000	.001	.000
3005.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3006.000	.000	1.000	1.000	.001	.000
3006.250	.000	1.000	1.000	.001	.000
3006.500	.000	1.000	1.000	.001	.000
3006.750	.000	1.000	1.000	.001	.000
3007.000	.000	1.000	1.000	.001	.000
3007.250	.000	1.000	1.000	.001	.000
3007.500	.000	1.000	1.000	.001	.000
3007.750	.000	1.000	1.000	.001	.000
3008.000	.000	1.000	1.000	.001	.000
3008.250	.000	1.000	1.000	.001	.000
3008.500	.000	1.000	1.000	.001	.000
3008.750	.000	1.000	1.000	.001	.000
3009.000	.000	1.000	1.000	.001	.000
3009.250	.000	1.000	1.000	.001	.000
3009.500	.658	.579	.900	.040	.017
3009.750	.517	1.000	.900	.019	.002

3010.000	.362	1.000	.937	.046	.003
3010.250	.262	.932	.674	.100	.033
3010.500	.171	1.000	.469	.100	.053
3010.750	.836	.439	.274	.100	.073
3011.000	.562	.162	.116	.100	.088
3011.250	.000	1.000	1.000	.001	.000
3011.500	.590	.309	.139	.100	.086
3011.750	.876	.869	.338	.100	.066
3012.000	.901	.749	.405	.025	.015
3012.250	.116	.317	.317	.000	.000
3012.500	.000	.262	.262	.000	.000
3012.750	.022	.295	.293	.000	.000
3013.000	.283	.532	.300	.000	.000
3013.250	.893	1.000	.346	.000	.000
3013.500	.945	1.000	.441	.055	.031
3013.750	.970	.527	.527	.030	.014
3014.000	.000	1.000	1.000	.000	.000
3014.250	.000	1.000	1.000	.000	.000
3014.500	.000	1.000	1.000	.000	.000
3014.750	.000	1.000	1.000	.000	.000
3015.000	.000	1.000	1.000	.000	.000
3015.250	.000	1.000	1.000	.000	.000
3015.500	.000	1.000	1.000	.000	.000
3015.750	.000	1.000	1.000	.000	.000
3016.000	.000	1.000	1.000	.000	.000
3016.250	.179	.565	.452	.085	.046
3016.500	.210	.729	.547	.071	.032
3016.750	.191	.851	.592	.066	.027
3017.000	.163	.749	.523	.077	.037
3017.250	.151	.675	.470	.093	.049
3017.500	.293	.628	.425	.083	.047
3017.750	.985	.808	.519	.015	.007
3018.000	.000	1.000	1.000	.001	.000
3018.250	.135	.365	.365	.100	.063
3018.500	.151	.396	.286	.100	.071
3018.750	.890	.473	.214	.100	.079
3019.000	.000	1.000	1.000	.001	.000
3019.250	.000	1.000	1.000	.001	.000
3019.500	.000	1.000	1.000	.001	.000
3019.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3020.000	.175	.590	.590	.073	.030
3020.250	.190	.610	.610	.078	.030
3020.500	.193	.640	.626	.079	.030
3020.750	.169	.736	.527	.081	.038
3021.000	.156	.631	.631	.082	.030
3021.250	.197	.785	.722	.069	.019
3021.500	.250	.966	.875	.050	.006
3021.750	.223	.699	.610	.061	.024
3022.000	.146	.587	.574	.087	.037
3022.250	.093	.631	.433	.096	.055
3022.500	.103	.722	.502	.086	.043
3022.750	.146	.895	.604	.061	.024
3023.000	.140	.753	.753	.062	.015
3023.250	.000	1.000	1.000	.001	.000
3023.500	.000	1.000	1.000	.001	.000
3023.750	.000	1.000	1.000	.001	.000
3024.000	.000	1.000	1.000	.001	.000
3024.250	.000	.573	.573	.017	.007
3024.500	.000	.380	.380	.066	.041
3024.750	.000	1.000	1.000	.001	.000
3025.000	.146	.616	.616	.087	.033
3025.250	.145	.566	.588	.085	.035

3025.500	.165	.599	.558	.082	.036
3025.750	.000	1.000	1.000	.001	.000
3026.000	.092	.542	.516	.100	.048
3026.250	.030	.585	.521	.100	.048
3026.500	.039	.576	.419	.093	.054
3026.750	.077	.526	.500	.091	.045
3027.000	.111	.559	.421	.094	.054
3027.250	.079	.566	.422	.100	.058
3027.500	.071	.543	.415	.100	.059
3027.750	.074	.543	.398	.100	.060
3028.000	.045	.563	.375	.100	.063
3028.250	.098	.484	.308	.100	.069
3028.500	.488	.335	.335	.093	.057
3028.750	.000	1.000	1.000	.001	.000
3029.000	.000	1.000	1.000	.001	.000
3029.250	.000	1.000	1.000	.001	.000
3029.500	.000	1.000	1.000	.001	.000
3029.750	.000	1.000	1.000	.001	.000
3030.000	.000	.810	.810	.013	.002
3030.250	.678	.331	.331	.066	.044
3030.500	.000	1.000	1.000	.001	.000
3030.750	.000	1.000	1.000	.001	.000
3031.000	.000	1.000	1.000	.001	.000
3031.250	.984	.634	.634	.016	.006
3031.500	.979	.605	.605	.021	.008
3031.750	.000	1.000	1.000	.001	.000
3032.000	.000	1.000	1.000	.000	.000
3032.250	.000	1.000	1.000	.000	.000
3032.500	.000	1.000	1.000	.000	.000
3032.750	.000	1.000	1.000	.000	.000
3033.000	.000	1.000	1.000	.000	.000
3033.250	.000	1.000	1.000	.000	.000
3033.500	.000	1.000	1.000	.000	.000
3033.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3034.000	.558	.897	.897	.011	.001
3034.250	.341	.764	.764	.045	.011
3034.500	.085	.649	.649	.093	.033
3034.750	.000	.668	.562	.100	.044
3035.000	.000	.696	.595	.100	.040
3035.250	.157	.840	.800	.077	.015
3035.500	.327	1.000	1.000	.038	.000
3035.750	.203	.817	.745	.079	.020
3036.000	.059	.628	.525	.100	.047
3036.250	.000	1.000	1.000	.001	.000
3036.500	.000	.514	.514	.028	.014
3036.750	.000	1.000	1.000	.001	.000
3037.000	.000	1.000	1.000	.001	.000
3037.250	.000	1.000	1.000	.001	.000
3037.500	.000	1.000	1.000	.001	.000
3037.750	.000	1.000	1.000	.001	.000
3038.000	.985	.551	.551	.015	.007
3038.250	.000	1.000	1.000	.001	.000
3038.500	.000	1.000	1.000	.001	.000
3038.750	.000	1.000	1.000	.001	.000
3039.000	.000	1.000	1.000	.001	.000
3039.250	.987	.818	.818	.013	.002
3039.500	.935	.454	.454	.065	.035
3039.750	.920	.384	.384	.080	.049
3040.000	.973	.577	.577	.027	.012
3040.250	.000	1.000	1.000	.001	.000
3040.500	.000	1.000	1.000	.001	.000
3040.750	.000	1.000	1.000	.001	.000

3041.000	.989	.627	.627	.011	.004
3041.250	.000	1.000	1.000	.001	.000
3041.500	.000	1.000	1.000	.001	.000
3041.750	.000	1.000	1.000	.001	.000
3042.000	.000	1.000	1.000	.001	.000
3042.250	.000	1.000	1.000	.001	.000
3042.500	.000	.422	.422	.026	.015
3042.750	.000	1.000	1.000	.001	.000
3043.000	.000	1.000	1.000	.001	.000
3043.250	.271	.575	.573	.085	.036
3043.500	.146	.640	.568	.099	.043
3043.750	.095	.616	.616	.100	.038
3044.000	.248	.509	.509	.100	.049
3044.250	.884	.356	.313	.100	.069
3044.500	.000	1.000	1.000	.100	.000
3044.750	.000	1.000	1.000	.100	.000
3045.000	.787	.186	.186	.100	.081
3045.250	.956	.498	.498	.044	.022
3045.500	.579	.537	.537	.065	.030
3045.750	.000	.353	.353	.048	.031
3046.000	.000	.515	.297	.050	.035
3046.250	.000	1.000	.337	.053	.035
3046.500	.060	1.000	.485	.055	.028
3046.750	.169	.648	.735	.061	.016
3047.000	.098	.718	.623	.080	.030
3047.250	.000	.643	.643	.100	.036
3047.500	.000	.667	.667	.100	.033
3047.750	.000	.671	.671	.100	.033

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BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3048.000	.000	1.000	1.000	.001	.000
3048.250	.000	1.000	1.000	.001	.000
3048.500	.000	1.000	1.000	.001	.000
3048.750	.056	.553	.553	.080	.036
3049.000	.000	.593	.593	.092	.037
3049.250	.008	.685	.685	.081	.026
3049.500	.070	.682	.682	.077	.024
3049.750	.000	.596	.596	.086	.035
3050.000	.000	1.000	1.000	.000	.000
3050.250	.000	1.000	1.000	.000	.000
3050.500	.000	1.000	1.000	.000	.000
3050.750	.000	1.000	1.000	.000	.000
3051.000	.000	1.000	1.000	.000	.000
3051.250	.000	1.000	1.000	.000	.000
3051.500	.000	1.000	1.000	.000	.000
3051.750	.000	1.000	1.000	.000	.000
3052.000	.000	1.000	1.000	.000	.000
3052.250	.000	1.000	1.000	.000	.000
3052.500	.000	1.000	1.000	.000	.000
3052.750	.000	1.000	1.000	.000	.000
3053.000	.000	1.000	1.000	.000	.000
3053.250	.000	1.000	1.000	.000	.000
3053.500	.000	1.000	1.000	.000	.000
3053.750	.000	1.000	1.000	.000	.000
3054.000	.000	1.000	1.000	.000	.000
3054.250	.000	1.000	1.000	.000	.000
3054.500	.000	1.000	1.000	.000	.000
3054.750	.000	1.000	1.000	.000	.000
3055.000	.000	1.000	1.000	.000	.000
3055.250	.000	1.000	1.000	.000	.000
3055.500	.000	1.000	1.000	.000	.000
3055.750	.000	1.000	1.000	.000	.000
3056.000	.000	1.000	1.000	.000	.000
3056.250	.000	1.000	1.000	.000	.000

3056.500	.000	1.000	1.000	.000	.000
3056.750	.000	1.000	1.000	.000	.000
3057.000	.000	1.000	1.000	.000	.000
3057.250	.000	1.000	1.000	.000	.000
3057.500	.000	1.000	1.000	.000	.000
3057.750	.000	1.000	1.000	.000	.000
3058.000	.000	1.000	1.000	.000	.000
3058.250	.000	1.000	1.000	.000	.000
3058.500	.000	1.000	1.000	.000	.000
3058.750	.000	1.000	1.000	.000	.000
3059.000	.000	1.000	1.000	.000	.000
3059.250	.000	1.000	1.000	.000	.000
3059.500	.000	1.000	1.000	.000	.000
3059.750	.000	1.000	1.000	.000	.000
3060.000	.000	1.000	1.000	.000	.000
3060.250	.000	1.000	1.000	.001	.000
3060.500	.150	.539	.589	.016	.007
3060.750	.000	1.000	1.000	.001	.000
3061.000	.000	1.000	1.000	.001	.000
3061.250	.000	1.000	1.000	.001	.000
3061.500	.197	.510	.510	.064	.031
3061.750	.000	.514	.514	.095	.046

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3062.000	.019	.792	.587	.100	.041
3062.250	.046	.950	.566	.100	.043
3062.500	.000	.787	.556	.085	.038
3062.750	.000	.655	.626	.089	.033
3063.000	.073	.689	.689	.093	.029
3063.250	.047	.790	.675	.100	.032
3063.500	.000	.669	.689	.100	.031
3063.750	.000	.654	.569	.100	.043
3064.000	.000	1.000	1.000	.001	.000
3064.250	.000	1.000	1.000	.001	.000
3064.500	.000	1.000	1.000	.001	.000
3064.750	.000	1.000	1.000	.001	.000
3065.000	.000	1.000	1.000	.001	.000
3065.250	.000	1.000	1.000	.001	.000
3065.500	.000	.544	.544	.012	.005
3065.750	.000	1.000	1.000	.001	.000
3066.000	.000	1.000	1.000	.001	.000
3066.250	.000	.431	.431	.051	.029
3066.500	.000	1.000	1.000	.001	.000
3066.750	.000	.638	.550	.100	.045
3067.000	.000	.635	.574	.100	.043
3067.250	.060	.742	.604	.100	.040
3067.500	.104	.645	.662	.088	.030
3067.750	.028	.623	.623	.099	.037
3068.000	.000	.641	.525	.100	.047
3068.250	.034	.629	.626	.100	.037
3068.500	.105	.729	.631	.091	.034
3068.750	.131	.833	.699	.067	.020
3069.000	.060	.670	.670	.062	.021
3069.250	.032	.693	.567	.068	.029
3069.500	.047	.742	.714	.075	.021
3069.750	.112	.818	.815	.068	.013
3070.000	.061	.734	.734	.086	.023
3070.250	.000	.708	.550	.084	.038
3070.500	.000	.669	.572	.068	.029
3070.750	.037	.722	.722	.068	.019
3071.000	.161	1.000	.919	.048	.004
3071.250	.151	1.000	1.000	.044	.000
3071.500	.119	.909	.890	.058	.006
3071.750	.141	.926	.926	.056	.004

3072.000	.237	1.000	.974	.040	.001
3072.250	.477	1.000	.904	.023	.002
3072.500	.673	.935	.935	.011	.001
3072.750	.000	1.000	1.000	.001	.000
3073.000	.448	.633	.633	.065	.024
3073.250	.318	.600	.600	.069	.027
3073.500	.349	.906	.665	.062	.021
3073.750	.000	1.000	1.000	.001	.000
3074.000	.000	1.000	1.000	.001	.000
3074.250	.000	1.000	1.000	.001	.000
3074.500	.000	1.000	1.000	.001	.000
3074.750	.198	.767	.767	.052	.012
3075.000	.083	.715	.715	.061	.017
3075.250	.040	.760	.760	.062	.015
3075.500	.010	.728	.728	.066	.018
3075.750	.014	.742	.742	.068	.018

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3076.000	.056	.847	.847	.069	.011
3076.250	.046	.808	.808	.073	.014
3076.500	.009	.736	.736	.072	.019
3076.750	.000	.746	.746	.068	.017
3077.000	.022	.816	.816	.071	.013
3077.250	.053	.843	.843	.068	.011
3077.500	.047	.790	.790	.072	.015
3077.750	.014	.721	.647	.069	.024
3078.000	.031	.695	.695	.078	.024
3078.250	.120	.717	.717	.075	.021
3078.500	.000	1.000	1.000	.001	.000
3078.750	.000	1.000	1.000	.001	.000
3079.000	.000	1.000	1.000	.001	.000
3079.250	.000	1.000	1.000	.001	.000
3079.500	.126	.637	.637	.048	.017
3079.750	.000	.554	.554	.054	.024
3080.000	.000	.546	.546	.064	.029
3080.250	.000	.574	.574	.066	.028
3080.500	.000	.634	.634	.061	.022
3080.750	.000	.712	.712	.060	.017
3081.000	.019	.724	.724	.067	.018
3081.250	.000	.701	.701	.071	.021
3081.500	.031	.826	.826	.061	.011
3081.750	.000	1.000	1.000	.001	.000
3082.000	.000	1.000	1.000	.001	.000
3082.250	.009	.617	.617	.076	.029
3082.500	.000	.577	.577	.100	.042
3082.750	.000	.661	.661	.100	.034
3083.000	.000	1.000	1.000	.001	.000
3083.250	.000	1.000	1.000	.001	.000
3083.500	.000	1.000	1.000	.001	.000
3083.750	.000	1.000	1.000	.001	.000
3084.000	.000	1.000	1.000	.001	.000
3084.250	.698	.789	.789	.021	.004
3084.500	.466	.640	.640	.042	.015
3084.750	.000	1.000	1.000	.001	.000
3085.000	.000	1.000	1.000	.000	.000
3085.250	.000	1.000	1.000	.000	.000
3085.500	.000	1.000	1.000	.000	.000
3085.750	.000	1.000	1.000	.000	.000
3086.000	.000	1.000	1.000	.000	.000
3086.250	.000	1.000	1.000	.000	.000
3086.500	.000	1.000	1.000	.000	.000
3086.750	.000	1.000	1.000	.000	.000
3087.000	.000	1.000	1.000	.000	.000
3087.250	.666	1.000	.521	.055	.026

3087.500	.980	.714	.714	.020	.006
3087.750	.986	.778	.778	.014	.003
3088.000	.000	1.000	1.000	.001	.000
3088.250	.000	1.000	1.000	.001	.000
3088.500	.000	1.000	1.000	.001	.000
3088.750	.000	1.000	1.000	.001	.000
3089.000	.000	1.000	1.000	.001	.000
3089.250	.000	1.000	1.000	.001	.000
3089.500	.000	.740	.740	.066	.017
3089.750	.010	.850	.850	.071	.011

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3090.000	.114	.966	.966	.057	.002
3090.250	.015	.707	.707	.075	.022
3090.500	.000	.620	.620	.069	.026
3090.750	.000	.579	.579	.067	.028
3091.000	.000	.578	.578	.075	.032
3091.250	.000	.645	.645	.068	.024
3091.500	.000	.693	.693	.070	.021
3091.750	.000	1.000	1.000	.001	.000
3092.000	.000	1.000	1.000	.001	.000
3092.250	.000	1.000	1.000	.001	.000
3092.500	.000	1.000	1.000	.001	.000
3092.750	.971	.514	.514	.029	.014
3093.000	.000	1.000	1.000	.001	.000
3093.250	.000	1.000	1.000	.001	.000
3093.500	.000	1.000	1.000	.001	.000
3093.750	.000	1.000	1.000	.001	.000
3094.000	.939	.486	.486	.061	.032
3094.250	.934	.408	.408	.066	.039
3094.500	.970	.549	.549	.030	.014
3094.750	.000	1.000	1.000	.001	.000
3095.000	.000	1.000	1.000	.001	.000
3095.250	.000	1.000	1.000	.001	.000
3095.500	.000	1.000	1.000	.001	.000
3095.750	.000	1.000	1.000	.001	.000
3096.000	.000	1.000	1.000	.001	.000
3096.250	.000	1.000	1.000	.001	.000
3096.500	.000	1.000	1.000	.001	.000
3096.750	.450	.586	.586	.070	.029
3097.000	.258	.622	.622	.066	.025
3097.250	.078	.601	.601	.070	.028
3097.500	.079	.924	.532	.082	.038
3097.750	.000	1.000	1.000	.001	.000
3098.000	.982	.636	.586	.018	.008
3098.250	.000	1.000	1.000	.001	.000
3098.500	.000	1.000	1.000	.001	.000
3098.750	.985	.702	.702	.015	.005
3099.000	.950	.539	.539	.050	.023
3099.250	.431	.494	.494	.089	.045
3099.500	.968	.636	.601	.032	.013
3099.750	.981	.622	.622	.019	.007
3100.000	.000	1.000	1.000	.001	.000
3100.250	.000	1.000	1.000	.001	.000
3100.500	.000	1.000	1.000	.001	.000
3100.750	.000	1.000	1.000	.001	.000
3101.000	.000	1.000	1.000	.001	.000
3101.250	.000	1.000	1.000	.001	.000
3101.500	.000	1.000	1.000	.001	.000
3101.750	.673	.206	.206	.090	.071
3102.000	.000	1.000	1.000	.001	.000
3102.250	.957	.479	.479	.043	.023
3102.500	.949	.480	.480	.051	.027
3102.750	.974	.663	.663	.026	.009

3103.000	.000	1.000	1.000	.001	.000
3103.250	.000	1.000	1.000	.001	.000
3103.500	.000	1.000	1.000	.001	.000
3103.750	.038	.385	.383	.082	.050

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3104.000	.000	.623	.623	.011	.004
3104.250	.000	1.000	1.000	.001	.000
3104.500	.000	1.000	1.000	.001	.000
3104.750	.000	1.000	1.000	.001	.000
3105.000	.000	.427	.427	.052	.030
3105.250	.000	1.000	1.000	.001	.000
3105.500	.000	1.000	1.000	.001	.000
3105.750	.000	.461	.461	.048	.026
3106.000	.000	.459	.327	.072	.048
3106.250	.000	.905	.271	.089	.065
3106.500	.000	1.000	.295	.095	.067
3106.750	.000	.953	.341	.093	.062
3107.000	.000	1.000	.352	.100	.065
3107.250	.000	.834	.390	.100	.061
3107.500	.000	.825	.440	.100	.056
3107.750	.000	.782	.362	.100	.064
3108.000	.000	.608	.235	.087	.067
3108.250	.000	.771	.228	.100	.077
3108.500	.000	1.000	.270	.100	.073
3108.750	.000	1.000	.330	.100	.067
3109.000	.000	1.000	.371	.100	.063
3109.250	.025	1.000	.450	.100	.055
3109.500	.059	1.000	.515	.100	.049
3109.750	.001	1.000	.475	.100	.052
3110.000	.000	1.000	.410	.100	.059
3110.250	.019	1.000	.412	.100	.059
3110.500	.004	1.000	.431	.100	.057
3110.750	.000	1.000	.419	.100	.058
3111.000	.000	1.000	.391	.082	.050
3111.250	.000	1.000	.385	.074	.046
3111.500	.000	1.000	.444	.073	.040
3111.750	.000	1.000	.431	.084	.048
3112.000	.000	1.000	.405	.100	.059
3112.250	.000	1.000	.415	.100	.058
3112.500	.000	1.000	.455	.100	.054
3112.750	.235	1.000	.523	.100	.048
3113.000	.544	1.000	.590	.058	.024
3113.250	.000	1.000	1.000	.001	.000
3113.500	.000	.501	.501	.038	.019
3113.750	.000	.568	.568	.035	.015
3114.000	.000	1.000	1.000	.001	.000
3114.250	.974	.636	.636	.026	.009
3114.500	.000	.389	.383	.064	.040
3114.750	.023	1.000	.417	.066	.038
3115.000	.000	1.000	.364	.049	.031
3115.250	.000	1.000	.298	.033	.023
3115.500	.114	1.000	.448	.032	.018
3115.750	.000	1.000	1.000	.001	.000
3116.000	.069	.396	.396	.039	.023
3116.250	.000	.572	.264	.034	.025
3116.500	.000	.682	.301	.031	.022
3116.750	.119	.411	.378	.036	.022
3117.000	.000	.309	.225	.044	.034
3117.250	.000	.960	.198	.088	.071
3117.500	.135	.962	.315	.100	.069
3117.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL

3118.000	.983	.560	.580	.017	.007
3118.250	.000	1.000	1.000	.001	.000
3118.500	.000	1.000	1.000	.001	.000
3118.750	.985	.575	.575	.015	.006
3119.000	.000	1.000	1.000	.001	.000
3119.250	.936	.504	.504	.063	.032
3119.500	.000	.701	.300	.067	.047
3119.750	.000	.957	.277	.075	.054
3120.000	.000	.856	.328	.084	.057
3120.250	.000	.791	.331	.077	.052
3120.500	.000	.846	.318	.070	.047
3120.750	.000	.608	.299	.085	.059
3121.000	.000	.957	.284	.100	.072
3121.250	.138	1.000	.306	.100	.069
3121.500	.495	1.000	.339	.100	.066
3121.750	.946	.975	.482	.054	.028
3122.000	.000	1.000	1.000	.001	.000
3122.250	.000	1.000	1.000	.001	.000
3122.500	.000	1.000	1.000	.001	.000
3122.750	.000	1.000	1.000	.001	.000
3123.000	.000	1.000	1.000	.001	.000
3123.250	.000	1.000	1.000	.001	.000
3123.500	.000	.319	.319	.074	.051
3123.750	.000	.289	.278	.097	.070
3124.000	.000	.899	.325	.100	.068
3124.250	.000	1.000	.346	.098	.064
3124.500	.000	1.000	.383	.097	.060
3124.750	.164	1.000	.524	.100	.047
3125.000	.000	1.000	1.000	.001	.000
3125.250	.000	1.000	1.000	.001	.000
3125.500	.000	1.000	1.000	.001	.000
3125.750	.000	1.000	1.000	.001	.000
3126.000	.000	1.000	1.000	.001	.000
3126.250	.000	1.000	1.000	.001	.000
3126.500	.000	1.000	1.000	.001	.000
3126.750	.000	1.000	1.000	.001	.000
3127.000	.000	1.000	1.000	.001	.000
3127.250	.076	1.000	.429	.065	.037
3127.500	.883	.877	.318	.073	.050
3127.750	.000	1.000	1.000	.001	.000
3128.000	.000	1.000	1.000	.001	.000
3128.250	.000	1.000	1.000	.001	.000
3128.500	.000	1.000	.291	.046	.033
3128.750	.000	1.000	.278	.050	.036
3129.000	.000	1.000	.282	.055	.039
3129.250	.000	1.000	.229	.063	.048
3129.500	.000	1.000	.201	.064	.051
3129.750	.000	1.000	.239	.053	.040
3130.000	.000	1.000	.370	.042	.026
3130.250	.000	1.000	.325	.047	.032
3130.500	.000	.953	.299	.056	.039
3130.750	.000	1.000	.361	.074	.047
3131.000	.000	1.000	.298	.100	.070
3131.250	.028	1.000	.261	.100	.074
3131.500	.000	1.000	1.000	.001	.000
3131.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3132.000	.000	1.000	1.000	.001	.000
3132.250	.000	1.000	1.000	.001	.000
3132.500	.000	1.000	1.000	.001	.000
3132.750	.981	.697	.697	.019	.006
3133.000	.960	.546	.546	.040	.018

3133.250	.136	.406	.408	.100	.059
3133.500	.015	.437	.437	.075	.042
3133.750	.000	.521	.458	.073	.040
3134.000	.000	.508	.432	.071	.040
3134.250	.000	.905	.476	.073	.038
3134.500	.140	.772	.772	.083	.019
3134.750	.322	.878	.800	.056	.011
3135.000	.605	1.000	.712	.038	.011
3135.250	.000	1.000	1.000	.001	.000
3135.500	.000	1.000	1.000	.001	.000
3135.750	.000	1.000	1.000	.001	.000
3136.000	.000	1.000	1.000	.001	.000
3136.250	.000	1.000	1.000	.001	.000
3136.500	.000	1.000	1.000	.001	.000
3136.750	.419	.675	.675	.050	.016
3137.000	.249	.726	.726	.069	.019
3137.250	.141	.808	.808	.080	.015
3137.500	.000	.664	.664	.097	.033
3137.750	.000	.625	.625	.090	.034
3138.000	.000	.615	.544	.077	.035
3138.250	.000	.599	.352	.072	.047
3138.500	.000	.453	.345	.086	.056
3138.750	.000	.632	.396	.086	.052
3139.000	.000	1.000	1.000	.001	.000
3139.250	.000	1.000	1.000	.001	.000
3139.500	.000	1.000	1.000	.001	.000
3139.750	.000	1.000	1.000	.001	.000
3140.000	.000	1.000	1.000	.001	.000
3140.250	.000	1.000	1.000	.001	.000
3140.500	.000	1.000	1.000	.001	.000
3140.750	.000	1.000	1.000	.001	.000
3141.000	.000	1.000	1.000	.001	.000
3141.250	.039	.523	.523	.064	.031
3141.500	.000	.513	.513	.063	.031
3141.750	.000	.634	.414	.055	.032
3142.000	.000	.496	.293	.052	.037
3142.250	.000	.351	.275	.059	.043
3142.500	.000	1.000	.360	.067	.043
3142.750	.113	1.000	.551	.077	.034
3143.000	.000	1.000	1.000	.001	.000
3143.250	.000	1.000	1.000	.001	.000
3143.500	.000	1.000	1.000	.001	.000
3143.750	.000	1.000	1.000	.001	.000
3144.000	.000	1.000	1.000	.001	.000
3144.250	.000	1.000	1.000	.001	.000
3144.500	.000	1.000	1.000	.001	.000
3144.750	.000	1.000	1.000	.001	.000
3145.000	.446	.719	.719	.039	.011
3145.250	.191	.660	.660	.054	.018
3145.500	.000	1.000	1.000	.001	.000
3145.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3146.000	.153	.825	.825	.055	.010
3146.250	.031	.713	.713	.050	.014
3146.500	.000	.549	.549	.040	.018
3146.750	.000	.525	.525	.044	.021
3147.000	.121	.780	.780	.048	.010
3147.250	.161	.696	.836	.047	.008
3147.500	.221	1.000	.739	.048	.013
3147.750	.000	1.000	1.000	.001	.000
3148.000	.000	1.000	1.000	.001	.000
3148.250	.000	1.000	1.000	.001	.000
3148.500	.000	1.000	1.000	.001	.000

3148.750	.000	1.000	1.000	.001	.000
3149.000	.140	.500	.500	.049	.024
3149.250	.006	.455	.455	.056	.031
3149.500	.000	1.000	.471	.064	.034
3149.750	.038	1.000	.650	.055	.019
3150.000	.000	1.000	1.000	.001	.000
3150.250	.000	1.000	1.000	.001	.000
3150.500	.000	1.000	1.000	.001	.000
3150.750	.000	1.000	1.000	.001	.000
3151.000	.264	.720	.720	.042	.012
3151.250	.124	.586	.586	.057	.024
3151.500	.052	.783	.402	.096	.057
3151.750	.295	1.000	.324	.100	.068
3152.000	.949	.667	.483	.051	.026
3152.250	.980	.711	.711	.020	.006
3152.500	.976	.710	.710	.024	.007
3152.750	.000	1.000	1.000	.001	.000
3153.000	.000	1.000	1.000	.001	.000
3153.250	.000	1.000	1.000	.001	.000
3153.500	.000	1.000	1.000	.001	.000
3153.750	.000	1.000	1.000	.001	.000
3154.000	.000	1.000	1.000	.001	.000
3154.250	.981	.756	.756	.019	.005
3154.500	.000	1.000	1.000	.001	.000
3154.750	.000	1.000	1.000	.001	.000
3155.000	.000	1.000	1.000	.001	.000
3155.250	.000	1.000	1.000	.001	.000
3155.500	.000	1.000	1.000	.001	.000
3155.750	.000	1.000	1.000	.001	.000
3156.000	.000	1.000	1.000	.001	.000
3156.250	.000	1.000	1.000	.001	.000
3156.500	.000	1.000	1.000	.001	.000
3156.750	.975	.590	.590	.025	.010
3157.000	.000	1.000	1.000	.077	.000
3157.250	.000	1.000	1.000	.001	.000
3157.500	.988	1.000	.750	.012	.003
3157.750	.000	1.000	1.000	.001	.000
3158.000	.000	1.000	1.000	.001	.000
3158.250	.000	1.000	1.000	.001	.000
3158.500	.567	.281	.281	.038	.027
3158.750	.981	.641	.641	.019	.007
3159.000	.000	.260	.258	.036	.027
3159.250	.000	.889	.155	.059	.050
3159.500	.000	1.000	.159	.058	.049
3159.750	.000	1.000	.227	.041	.031

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3160.000	.000	.733	.317	.037	.025
3160.250	.000	.729	.330	.047	.031
3160.500	.000	1.000	.347	.063	.041
3160.750	.000	1.000	1.000	.001	.000
3161.000	.000	1.000	1.000	.001	.000
3161.250	.000	1.000	1.000	.001	.000
3161.500	.000	1.000	1.000	.001	.000
3161.750	.000	1.000	1.000	.001	.000
3162.000	.000	1.000	1.000	.001	.000
3162.250	.000	1.000	1.000	.001	.000
3162.500	.000	1.000	1.000	.001	.000
3162.750	.000	1.000	1.000	.001	.000
3163.000	.000	1.000	1.000	.001	.000
3163.250	.163	1.000	.797	.061	.012
3163.500	.144	.693	.693	.062	.019
3163.750	.000	1.000	1.000	.001	.000
3164.000	.000	1.000	1.000	.001	.000

3164.250	.000	1.000	1.000	.001	.000
3164.500	.000	1.000	1.000	.001	.000
3164.750	.000	1.000	1.000	.001	.000
3165.000	.000	1.000	1.000	.001	.000
3165.250	.000	1.000	1.000	.001	.000
3165.500	.000	1.000	1.000	.001	.000
3165.750	.000	1.000	1.000	.001	.000
3166.000	.000	1.000	1.000	.001	.000
3166.250	.000	1.000	1.000	.001	.000
3166.500	.000	1.000	1.000	.001	.000
3166.750	.195	.643	.643	.057	.020
3167.000	.075	.545	.545	.063	.029
3167.250	.102	.687	.663	.052	.018
3167.500	.000	1.000	1.000	.001	.000
3167.750	.126	.659	.659	.060	.020
3168.000	.019	.646	.646	.081	.029
3168.250	.046	.839	.707	.067	.020
3168.500	.142	1.000	.836	.047	.008
3168.750	.000	1.000	1.000	.001	.000
3169.000	.000	1.000	1.000	.001	.000
3169.250	.000	1.000	1.000	.001	.000
3169.500	.150	.848	.848	.051	.008
3169.750	.008	.675	.675	.039	.013
3170.000	.046	.680	.680	.042	.013
3170.250	.155	.938	.811	.049	.009
3170.500	.132	1.000	.925	.047	.003
3170.750	.000	1.000	1.000	.001	.000
3171.000	.000	1.000	1.000	.001	.000
3171.250	.000	1.000	1.000	.001	.000
3171.500	.000	1.000	1.000	.001	.000
3171.750	.249	.631	.631	.035	.013
3172.000	.178	.586	.586	.034	.014
3172.250	.000	1.000	1.000	.001	.000
3172.500	.000	1.000	1.000	.001	.000
3172.750	.000	1.000	1.000	.001	.000
3173.000	.000	1.000	1.000	.001	.000
3173.250	.000	1.000	1.000	.001	.000
3173.500	.000	1.000	1.000	.001	.000
3173.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3174.000	.000	1.000	1.000	.001	.000
3174.250	.000	1.000	1.000	.001	.000
3174.500	.000	1.000	1.000	.001	.000
3174.750	.000	1.000	1.000	.001	.000
3175.000	.000	1.000	1.000	.001	.000
3175.250	.000	1.000	1.000	.001	.000
3175.500	.000	1.000	1.000	.001	.000
3175.750	.459	.790	.790	.033	.007
3176.000	.000	1.000	1.000	.001	.000
3176.250	.000	1.000	1.000	.001	.000
3176.500	.000	1.000	1.000	.001	.000
3176.750	.000	1.000	1.000	.001	.000
3177.000	.000	1.000	1.000	.001	.000
3177.250	.000	1.000	1.000	.001	.000
3177.500	.381	.574	.574	.059	.025
3177.750	.140	.504	.504	.066	.033
3178.000	.120	.696	.573	.058	.025
3178.250	.186	.642	.561	.057	.025
3178.500	.152	.479	.479	.060	.031
3178.750	.075	.500	.500	.061	.030
3179.000	.269	1.000	.939	.046	.003
3179.250	.000	1.000	1.000	.001	.000
3179.500	.179	1.000	.797	.060	.012

3179.750	.000	1.000	.531	.063	.029
3180.000	.000	1.000	.572	.072	.031
3180.250	.000	1.000	1.000	.001	.000
3180.500	.000	1.000	1.000	.001	.000
3180.750	.000	1.000	1.000	.001	.000
3181.000	.000	1.000	1.000	.001	.000
3181.250	.000	1.000	1.000	.001	.000
3181.500	.000	1.000	1.000	.001	.000
3181.750	.000	1.000	1.000	.001	.000
3182.000	.175	.244	.244	.038	.029
3182.250	.000	1.000	1.000	.053	.000
3182.500	.000	1.000	1.000	.001	.000
3182.750	.939	.416	.416	.061	.036
3183.000	.759	.176	.176	.090	.074
3183.250	.848	.257	.257	.082	.061
3183.500	.971	.979	.586	.029	.012
3183.750	.000	1.000	1.000	.001	.000
3184.000	.000	1.000	1.000	.001	.000
3184.250	.000	1.000	1.000	.001	.000
3184.500	.000	1.000	1.000	.001	.000
3184.750	.000	1.000	1.000	.001	.000
3185.000	.000	1.000	1.000	.001	.000
3185.250	.000	1.000	1.000	.001	.000
3185.500	.000	1.000	1.000	.001	.000
3185.750	.000	1.000	1.000	.001	.000
3186.000	.000	1.000	1.000	.001	.000
3186.250	.000	1.000	1.000	.001	.000
3186.500	.000	1.000	1.000	.001	.000
3186.750	.000	1.000	1.000	.001	.000
3187.000	.000	1.000	1.000	.001	.000
3187.250	.000	1.000	1.000	.001	.000
3187.500	.000	1.000	1.000	.001	.000
3187.750	.000	1.000	1.000	.001	.000

1 BREAK #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3188.000	.000	1.000	1.000	.001	.000
3188.250	.000	1.000	1.000	.001	.000
3188.500	.000	.588	.588	.088	.036
3188.750	.000	.473	.307	.083	.057
3189.000	.000	.420	.248	.068	.052
3189.250	.000	.814	.283	.063	.045
3189.500	.000	1.000	.347	.067	.044
3189.750	.000	1.000	.354	.074	.048
3190.000	.000	1.000	.398	.087	.053
3190.250	.000	.686	.405	.084	.050
3190.500	.000	.558	.325	.069	.046
3190.750	.000	.646	.276	.058	.042
3191.000	.000	1.000	.300	.058	.040
3191.250	.000	.933	.360	.064	.041
3191.500	.000	1.000	.364	.058	.037
3191.750	.000	.794	.363	.055	.035
3192.000	.000	.897	.355	.054	.035
3192.250	.000	.970	.402	.047	.028
3192.500	.000	1.000	.397	.033	.020
3192.750	.000	.844	.307	.030	.021
3193.000	.000	.826	.262	.044	.032
3193.250	.000	.947	.278	.063	.046
3193.500	.000	1.000	.378	.063	.039
3193.750	.000	1.000	1.000	.001	.000
3194.000	.000	1.000	1.000	.001	.000
3194.250	.000	.546	.546	.024	.011
3194.500	.000	.394	.394	.035	.021
3194.750	.000	1.000	1.000	.001	.000
3195.000	.000	1.000	1.000	.001	.000

3195.250	.000	1.000	1.000	.001	.000
3195.500	.000	1.000	1.000	.001	.000
3195.750	.000	1.000	1.000	.001	.000
3196.000	.000	1.000	1.000	.001	.000
3196.250	.000	.665	.665	.061	.020
3196.500	.000	.695	.695	.067	.020
3196.750	.000	.705	.703	.060	.018
3197.000	.000	.805	.690	.053	.017
3197.250	.000	.707	.707	.049	.014
3197.500	.000	1.000	1.000	.001	.000
3197.750	.000	.717	.633	.037	.014
3198.000	.000	.697	.564	.037	.016
3198.250	.000	.650	.650	.046	.016
3198.500	.000	.713	.713	.046	.013
3198.750	.000	1.000	1.000	.001	.000
3199.000	.000	1.000	1.000	.001	.000
3199.250	.000	1.000	1.000	.001	.000
3199.500	.000	.719	.719	.043	.012
3199.750	.000	.691	.691	.045	.014
3200.000	.000	.689	.689	.039	.012
3200.250	.000	1.000	1.000	.001	.000
3200.500	.000	1.000	1.000	.001	.000
3200.750	.000	1.000	1.000	.001	.000
3201.000	.000	.730	.730	.045	.012
3201.250	.000	1.000	1.000	.001	.000
3201.500	.000	1.000	1.000	.001	.000
3201.750	.000	.746	.746	.038	.010

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3202.000	.022	.760	.760	.040	.010
3202.250	.000	.718	.718	.044	.013
3202.500	.008	.685	.685	.055	.017
3202.750	.046	.708	.708	.061	.018
3203.000	.000	1.000	1.000	.001	.000
3203.250	.000	1.000	1.000	.001	.000
3203.500	.000	1.000	1.000	.001	.000
3203.750	.000	1.000	1.000	.001	.000
3204.000	.000	1.000	1.000	.001	.000
3204.250	.000	1.000	1.000	.001	.000
3204.500	.000	1.000	1.000	.001	.000
3204.750	.000	1.000	1.000	.001	.000
3205.000	.000	1.000	1.000	.001	.000
3205.250	.000	1.000	1.000	.001	.000
3205.500	.000	1.000	1.000	.001	.000
3205.750	.000	1.000	1.000	.001	.000
3206.000	.000	1.000	1.000	.001	.000
3206.250	.000	1.000	1.000	.001	.000
3206.500	.000	1.000	1.000	.001	.000
3206.750	.000	1.000	1.000	.001	.000
3207.000	.000	1.000	1.000	.001	.000
3207.250	.000	1.000	1.000	.001	.000
3207.500	.000	.743	.430	.079	.045
3207.750	.000	.976	.275	.100	.073
3208.000	.000	.797	.209	.100	.079
3208.250	.152	.331	.201	.100	.080
3208.500	.814	.184	.184	.100	.082
3208.750	.797	.178	.178	.100	.082
3209.000	.000	1.000	1.000	.001	.000
3209.250	.000	1.000	1.000	.001	.000
3209.500	.000	1.000	1.000	.001	.000
3209.750	.000	1.000	1.000	.001	.000
3210.000	.000	1.000	1.000	.001	.000
3210.250	.909	.272	.272	.068	.049
3210.500	.000	.446	.273	.058	.042

3210.750	.000	1.000	1.000	.001	.000
3211.000	.000	.326	.235	.088	.067
3211.250	.000	1.000	1.000	.001	.000
3211.500	.000	1.000	1.000	.001	.000
3211.750	.000	1.000	1.000	.001	.000
3212.000	.907	1.000	.312	.058	.040
3212.250	.000	1.000	.445	.036	.020
3212.500	.000	1.000	1.000	.001	.000
3212.750	.000	1.000	1.000	.001	.000
3213.000	.000	1.000	1.000	.001	.000
3213.250	.000	1.000	1.000	.001	.000
3213.500	.000	1.000	1.000	.001	.000
3213.750	.324	.198	.198	.050	.040
3214.000	.000	1.000	1.000	.001	.000
3214.250	.000	1.000	1.000	.001	.000
3214.500	.000	1.000	1.000	.001	.000
3214.750	.000	1.000	1.000	.001	.000
3215.000	.000	1.000	1.000	.001	.000
3215.250	.000	1.000	1.000	.001	.000
3215.500	.000	1.000	1.000	.001	.000
3215.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3216.000	.000	1.000	1.000	.001	.000
3216.250	.000	.418	.418	.045	.026
3216.500	.000	1.000	1.000	.001	.000
3216.750	.000	1.000	1.000	.001	.000
3217.000	.236	1.000	1.000	.024	.000
3217.250	.187	1.000	1.000	.047	.000
3217.500	.116	.916	.916	.072	.006
3217.750	.000	.753	.753	.096	.021
3218.000	.041	.782	.782	.095	.021
3218.250	.244	1.000	1.000	.039	.000
3218.500	.000	1.000	1.000	.001	.000
3218.750	.000	1.000	1.000	.001	.000
3219.000	.141	.209	.209	.077	.061
3219.250	.000	1.000	1.000	.001	.000
3219.500	.000	1.000	1.000	.001	.000
3219.750	.000	1.000	1.000	.001	.000
3220.000	.000	1.000	1.000	.001	.000
3220.250	.000	1.000	1.000	.001	.000
3220.500	.000	1.000	1.000	.001	.000
3220.750	.981	.584	.584	.019	.008
3221.000	.000	.303	.303	.039	.027
3221.250	.000	.783	.254	.040	.030
3221.500	.000	1.000	.262	.043	.032
3221.750	.000	.949	.266	.052	.038
3222.000	.000	.840	.282	.051	.036
3222.250	.000	.655	.402	.041	.024
3222.500	.000	1.000	.533	.037	.017
3222.750	.000	1.000	1.000	.001	.000
3223.000	.000	1.000	.637	.041	.015
3223.250	.000	1.000	.398	.041	.025
3223.500	.976	1.000	.611	.024	.009
3223.750	.000	1.000	1.000	.001	.000
3224.000	.000	1.000	1.000	.001	.000
3224.250	.000	1.000	1.000	.001	.000
3224.500	.000	1.000	1.000	.001	.000
3224.750	.000	1.000	1.000	.001	.000
3225.000	.000	1.000	1.000	.001	.000
3225.250	.000	1.000	1.000	.001	.000
3225.500	.000	1.000	1.000	.001	.000
3225.750	.000	1.000	1.000	.001	.000
3226.000	.000	1.000	1.000	.001	.000

3226.250	.000	1.000	1.000	.001	.000
3226.500	.000	1.000	1.000	.001	.000
3226.750	.000	1.000	1.000	.001	.000
3227.000	.000	1.000	1.000	.001	.000
3227.250	.000	1.000	1.000	.001	.000
3227.500	.000	1.000	1.000	.001	.000
3227.750	.000	1.000	1.000	.001	.000
3228.000	.000	1.000	1.000	.001	.000
3228.250	.000	1.000	1.000	.001	.000
3228.500	.000	1.000	1.000	.001	.000
3228.750	.000	1.000	1.000	.001	.000
3229.000	.000	1.000	1.000	.001	.000
3229.250	.000	1.000	1.000	.001	.000
3229.500	.000	1.000	1.000	.001	.000
3229.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3230.000	.000	1.000	1.000	.001	.000
3230.250	.000	.877	.206	.055	.044
3230.500	.000	1.000	.204	.054	.043
3230.750	.000	1.000	.344	.055	.036
3231.000	.000	1.000	1.000	.001	.000
3231.250	.000	1.000	1.000	.001	.000
3231.500	.000	1.000	1.000	.001	.000
3231.750	.000	1.000	1.000	.001	.000
3232.000	.000	1.000	1.000	.001	.000
3232.250	.000	1.000	1.000	.001	.000
3232.500	.000	1.000	1.000	.001	.000
3232.750	.000	1.000	1.000	.001	.000
3233.000	.000	1.000	1.000	.001	.000
3233.250	.000	1.000	1.000	.001	.000
3233.500	.000	1.000	.583	.041	.017
3233.750	.000	1.000	.396	.040	.024
3234.000	.000	.882	.319	.044	.030
3234.250	.000	1.000	.345	.046	.030
3234.500	.000	1.000	1.000	.001	.000
3234.750	.000	1.000	1.000	.001	.000
3235.000	.000	1.000	1.000	.001	.000
3235.250	.715	.313	.139	.072	.062
3235.500	.000	.690	.137	.073	.063
3235.750	.000	.796	.166	.078	.065
3236.000	.000	1.000	1.000	.074	.000
3236.250	.000	1.000	1.000	.001	.000
3236.500	.000	1.000	1.000	.001	.000
3236.750	.000	.316	.316	.079	.054
3237.000	.000	1.000	1.000	.001	.000
3237.250	.000	1.000	1.000	.001	.000
3237.500	.000	1.000	1.000	.001	.000
3237.750	.000	1.000	1.000	.001	.000
3238.000	.000	1.000	1.000	.001	.000
3238.250	.000	1.000	1.000	.001	.000
3238.500	.000	1.000	1.000	.001	.000
3238.750	.000	1.000	1.000	.001	.000
3239.000	.000	1.000	1.000	.001	.000
3239.250	.882	.455	.382	.057	.035
3239.500	.000	1.000	1.000	.001	.000
3239.750	.700	.448	.154	.077	.065
3240.000	.000	1.000	1.000	.001	.000
3240.250	.000	1.000	1.000	.001	.000
3240.500	.000	1.000	1.000	.001	.000
3240.750	.000	1.000	1.000	.001	.000
3241.000	.000	1.000	1.000	.001	.000
3241.250	.000	1.000	1.000	.001	.000
3241.500	.000	1.000	1.000	.001	.000

3241.750	.000	1.000	1.000	.001	.000
3242.000	.000	1.000	1.000	.001	.000
3242.250	.000	1.000	1.000	.001	.000
3242.500	.000	1.000	1.000	.001	.000
3242.750	.000	1.000	1.000	.001	.000
3243.000	.000	1.000	1.000	.001	.000
3243.250	.000	1.000	1.000	.001	.000
3243.500	.000	1.000	1.000	.001	.000
3243.750	.000	.762	.375	.090	.056

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3244.000	.000	1.000	.354	.100	.065
3244.250	.131	1.000	.665	.076	.026
3244.500	.000	1.000	1.000	.001	.000
3244.750	.000	1.000	1.000	.001	.000
3245.000	.000	1.000	1.000	.001	.000
3245.250	.046	1.000	.604	.100	.040
3245.500	.239	1.000	.630	.084	.031
3245.750	.000	1.000	1.000	.001	.000
3246.000	.000	1.000	1.000	.001	.000
3246.250	.000	1.000	1.000	.001	.000
3246.500	.000	1.000	1.000	.001	.000
3246.750	.000	1.000	1.000	.001	.000
3247.000	.000	1.000	1.000	.001	.000
3247.250	.000	1.000	1.000	.001	.000
3247.500	.643	.096	.096	.086	.077
3247.750	.098	.210	.210	.061	.048
3248.000	.145	.465	.274	.055	.040
3248.250	.000	.449	.449	.067	.037
3248.500	.000	.566	.566	.067	.029
3248.750	.000	.611	.611	.060	.023
3249.000	.000	.641	.641	.057	.020
3249.250	.000	.730	.730	.056	.015
3249.500	.000	.786	.786	.055	.012
3249.750	.000	.805	.805	.062	.012
3250.000	.000	.844	.844	.063	.010
3250.250	.000	.774	.774	.053	.012
3250.500	.000	.753	.753	.048	.012
3250.750	.000	.910	.910	.054	.005
3251.000	.000	.914	.914	.050	.004
3251.250	.000	.674	.674	.051	.006
3251.500	.091	1.000	1.000	.053	.000
3251.750	.000	1.000	1.000	.001	.000
3252.000	.000	1.000	1.000	.001	.000
3252.250	.000	1.000	1.000	.001	.000
3252.500	.000	1.000	1.000	.001	.000
3252.750	.000	1.000	1.000	.001	.000
3253.000	.000	1.000	1.000	.001	.000
3253.250	.000	1.000	1.000	.001	.000
3253.500	.127	.677	.603	.071	.028
3253.750	.000	.579	.579	.071	.030
3254.000	.000	.556	.556	.072	.032
3254.250	.000	.522	.522	.064	.031
3254.500	.000	.496	.496	.050	.025
3254.750	.980	.654	.654	.020	.007
3255.000	.000	1.000	1.000	.001	.000
3255.250	.000	1.000	1.000	.001	.000
3255.500	.000	.300	.210	.062	.049
3255.750	.000	.661	.240	.049	.037
3256.000	.000	.993	.216	.056	.044
3256.250	.000	.979	.175	.054	.044
3256.500	.000	.815	.165	.056	.047
3256.750	.000	.977	.156	.068	.058
3257.000	.000	1.000	1.000	.001	.000

3257.250	.000	1.000	1.000	.001	.000
3257.500	.000	1.000	1.000	.001	.000
3257.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3258.000	.000	1.000	1.000	.001	.000
3258.250	.000	1.000	1.000	.001	.000
3258.500	.000	1.000	1.000	.001	.000
3258.750	.000	1.000	1.000	.001	.000
3259.000	.000	1.000	1.000	.001	.000
3259.250	.000	1.000	1.000	.001	.000
3259.500	.000	1.000	1.000	.001	.000
3259.750	.000	1.000	1.000	.001	.000
3260.000	.000	1.000	1.000	.001	.000
3260.250	.000	1.000	1.000	.001	.000
3260.500	.779	.301	.172	.044	.036
3260.750	.000	1.000	1.000	.001	.000
3261.000	.000	1.000	1.000	.001	.000
3261.250	.000	.375	.375	.025	.016
3261.500	.000	1.000	1.000	.001	.000
3261.750	.000	1.000	1.000	.001	.000
3262.000	.000	1.000	1.000	.001	.000
3262.250	.000	1.000	1.000	.001	.000
3262.500	.000	1.000	1.000	.001	.000
3262.750	.000	1.000	1.000	.001	.000
3263.000	.000	1.000	1.000	.097	.000
3263.250	.000	1.000	1.000	.001	.000
3263.500	.000	1.000	1.000	.001	.000
3263.750	.000	1.000	1.000	.001	.000
3264.000	.000	1.000	1.000	.001	.000
3264.250	.000	1.000	1.000	.001	.000
3264.500	.000	1.000	1.000	.001	.000
3264.750	.000	1.000	1.000	.001	.000
3265.000	.000	1.000	1.000	.001	.000
3265.250	.000	1.000	1.000	.001	.000
3265.500	.000	1.000	1.000	.001	.000
3265.750	.000	1.000	1.000	.001	.000
3266.000	.000	1.000	1.000	.079	.000
3266.250	.000	1.000	1.000	.063	.000
3266.500	.000	1.000	1.000	.001	.000
3266.750	.000	1.000	1.000	.001	.000
3267.000	.000	1.000	1.000	.001	.000
3267.250	.000	1.000	1.000	.001	.000
3267.500	.000	1.000	1.000	.001	.000
3267.750	.000	1.000	1.000	.001	.000
3268.000	.000	1.000	1.000	.001	.000
3268.250	.000	1.000	1.000	.001	.000
3268.500	.000	1.000	1.000	.001	.000
3268.750	.000	1.000	1.000	.001	.000
3269.000	.000	1.000	1.000	.001	.000
3269.250	.000	1.000	1.000	.001	.000
3269.500	.000	1.000	1.000	.001	.000
3269.750	.000	1.000	1.000	.001	.000
3270.000	.000	1.000	1.000	.001	.000
3270.250	.000	1.000	1.000	.001	.000
3270.500	.000	1.000	1.000	.001	.000
3270.750	.000	1.000	1.000	.001	.000
3271.000	.000	1.000	1.000	.001	.000
3271.250	.580	.480	.480	.038	.020
3271.500	.366	.436	.436	.038	.022
3271.750	.000	.396	.396	.055	.033

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3272.000	.000	.480	.403	.065	.039
3272.250	.000	.886	.381	.065	.040
3272.500	.000	.889	.330	.066	.044
3272.750	.000	.721	.339	.070	.046
3273.000	.000	1.000	.523	.061	.041
3273.250	.000	1.000	.272	.049	.036
3273.500	.000	.515	.182	.052	.042
3273.750	.000	.582	.138	.071	.062
3274.000	.000	.896	.136	.100	.086
3274.250	.000	1.000	.159	.100	.084
3274.500	.393	1.000	.190	.100	.081
3274.750	.000	1.000	1.000	.100	.000
3275.000	.000	1.000	1.000	.001	.000
3275.250	.000	1.000	1.000	.001	.000
3275.500	.000	.956	.200	.045	.036
3275.750	.000	.998	.168	.046	.039
3276.000	.000	1.000	.155	.048	.040
3276.250	.000	1.000	.162	.038	.032
3276.500	.000	1.000	.153	.035	.029
3276.750	.000	1.000	.146	.030	.026
3277.000	.000	1.000	.180	.031	.026
3277.250	.000	1.000	.176	.039	.032
3277.500	.000	.903	.144	.067	.058
3277.750	.000	.902	.134	.100	.087
3278.000	.472	.517	.063	.100	.094
3278.250	.000	1.000	1.000	.001	.000
3278.500	.000	1.000	1.000	.001	.000
3278.750	.000	.501	.215	.076	.059
3279.000	.000	.773	.243	.098	.075
3279.250	.000	.846	.262	.100	.074
3279.500	.000	1.000	.272	.097	.070
3279.750	.000	1.000	.320	.096	.066
3280.000	.000	.998	.306	.087	.061
3280.250	.000	1.000	.254	.073	.054
3280.500	.000	.753	.212	.068	.054
3280.750	.000	1.000	.201	.079	.063
3281.000	.000	1.000	.184	.096	.078
3281.250	.000	1.000	.194	.100	.081
3281.500	.859	1.000	.250	.092	.069
3281.750	.000	1.000	1.000	.001	.000
3282.000	.000	1.000	1.000	.001	.000
3282.250	.000	1.000	1.000	.001	.000
3282.500	.000	1.000	1.000	.001	.000
3282.750	.000	1.000	1.000	.001	.000
3283.000	.000	1.000	1.000	.001	.000
3283.250	.000	1.000	1.000	.001	.000
3283.500	.000	1.000	1.000	.001	.000
3283.750	.000	1.000	1.000	.001	.000
3284.000	.000	1.000	1.000	.001	.000
3284.250	.000	1.000	1.000	.001	.000
3284.500	.000	1.000	1.000	.001	.000
3284.750	.000	1.000	1.000	.001	.000
3285.000	.000	1.000	1.000	.001	.000
3285.250	.000	1.000	1.000	.001	.000
3285.500	.000	1.000	1.000	.001	.000
3285.750	.000	1.000	1.000	.001	.000

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3286.000	.000	1.000	1.000	.001	.000
3286.250	.000	1.000	1.000	.001	.000
3286.500	.000	1.000	1.000	.001	.000
3286.750	.000	1.000	1.000	.001	.000
3287.000	.000	1.000	1.000	.001	.000
3287.250	.000	1.000	1.000	.001	.000

3287.500	.000	1.000	1.000	.001	.000
3287.750	.745	.160	.160	.078	.066
3288.000	.000	1.000	1.000	.100	.000
3288.250	.000	1.000	1.000	.001	.000
3288.500	.000	1.000	1.000	.001	.000
3288.750	.000	1.000	1.000	.001	.000
3289.000	.000	1.000	1.000	.001	.000
3289.250	.000	1.000	1.000	.001	.000
3289.500	.000	1.000	1.000	.001	.000
3289.750	.000	1.000	1.000	.001	.000
3290.000	.000	1.000	1.000	.001	.000
3290.250	.931	.311	.311	.069	.048
3290.500	.000	.395	.351	.086	.056
3290.750	.000	.750	.368	.100	.063
3291.000	.000	.834	.316	.100	.068
3291.250	.000	.788	.287	.099	.070
3291.500	.277	1.000	.391	.069	.042
3291.750	.000	1.000	1.000	.001	.000
3292.000	.868	.247	.247	.100	.075
3292.250	.634	.102	.102	.100	.090
3292.500	.000	1.000	1.000	.001	.000
3292.750	.000	1.000	1.000	.001	.000
3293.000	.000	1.000	1.000	.001	.000
3293.250	.000	1.000	1.000	.001	.000
3293.500	.000	1.000	1.000	.001	.000
3293.750	.000	1.000	1.000	.001	.000
3294.000	.000	1.000	1.000	.001	.000
3294.250	.000	1.000	1.000	.001	.000
3294.500	.000	1.000	1.000	.001	.000
3294.750	.000	1.000	1.000	.001	.000
3295.000	.000	1.000	1.000	.001	.000
3295.250	.000	.284	.284	.100	.072
3295.500	.000	.323	.215	.091	.071
3295.750	.000	.539	.199	.100	.080
3296.000	.000	1.000	.257	.100	.074
3296.250	.000	.705	.274	.094	.068
3296.500	.000	.545	.189	.082	.066
3296.750	.000	.496	.175	.097	.080
3297.000	.618	.683	.138	.100	.086
3297.250	.000	1.000	1.000	.001	.000
3297.500	.000	1.000	1.000	.001	.000
3297.750	.000	1.000	1.000	.001	.000
3298.000	.000	1.000	1.000	.001	.000
3298.250	.000	1.000	1.000	.001	.000
3298.500	.000	1.000	1.000	.001	.000
3298.750	.000	1.000	1.000	.001	.000
3299.000	.000	1.000	1.000	.001	.000
3299.250	.000	1.000	1.000	.001	.000
3299.500	.000	1.000	1.000	.001	.000
3299.750	.000	.557	.557	.017	.008

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3300.000	.000	1.000	1.000	.001	.000
3300.250	.000	1.000	*********	*********	*********
3300.500	.000	1.000	*********	*********	*********
3300.750	.000	1.000	*********	*********	*********
3301.000	.000	1.000	*********	*********	*********
3301.250	.000	1.000	*********	*********	*********
3301.500	.000	1.000	*********	*********	*********
3301.750	.000	1.000	*********	*********	*********
3302.000	.000	1.000	*********	*********	*********
3302.250	.000	1.000	*********	*********	*********
3302.500	.000	1.000	*********	*********	*********
3302.750	.000	1.000	*********	*********	*********

3303.000	.000	1.000	********	********	********
3303.250	.000	1.000	********	********	********
3303.500	.000	1.000	********	********	********
3303.750	.000	1.000	********	********	********
3304.000	.000	1.000	********	********	********
3304.250	.000	1.000	********	********	********
3304.500	.000	1.000	********	********	********
3304.750	.000	1.000	********	********	********
3305.000	.000	1.000	********	********	********
3305.250	.000	1.000	********	********	********
3305.500	.000	1.000	********	********	********
3305.750	.000	1.000	********	********	********
3306.000	.000	1.000	********	********	********
3306.250	.000	1.000	********	********	********
3306.500	.000	1.000	********	********	********
3306.750	.000	1.000	********	********	********
3307.000	.000	1.000	********	********	********
3307.250	.000	1.000	********	********	********
3307.500	.000	1.000	********	********	********
3307.750	.000	1.000	********	********	********
3308.000	.000	1.000	********	********	********
3308.250	.000	1.000	********	********	********
3308.500	.000	1.000	********	********	********
3308.750	.000	1.000	********	********	********
3309.000	.000	1.000	********	********	********
3309.250	.000	1.000	********	********	********
3309.500	.000	1.000	********	********	********
3309.750	.000	1.000	********	********	********
3310.000	.000	1.000	********	********	********
3310.250	.000	1.000	********	********	********
3310.500	.000	1.000	********	********	********
3310.750	.000	1.000	********	********	********
3311.000	.000	1.000	********	********	********
3311.250	.000	1.000	********	********	********
3311.500	.000	1.000	********	********	********
3311.750	.000	1.000	********	********	********
3312.000	.000	1.000	********	********	********
3312.250	.000	1.000	********	********	********
3312.500	.000	1.000	********	********	********
3312.750	.000	1.000	********	********	********
3313.000	.000	1.000	********	********	********
3313.250	.000	1.000	********	********	********
3313.500	.000	1.000	********	********	********
3313.750	.000	1.000	********	********	********

1 BREAM #5

DEPTH	VCL	SXO	Sw	PHI	HC.VOL
3314.000	.000	1.000	********	********	********
3314.250	.000	1.000	********	********	********
3314.500	.000	1.000	********	********	********
3314.750	.000	1.000	********	********	********
3315.000	.000	1.000	********	********	********
3315.250	.000	1.000	********	********	********
3315.500	.000	1.000	********	********	********
3315.750	.000	1.000	********	********	********
3316.000	.000	1.000	********	********	********
3316.250	.000	1.000	********	********	********
3316.500	.000	1.000	********	********	********
3316.750	.000	1.000	********	********	********
3317.000	.000	1.000	********	********	********
3317.250	.000	1.000	********	********	********
3317.500	.000	1.000	********	********	********
3317.750	.000	1.000	********	********	********
3318.000	.000	1.000	********	********	********
3318.250	.000	1.000	********	********	********

3318.500	.000	1.000	********	********	********
3318.750	.000	1.000	********	********	********
3319.000	.000	1.000	********	********	********
3319.250	.000	1.000	********	********	********
3319.500	.000	1.000	********	********	********
3319.750	.000	1.000	********	********	********
3320.000	.000	1.000	********	********	********
3320.250	.000	1.000	********	********	********
3320.500	.000	1.000	********	********	********
3320.750	.000	1.000	********	********	********
3321.000	.000	1.000	********	********	********
3321.250	.000	1.000	********	********	********
3321.500	.000	1.000	********	********	********
3321.750	.000	1.000	********	********	********
3322.000	.000	1.000	********	********	********
3322.250	.000	1.000	********	********	********
3322.500	.000	1.000	********	********	********
3322.750	.000	1.000	********	********	********
3323.000	.000	1.000	********	********	********
3323.250	.000	1.000	********	********	********
3323.500	.000	1.000	********	********	********
3323.750	.000	1.000	********	********	********
3324.000	.000	1.000	********	********	********
3324.250	.000	1.000	********	********	********
3324.500	.000	1.000	********	********	********
3324.750	.000	1.000	********	********	********
3325.000	.000	1.000	********	********	********
3325.250	.000	1.000	********	********	********
3325.500	.000	1.000	********	********	********
3325.750	.000	1.000	********	********	********
3326.000	.000	1.000	********	********	********
3326.250	.000	1.000	********	********	********
3326.500	.000	1.000	********	********	********
3326.750	.000	1.000	********	********	********
3327.000	.000	1.000	********	********	********
3327.250	.000	1.000	********	********	********
3327.500	.000	1.000	********	********	********
3327.750	.000	1.000	********	********	********

1 BREAM #5

DEPTH	VCL	SXO	SW	PHI	HC.VOL
3328.000	.000	1.000	********	********	********
3328.250	.000	1.000	********	********	********
3328.500	.000	1.000	********	********	********
3328.750	.000	1.000	********	********	********
3329.000	.000	1.000	********	********	********
3329.250	.000	1.000	********	********	********
3329.500	.000	1.000	********	********	********
3329.750	.000	1.000	********	********	********
3330.000	.000	1.000	********	********	********
3330.250	.000	1.000	********	********	********
3330.500	.000	1.000	********	********	********
3330.750	.000	1.000	********	********	********
3331.000	.000	1.000	********	********	********
3331.250	.000	1.000	********	********	********
3331.500	.000	1.000	********	********	********
3331.750	.000	1.000	********	********	********
3332.000	.000	1.000	********	********	********
3332.250	.000	1.000	********	********	********
3332.500	.000	1.000	********	********	********
3332.750	.000	1.000	********	********	********
3333.000	.000	1.000	********	********	********
3333.250	.000	1.000	********	********	********
3333.500	.000	1.000	********	********	********
3333.750	.000	1.000	********	********	********

3334.000	.000	1.000	*********	*********	*********
3334.250	.000	1.000	*********	*********	*********
3334.500	.000	1.000	*********	*********	*********
3334.750	.000	1.000	*********	*********	*********
3335.000	.000	1.000	*********	*********	*********
3335.250	.000	1.000	*********	*********	*********
3335.500	.000	1.000	*********	*********	*********
3335.750	.000	1.000	*********	*********	*********
3336.000	.000	1.000	*********	*********	*********
3336.250	.000	1.000	*********	*********	*********
3336.500	.000	1.000	*********	*********	*********
3336.750	.000	1.000	*********	*********	*********
3337.000	.000	1.000	*********	*********	*********
3337.250	.000	1.000	*********	*********	*********

PE601326

This is an enclosure indicator page.
The enclosure PE601326 is enclosed within the container PE902630 at this location in this document.

The enclosure PE601326 has the following characteristics:

ITEM_BARCODE	= PE601326
CONTAINER_BARCODE	= PE902630
NAME	= Mud Log
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log (from WCR) for Bream-5
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 07/09/1982
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE604465

This is an enclosure indicator page.
The enclosure PE604465 is enclosed within the container PE902630 at this location in this document.

The enclosure PE604465 has the following characteristics:

ITEM_BARCODE	= PE604465
CONTAINER_BARCODE	= PE902630
NAME	= Mud Log (sheet 1 of 2) for Bream-5
BASIN	= GIPPSLAND
PERMIT	= VIC/P1
TYPE	= WELL
SUBTYPE	= MUD_LOG
DESCRIPTION	= Mud Log, part 1 of 2, (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	= 26/08/82
W_NO	= W781
WELL_NAME	= BREAM-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

APPENDIX 4

APPENDIX 4

WIRELINE TEST REPORT

BREAM-5 RFT TESTING REPORT

General

Four suites of RFT's were run in Bream-5 as follows:

Suite 1	No RFTs were run.
Suite 2 (Runs 1-5)	1932m - 2023m TVDKB (N-1 section) 12 August, 1982. 28 seats, 18 successful. 4 segregated samples. 1 retained for PVT analysis.
Suite 3 (Runs 6-14)	2116.5m - 2694m TVDKB 21-22 August, 1982. 52 seats, 40 successful. 1 run abandoned prematurely due to poor hole condition. 5 segregated and 2 non-segregated samples.
Suite 4 (Runs 15-25)	2695m - 3010m TVDKB 29 August - September 1982. 77 seats, 41 successful 8 segregated and 3 non-segregated samples.
Suite 5 (Runs 26-27)	3015m - 3200m TVDKB 7 September, 1982. 19 seats, 10 successful. 1 segregated and 2 non-segregated samples.

Note: Reported pressures were recorded using the Hewlett-Packard gauge.

Interpretation

Figure 1 is a Depth V Pressure plot for the well.
Figure 2 is a Depth V Pressure plot for the N-1 section.
Figure 3 is a Depth V Pressure plot for the section from 2400-2780m TVDKB.
Figure 4 is a Depth V Pressure plot for the section from 2700-3080m TVDKB.
Figure 5 is a Depth V Temperature plot for the well.

In the N-1 section neither a gas-oil contact nor an oil-water contact was encountered in net sand section. The gas-oil contact lies in the non-net section from 1957.75-1939.5m TVDKB. From RFT sampling low proved gas is at 1937m TVDKB and high proved oil is at 1940m TVDKB. The pressure data in Figure 2 suggests a gas-oil contact at 1939m TVDKB which is 2 metres lower than the interpreted GOC in Bream-4A.

An oil-water contact could not be established by logs or sampling because of the poor quality/non-net section from 1946.5m to 1960m TVDKB. Low proved oil was sampled in poor quality rock at 1951.3m and high proved water was indicated at 1961.5m. The pressure data indicates that the hydrocarbon sands above 1944.5m TVDKB and the water sands below 1960m TVDKB are probably not in direct pressure communication. A lower pressure was expected in Bream-5 than in Bream-4A because Bream-5 is closer to the producing fields to the East and was drilled 12 months later. In the hydrocarbon section of Bream-5 the pressures were 7.5 psi lower than in Bream-4A, while in the water sands they were 15.5 psi lower. If this represented a condition of static equilibrium then the pressure data would indicate that an oil column could exist down to 1961.5m TVDKB, possibly explained as a tilting of the oil water contact across the field due to aquifer pressure gradients. However, the most likely explanation is that there has been a difference in the drawdown in the two sections due to production from the other fields, because the upper section is not connected as directly to the basin aquifer system and is lagging in pressure decline. Consequently we recommend that the 13m oil column as seen in Bream-4A be assumed to exist at Bream-5.

Below the N-1 the pressure is tied directly to the N-1 aquifer system down to 2456m TVDKB. Gas was sampled in the thin sand streak at 2477m TVDKB and also at 2488m TVDKB. Oil was sampled at 2495.5m TVDKB confirming the log indications of hydrocarbons in the sand from 2493.5m TVDKB to 2497.5m TVDKB with an oil-water transition zone down to 2500m TVDKB. The pressure at 2488m TVDKB was anomalous in that it lay on an oil gradient with the sand below, even though gas was sampled.

The pressure data is scattered in the sands from 2500m TVDKB down to 2550m TVDKB. No fluid gradient can be clearly established.

Gas was sampled at 2558m TVDKB and 2562m TVDKB indicating a 5.5m gas column from 2557m-2562.5m TVDKB. Below this a water gradient can be established down to 2662m TVDKB.

The small sand section from 2660.5m TVDKB to 2666m TVDKB was shown to contain gas with gas sampled at 2662.5m. The pressure data from 2662m TVDKB to 2710m TVDKB is scattered and no fluid gradient can be established.

Oil was sampled at 2692m TVDKB but because of the low porosity in the sand immediately below this depth it was not possible to obtain pressure measurements to confirm the column extent.

There is a pressure discontinuity of about 80 psi between 2710m TVDKB and 2720m TVDKB with the data around 2700m TVDKB tying back to the gradient in the N-1 aquifer system above. This indicates that the sands below 2720m TVDKB have not drawndown from the original basin gradient and are not in pressure communication with the main aquifer system.

Below 2720m TVDKB the data is somewhat scattered, although it is possible to fit water gradients as shown in Figure 4. Eight gas samples were taken in different sands throughout the section. However the pressure data indicates that the gas columns in each are isolated.

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 2 RUN NO: 1 DATE: 12/8/82 OBSERVERS: L. Finlayson/A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
1/1	2023.0	2002.0	PT	HP SCH	Y N	A G	3422	9.95	2857.5 2853	8.40 8.38	3418	9.94	Valid
1/2	1999.0	1978.0	PT	HP SCH	Y N	A G	3370	9.92	2823.3 2822	8.40 8.39	3369	9.91	Valid
1/3	1977.0	1956.0	PT	HP SCH	Y N	A G	3325	9.89	2791.3 2790	8.39 8.39	3322	9.88	Valid
1/4	1966.0	1945.0	PT	HP SCH	Y N	A G	3300	9.87	2776.1 2775	8.40 8.39	3298	9.87	Valid
1/5	1949.5	1928.5	PT	HP SCH	Y N	A G	3272	9.87			3275	9.88	Tight, invalid
1/6	1949.0	1928.0	PT	HP SCH	Y N	A G	3272	9.88	2767.1 2762	8.44 8.43	3272	9.88	Valid
1/7	1946.0	1925.0	PT	HP SCH	Y N	A G	3264	9.87	2575.6 2752	8.43 8.41	3262	9.86	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 2 RUN NO: 1 DATE: 12/8/82 OBSERVERS: L. Finlayson/A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
1/8	1945.0	1924.0	PT	HP SCH	Y N	A G	3265	9.87	2756.5 2752	8.43 8.41	3260	9.86	Valid
1/9	1943.0	1922.0	PT	HP SCH	Y N	A G	3261	9.87	2754.6 2752	8.43 8.42	3258	9.86	Valid
1/10	1940.0	1919.0	PT	HP SCH	Y N	A G	3250	9.85	2752.0 2748	8.44 8.42	3256	9.87	Valid
1/11	1937.0	1916.0	PT	HP SCH	Y N	A G	3247	9.86	2751.9 2749	8.45 8.44	3242	9.85	Valid
1/12	1935.0	1914.0	PT	HP SCH	Y N	A G	3243	9.86	2750.6 2747	8.45 8.44	3238	9.84	Valid
1/13	1933.5	1912.5	PT	HP SCH	Y N	A G	3241	9.86	2750.0 2745	8.46 8.44	3236	9.84	Valid
1/14	1932.0	1911.0	PT	HP SCH	Y N	A G	3238	9.86	2749.7 2745	8.46 8.45	3232	9.84	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 2 RUN NO: 2,3,&4 DATE: 12/8/82 OBSERVERS: L. Finlayson/A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
2/15	1937.0	1916.0	SPT	HP SCH	Y N	A G	3259	9.90	2751.5 2748	8.45 8.44	3240	9.84	Pretest valid. Took segregated sample
3/16	1940.0	1919.0	SPT	HP SCH	Y N	A G	3268	9.91	2752.3 2752	8.44 8.44	3249	9.85	Pretest valid. Took segregated sample
4/17	1951.5	1930.5	PT	HP SCH	Y N	A G	3289	9.91			3287	9.91	Tight, invalid
4/18	1951.3	1930.3	SPT	HP SCH	Y N	A G	3282	9.89	2766.6 2762	8.43 8.42	3262	9.83	Pretest valid. Took segregated sample
4/19	1962.0	1941.0	PT	HP SCH	Y N	A G	3281	9.84	2770.7 2763	8.40 8.37	3278	9.83	Valid
4/20	1957.1	1936.1	PT	HP SCH	Y N	A G	3267	9.82			3773	9.84	Tight, invalid
4/21	1957.2	1936.2	PT	HP SCH	Y N	A G	3270	9.83			3273	9.84	Tight, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 2 RUN NO: 4,& 5 DATE: 12/8/82 OBSERVERS: L. Finlayson/A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
4/22	1954.0	1933.0	PT	HP SCH	Y N	A G	3266	9.83			3266	9.83	Tight, invalid
5/23	1962.0	1941.0	SPT	HP SCH	Y N	A G	3309	9.92			3308	9.92	Tight, invalid
5/24	1961.9	1940.9	SPT	HP SCH	Y N	A G	3304	9.91	2771.9 2767	8.40 8.39	3274	9.82	Pretest valid. Took segregated sample
5/25	1960.5	1939.5	PT	HP SCH	Y N	A G	3274	9.82			3275	9.83	Tight, invalid
5/26	1957.0	1936.0	PT	HP SCH	Y N	A G	3269	9.83			3269	9.83	Tight, seal failed, invalid
5/27	1953.8	1932.8	PT	HP SCH	Y N	A G	3260	9.81			3266	9.83	Tight, invalid
5/28	1959.8	1938.8	PT	HP SCH	Y N	A G	3275	9.83			3275	9.83	Tight, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 6 DATE: 22/8/82 OBSERVERS: A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
6/29	2694.0	2673.0	PT	HP SCH	Y N	A G	4505	9.84			4505	9.84	Tight, invalid
6/30	2692.0	2671.0	PT	HP SCH	Y N	A G	4499	9.83	3800.7 3762	8.37 8.29	4498	9.83	Valid
6/31	2661.5	2640.5	PT	HP SCH	Y N	A G	4445	9.82	3798.1 3761	8.46 8.38	4446	9.83	Valid
6/32	2665.5	2644.5	PT	HP SCH	Y N	A G	4448	9.82			4445	9.81	No seal
6/33	2665.5	2644.5	PT	HP SCH	Y N	A G	4447	9.81	3797.0 3760	8.45 8.36	4457	9.84	Valid
6/34	2621.5	2600.5	PT	HP SCH	Y N	A G	4375	9.82	3714.6 3683	8.40 8.33	44376	9.82	Valid
6/35	2592.5	2571.5	PT	HP SCH	Y N	A G	4329	9.82	3679.0 3642	8.42 8.33	4333	9.83	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 6 DATE: 22/8/82 OBSERVERS: A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
6/36	2583.0	2562.0	PT	HP SCH	Y N	A G	4316	9.83	3688.2 3658	8.47 8.40	4316	9.83	Valid
6/37	2562.5	2541.5	PT	HP SCH	Y N	A G	4273	9.81	3634.3 3594	8.41 8.32	4280	9.82	Tight, invalid
6/38	2562.0	2541.0	PT	HP SCH	Y N	A G	4282	9.83	3636.7 3593	8.41 8.32	4282	9.83	Valid
6/39	2558.0	2537.0	PT	HP SCH	Y N	A G	4270	9.82	3633.4 3591	8.42 8.37	4273	9.83	Valid
6/40	2526.5	2505.5	PT	HP SCH	Y N	A G	4217	9.82					No seal
6/41	2526.5	2505.5	PT	HP SCH	Y N	A G	4220	9.83	3557.1 3525	8.35 8.28	4221	9.83	Valid
6/42	2507.0	2486.0	PT	HP SCH	Y N	A G	4186	9.82	3538.5 3505	8.37 8.29	4190	9.83	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 6 DATE: 22/8/82 OBSERVERS: A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
6/43	2500.0	2479.0	PT	HP SCH	Y N	A G	4177	9.83	3536.8 3505	8.40 8.32	4179	9.83	Valid
6/44	2495.0	2474.0	PT	HP SCH	Y N	A G	4172	9.84	3532.6 3500	8.40 8.32	4172	9.84	Valid
6/45	2488.0	2467.0	PT	HP SCH	Y N	A G	4157	9.83	3522.7 3492	8.40 8.33	4162	9.84	Valid
6/46	2456.0	2435.0	PT	HP SCH	Y N	A G	4107	9.84	3471.1 3429	8.39 8.28	4110	9.84	Valid
6/47	2398.5	2377.5	PT	HP SCH	Y N	A G	4013	9.84	3391.0 3364	8.39 8.32	4019	9.86	Valid
6/48	2292.7	2271.7	PT	HP SCH	Y N	A G	3845	9.87			3849	9.88	Tight, invalid
6/49	2292.6	2271.6	PT	HP SCH	Y N	A G	3242	9.86	3238.2 3206	8.39 8.30	3845	9.87	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 6 & 7 DATE: 22/8/82 OBSERVERS: A. Lindsay

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
6/50	2203.0	2182.0	PT	HP SCH	Y N	A G	3696	9.87	3111.8 3077	8.39 8.30	3700	9.88	Valid
6/51	2116.5	2095.5	PT	HP SCH	Y N	A G	3555	9.88	2988.0 2951	8.39 8.28	3559	9.89	Valid
7/52	2513.0	2492.0	PT	HP SCH	Y N	A G	4205	9.84	3550.0 3526	8.38 8.32	4203	9.84	Valid
7/53	2674.5	2653.5	PT	HP SCH	Y N	A G	4492	9.88			4465	9.82	Tight, invalid
7/54	2672.5	2651.5	PT	HP SCH	Y N	A G	4461	9.82			4455	9.81	Tight, invalid
7/55	2662.0	2641.0	PT	HP SCH	Y N	A G	4440	9.81			4447	9.83	Tight, invalid
7/56	2662.0	2641.0	SPT	HP SCH	Y N	A G	4441	9.82	3799.9 3759	8.47 8.37	4435	9.80	Pretest valid. Took segregated sample

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 8,9,10 & 11 DATE: 23/8/82 OBSERVERS: W. Mudge

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
8/57	2678.0	2657.0	PT	HP SCH	Y N	A G	4481	9.84			4468	9.81	Tight, leaking packer
8/58	2677.0	2656.0	PT	HP SCH	Y N	A G	4465	9.81	3821.5 3796	8.46 8.41	4463	9.81	Valid (fluctuating)
9/59	2680.0	2649.0	PT	HP SCH	Y N	A G	4464	9.83	3810.8 3774	8.46 8.38	4463	9.83	Valid
9/60	2674.5	2653.5	PT	HP SCH	Y N	A G	4471	9.83	3818.1 3786	8.46 8.39	4462	9.81	Valid
9/61	2692.0	2671.0	SPT	HP SCH	Y N	A G	4496	9.82	3803.5 3762	8.37 8.29	4477	9.78	Valid. Took segregated sample
10/62	2670.0	2649.0	SPT	HP SCH	Y N	A G	4459	9.82	3810.4 3775	8.46 8.38	4443	9.79	Valid. Took segregated sample
11/63	2608.0	2587.0	PT	HP SCH	Y N	A G	4348	9.81	3698.5 3664	8.41 8.33	4347	9.80	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 11 & 12 DATE: 24/8/82 OBSERVERS: W. Mudge

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
11/64	2585.0	2564.0	PT	HP SCH	Y N	A G	4308	9.80	3666.5 3632	8.41 8.33	4308	9.80	Valid
11/65	2558.0	2537.0	SPT	HP SCH	Y N	A G	4261	9.80	3633.5 3596	8.42 8.33	4263	9.80	Valid pretest. Took segregated sample
12/66	2538.0	2517.0	PT	HP SCH	Y N	A G	4237	9.90	3580.9 3553	8.37 8.30	4231	9.89	Valid
12/67	2519.0	2498.0	PT	HP SCH	Y N	A G	4200	9.81	3554.6 3521	8.37 8.29	4201	9.81	Valid
12/68	2477.2	2456.2	PT	HP SCH	Y N	A G	4129	9.80			4134	9.82	Tight, invalid
12/69	2477.3	2456.3	PT	HP SCH	Y N	A G	4133	9.81			4134	9.82	Tight, invalid
12/70	2477.0	2456.0	PT	HP SCH	Y N	A G	4132	9.81	3526.9 3495	8.38 8.30	4133	9.82	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 RUN NO: 12, 13 & 14 DATE: 24/8/82 OBSERVERS: W. Mudge

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
12/71	2495.5	2474.5	SPT	HP SCH	Y N	A G	4163	9.81	3533.8 3497	8.40 8.31	4162	9.81	Valid pretest. Took segregated sample
13/72	2477.0	2456.0	SPT	HP SCH	Y N	A G	4139	9.83	3528.7 3501	8.45 8.39	4131	9.81	Valid pretest. Took unsegregated sample
13/73	2488.0	2467.0	SPT	HP SCH	Y N	A G	4150	9.81	3524.0 3486	8.40 8.31	4149	9.81	Valid pretest. Took unsegregated sample
14/74	2559.0	2538.0	PT	HP SCH	Y N	A G	4272	9.82	3636.5 3613	8.43 8.37	4257	9.79	Valid
14/75	2561.0	2540.0	PT	HP SCH	Y N	A G	4259	9.78	3638.2 3616	8.43 8.37	4260	9.78	Valid
14/76	2571.0	2550.0	PT	HP SCH	Y N	A G	4279	9.79	3644.6 3606	8.41 8.32	4277	9.79	Valid
14/77	2568.5	2547.5	SPT	HP SCH	Y N	A G	4273	9.79	3642.1 3605	8.41 8.32	4275	9.79	Valid pretest. Took unsegregated sample

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 3 & 4 RUN NO: 14 & 15 DATE: 24 & 29/8/82 OBSERVERS: W. Mudge

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
14/78	2568.2	2547.2	SPT	HP SCH	Y N	A G	4274	9.79	3642.4 3606	8.41 8.33	4272	9.78	Valid pretest. Re-opened same chamber as above
14/79	2568.0	2547.0	SPT	HP SCH	Y N	A G	4276	9.79	3644.0 3605	8.42 8.33	4269	9.78	As above
14/80	2562.0	2541.0	SPT	HP SCH	Y N	A G	4257	9.77	3633.8 3603	8.41 8.34	4259	9.78	Valid pretest. Took unsegregated sample
15/81	2456.0	2435.0	PT	HP SCH	Y N	A G	4019	9.63	3471.8 3452	8.39 8.34	4017	9.62	Valid
15/82	2692.0	2671.0	PT	HP SCH	Y N	A G	4398	9.61	3798.5 3776	8.37 8.32	4396	9.61	Valid
15/83	3015.0	2994.0	PT	HP SCH	Y N	A G	4927	9.61			4922	9.60	No seal invalid
15/84	3015.0	2994.0	PT	HP SCH	Y N	A G	4927	9.61			4933	9.62	Tight, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 15 DATE: 29/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
15/85	3010.0	2989.0	PT	HP SCH	Y N	A G	4924	9.62			4915	9.61	Seal failed
15/86	3010.0	2989.0	PT	HP SCH	Y N	A G	4911	9.60			4909	9.59	Seal failed
15/87	3010.5	2989.5	PT	HP SCH	Y N	A G	4916	9.61			4913	9.60	Tight, invalid
15/88	3009.5	2988.5	PT	HP SCH	Y N	A G	4911	9.60			4909	9.60	Tight, invalid
15/89	2994.0	2973.0	PT	HP SCH	Y N	A G	4875	9.58	4359.0 4330	8.62 8.57	4878	9.58	Valid
15/90	2986.5	2965.5	PT	HP SCH	Y N	A G	4871	9.59			4871	9.59	Seal failed
15/91	2987.0	2966.0	PT	HP SCH	Y N	A G	4873	9.60			4869	9.59	Seal failed

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 15 DATE: 29/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
15/92	2983.0	2962.0	PT	HP SCH	Y N	A G	4868	9.60			4862	9.59	Seal failed
15/93	2984.0	2963.0	PT	HP SCH	Y N	A G	4863	9.59	4345.4 4309	8.63 8.55	4862	9.58	Valid
15/94	2976.5	2955.5	PT	HP SCH	Y N	A G	4853	9.59	4326.0 4280	8.61 8.52	4850	9.58	Valid
15/95	2966.8	2945.8	PT	HP SCH	Y N	A G	4831	9.58	4326.7 4278	8.64 8.54	4837	9.59	Valid
15/96	2948.0	2927.0	PT	HP SCH	Y N	A G	4797	9.57	4293.2 4261	8.63 8.56	4805	9.59	Valid
15/97	2935.5	2914.5	PT	HP SCH	Y N	A G	4785	9.59	4266.5 4231	8.61 8.54	4786	9.59	Valid
15/98	2889.0	2868.0	PT	HP SCH	Y N	A G	4703	9.58			4718	9.61	Tight, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 15 DATE: 29/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
15/99	2888.7	2867.7	PT	HP SCH	Y N	A G	4716	9.60	4170.1 4130	8.55 8.47	4711	9.59	Valid
15/100	2875.0	2854.0	PT	HP SCH	Y N	A G	4691	9.60			4690	9.60	Tight, invalid
15/101	2849.0	2828.0	PT	HP SCH	Y N	A G	4643	9.59	4121.7 4098	8.57 8.52	4640	9.58	Valid
15/102	2838.0	2817.0	PT	HP SCH	Y N	A G	4625	9.59	4110.0 4073	8.58 8.51	4631	9.60	Valid
15/103	2834.0	2813.0	PT	HP SCH	Y N	A G	4626	9.60	4102.5 4068		4626	9.60	Valid
15/104	2830.0	2809.0	PT	HP SCH	Y N	A G	4623	9.61			4627	9.62	Tight, invalid
15/105	2830.5	2809.5	PT	HP SCH	Y N	A G	4624	9.61	4097.1 4060	8.58 8.50	4622	9.61	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 15 DATE: 29/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
15/106	2823.5	2802.5	PT	HP SCH	Y N	A G	4609	9.60	4079.8 4048	8.56 8.50	4609	9.60	Valid
15/107	2821.5	2800.5	PT	HP SCH	Y N	A G	4605	9.60	4078.4 4045	8.57 8.50	4605	9.60	Valid
15/108	2817.5	2796.5	PT	HP SCH	Y N	A G	4600	9.60	4079.9 4044	8.58 8.51	4600	9.60	Valid
15/109	2814.5	2793.5	PT	HP SCH	Y N	A G	4601	9.62	4079.0 4044	8.59 8.52	4596	9.61	Valid
15/110	2806.5	2785.5	PT	HP SCH	Y N	A G	4582	9.60			4583	9.61	Seal failed, Invalid
15/111	2806.7	2785.7	PT	HP SCH	Y N	A G	4582	9.60			4585	9.61	Tight, invalid
15/112	2793.0	2772.0	PT	HP SCH	Y N	A G	4560	9.60	4012.7 3981	8.52 8.45	4560	9.60	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 15 DATE: 29/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
15/113	2776.5	2755.5	PT	HP SCH	Y N	A G	4529	9.60			4537	9.61	Tight, invalid
15/114	2776.3	2755.3	PT	HP SCH	Y N	A G	4532	9.60	3994.8 3958	8.53 8.45	4535	9.61	Valid
15/115	2767.0	2746.0	PT	HP SCH	Y N	A G	4523	9.62			4521	9.61	No seal, invalid
15/116	2766.7	2745.7	PT	HP SCH	Y N	A G	4522	9.61	3989.6 3952	8.55 8.47	4521	9.61	Valid
15/117	2761.5	2740.5	PT	HP SCH	Y N	A G	4508	9.60			4511	9.61	Tight, invalid
15/118	2762.0	2741.0	PT	HP SCH	Y N	A G	4510	9.61			4511	9.61	Seal failed, invalid
15/119	2759.0	2738.0	PT	HP SCH	Y N	A G	4508	9.61			4509	9.61	Tight, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 15 & 16 DATE: 29 & 30/8/82 OBSERVERS: W. Mudge/ D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
15/120	2756.0	2735.0	PT	HP SCH	Y N	A G	4501	9.61	3982.8 3953	8.57 8.50	4504	9.61	Valid
15/121	2736.5	2715.5	PT	HP SCH	Y N	A G	4469	9.61			4473	9.62	Poor seal, invalid
15/122	2736.3	2715.3	PT	HP SCH	Y N	A G	4476	9.62	3941.5 3905	8.54 8.46	4473	9.62	Valid
15/123	2728.5	2707.5	PT	HP SCH	Y N	A G	4461	9.62			4461	9.62	Tool failed
16/124	2728.5	2707.5	PT	HP SCH	Y N	A G	4454	9.60			4458	9.61	Tight, invalid
16/125	2722.3	2701.3	PT	HP SCH	Y N	A G	4450	9.62			4446	9.61	Seal failed, invalid
16/126	2722.8	2701.8	PT	HP SCH	Y N	A G	4446	9.61			4450	9.61	Tight, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 16 DATE: 30/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
16/127	2716.0	2695.0	PT	HP SCH	Y N	A G	4436	9.61			4435	9.61	Seal failed, invalid
16/128	2715.6	2694.6	PT	HP SCH	Y N	A G	4436	9.61			4440	9.62	Tight, invalid
16/129	2716.5	2695.5	PT	HP SCH	Y N	A G	4437	9.61	3914.7 3881	8.54 8.47	4436	9.61	Valid
16/130	2706.5	2685.5	PT	HP SCH	Y N	A G	4421	9.61	Fluctuating 3790	8.30	4420	9.61	Invalid
16/131	2701.5	2680.5	PT	HP SCH	Y N	A G	4410	9.60	3835.6 3802	8.42 8.34	4411	9.60	Valid
16/132	2695.5	2674.5	PT	HP SCH	Y N	A G	4401	9.60	3800.3 3771	8.36 8.29	4400	9.60	Valid
16/133	2980.5	2959.5	PT	HP SCH	Y N	A G	4912	9.69			4868	9.61	Slow leak Invalid.

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 16 & 17 DATE: 30/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP psi	IHP ppg	FM. PRESS psi	FM. PRESS ppg	FHP psi	FHP ppg	TEST RESULT
16/134	2981.0	2960.0	PT	HP SCH	Y N	A G	4864	9.60					Tight, invalid
16/135	2984.0	2963.0	PT	HP SCH	Y N	A G	4862	9.58			4860	9.58	Slow leak, Invalid
16/136	2984.5	2963.5	SPT	HP SCH	Y N	A G	4862	9.58	Not stabilised 4357	8.65	4865	9.59	Pretest invalid, took unsegregated sample
16/137	2968.0	2947.0	SPT	HP SCH	Y N	A G	4832	9.58	4324.6 4274	8.63 8.53	4834	9.58	Pretest invalid, took unsegregated sample
17/138	2948.0	2927.0	PT	HP SCH	Y N	A G	4815	9.61			4812	9.60	Seal failed Invalid
17/139	2947.8	2926.8	SPT	HP SCH	Y N	A G	4807	9.59	4294.4 4258	8.63 8.56	4803	9.58	Pretest valid, took segregated sample
18/140	2830.5	2809.5	SPT	HP SCH	Y N	A G	4620	9.60	Not stabilised 4068	8.52	4620	9.60	Pretest invalid,attemp ted unsegregated sampl

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 18,19, & 20 DATE: 30 & 31/8/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP psi	IHP ppg	FM. PRESS psi	FM. PRESS ppg	FHP psi	FHP ppg	TEST RESULT
18/141	2830.7	2809.7	SPT	HP SCH	Y N	A G	4620	9.60			4621	9.60	Pretest invalid, reopened same chamber as above
18/142	2830.6	2809.6	SPT	HP SCH	Y N	A G	4618	9.60			4615	9.60	Pretest invalid, reopened same chamber as above
19/143	2834.0	2813.0	PT	HP SCH	Y N	A G	4635	9.62	Not stabilised 4076	8.52	4633	9.62	Pretest tight, Invalid
19/144	2833.0	2812.0	PT	HP SCH	Y N	A G	4638	9.63	4092.6 4059	8.56 8.49	4633	9.62	Valid
19/145	2833.5	2812.5	SPT	HP SCH	Y N	A G	4634	9.62	4095.5 4066	8.57 8.50	4626	9.60	Pretest valid, attempted segregated sample
19/146	2833.5	2812.5	SPT	HP SCH	Y N	A G	4633	9.62	Not stabilised Not stabilised		4629	9.61	Pretest invalid, took segregated sample
20/147	2701.5	2680.5	SPT	HP SCH	Y N	A G	4424	9.63	3816.1 3792	8.37 8.32	4416	9.62	Pretest valid, took segregated sample

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 21, 22 & 23 DATE: 31/8 & 1/9/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP psi	IHP ppg	FM. PRESS psi	FM. PRESS ppg	FHP psi	FHP ppg	TEST RESULT
21/148	2706.2	2685.2	SPT	HP SCH	Y N	A G	4420	9.61	Not stabilised 3812	 8.35	4421	9.61	Pretest invalid, too tight to sample
21/149	2706.5	2685.5	SPT	HP SCH	Y N	A G	4420	9.61			4424	9.68	Pretest invalid, too tight to sample
21/150	2706.0	2685.0	SPT	HP SCH	Y N	A G	4422	9.61			4424	9.62	Pretest invalid, too tight to sample
21/151	2706.2	2685.2	SPT	HP SCH	Y N	A G	4423	9.61	3834.1 3809	8.40 8.34	4420	9.61	Pretest valid, took segregated sample
22/152	2716.0	2695.0	PT	HP SCH	Y N	A G	4441	9.62					Tight, invalid
22/153	2715.5	2694.5	SPT	HP SCH	Y N	A G	4441	9.62	3881.6 3859	8.47 8.42	4431	9.60	Pretest valid, took segregated sample
23/154	2756.2	2735.2	SPT	HP SCH	Y N	A G	4534	9.68	Not stabilised 3965	 8.53	4527	9.66	Pretest invalid, took segregated sample

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 4 RUN NO: 24,25, & 26 DATE: 1 & 9/7/82 OBSERVERS: W. Mudge/D. Moreton

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP psi	IHP ppg	FM. PRESS psi	FM. PRESS ppg	FHP psi	FHP ppg	TEST RESULT
24/155	2695.5	2674.5	SPT	HP SCH	Y N	A G	4433	9.67	3805.6 3779	8.37 8.31	4421	9.65	Pretest valid, took segregated sample
25/156	2849.0	2827.0	SPT	HP SCH	Y N	A G	4673	9.65			4672	9.65	Tight, invalid, too tight to sample
25/157	2849.2	2828.2	SPT	HP SCH	Y N	A G	4672	9.64	4133.5 4107	8.60 8.54	4663	9.63	Pretest valid, took segregated sample
26/158	3200.0	3179.0	PT	HP SCH	Y N	A G	5232	9.62			5231	9.62	Tight, invalid.
26/159	3198.0	3177.0	PT	HP SCH	Y N	A G	5221	9.60	4829.7 4799	8.94 8.89	5216	9.59	Valid
26/160	3196.1	3175.1	PT	HP SCH	Y N	A G	5218	9.60	4845.7 4820	8.98 8.93	5212	9.59	Valid
26/161	3196.2	3175.2	PT	HP SCH	Y N	A G	5217	9.60	5069.1 5043	9.39 9.34	5212	9.59	Valid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 5 RUN NO: 26 DATE: 7/9/82 OBSERVERS: N. Davidson/B. Crowther

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
26/162	3197.7	3176.7	PT	HP SCH	Y N	A G	5218	9.60			5218	9.60	Tight, invalid
26/163	3198.4	3177.4	SPT	HP SCH	Y N	A G	5216	9.59	4836.5 4809	8.95 8.90	5220	9.60	Pretest valid, took unsegregated sample
26/164	3196.2	3175.2	SPT	HP SCH	Y N	A G	5213	9.59	5064.3 5039	9.38 9.33	5215	9.60	Pretest valid, re-opened same chamber as above
26/165	3080.0	3059.0	PT	HP SCH	Y N	A G	5023	9.59	4492.5 4464	8.64 8.58	5025	9.60	Valid
26/166	3080.5	3059.5	PT	HP SCH	Y N	A G	5030	9.61	4500.0 4468	8.65 8.59	5031	9.61	Valid
26/167	3066.7	3045.7	PT	HP SCH	Y N	A G	Fluctuating		4515.4 4492	8.72 8.68	Fluctuating		Slow leak
26/168	3070.2	3049.2	PT	HP SCH	Y N	A G	5017	9.61			Fluctuating		Seal failed

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 5 RUN NO: 26 & 27 DATE: 7/9/82 OBSERVERS: N. Davidson/B. Crowther

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP psi	IHP ppg	FM. PRESS psi	FM. PRESS ppg	FHP psi	FHP ppg	TEST RESULT
26/169	3070.2	3049.2	PT	HP SCH	Y N	A G	Fluctuating				Fluctuating		Tight, invalid
26/170	3080.5	3059.5	SPT	HP SCH	Y N	A G	5034	9.61			Fluctuating		Tight, sample not attempted
26/171	3066.7	3045.7	SPT	HP SCH	Y N	A G	Fluctuating		4516.4 4491	8.72 8.67	Fluctuating		Pretest valid, took unsegregated sample
26/172	3026.2	3005.2	PT	HP SCH	Y N	A G	Fluctuating59				Fluctuating		Tight, invalid
26/173	3016.1	3995.1	PT	HP SCH	Y N	A G	Fluctuating		4414.4 4401	8.61 8.58	Fluctuating		Valid
26/174	3197.7	3176.7	PT	HP SCH	Y N	A G	5219	9.60			5216	9.59	Tight, invalid
27/175	3016.1	2995.1	PT	HP SCH	Y N	A G	4933	9.62					Seal failed, invalid

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT PRETEST PRESSURES - BREAM 5

SERVICE COMPANY: Schlumberger SUITE NO: 5 RUN NO: 27 DATE: 8/9/822 OBSERVERS: N. Davidson/B. Crowther

SEAT NO.	DEPTH (m)	DEPTH (SS) (m)	REASON 1 FOR TEST	GAUGE 2	TEMP 3 CORR.	UNITS 4	IHP		FM. PRESS		FHP		TEST RESULT
							psi	ppg	psi	ppg	psi	ppg	
27/176	3016.2	2995.2	SPT	HP	Y	A	4931	9.62	4421.2	8.68	Fluctuating		Pretest valid, took segregated sample
				SCH	N	G			4398	8.64			

1. Pressure Test = PT
   Sample & Pressure = SPT

2. Gauges = SCH = Schlumberger Strain Gauge
   = HP = Hewlett Packard

3. Yes = Y
   No = N

4. PSIA = A
   PSIG = G

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: L. Finlayson DATE: 12/8/82 SUITE NO: 2 RUN NO: 2

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	15	15
DEPTH	1937.0 m	1937.0 m
A. RECORDING TIMES		
Tool Set	0945 hrs	
Pretest Open	0949 hrs	
Time Open	5 min	
Chamber Open	0954 hrs	1034 hrs
Chamber Full	1032 hrs	1056 hrs
Fill Time	37 mins	22 mins
Start Build up	1032 hrs	1056 hrs
Finish Build up	1032 hrs	1056 hrs
Build Up Time		
Seal Chamber	1032 hrs	1056 hrs
Tool Retract	Did not retract probe	1057 hrs
Total Time	47 min	23 min
B. SAMPLE PRESSURES	psia	psia
IHP	3259	
ISIP	2751.5	2713.6
Initial Flowing Press.	509	766
Final Flowing Press.	1505	1519
Sampling Press. Range	996	753
FSIP	2713.6	2717.7
FHP	Did not retract probe	3240
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	1966 m	1966 m
Max.Rec. Temp.	77.6 °C	77.8 °C
Time Circ. Stopped	11/8/82 @ 2230 hrs	11/8/82 @ 2230 hrs
Time since Circ.	11.5 hrs	12 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1000 psig	1000 psig
Amt Gas	50.2 ft^3/ 1422 lit.	27.6 ft^3/ 782 lit.
Amt Condensate	0.10 lit.	0.05 lit.
Amt Water	6.00 lit.	1.25 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1	220488 ppm	118118 ppm
C2	18391 ppm	23679 ppm
C3	6543 ppm	7992 ppm
IC4/nC4	10097 ppm	11786 ppm
C5	3942 ppm	4885 ppm
C6+	3494 ppm	3494 ppm
CO2/H2S	Nil/Nil ppm	Nil/Nil ppm
Condensate Properties	50° API @ 15.5°C	50° API @ 15.6°C
Colour		
Fluorescence	Bright blue white	
GOR (Bbl Cond/MMScf gas)	12.5	11.5
Water Properties		
Resistivity	0.280 ohm m @ 15.5°C	0.275 ohm m @ 15.5°C
NaCl Equivalent	11000 ppm	11000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	8.5 / 50 ppm	8.5 / 80 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.291 ohm m @ 18.8°C	0.291 ohm m @ 18.8°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	18000 ppm	18000 ppm
pH/Nitrates	10.5 / 200 ppm	10.5 / 200 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.5 ppg	9.5 ppg
Calc.Hydrostatic	3139 psi	3139 psi
RFT Chokesize	0.76 mm	0.51 mm
REMARKS:	Chamber sealed, then re-opened, chamber sealed before full.	Chamber sealed before full

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: A. Lindsay DATE: 12/8/82 SUITE NO: 2 RU:

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (3.
SEAT NO.	16	16
DEPTH	1940.0 m	1940.
A. RECORDING TIMES		
Tool Set	1528 hrs	
Pretest Open	1532 hrs	
Time Open	4 min	
Chamber Open	1536 hrs	1548 hrs
Chamber Full	1543 hrs	1551 hrs
Fill Time	7 mins	3 mins
Start Build up	1543 hrs	1551 hrs
Finish Build up	1547 hrs	1554 hrs
Build Up Time	4 mins	3 mins
Seal Chamber	1547 hrs	1554 hrs
Tool Retract	Did not retract probe	1555 hr
Total Time	19 mins	7 m
B. SAMPLE PRESSURES	psia	psia
IHP	3268	
ISIP	2752.3	2751.6
Initial Flowing Press.	2250	2590
Final Flowing Press.	2220	2582
Sampling Press. Range	30	8
FSIP	2751.6	2751.
FHP	Did not retract probe	3249
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	1966 m	1966 m
Max.Rec. Temp.	80.1 °C	82.2 °C
Time Circ. Stopped	11/8/82 @ 2230 hrs	11/8/82 @ 2230 hrs
Time since Circ.	17 hrs	17.25 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1460 psig	
Amt Gas	69.2 ft^3/ 1960 lit.	
Amt Oil	14.00 lit.	
Amt Water		
Amt Others (Mud)	0.50 lit.	
E. SAMPLE PROPERTIES		
Gas Composition		
C1	206707 ppm	
C2	31034 ppm	
C3	13086 ppm	
IC4/nC4	16407 ppm	
C5	4957 ppm	
C6+	3494 ppm	
CO2/H2S	2.0%/20 ppm	
Oil Properties	46.2° API @ 15.6°C	
Colour	Brown black	
Fluorescence	Bright white	
GOR / Pour Point	786 / 8.0 °C	
Water Properties		
Resistivity		
NaCl Equivalent		
Cl-titrated	1000 ppm	
pH/Nitrates	8.0 /100 ppm	
Est. Water Type		
Mud Properties		
Resistivity	0.291 ohm m @ 18.8°C	
NaCl Equivalent	24000 ppm	
Cl-titrated	18000 ppm	
pH/Nitrates	10.5 / 200 ppm	
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.5 ppg	
Calc.Hydrostatic	3133 psi	
RFT Chokesize	0.76 mm	

REMARKS:

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RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: L. Finlayson DATE: 12/8/82 SUITE NO: 2 RUN NO: 4

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	18	18
DEPTH	1951.3 m	1951.3 m
A. RECORDING TIMES		
Tool Set	1855 hrs	
Pretest Open	1900 hrs	
Time Open	5 min	
Chamber Open	1905 hrs	1956 hrs
Chamber Full	1955 hrs	2020 hrs
Fill Time	Not filled	Not filled
Start Build up	1955 hrs	2020 hrs
Finish Build up		
Build Up Time		
Seal Chamber	1955 hrs	2020 hrs
Tool Retract	Did not retract probe	2021 hrs
Total Time	60 min	25 min
B. SAMPLE PRESSURES	psia	psia
IHP	3282	
ISIP	2766.6	
Initial Flowing Press.	36	270
Final Flowing Press.	410	388
Sampling Press. Range	374	118
FSIP	Not stabilized	Not stabilized
FHP	Did not retract probe	3262
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	1966 m	1966 m
Max.Rec. Temp.	84.8 °C	84.8 °C
Time Circ. Stopped	11/8/82 @ 2230 hrs	11/8/82 @ 2230 hrs
Time since Circ.	20.25hrs	21.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	300 psig	250 psig
Amt Gas	8.2 ft^3/ 232 lit.	4.8 ft^3/ 136 lit.
Amt Oil	2.50 lit.	oil
Amt Water	6.00 lit.	emulsion 2.50 lit.
Amt Others	Emulsion 1.50 lit.	filtrate
E. SAMPLE PROPERTIES		
Gas Composition		
C1	354355 ppm	275610 ppm
C2	68966 ppm	68966 ppm
C3	52347 ppm	40906 ppm
1C4/nC4	16096 ppm	15145 ppm
C5	15913 ppm	13945 ppm
C6+	6989 ppm	6989 ppm
CO2/H2S	2.2%/20 ppm	2.7%/25 ppm
Condensate Properties	36.2°API @ 15.6°C	36.2°API @ 15.6°C
Colour	Dark brown	Dark brown
Fluorescence	Bright blue white	Bright blue white
GOR/Pour Point	522/ 7.0 °C	5.0 °C
Water Properties		
Resistivity		
NaCl Equivalent		
Cl-titrated	15000 ppm	
pH/Nitrates	7.5 / 40 ppm	
Est. Water Type		
Mud Properties		
Resistivity	0.291 ohm m @ 18.8°C	0.291 ohm m @ 18.8°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	18000 ppm	18000 ppm
pH/Nitrates	10.5 / 200 ppm	10.5 / 200 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.5 ppg	9.5 ppg
Calc.Hydrostatic	3151 psi	3151 psi
RFT Chokesize	0.76 mm	0.51 mm

REMARKS: Sealed and reopened chamber after 18 min.

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: A. Lindsay DATE: 12-13/8/82 SUITE NO: 2 RUN NO: 5

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	24	24
DEPTH	1961.9 m	1961.9 m
A. RECORDING TIMES		
Tool Set	2346 hrs	
Pretest Open	2346 hrs	
Time Open	5 min	
Chamber Open	2351 hrs	0008 hrs
Chamber Full	0008 hrs	0019 hrs
Fill Time	17 mins	11 mins
Start Build up	0007 hrs	0014 hrs
Finish Build up	0008 hrs	0020 hrs
Build Up Time	1 min	6 min
Seal Chamber	0008 hrs	0020 hrs
Tool Retract	Did not retract probe	0021 hrs
Total Time	22 min	13 min
B. SAMPLE PRESSURES	psia	psia
IHP	3304	
ISIP	2771.9	2770
Initial Flowing Press.	1050	1461
Final Flowing Press.	2770	2769
Sampling Press. Range	1720	1308
FSIP	2770	2769.3
FHP	Did not retract probe	3274
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	1966 m	1966 m
Max.Rec. Temp.	84.3 °C	88.3 °C
Time Circ. Stopped	11/8/82 @ 2230 hrs	11/8/82 @ 2230 hrs
Time since Circ.	25 hrs	25.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	210 psig	300 psig
Amt Gas	0.7 ft^3/ 20 lit.	0.5 ft^3/ 14 lit..
Amt Oil		
Amt Water/Filtrate	21.50	9.30 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1	409477 ppm	362229 ppm
C2	55173 ppm	24138 ppm
C3	34897 ppm	13904 ppm
IC4/nC4	7572 ppm	2840 ppm
C5	985 ppm	246 ppm
C6+	123 ppm	82 ppm
CO2/H2S	2.0%/Nil ppm	1.8%/22 ppm
Condensate Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.260 ohm m @ 19.4°C	0.260 ohm m @ 18.9°C
NaCl Equivalent	27000 ppm	27000 ppm
Cl-titrated		
pH/Nitrates		
Est. Water Type		
Mud Properties		
Resistivity	0.291 ohm m @ 18.8°C	0.291 ohm m @ 18.8°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	18000 ppm	18000 ppm
pH/Nitrates	10.5 / 200 ppm	10.5 / 200 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.5 ppg	9.5 ppg
Calc.Hydrostatic	3168 psi	3168 psi
RFT Chokesize	0.76 mm	0.51 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: A. Lindsay DATE: 22/8/82 SUITE NO: 3 RUN NO: 7

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (3.8 lit.)
SEAT NO.	56	56
DEPTH	2662.0 m	2662.0 m
A. RECORDING TIMES		
Tool Set	1946 hrs	
Pretest Open	1946 hrs	
Time Open	2 min	
Chamber Open	1948 hrs	2019 hrs
Chamber Full	2001 hrs	2023 hrs
Fill Time	13 mins	4 mins
Start Build up	2001 hrs	2023 hrs
Finish Build up	2017 hrs	2030 hrs
Build Up Time	16 min	7 min
Seal Chamber	2017 hrs	2030 hrs
Tool Retract	Did not retract probe	2034 hrs
Total Time	31 min	15 min
B. SAMPLE PRESSURES	psia	psia
IHP	4441	
ISIP	3799.9	Not stabilised 3786
Initial Flowing Press.	650	2547
Final Flowing Press.	3783	3790
Sampling Press. Range	3133	1243
FSIP	Not stabilised 3786	3798.1
FHP	Did not retract probe	Not stabilised 4435
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2680 m	2680 m
Max.Rec. Temp.	123.3 °C	123.3 °C
Time Circ. Stopped	22/8/82 @ 0230 hrs	22/8/82 @ 0230 hrs
Time since Circ.	17.25 hrs	17.25 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1675 psig	1900 psig
Amt Gas	77 ft^3/ 2180 lit.	20.3 ft^3/ 575 lit.
Amt Condensate	0.30 lit.	0.03 lit.
Amt Water	8.50 lit.	0.40 lit.
Amt Others - Mud	trace	trace
E. SAMPLE PROPERTIES		
Gas Composition		
C1	226935 ppm	235340 ppm
C2	15463 ppm	17553 ppm
C3	6724 ppm	8504 ppm
IC4/nC4	2348 ppm	2972 ppm
C5	637 ppm	978 ppm
C6+	111 ppm	325 ppm
CO2/H2S	5.0%/10 ppm	6.0%/ 2 ppm
Condensate Properties	45.1°API @ 15.6°C	44.1°API @ 15.6°C
Colour	Light brown	Medium brown
Fluorescence	Bright blue white	Bright blue white
GOR (Bbl Cond/MMScf gas)	22.4	10.5
Water Properties		
Resistivity	0.240 ohm m @ 19.0°C	0.240 ohm m @ 23.0°C
NaCl Equivalent	30000 ppm	27000 ppm
Cl-titrated	16500 ppm	15000 ppm
pH/Nitrates	8.0 / 70 ppm	8.0 /trace ppm
Est. Water Type		
Mud Properties		
Resistivity	0.280 ohm m @ 21.0°C	0.280 ohm m @ 21.0°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	19500 ppm	19500 ppm
pH/Nitrates	10.5 / 110 ppm	10.5 / 110 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4344 psi	4344 psi
RFT Chokesize	0.76 mm	0.51 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 23/8/82 SUITE NO: 3 RUN NO: 9

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	61	61
DEPTH	2692.0 m	2692.0 m
A. RECORDING TIMES		
Tool Set	1500 hrs	
Pretest Open	1500 hrs	
Time Open	4 min	
Chamber Open	1504 hrs	1540 hrs
Chamber Full	1537 hrs	1558 hrs
Fill Time	33 mins	18 mins
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	1537 hrs	1558 hrs
Tool Retract	Did not retract probe	1600 hrs
Total Time	37 min	20 min
B. SAMPLE PRESSURES	psia	psia
IHP	4496	
ISIP	3803.5	3796.2
Initial Flowing Press.	76	1135
Final Flowing Press.	3788	3785
Sampling Press. Range	3712	2650
FSIP	3796.2	3791.7
FHP	Did not retract probe	4477
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2692 m	2692 m
Max.Rec. Temp.	117 °C	117 °C
Time Circ. Stopped	23/8/82 @ 0845 hrs	23/8/82 @ 0845 hrs
Time since Circ.	6.5 hrs	7 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1500 psig	1450 psig
Amt Gas	57.7 ft^3/ 1634 lit.	30.3 ft^3/ 858 lit.
Amt Oil (Emulsion)	19.00 lit.	5.60 lit.
Amt Water		
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1	798474 ppm	819487 ppm
C2	54330 ppm	50150 ppm
C3	27686 ppm	25709 ppm
IC4/nC4	7430 ppm	6538 ppm
C5	1933 ppm	1819 ppm
C6+	464 ppm	371 ppm
CO2/H2S	8.0%/Nil ppm	7.5%/Nil ppm
Oil Properties	39.8°API @ 15.6°C	40.0°API @ 15.6°C
Colour	Light brown	Light brown
Fluorescence	Milky white	Milky white
GOR (Scf/bbl) Pour Point	483 / 5.0°C	860 / 5.0°C
Water Properties		
Resistivity	Water not separated from oil at wellsite	
NaCl Equivalent		
Cl-titrated		
pH/Nitrates		
Est. Water Type		
Mud Properties		
Resistivity	0.280 ohm m @ 21.0°C	0.280 ohm m @ 21.0°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	19500 ppm	19500 ppm
pH/Nitrates	10.5 / 110 ppm	10.5 / 110 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4393 psi	4393 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 23/8/82 SUITE NO: 3 RUN NO: 10

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	62	62
DEPTH	2670.0 m	2670.0 m
A. RECORDING TIMES		
Tool Set	2047 hrs	
Pretest Open	2047 hrs	
Time Open	8 min	
Chamber Open	2055 hrs	2117 hrs
Chamber Full	2102 hrs	2121 hrs
Fill Time	7 min	4 min
Start Build up	2102 hrs	2121 hrs
Finish Build up	2111 hrs	2127 hrs
Build Up Time	9 min	6 min
Seal Chamber	2115 hrs	2127 hrs
Tool Retract	Did not retract probe	2127 hrs
Total Time	28 min	10 min
B. SAMPLE PRESSURES	psia	psia
IHP	4459	
ISIP	3810.4	Not stabilised 3800
Initial Flowing Press.	103	151
Final Flowing Press.	3797	3789
Sampling Press. Range	3694	3638
FSIP	Not stabilised 3800	Not stabilised 3795
FHP	Did not retract probe	4443
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2670 m	2670 m
Max.Rec. Temp.	123 °C	123 °C
Time Circ. Stopped	23/8/82 @ 0845 hrs	23/8/82 @ 0845 hrs
Time since Circ.	12.75 hrs	12.75 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	300 psig	300 psig
Amt Gas	1.6 ft^3/ 45 lit.	0.8 ft^3/ 23 lit.
Amt Oil		
Amt Water/Filtrate	20.50 lit.	8.60 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1	483287 ppm	451768 ppm
C2	27165 ppm	20896 ppm
C3	10877 ppm	6922 ppm
IC4/nC4	2675 ppm	2080 ppm
C5	767 ppm	568 ppm
C6+	340 ppm	371 ppm
CO2/H2S	7.0%/Nil ppm	9.0%/Nil ppm
Condensate Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.250 ohm m @ 16.0°C	0.250 ohm m @ 15.0°C
NaCl Equivalent	32000 ppm	32000 ppm
Cl-titrated	20000 ppm	23000 ppm
pH/Nitrates	8.0 / 30 ppm	7.5 /100 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.280 ohm m @ 21.0°C	0.280 ohm m @ 21.0°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	19500 ppm	19500 ppm
pH/Nitrates	10.5 / 110 ppm	10.5 / 110 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4357 psi	4357 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 24/8/82 SUITE NO: 3 RUN NO: 11

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	65	65
DEPTH	2558.0 m	2558.0 m
A. RECORDING TIMES		
Tool Set	0118 hrs	
Pretest Open	0118 hrs	
Time Open	6 mins	
Chamber Open	0124 hrs	0134 hrs
Chamber Full	0130 hrs	0137 hrs
Fill Time	6 mins	3 mins
Start Build up	0130 hrs	0137 hrs
Finish Build up	0133 hrs	0140 hrs
Build Up Time	3 mins	3 mins
Seal Chamber	0133 hrs	0140 hrs
Tool Retract	Did not retract probe	0140 hrs
Total Time	15 mins	6 mins
B. SAMPLE PRESSURES	psia	psia
IHP	4261	
ISIP	3633.5	3634.6
Initial Flowing Press.	1271	2308
Final Flowing Press.	3634	3634
Sampling Press. Range	2363	1326
FSIP	3634	3634.0
FHP	Did not retract probe	4263
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2608 m	2608 m
Max.Rec. Temp.	116.0 °C	116.0 °C
Time Circ. Stopped	23/8/82 @ 0845 hrs	23/8/82 @ 0845 hrs
Time since Circ.	17 hrs	17 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1875 psig	1800 psig
Amt Gas	125.9 ft^3/3565 lit.	58.4 ft^3/1654 lit.
Amt Oil		
Amt Water/Filtrate	2.00 lit.	0.19 lit.
Amt Others/Condensate	0.50 lit.	0.17 lit.
E. SAMPLE PROPERTIES		
Gas Composition		
C1	829992 ppm	908789 ppm
C2	37090 ppm	37090 ppm
C3	17303 ppm	15452 ppm
1C4/nC4	4086 ppm	4160 ppm
C5	1358 ppm	1136 ppm
C6+	650 ppm	378 ppm
CO2/H2S	6.0%/4 ppm	7.0%/3 ppm
Oil Properties		
Colour	Yellow brown	Yellow brown
Fluorescence	White	White
GOR (Bbl Cond/MMScf gas)	100	20
Water Properties		
Resistivity	0.380 ohm m @ 16.0°C	0.330 ohm m @ 18.0°C
NaCl Equivalent	21000 ppm	23000 ppm
Cl-titrated	13000 ppm	19000 ppm
pH/Nitrates	7.5 / 80 ppm	8.5 / 30 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.280 ohm m @ 21.0°C	0.280 ohm m @ 21.0°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	19500 ppm	19500 ppm
pH/Nitrates	10.5 / 100 ppm	10.5 / 100 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4175 psi	4175 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE — BREAM 5

OBSERVER: W. Mudge — DATE: — SUITE NO: 3 — RUN NO: 12

	CHAMBER 1 (10.4 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.		71
DEPTH		2495.5 m
A. RECORDING TIMES		
Tool Set		
Pretest Open		
Time Open		
Chamber Open		0645 hrs
Chamber Full		0648 hrs
Fill Time		3 min
Start Build up		0648 hrs
Finish Build up		0649 hrs
Build Up Time		1 min
Seal Chamber		0649 hrs
Tool Retract	Did not obe	0652 hrs
Total Time		7 min
B. SAMPLE PRESSURES		psia
IHP		
ISIP		3534
Initial Flowing Press.		475
Final Flowing Press.		2598
Sampling Press. Range		2123
FSIP		3533.7
FHP	Did not obe	4162
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached		2538 m
Max.Rec. Temp.		115 °C
Time Circ. Stopped	23/8/82	23/8/82 @ 0845 hrs
Time since Circ.		22 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure		1000 psig
Amt Gas	27 ft³	19.3 ft³/ 546 lit.
Amt Oil and emulsion	t.	7.00 lit.
Amt Water	t.	1.25 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1		872018 ppm
C2		85614 ppm
C3		59822 ppm
IC4/nC4		16049 ppm
C5		4263 ppm
C6+		1207 ppm
CO2/H2S	6.5%	7.0%/trace ppm
Oil Properties	37.5°API	35.1°API @ 15.6°C
Colour	Light	Light brown
Fluorescence	Milky	Milky white
GOR (Scf gas/bbl)		438
Water Properties		
Resistivity	0.290 °C	0.260 ohm m @ 15.0°C
NaCl Equivalent		30000 ppm
Cl-titrated		17000 ppm
pH/Nitrates	8.	8.5 / 50 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.280 °C	0.280 ohm m @ 21.0°C
NaCl Equivalent		24000 ppm
Cl-titrated		19500 ppm
pH/Nitrates	10.5	10.5 / 100 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight		9.6 ppg
Calc.Hydrostatic.		4073 psi
RFT Chokesize		0.76 mm

REMARKS: GOR calcul volume of emulsion.

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 24/8/82 SUITE NO: 3 RUN NO: 13

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	72	73
DEPTH	2477.0 m	2488.0 m
A. RECORDING TIMES		
Tool Set	1057 hrs	1137 hrs
Pretest Open	1057 hrs	1137 hrs
Time Open	10 min	7 min
Chamber Open	1108 hrs	1145 hrs
Chamber Full	1125 hrs	
Fill Time	17 min	
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	1130 hrs	1210 hrs
Tool Retract	1132 hrs	1215 hrs
Total Time	35 min	38 min
B. SAMPLE PRESSURES	psia	psia
IHP	4139	4150
ISIP	3528.7	3524.0
Initial Flowing Press.	300	304
Final Flowing Press.	3526	3522
Sampling Press. Range	3226	3218
FSIP	3526.4	3522.6
FHP	4131	4149
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2488 m	2488 m
Max.Rec. Temp.	114 °C	115 °C
Time Circ. Stopped	23/8/82 @ 0845 hrs	23/8/82 @ 0845 hrs
Time since Circ.	26.75 hrs	27.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1800 psig	1770 psig
Amt Gas	108.6 ft^3/ 3075 lit.	44.6 ft^3/1263 lit.
Amt Oil		
Amt Water/Filtrate	6.35 lit.	1.75 lit.
Amt Condensate	0.06 lit.	0.02 lit.
E. SAMPLE PROPERTIES		
Gas Composition		
C1	853142 ppm	815247 ppm
C2	46512 ppm	55277 ppm
C3	24047 ppm	36620 ppm
IC4/nC4	7227 ppm	9959 ppm
C5	1874 ppm	2405 ppm
C6+	306 ppm	491 ppm
CO2/H2S	3.0%/Nil ppm	7.0%/Nil ppm
Condensate Properties	46.9°API @ 15.6°C	44.4°API @ 15.6°C
Colour	Light orange brown	Light orange brown
Fluorescence	Blue - white	Blue - white
GOR (Bbl Cond/MMScf gas)	3.5	2.8
Water Properties		
Resistivity	0.270 ohm m @ 18.0°C	0.270 ohm m @ 17.0°C
NaCl Equivalent	27000 ppm	28000 ppm
Cl-titrated	15000 ppm	16000 ppm
pH/Nitrates	8.0 / 60 ppm	8.5 / 60 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.280 ohm m @ 21.0°C	0.028 ohm m @ 21.0°C
NaCl Equivalent	24000 ppm	24000 ppm
Cl-titrated	19500 ppm	19500 ppm
pH/Nitrates	10.5 / 100 ppm	10.5 / 100 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4042 psi	4060 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 24/8/82 SUITE NO: 3 RUN NO: 14

	CHAMBER 1 (22.7 lit.)			CHAMBER 2 (10.4 lit.)
SEAT NO.	77	78	79	80
DEPTH	2568.5	2568.2	2568.0	2562.0 m
A. RECORDING TIMES				
Tool Set	1607	1623	1725 hrs	1804 hrs
Pretest Open	1607	1624	1725 hrs	1804 hrs
Time Open	3	1	2 min	3 min
Chamber Open	1610	1625	1727 hrs	1807 hrs
Chamber Full				1811 hrs
Fill Time				4 min
Start Build up				
Finish Build up				
Build Up Time				
Seal Chamber	1618	1714	1750 hrs	1811 hrs
Tool Retract	1620	1718	1756 hrs	1812 hrs
Total Time	13	55	31 min	8 min
B. SAMPLE PRESSURES	psia	psia	psia	psia
IHP	4273	4274	4276	4257
ISIP	3642.1	3642.4	3644.0	3633.8
Initial Flowing Press.	38	52	64	3600
Final Flowing Press.	41	101	183	3606
Sampling Press. Range	3	49	119	6
FSIP		3641.3	3640.2	3634.5
FHP	4275	4272	4269	4259
Form.Press.(Horner)				
C. TEMPERATURE				
Depth Tool Reached		2568 m		2562 m
Max.Rec. Temp.		122.0 °C		122.0 °C
Time Circ. Stopped	23/8/82 @ 0845 hrs			23/8/82 @ 0845 hrs
Time since Circ.		33.25 hrs		33.5 hrs
Form. Temp.(Horner)				
D. SAMPLE RECOVERY				
Surface Pressure		5 psig		1800 psig
Amt Gas	0.2 ft^3/ 5.7 lit.			58 ft^3/1642 lit.
Amt Oil				
Amt Water/Filtrate		1.40 lit.		0.28 lit.
Amt Condensate				0.10 lit..
E. SAMPLE PROPERTIES				
Gas Composition				
C1		714424 ppm		877745 ppm
C2		41792 ppm		39676 ppm
C3		27686 ppm		21779 ppm
1C4/nC4		8322 ppm		7223 ppm
C5		2501 ppm		2590 ppm
C6+		835 ppm		987 ppm
CO2/H2S		3.0%/Nil ppm		5.0%/ 4 ppm
Oil Properties				43.2° API @ 15.6°C
Colour				Light yellow brown
Fluorescence				Brown to white
GOR (Bbl Cond/MMScf gas)				10.8
Water Properties				
Resistivity	0.260 ohm m @ 20.0°C			0.390 ohm m @ 19.5°C
NaCl Equivalent		26500 ppm		17500 ppm
Cl-titrated		17000 ppm		19000 ppm
pH/Nitrates		10.0 / 80 ppm		8.0 /Nil ppm
Est. Water Type				
Mud Properties				
Resistivity	0.280 ohm m @ 21.0°C			0.280 ohm m @ 21.0°C
NaCl Equivalent		24000 ppm		24000 ppm
Cl-titrated		19000 ppm		19500 ppm
pH/Nitrates		10.5 / 100 ppm		10.5 / 100 ppm
Calibration				
Calibration Press.				
Calibration Temp.				
Mud Weight		9.6 ppg		9.6 ppg
Calc.Hydrostatic		4191 psi		4181 psi
RFT Chokesize		0.76 mm		0.76 mm

REMARKS: Took sample from three depths.

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 30/8/82 SUITE NO: 4 RUN NO: 16

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	136	137
DEPTH	2984.5 m	2968.0 m
A. RECORDING TIMES		
Tool Set	0925 hrs	1105 hrs
Pretest Open	0925 hrs	1105 hrs
Time Open	5 min	5 min
Chamber Open	0930 hrs	1110 hrs
Chamber Full		
Fill Time		
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	1100 hrs	1145 hrs
Tool Retract	1107 hrs	1150 hrs
Total Time	42 min	45 min
B. SAMPLE PRESSURES	psia	psia
IHP	4862	4832
ISIP	Not stabilized	4324.6
Initial Flowing Press.	132	52
Final Flowing Press.	97	3999
Sampling Press. Range	35	3947
FSIP	Not stabilized	4325.3
FHP	4865	4834
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2984 m	2984 m
Max.Rec. Temp.	136.0 °C	136.0 °C
Time Circ. Stopped	29/8/82 @ 0930 hrs	29/8/82 @ 0930 hrs
Time since Circ.	25.5 hrs	27.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	5 psig	1750 psig
Amt Gas	0.1 ft^3/ 2.8 lit.	26.2 ft^3/ 742 lit.
Amt Oil		
Amt Water/Filtrate	3.70 lit.	5.5 lit.
Amt Condensate		Trace
E. SAMPLE PROPERTIES		
Gas Composition		
C1		843125 ppm
C2		45308 ppm
C3		16717 ppm
1C4/nC4		4715 ppm
C5		1278 ppm
C6+		289 ppm
CO2/H2S		8.0%/Nil ppm
Condensate Properties		41° API @ 15.6°C
Colour		Yellow gold
Fluorescence		Blue white
GOR		
Water Properties		
Resistivity	0.280 ohm m @ 18.0°C	0.270 ohm m @ 14.0°C
NaCl Equivalent	27000 ppm	31000 ppm
Cl-titrated	18000 ppm	9000 ppm
pH/Nitrates	7.5 / 18 ppm	7.5 / 9 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.290 ohm m @ 23.0°C	0.280 ohm m @ 23.0°C
NaCl Equivalent	23000 ppm	23000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.3 / 90 ppm	10.3 / 90 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4870 psi	4844 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 30/8/82 SUITE NO: 4 RUN NO: 17

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	139	139
DEPTH	2947.8 m	2947.8 m
A. RECORDING TIMES		
Tool Set	1545 hrs	
Pretest Open	1545 hrs	
Time Open	10 min	
Chamber Open	1555 hrs	1625 hrs
Chamber Full	1608 hrs	1630 hrs
Fill Time	13 min	5 min
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	1625 hrs	1640 hrs
Tool Retract	Did not retract probe	1645 hrs
Total Time	20 min	20 min
B. SAMPLE PRESSURES	psia	psia
IHP	4807	
ISIP	4294.4	
Initial Flowing Press.	852	416
Final Flowing Press.	4174	4230
Sampling Press. Range	3322	3814
FSIP	Not stabilized	4291.8
FHP	Did not retract probe	4803
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2848 m	2848 m
Max.Rec. Temp.	133.0 °C	133.0 °C
Time Circ. Stopped	29/8/82 @ 0930 hrs	29/8/82 @ 0930 hrs
Time since Circ.	31 hrs	31.25hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	1750 psig	1950 psig
Amt Gas	86.3 ft^3/ 2444 lit.	59.5 ft^3/ 1685 lit.
Amt Oil		
Amt Water/Filtrate	7.25 lit.	1.00 lit.
Amt Condensate	0.02 lit.	0.025 lit.
E. SAMPLE PROPERTIES		
Gas Composition		
C1	690341 ppm	945561 ppm
C2	38490 ppm	52926 ppm
C3	15645 ppm	21750 ppm
1C4/nC4	5175 ppm	6210 ppm
C5	1660 ppm	1982 ppm
C6+	655 ppm	471 ppm
CO2/H2S	8.0%/Nil ppm	7.0%/Nil ppm
Condensate Properties	41° API @ 15.6°C	41° API @ 15.6°C
Colour	Green yellow	Green yellow
Fluorescence	Blue white	Blue white
GOR (Bbl Cond/MMScf gas)	1.5	2.6
Water Properties		
Resistivity	0.290 ohm m @ 16.0°C	0.300 ohm m @ 13.0°C
NaCl Equivalent	27000 ppm	28500 ppm
Cl-titrated	15000 ppm	14500 ppm
pH/Nitrates	7.0 / 20 ppm	7.0 / 20 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.218 ohm m @ 17.7°C	0.218 ohm m @ 17.7°C
NaCl Equivalent	35000 ppm	35000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.3 / 90 ppm	10.3 / 90 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4811 psi	4811 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 30/8/82 SUITE NO: 4 RUN NO: 18

	CHAMBER 1 (22.7 lit.)			
SEAT NO.	140	141	142	
DEPTH	2830.5	2830.7	2830.6	m
A. RECORDING TIMES				
Tool Set	2130	2155	2207	hrs
Pretest Open	2130	2155	2207	hrs
Time Open	15	5	3	min
Chamber Open	2145	2200	2210	hrs
Chamber Full				
Fill Time				
Start Build up				
Finish Build up				
Build Up Time				
Seal Chamber	2150	2202	2304	hrs
Tool Retract	2153	2203	2308	hrs
Total Time	47	8	61	min
B. SAMPLE PRESSURES	psia	psia	psia	
IHP	4620	4620	4618	
ISIP				
Initial Flowing Press.	50	54	54	
Final Flowing Press.	270	79	246	
Sampling Press. Range	220	25	192	
FSIP				
FHP	4620	4621	4615	
Form.Press.(Horner)				
C. TEMPERATURE				
Depth Tool Reached	2830 m			
Max.Rec. Temp.	132.0 °C			
Time Circ. Stopped	29/8/82 @ 0930 hrs			
Time since Circ.	37.5 hrs			
Form. Temp.(Horner)				
D. SAMPLE RECOVERY				
Surface Pressure	4 psig			
Amt Gas	0.37 ft^3/ 10 lit.			
Amt Oil				
Amt Water/Filtrate	13.50 lit.			
Amt Others				
E. SAMPLE PROPERTIES				
Gas Composition				
C1				
C2				
C3				
1C4/nC4				
C5				
C6+				
CO2/H2S				
Oil Properties				
Colour				
Fluorescence				
GOR				
Water Properties				
Resistivity	0.260 ohm m @ 20.0°C			
NaCl Equivalent	26000 ppm			
Cl-titrated	16500 ppm			
pH/Nitrates	8.5 / 20 ppm			
Est. Water Type				
Mud Properties				
Resistivity	0.218 ohm m @ 17.7°C			
NaCl Equivalent	35000 ppm			
Cl-titrated	17000 ppm			
pH/Nitrates	10.3 / 90 ppm			
Calibration				
Calibration Press.				
Calibration Temp.				
Mud Weight	9.6 ppg			
Calc.Hydrostatic	4620 psi			
RFT Chokesize	0.76 mm			

REMARKS: Tight, could not find permeability.

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 31/8/82 SUITE NO: 4 RUN NO: 19

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	145	146
DEPTH	2833.5 m	2833.5 m
A. RECORDING TIMES		
Tool Set	1210 hrs	
Pretest Open	1210 hrs	
Time Open	10 min	
Chamber Open	1220 hrs	1510 hrs
Chamber Full		
Fill Time		
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	1505 hrs	1555 hrs
Tool Retract	1508 hrs	1558 hrs
Total Time	3 hrs	48 min
B. SAMPLE PRESSURES	psia	psia
IHP	4634	4633
ISIP	4095.5	
Initial Flowing Press.	138	179
Final Flowing Press.	1028	1080
Sampling Press. Range	890	901
FSIP		
FHP		4629
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2833 m	2833 m
Max.Rec. Temp.	122.0 °C	125.0 °C
Time Circ. Stopped	31/8/82 @ 0545 hrs	31/8/82 @ 0545 hrs
Time since Circ.	9.25 hrs	10.25 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	475 psig	650 psig
Amt Gas	12 ft^3/ 340 lit.	16.6 ft^3/ 470 lit.
Amt Oildensate		
Amt Water/Filtrate	12.00 lit.	1.25 lit.
Amt Condensate		trace scum
E. SAMPLE PROPERTIES		
Gas Composition		
C1	945562 ppm	961321 ppm
C2	54531 ppm	51323 ppm
C3	22896 ppm	20606 ppm
IC4/nC4	5520 ppm	4600 ppm
C5	1322 ppm	980 ppm
C6+	290 ppm	145 ppm
CO2/H2S	7.0%/Nil ppm	7.0%/Nil ppm
Condensate Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.280 ohm m @ 19.0°C	0.290 ohm m @ 14.0°C
NaCl Equivalent	26000 ppm	29000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	8.0 / 16 ppm	7.5 / 16 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.290 ohm m @ 23.0°C	0.290 ohm m @ 23.0°C
NaCl Equivalent	23000 ppm	23000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	10.3 / 90 ppm	10.3 / 90 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4624 psi	4624 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 31/8/82 SUITE NO: 4 RUN NO: 20

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	147	147
DEPTH	2701.5 m	2701.5 m
A. RECORDING TIMES		
Tool Set	1945 hrs	
Pretest Open	1945 hrs	
Time Open	5 min	
Chamber Open	1950 hrs	2015 hrs
Chamber Full		2050 hrs
Fill Time		35 min
Start Build up		2050 hrs
Finish Build up		2100 hrs
Build Up Time		10 min
Seal Chamber	2015 hrs	2100 hrs
Tool Retract	Did not retract probe	2103 hrs
Total Time	30 min	48 min
B. SAMPLE PRESSURES	psia	psia
IHP	4424	
ISIP	3816.1	Did not stabilize
Initial Flowing Press.	661	43
Final Flowing Press.	358	3806
Sampling Press. Range	309	3763
FSIP	Did not stabilize	3811.6
FHP	Did not retract probe	4416
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2701 m	2701 m
Max.Rec. Temp.	124.0 °C	124.0 °C
Time Circ. Stopped	31/8/82 @ 0545 hrs	31/8/82 @ 0545 hrs
Time since Circ.	14.5 hrs	15.25 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	0 psig	100 psig
Amt Gas		
Amt Oil		
Amt Water/Filtrate	6.50 lit.	9.50 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1		
C2		
C3		
1C4/nC4		
C5		
C6+		
CO2/H2S		
Oil Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.270 ohm m @ 19.0°C	0.280 ohm m @ 13.0°C
NaCl Equivalent	26000 ppm	30000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	10.5 / 22 ppm	9.0 / 20 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.290 ohm m @ 23.0°C	0.290 ohm m @ 23.0°C
NaCl Equivalent	21500 ppm	21500 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	13.3 / 90 ppm	10.3 / 90 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4409 psi	4409 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 01/9/82 SUITE NO: 4 RUN NO: 21

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	151	151
DEPTH	2706.2 m	2706.2 m
A. RECORDING TIMES		
Tool Set	0105 hrs	
Pretest Open	0106 hrs	
Time Open	3 min	
Chamber Open	0109 hrs	0140 hrs
Chamber Full	Did not fill	
Fill Time		
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	0140 hrs	0235 hrs
Tool Retract	Did not retract probe	0239 hrs
Total Time	35 min	59 min
B. SAMPLE PRESSURES	psia	psia
IHP	4423	
ISIP	3834.1	Not stabilized
Initial Flowing Press.	179	103
Final Flowing Press.	396	267
Sampling Press. Range	217	164
FSIP	Not stabilized	3806.2
FHP	Did not retract probe	4420
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2706 m	2706 m
Max.Rec. Temp.	125.0 °C	125.0 °C
Time Circ. Stopped	31/8/82 @ 0545 hrs	31/8/82 @ 0545 hrs
Time since Circ.	20 hrs	20 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	Nil psig	Nil psig
Amt Gas		
Amt Oil		
Amt Water/Filtrate	4.50 lit.	6.25 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1		
C2		
C3		
1C4/nC4		
C5		
C6+		
CO2/H2S		
Oil Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.310 ohm m @ 15.0°C	0.300 ohm m @ 15.0°C
NaCl Equivalent	25000 ppm	26000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	10.5 / 20 ppm	10.5 / 10 ppm
Est. Water Type	Filtrate	Filtrate
Mud Properties		
Resistivity	0.290 ohm m @ 23.0°C	0.290 ohm m @ 23.0°C
NaCl Equivalent	23000 ppm	23000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.3 / 90 ppm	10.3 / 90 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4417 psi	4417 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 01/9/82 SUITE NO: 4 RUN NO: 22

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	153	153
DEPTH	2715.5 m	2715.5 m
A. RECORDING TIMES		
Tool Set	0700 hrs	
Pretest Open	0700 hrs	
Time Open	1 min	
Chamber Open	0701 hrs	0740 hrs
Chamber Full		0803 hrs
Fill Time		23 min
Start Build up		0803 hrs
Finish Build up		0810 hrs
Build Up Time		7 min
Seal Chamber	0740 hrs	0810 hrs
Tool Retract	Did not retract probe	0811 hrs
Total Time	40 min	31 min
B. SAMPLE PRESSURES	psia	psia
IHP	4441	
ISIP	3881.6	Did not stabilize
Initial Flowing Press.	318	420
Final Flowing Press.	845	3878
Sampling Press. Range	527	3458
FSIP	Did not stabilize	3879.2
FHP	Did not retract probe	4431
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2726 m	2726 m
Max.Rec. Temp.	125.0 °C	125.0 °C
Time Circ. Stopped	31/8/82 @ 0545 hrs	31/8/82 @ 0545 hrs
Time since Circ.	26 hrs	26.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	0 psig	225 psig
Amt Gas	0.1 ft^3/ 2.8 lit.	0.45 ft^3/12.7 lit.
Amt Oil		
Amt Water/Filtrate	11.50	8.90 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1		44914 ppm
C2		2720 ppm
C3		973 ppm
iC4/nC4		230 ppm
C5		222 ppm
C6+		44 ppm
CO2/H2S		0.5%/ 0 ppm
Oil Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.270 ohm m @ 17.8°C	0.270 ohm m @ 17.8°C
NaCl Equivalent	26000 ppm	26000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	9.5 / 20 ppm	9.5 / 20 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.220 ohm m @ 17.7°C	0.220 ohm m @ 17.7°C
NaCl Equivalent	32000 ppm	32000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.3 / 90 ppm	10.3 / 90 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4432 psi	4432 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 01/9/82 SUITE NO: 4 RUN NO: 23

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	154	154
DEPTH	2756.2 m	2756.2 m
A. RECORDING TIMES		
Tool Set	2232 hrs	
Pretest Open	2234 hrs	
Time Open	6 min	
Chamber Open	2240 hrs	2329 hrs
Chamber Full		
Fill Time		
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	2328 hrs	0014 hrs
Tool Retract	Did not retract probe	0020 hrs
Total Time	56 min	51 min
B. SAMPLE PRESSURES	psia	psia
IHP	4534	
ISIP	Did not stabilize	
Initial Flowing Press.	1155	1272
Final Flowing Press.	839	347
Sampling Press. Range	1173	216
FSIP	Did not stabilize	Did not stabilize
FHP	Did not retract probe	Did not stabilize
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2775 m	2775 m
Max.Rec. Temp.	119.0 °C	119.0 °C
Time Circ. Stopped	1/9/82 @ 1600 hrs	1/9/82 @ 1600 hrs
Time since Circ.	7.5 hrs	8.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	0 psig	175 psig
Amt Gas	0.2 ft^3 5.7 lit.	1.9 ft^3 53.8 lit.
Amt Oil		
Amt Water/Filtrate	9.50 lit.	4.25 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1		772209 ppm
C2		60946 ppm
C3		26712 ppm
IC4/nC4		7130 ppm
C5		1876 ppm
C6+		363 ppm
CO2/H2S		0.5%/Nil ppm
Oil Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.260 ohm m @ 23.0°C	0.280 ohm m @ 17.0°C
NaCl Equivalent	24000 ppm	27000 ppm
Cl-titrated	16000 ppm	16000 ppm
pH/Nitrates	9.0 / 26 ppm	8.0 / 29 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.218 ohm m @ 17.7°C	0.218 ohm m @ 17.7°C
NaCl Equivalent	34000 ppm	34000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.3 / 110 ppm	10.3 / 110 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic.	4498 psi	4498 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 2/9/82 SUITE NO: 4 RUN NO: 24

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	155	155
DEPTH	2756.2 m	2756.2 m
A. RECORDING TIMES		
Tool Set	0405 hrs	
Pretest Open	0405 hrs	
Time Open	2 min	
Chamber Open	0407 hrs	0450 hrs
Chamber Full		0524 hrs
Fill Time		34 min
Start Build up		0524 hrs
Finish Build up		0531 hrs
Build Up Time		7 min
Seal Chamber	0450 hrs	0531 hrs
Tool Retract	Did not retract probe	0533 hrs
Total Time	45 min	43 min
B. SAMPLE PRESSURES	psia	psia
IHP	4433	
ISIP	3805.6	Did not stabilize
Initial Flowing Press.	896	244
Final Flowing Press.	865	1050
Sampling Press. Range	665	806
FSIP	Did not stabilize	Did not stabilize
FHP	Did not retract probe	Did not stabilize
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2695 m	2695 m
Max.Rec. Temp.	123.0 °C	123.0 °C
Time Circ. Stopped	1/9/82 @ 1600 hrs	1/9/82 @ 1600 hrs
Time since Circ.	12.75 hrs	13.5 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	0 psig	100 psig
Amt Gas	0.075 ft^3/ 2.1 lit.	0.01 ft^3/ 0.3 lit.
Amt Oil		
Amt Water/Filtrate	9.00 lit.	9.00 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1		
C2		
C3		
1C4/nC4		
C5		
C6+		
CO2/H2S		
Oil Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.260 ohm m @ 19.0°C	0.280 ohm m @ 13.0°C
NaCl Equivalent	27000 ppm	30000 ppm
Cl-titrated	15000 ppm	15000 ppm
pH/Nitrates	9.5 / 24 ppm	9.0 / 22 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.218 ohm m @ 17.7°C	0.218 ohm m @ 17.7°C
NaCl Equivalent	34000 ppm	34000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.5 / 110 ppm	10.5 / 110 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4498 psi	4498 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: W. Mudge DATE: 2/9/82 SUITE NO: 4 RUN NO: 25

	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	157	157
DEPTH	2849.2 m	2849.2 m
A. RECORDING TIMES		
Tool Set	0930 hrs	
Pretest Open	0931 hrs	
Time Open	2 min	
Chamber Open	0933 hrs	1015 hrs
Chamber Full		
Fill Time		
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	1015 hrs	1050 hrs
Tool Retract	Did not retract probe	1051 hrs
Total Time	45 min	36 min
B. SAMPLE PRESSURES	psia	psia
IHP	4672	
ISIP	4133.5	Did not stabilize
Initial Flowing Press.	476	1380
Final Flowing Press.	2050	3130
Sampling Press. Range	1574	1942
FSIP	Did not stabilize	Did not stabilize
FHP	Did not retract probe	Did not stabilize
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	2870 m	2870 m
Max.Rec. Temp.	128.0 °C	128.0 °C
Time Circ. Stopped	1/9/82 @ 1600 hrs	1/9/82 @ 1600 hrs
Time since Circ.	18.25 hrs	18.75 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	800 psig	1575 psig
Amt Gas	28.5 ft^3/ 807 lit.	41.3 ft^3/1169 lit.
Amt Oil		
Amt Water/Filtrate	9.50 lit.	1.25 lit.
Amt Condensate	0.02 lit.	0.02 lit.
E. SAMPLE PROPERTIES		
Gas Composition		
C1	961321 ppm	945562 ppm
C2	57738 ppm	57738 ppm
C3	22896 ppm	25949 ppm
1C4/nC4	6670 ppm	8970 ppm
C5	1705 ppm	2686 ppm
C6+	363 ppm	725 ppm
CO2/H2S	7.5%/Nil ppm	8.5%/Nil ppm
Oil Properties	48° API @ 15.6°C	41° API @ 15.6°C
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.260 ohm m @ 19.0°C	0.290 ohm m @ 14.0°C
NaCl Equivalent	26000 ppm	28000 ppm
Cl-titrated	16000 ppm	14500 ppm
pH/Nitrates	7.0 / 16 ppm	7.0 / 46 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.218 ohm m @ 17.7°C	0.218 ohm m @ 17.7°C
NaCl Equivalent	34000 ppm	34000 ppm
Cl-titrated	17000 ppm	17000 ppm
pH/Nitrates	10.5 / 110 ppm	10.5 / 110 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	9.6 ppg	9.6 ppg
Calc.Hydrostatic	4650 psi	4650 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: N. Davidson DATE: 7/9/82 SUITE NO: 5 RUN NO: 26

	CHAMBER 1 (22.7 lit.)		CHAMBER 2 (10.4 lit.)
SEAT NO.	163	164	171
DEPTH	3198.4	3196.2 m	3066.7 m
A. RECORDING TIMES			
Tool Set	1943	2003 hrs	2247 hrs
Pretest Open	1943	2006 hrs	2248 hrs
Time Open	6	7 min	4 min
Chamber Open	1949	2013 hrs	2252 hrs
Chamber Full			
Fill Time			
Start Build up			
Finish Build up			
Build Up Time			
Seal Chamber	1957	2113 hrs	0001 hrs
Tool Retract	1959	2115 hrs	0005 hrs
Total Time	16	12 min	18 min
B. SAMPLE PRESSURES	psia	psia	psia
IHP	Not stabilized	5213	Fluctuating
ISIP	4836.5	5064.3	4516.4
Initial Flowing Press.	28	34	47
Final Flowing Press.	54	69	121
Sampling Press. Range	26	35	74
FSIP	Not stabilized	Not stabilized	Not stabilized
FHP	Not stabilized	5215	Fluctuating
Form.Press.(Horner)			
C. TEMPERATURE			
Depth Tool Reached		3226 m	
Max.Rec. Temp.		131.0 °C	
Time Circ. Stopped	7/9/82 @ 0945 hrs		7/9/82 @ 0945 hrs
Time since Circ.		11.5 hrs	
Form. Temp.(Horner)			
D. SAMPLE RECOVERY			
Surface Pressure		0 psig	0 psig
Amt Gas			0.17 ft^3/ 4.8 lit.
Amt Oil			
Amt Water/Filtrate		1.75 lit.	4.75 lit.
Amt Others			
E. SAMPLE PROPERTIES			
Gas Composition			
C1			
C2			
C3			
IC4/nC4			
C5			
C6+			
CO2/H2S			
Oil Properties			
Colour			
Fluorescence			
GOR			
Water Properties			
Resistivity	0.330 ohm m @ 17.0°C		0.550 ohm m @ 17.0°C
NaCl Equivalent	22500 ppm		13000 ppm
Cl-titrated	11000 ppm		12000 ppm
pH/Nitrates	8.0 /190 ppm		8.2 /180 ppm
Est. Water Type			
Mud Properties			
Resistivity	0.256 ohm m @ 17.2°C		0.256 ohm m @ 17.2°C
NaCl Equivalent	30000 ppm		30000 ppm
Cl-titrated	14000 ppm		14000 ppm
pH/Nitrates	10.5 / 200 ppm		10.5 / 200 ppm
Calibration			
Calibration Press.			
Calibration Temp.			
Mud Weight		10.5 ppg	10.5 ppg
Calc.Hydrostatic		5709 psi	5474 psi
RFT Chokesize		0.76 mm	0.76 mm

REMARKS:

RFT SAMPLE TEST REPORT - BREAM 5

OBSERVER: N. Davidson DATE: 8/9/82 SUITE NO: 5 RUN NO: 27

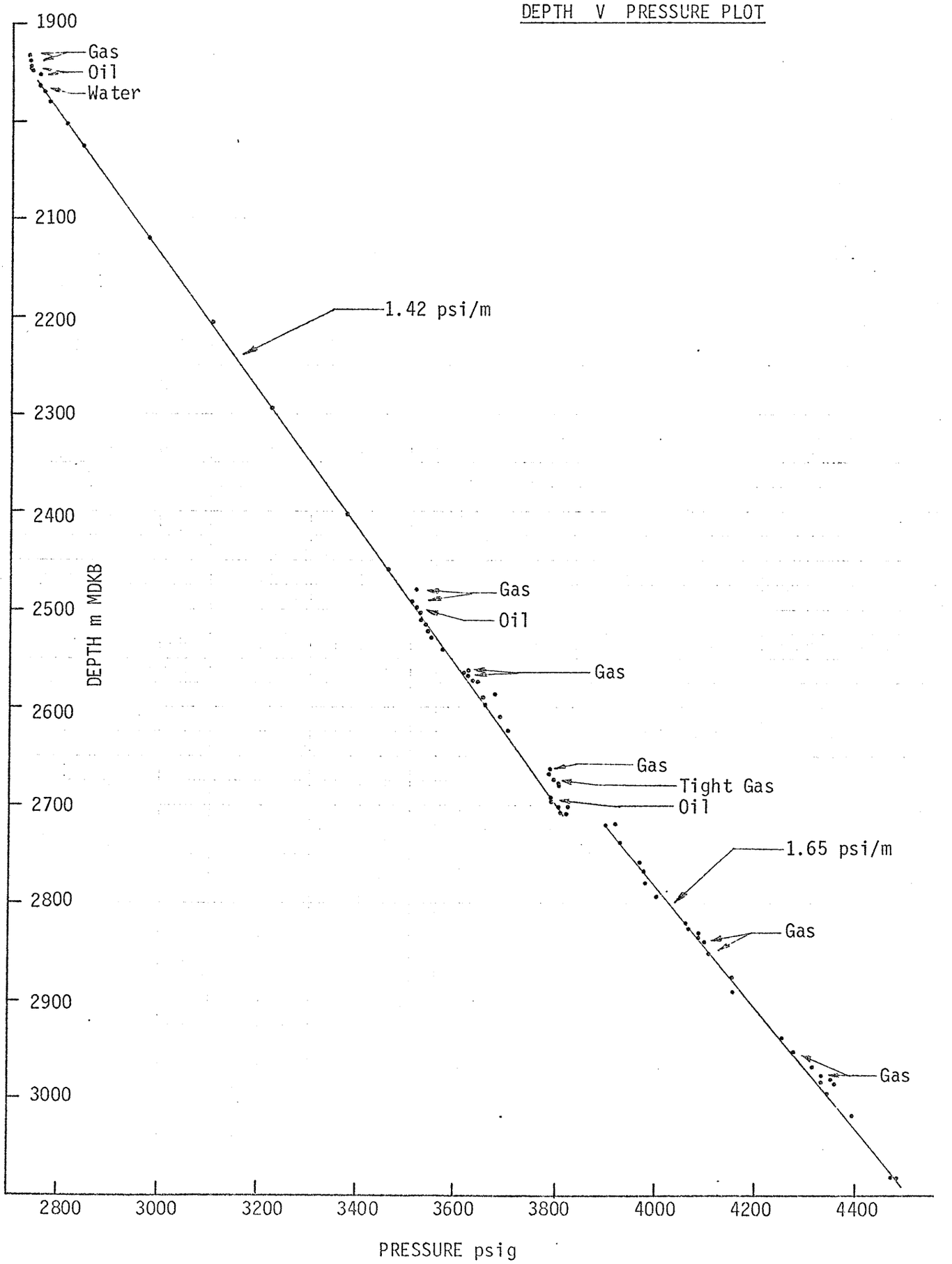
	CHAMBER 1 (22.7 lit.)	CHAMBER 2 (10.4 lit.)
SEAT NO.	176	176
DEPTH	3016.2 m	3016.2 m
A. RECORDING TIMES		
Tool Set	0427 hrs	
Pretest Open	0427 hrs	
Time Open	3 min	
Chamber Open	0430 hrs	0517 hrs
Chamber Full		
Fill Time		
Start Build up		
Finish Build up		
Build Up Time		
Seal Chamber	0516 hrs	0601 hrs
Tool Retract	Did not retract probe	0603 hrs
Total Time	49 min	46 min
B. SAMPLE PRESSURES	psia	psia
IHP	Fluctuating 4931 +/- 3	
ISIP	4421.2	Did not stabilize
Initial Flowing Press.	61	140
Final Flowing Press.	145	259
Sampling Press. Range	84	178
FSIP	Did not stabilize	4419.7
FHP	Did not retract probe	Fluctuating 4917 +/- 4
Form.Press.(Horner)		
C. TEMPERATURE		
Depth Tool Reached	3325 m	3325 m
Max.Rec. Temp.	133.0 °C	133.0 °C
Time Circ. Stopped	7/9/82 @ 0945 hrs	7/9/82 @ 0945 hrs
Time since Circ.	19.5 hrs	20.25 hrs
Form. Temp.(Horner)		
D. SAMPLE RECOVERY		
Surface Pressure	0 psig	0 psig
Amt Gas	0.3 ft^3/ 8.5 lit.	
Amt Oil		
Amt Water/Filtrate	10.00 lit.	6.75 lit.
Amt Others		
E. SAMPLE PROPERTIES		
Gas Composition		
C1	47554 ppm	
C2	2141 ppm	
C3	582 ppm	
IC4/nC4	64 ppm	
C5	Tr ppm	
C6+		
CO2/H2S	1.2%/Nil ppm	
Oil Properties		
Colour		
Fluorescence		
GOR		
Water Properties		
Resistivity	0.310 ohm m @ 20.6°C	0.320 ohm m @ 20.6°C
NaCl Equivalent	21000 ppm	21000 ppm
Cl-titrated	12000 ppm	12000 ppm
pH/Nitrates	8.6 /150 ppm	8.1 / 90 ppm
Est. Water Type		
Mud Properties		
Resistivity	0.256 ohm m @ 17.2°C	0.256 ohm m @ 17.2°C
NaCl Equivalent	30000 ppm	30000 ppm
Cl-titrated	14000 ppm	14000 ppm
pH/Nitrates	10.5 / 200 ppm	10.5 / 200 ppm
Calibration		
Calibration Press.		
Calibration Temp.		
Mud Weight	10.5 ppg	10.5 ppg
Calc.Hydrostatic	5384 psi	5384 psi
RFT Chokesize	0.76 mm	0.76 mm

REMARKS:

FIGURE 1

BREAM 5

DEPTH V PRESSURE PLOT



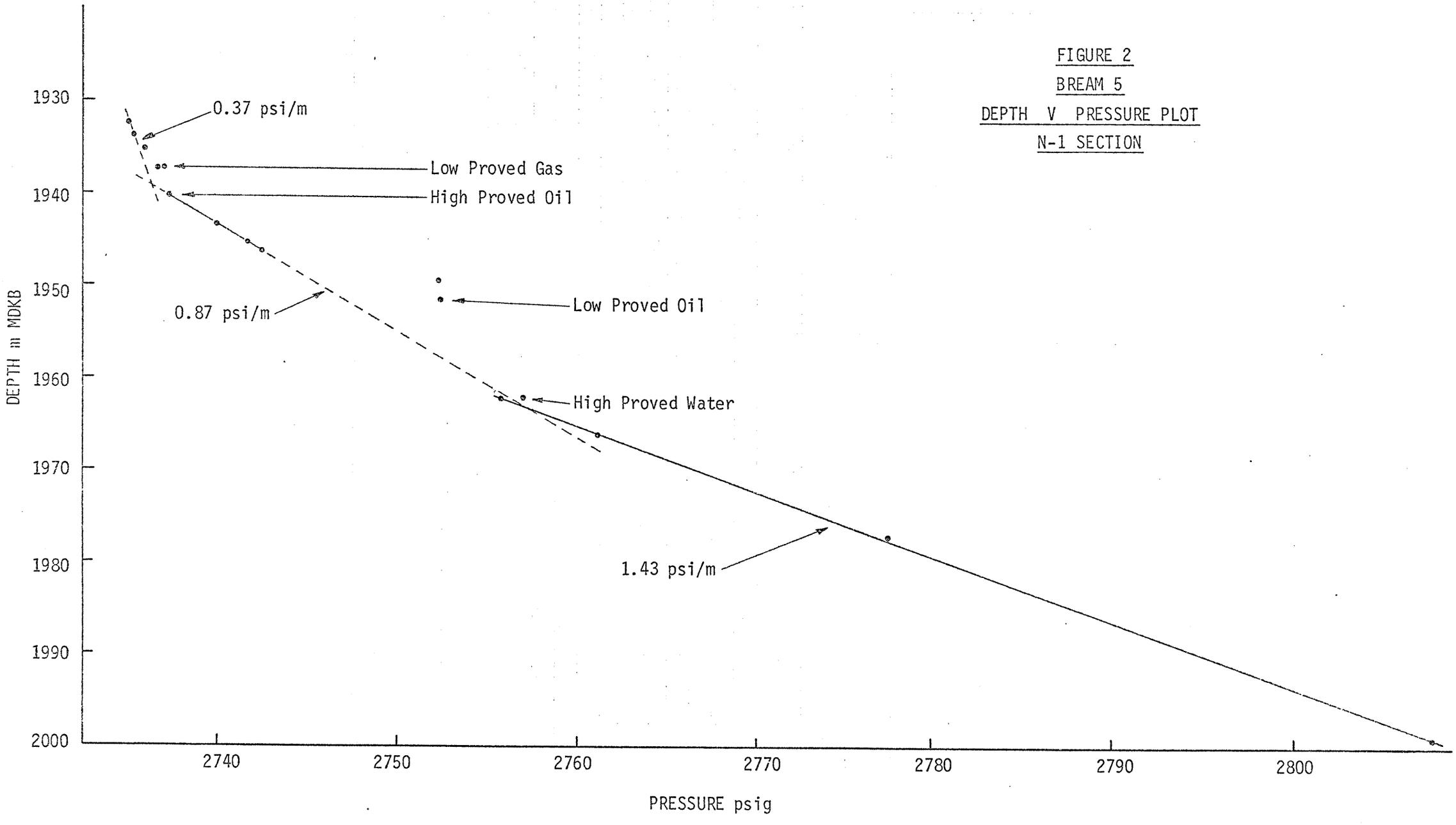


FIGURE 2
BREAM 5
DEPTH V PRESSURE PLOT
N-1 SECTION
0.37 psi/m
Low Proved Gas
High Proved Oil
0.87 psi/m
Low Proved Oil
High Proved Water
1.43 psi/m
DEPTH m MDKB
1930
1940
1950
1960
1970
1980
1990
2000
2740
2750
2760
2770
2780
2790
2800
PRESSURE psig

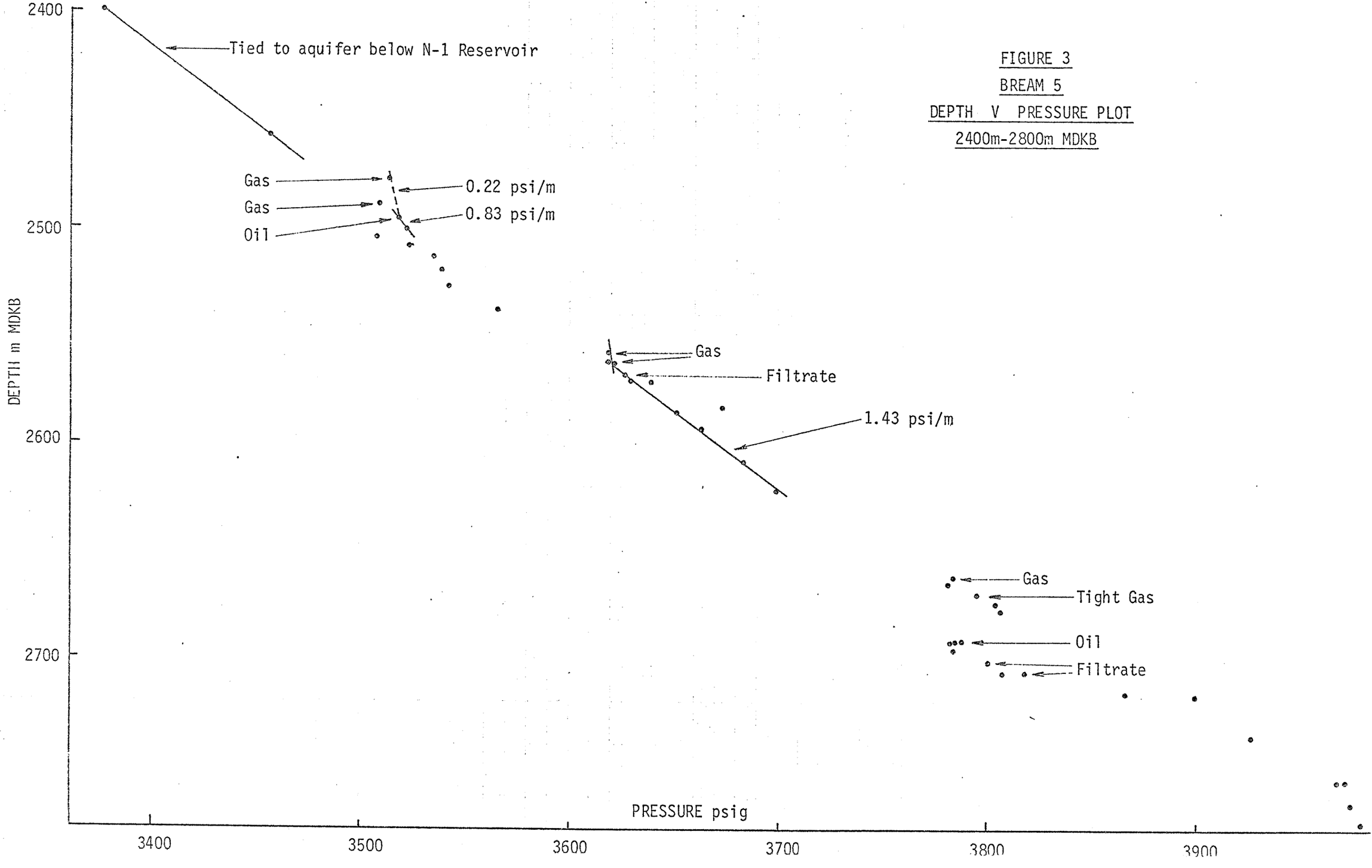


FIGURE 3

BREAM 5

DEPTH V PRESSURE PLOT

2400m-2800m MDKB

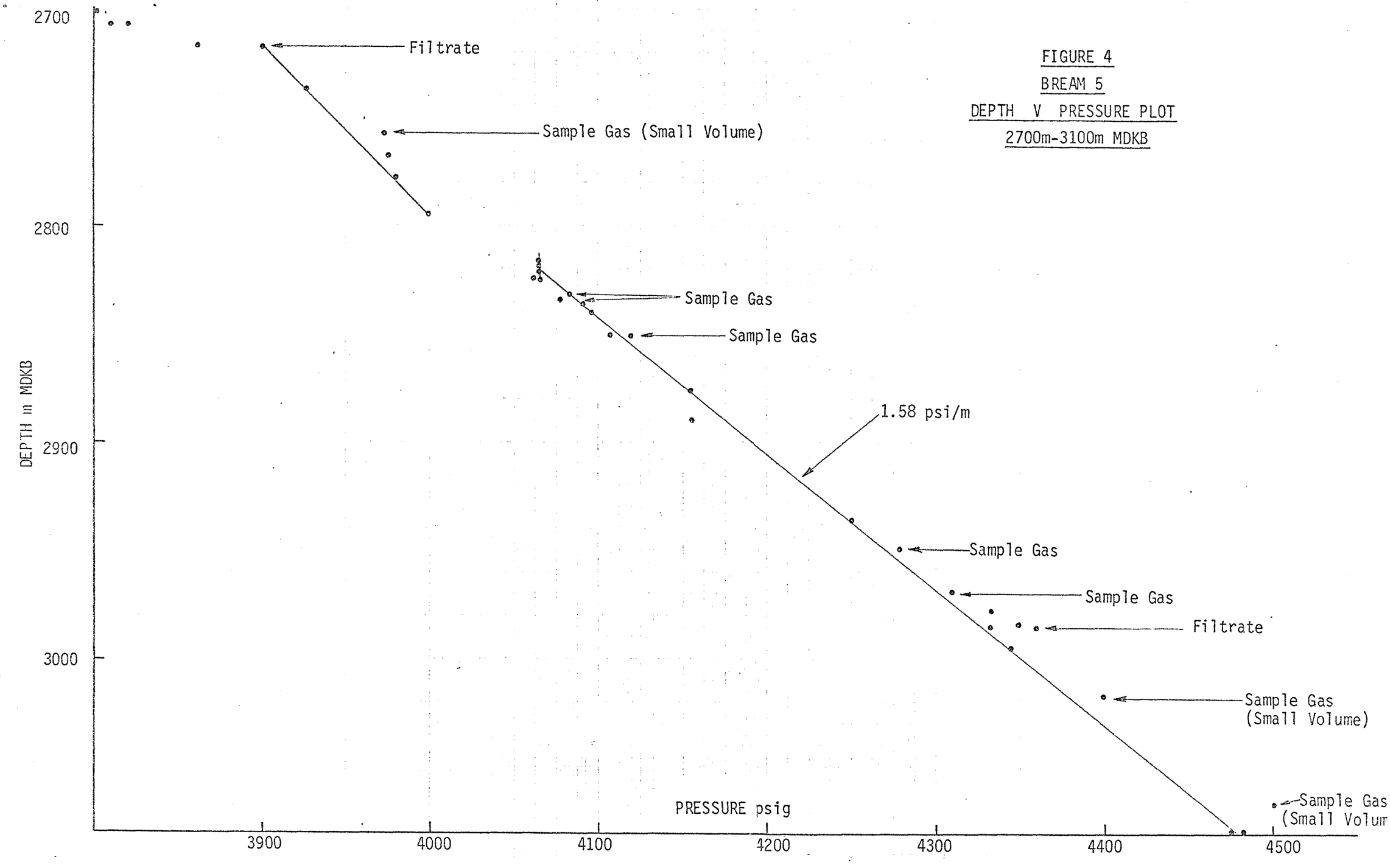
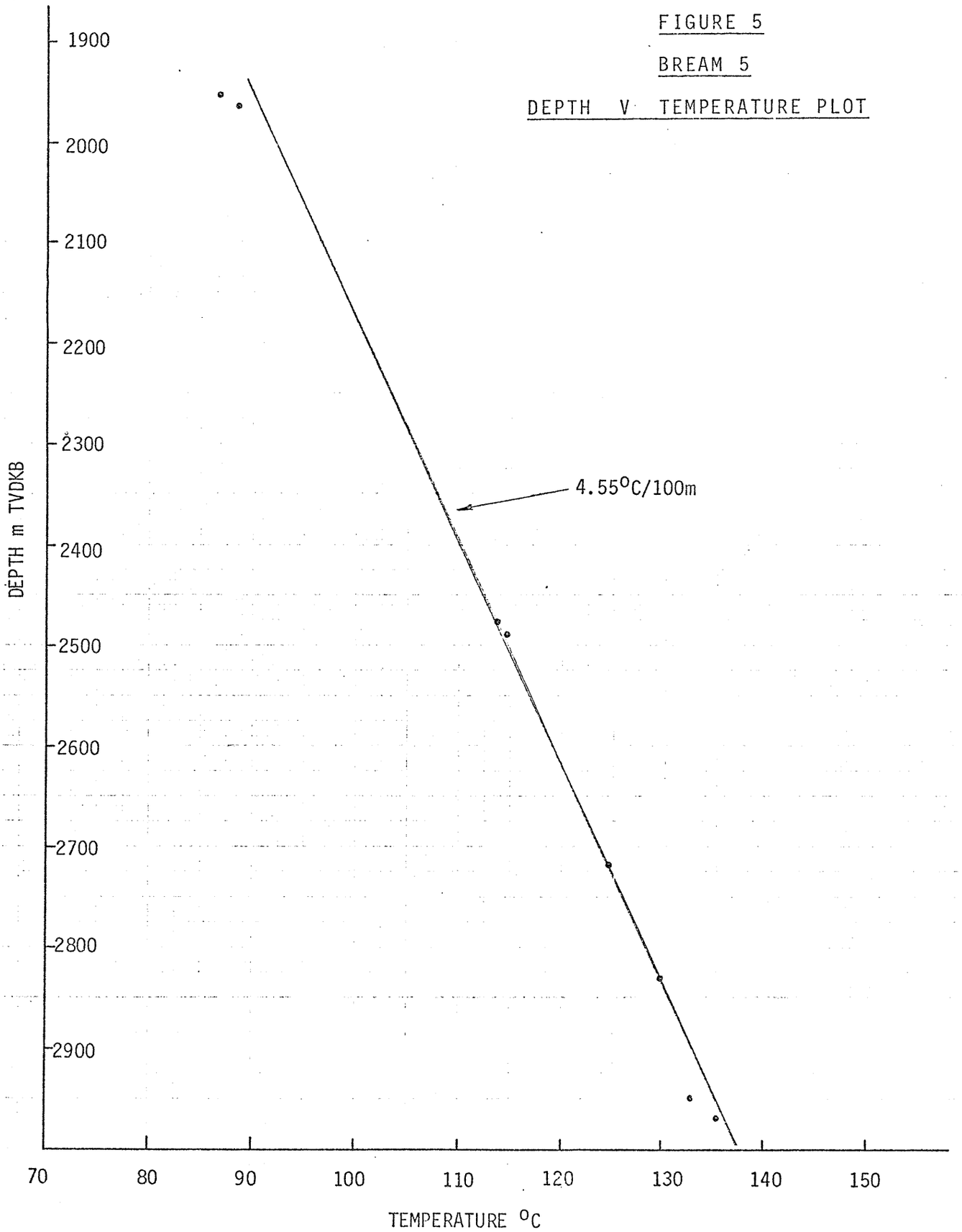


FIGURE 4
BREAM 5
DEPTH V PRESSURE PLOT
2700m-3100m MDKB
Filtrate
Sample Gas (Small Volume)
Sample Gas
Sample Gas
1.58 psi/m
Sample Gas
Sample Gas
Filtrate
Sample Gas
(Small Volume)
Sample Gas
(Small Volum
DEPTH m MDKB
PRESSURE psig
2700
2800
2900
3000
3900
4000
4100
4200
4300
4400
4500

FIGURE 5

BREAM 5

DEPTH V TEMPERATURE PLOT



NOTE: Wellbore temperature was not completely stabilized after circulating prior to RFT runs. This data represents the last data taken when RFT temperature was closest to reservoir temperature.

APPENDIX 5

APPENDIX 5

GEOCHEMICAL REPORT

GEOCHEMICAL REPORT
BREAM-5 WELL, GIPPSLAND BASIN, VICTORIA

by

J.K. Emmett.

Esso Australia Ltd.,
Geochemical Report.
0457L

May, 1983.

CONTENTS

List of Tables.

List of Figures.

Appendix.

INTRODUCTION

Various geochemical analyses were performed on samples of cuttings, sidewall cores, conventional core and liquid hydrocarbons collected during drilling of Bream-5. Wet canned cuttings composited over 15 metre intervals were collected from 235 metres down to 3322 metres, Total Depth (T.D.). C_{1-4} headspace cuttings gas analyses were performed on alternate 15 metre intervals from 1630 metres down to T.D. Samples were then hand picked for more detailed analyses such as Total Organic Carbon (T.O.C.), Rock Eval Pyrolysis, Kerogen isolation and elemental analysis and C_{15+} Liquid and gas chromatography.

Vitrinite Reflectance ($\bar{R}_o$ max) measurements were performed by Professor A.C. Cook of Wollongong.

An oil sample, RFT 3 from 1940 m(KB) was analysed for API gravity and by whole oil gas chromatography.

DISCUSSION OF RESULTS

The detailed headspace C_{1-4} hydrocarbon gas analysis data are listed in Table-1 and for convenience have been plotted in Figure-1. The C_{1-4} gas content varies from low to moderately rich down to about 1950 m(KB) (near the top of the Latrobe Group coarse clastics), below which the values are uniformly quite rich (generally over 10,000 ppm). A good hydrocarbon source potential is therefore indicated for the Latrobe Group sediments. The amount of wet (C_{2+}) gas components is generally low over the whole sequence with a value over 50% wet gas at 1930-1945 m(KB) occurring in the main oil reservoir zone ie. 1937-1950 m(KB).

T.O.C. values for the undifferentiated Latrobe Group (Table 2) are rich (average T.O.C. = 3.44%), confirming a very good hydrocarbon source potential for these sediments. The overlying Lakes Entrance Formation has poor T.O.C. values (average T.O.C. = 0.38%) indicating a correspondingly poor hydrocarbon source potential.

Vitrinite reflectance ($\bar{R}_o$) data are given in Table and $\bar{R}_o$ max has been plotted against depth in Figure 2. Using the straight line gradient drawn in Figure 2, the top of organic maturity for significant hydrocarbon generation occurs at about 2700 m(KB). Detailed Vitrinite reflectance and exinite flourescence data are given in Appendix-1 (Report by A.C. Cook).

In Table 4, elemental analyses of selected kerogen samples isolated from sidewall cores are listed. Approximate Hydrogen: Carbon (H/C), Oxygen: Carbon (O/C) and Nitrogen: Carbon (N/C) atomic ratios for these kerogens are given in Table 5. These ratios are approximate as the oxygen % is calculated by difference, and the naturally occurring organic sulphur % (which may be up to a few per cent) was not determined. Figure 3 is a modified Van Krevelen Plot of atomic H/C versus atomic O/C ratio, delineating the basic kerogen types. Comparison of Figure 3 with Figure 4, a similar plot showing the "Principal Products of Kerogen Evolution" indicates that the major kerogen type in the Latrobe Group sediments is woody-herbaceous material. The majority of kerogen samples have atomic H/C ratios high enough to indicate a very good potential for the Latrobe Group sediments to source both oil and gas.

Similarly, Rock Eval pyrolysis data (Table 6 and Figure 5) obtained from sidewall core samples with 0.5% or more T.O.C. also indicates that the Latrobe Group sediments have very good potential to source both oil and gas.

C_{15+} liquid chromatography results from selected canned cuttings are listed in Table 7. Total extract values for all samples (from the Latrobe Group) are rich with each extract being composed of 50% or more hydrocarbon material, which again confirms a very good hydrocarbon source potential for these sediments. The corresponding C_{15+} saturate fraction chromatograms (figures 6-9) are very similar in appearance but exhibit typical features of dominantly non-marine organic matter becoming more mature with increasing depth. This is indicated mainly by the reduction of the pristane: nC_{17} ratio with greater depth of burial due to a relative increase in the amount of n-alkanes generated with increased maturation.

Figure 10 is a "whole oil" gas chromatograph of an oil sample (RFT 3 at 1940 m(KB)) obtained from Bream-5. The oil, which has an API gravity of 45.8^{o} at (at15.6^{o}C) is a mature, paraffinic-based crude which is almost identical to that discovered in Bream-4A.

CONCLUSIONS

1. The top of organic maturity for significant hydrocarbon generation in Bream-5 occurs in the Latrobe Group sediments at about 2700 m(KB).

2. The Latrobe Group sediments are rated as having very good potential to source both oil and gas.

3. Oil discovered in Bream-5 is a mature, paraffinic-based crude with a hydrocarbon distribution almost identical to oil encountered in Bream-4A.

C1-C4 HYDROCARBON ANALYSES

REPORT A - HEADSPACE GAS

SIN - GIPPSLAND
LL - BREAM 5

MPLE NO.	DEPTH	METHANE C1	ETHANE C2	PROPANE C3	IBUTANE IC4	NBUTANE C4	WET C2-C4	TOTAL C1-C4	WET/TOTAL PERCENT	TOTAL GAS M	TOTAL GAS E	TOTAL GAS P	TOTAL GAS IB	TOTAL GAS NB	WET GAS E	WET GAS P	WET GAS IB	WET GAS NB
		GAS CONCENTRATION (VOLUME GAS PER MILLION VOLUMES CUTTINGS)								GAS COMPOSITION (PERCENT)								
533 Q	1645.00	3592	127	162	70	38	397	3989	9.95	90.	3.	4.	2.	1.	32.	41.	18.	10.
533 S	1675.00	2040	111	166	83	45	405	2445	16.56	83.	5.	7.	3.	2.	27.	41.	20.	11.
533 U	1705.00	4455	139	176	64	38	417	4872	8.56	91.	3.	4.	1.	1.	33.	42.	15.	9.
533 W	1735.00	1403	84	97	60	24	265	1668	15.89	84.	5.	6.	4.	1.	32.	37.	23.	9.
533 Y	1765.00	122	24	24	19	11	78	200	39.00	61.	12.	12.	9.	5.	31.	31.	24.	14.
534 A	1795.00	181	17	35	11	5	68	249	27.31	73.	7.	14.	4.	2.	25.	51.	16.	7.
534 C	1825.00	48	22	36	12	7	77	125	61.60	38.	18.	29.	10.	6.	29.	47.	16.	9.
534 E	1855.00	383	39	53	23	17	132	515	25.63	74.	8.	10.	4.	3.	30.	40.	17.	13.
534 G	1885.00	540	118	216	65	124	523	1063	49.20	51.	11.	20.	6.	12.	23.	41.	12.	24.
534 I	1915.00	3186	533	913	330	613	2389	5575	42.85	57.	10.	16.	6.	11.	22.	38.	14.	26.
534 K	1945.00	241	160	405	149	290	1004	1245	80.64	19.	13.	33.	12.	23.	16.	40.	15.	29.
534 M	1995.00	104031	12190	3894	437	625	17146	121177	14.15	86.	10.	3.	0.	1.	71.	23.	3.	4.
534 O	2025.00	64950	9317	3316	395	492	13520	78470	17.23	83.	12.	4.	1.	1.	69.	25.	3.	4.
534 Q	2055.00	26918	4444	1808	233	303	6788	33706	20.14	80.	13.	5.	1.	1.	65.	27.	3.	4.
534 S	2085.00	48857	4213	1913	265	493	6884	55741	12.35	88.	8.	3.	0.	1.	61.	28.	4.	7.
534 U	2115.00	54741	7413	2470	399	360	10642	65383	16.28	84.	11.	4.	1.	1.	70.	23.	4.	3.
534 W	2145.00	42414	6181	2376	439	402	9398	51812	18.14	82.	12.	5.	1.	1.	66.	25.	5.	4.
534 Y	2175.00	50313	3309	761	102	91	4263	54576	7.81	92.	6.	1.	0.	0.	78.	18.	2.	2.
535 A	2205.00	26631	1642	363	76	53	2134	28765	7.42	93.	6.	1.	0.	0.	77.	17.	4.	2.
535 C	2235.00	9436	966	313	43	30	1352	10788	12.53	87.	9.	3.	0.	0.	71.	23.	3.	2.
535 E	2265.00	5101	889	366	59	60	1374	6475	21.22	79.	14.	6.	1.	1.	65.	27.	4.	4.
435 G	2295.00	40122	4776	1686	235	214	6911	47033	14.69	85.	10.	4.	0.	0.	69.	24.	3.	3.
535 I	2325.00	20338	4937	2585	478	478	8478	28816	29.42	71.	17.	9.	2.	2.	58.	30.	6.	6.
535 K	2355.00	4012	970	604	134	125	1833	5845	31.36	69.	17.	10.	2.	2.	53.	33.	7.	7.
535 M	2385.00	20723	2953	1459	274	249	4935	25658	19.23	81.	12.	6.	1.	1.	60.	30.	6.	5.
535 O	2415.00	7035	1315	759	162	141	2377	9412	25.25	75.	14.	8.	2.	1.	55.	32.	7.	6.
535 Q	2445.00	5075	742	391	78	61	1272	6347	20.04	80.	12.	6.	1.	1.	58.	31.	6.	5.
535 S	2475.00	35814	3305	933	134	113	4485	40299	11.13	89.	8.	2.	0.	0.	74.	21.	3.	3.
535 U	2505.00	67154	5269	1331	166	167	6933	74087	9.36	91.	7.	2.	0.	0.	76.	19.	2.	2.
535 W	2535.00	28262	2972	941	147	149	4209	32471	12.96	87.	9.	3.	0.	0.	71.	22.	3.	4.
535 Y	2565.00	0	0	0	0	0	0	0	.00	0.	0.	0.	0.	0.	0.	0.	0.	0.
536 A	2595.00	35961	2772	772	124	97	3765	39726	9.48	91.	7.	2.	0.	0.	74.	21.	3.	3.
536 C	2630.00	18845	1319	454	65	48	1886	20731	9.10	91.	6.	2.	0.	0.	70.	24.	3.	3.
536 E	2660.00	61714	3453	1144	237	171	5005	66719	7.50	92.	5.	2.	0.	0.	69.	23.	5.	3.
536 G	2690.00	23438	2408	1053	141	139	3741	27179	13.76	86.	9.	4.	1.	1.	66.	27.	4.	4.
536 I	[illegible]	37072	3112	1108	161	145	4526	41598	10.88	89.	7.	3.	0.	0.	69.	24.	4.	3.
536 K	[illegible]	38726	4144	1573	172	335	6225	44951	13.85	86.	9.	4.	0.	1.	67.	27.	3.	4.
536 M	2810.00	18849	1442	797	96	137	2472	21321	13.94	86.	9.	4.	0.	1.	65.	27.	3.	5.
536 O	[illegible]	45332	3380	917	98	107	4502	49834	9.03	91.	7.	2.	0.	0.	75.	20.	2.	2.
536 Q	2870.00	5178	817	477	70	108	1472	6650	22.11	78.	12.	7.	1.	2.	56.	32.	5.	7.
536 S	[illegible]	11490	1410	537	59	87	2093	13583	15.41	85.	10.	4.	0.	1.	67.	26.	3.	4.
536 U	[illegible]	73389	3485	941	104	124	4654	78043	5.96	94.	4.	1.	0.	0.	74.	21.	2.	3.
536 W	[illegible]	21831	[illegible]	705	92	155	2824	24655	11.45	89.	8.	3.	0.	1.	66.	25.	3.	6.
536 Y	[illegible]	15628	1829	678	74	120	2701	18329	14.74	85.	10.	4.	0.	1.	68.	25.	3.	4.
537 A	3017.00	6958	1597	990	180	227	2994	9952	30.08	70.	16.	10.	2.	2.	53.	33.	6.	8.
537 C	[illegible]	41020	2856	680	83	104	3723	44743	8.32	92.	6.	2.	0.	0.	77.	18.	2.	3.
537 E	[illegible]	35598	3013	1005	119	157	4294	39892	10.76	89.	8.	3.	0.	0.	70.	23.	3.	4.

C1-C4 HYDROCARBON ANALYSES

REPORT A - HEADSPACE GAS

SIN - GIPPSLAND
LL - BREAM 5

MPLE NO.	DEPTH	METHANE C1	ETHANE C2	PROPANE C3	IBUTANE IC4	NBUTANE C4	WET C2-C4	TOTAL C1-C4	WET/TOTAL PERCENT	TOTAL GAS M	E	P	IB	NB	WET GAS E	P	IB	NB
	GAS CONCENTRATION (VOLUME GAS PER MILLION VOLUMES CUTTINGS)									GAS COMPOSITION (PERCENT)								
537 G	3110.00	39634	3926	1496	252	294	5968	45802	13.03	87.	9.	3.	1.	1.	66.	25.	4.	5.
537 I	3140.00	29000	2044	794	128	150	3116	32116	9.70	90.	6.	2.	0.	0.	66.	25.	4.	5.
537 K	3170.00	18192	1586	583	87	104	2360	20552	11.48	89.	8.	3.	0.	1.	67.	25.	4.	4.
537 M	3200.00	14186	1203	521	69	91	1884	16070	11.72	88.	7.	3.	0.	1.	64.	28.	4.	5.
537 O	3230.00	9770	842	258	43	49	1192	10962	10.87	89.	8.	2.	0.	0.	71.	22.	4.	4.
537 Q	3260.00	15074	1359	478	53	86	1976	17050	11.59	88.	8.	3.	0.	1.	69.	24.	3.	4.
537 S	3290.00	10981	949	364	77	84	1474	12455	11.83	88.	8.	3.	1.	1.	64.	25.	5.	6.
537 U	3320.00	2612	254	98	11	21	384	2996	12.82	87.	8.	3.	0.	1.	66.	26.	3.	5.

Table 2. TOTAL ORGANIC CARBON REPORT

ASIN - GIPPSLAND
ELL - BREAM 5

SAMPLE NO.	DEPTH	AGE	FORMATION	AN	TOC%	AN	TOC%	AN	TOC%	DESCRIPTION
72491 V	1125.00	OLIGOCENE-MIOCENE	GIPPSLAND LIMESTONE	1	.62					MED OL GREY MDST,V CALC
===> DEPTH : .00 TO 1130.00 METRES. <=== I ===> AVERAGE TOC : .62 % EXCLUDING VALUES GREATER THAN 10.00 % <===										
72491 U	1390.00	MIOCENE	LAKES ENTRANCE	1	.36					LT.OL.GREY MUDST,V CALC
72491 T	1425.00	MIOCENE	LAKES ENTRANCE	1	.37					OLIVE GREY SLTST,V CALC
72491 S	1500.00	MIOCENE	LAKES ENTRANCE	1	.37					OLIVE GREY SLTST,V CALC
72491 R	1575.00	MIOCENE	LAKES ENTRANCE	1	.25					OLIVE GREY SLTST,V CALC
72491 Q	1650.00	MIOCENE	LAKES ENTRANCE	1	.44					OLIVE GREY SLTST,V CALC
72491 P	1725.00	MIOCENE	LAKES ENTRANCE	1	.48					MED OLIVE GRY SILTSTONE
===> DEPTH : 1150.00 TO 1863.00 METRES. <=== I ===> AVERAGE TOC : .38 % EXCLUDING VALUES GREATER THAN 10.00 % <===										
72490 X	1881.00	EOCENE-LATE CRET.	LATROBE GROUP-GURNARD FM.	1	1.13					BRN'DKGRY SLST,MIC,GLAU
72490 O	1921.00	EOCENE-LATE CRET.	LATROBE GROUP-GURNARD FM.	1	.70					OL GRY SLST,ABUND GLAUC
===> DEPTH : 1863.00 TO 1924.00 METRES. <=== I ===> AVERAGE TOC : .91 % EXCLUDING VALUES GREATER THAN 10.00 % <===										
72507 B	1948.87	EOCENE-LATE CRET.	LATROBE GROUP	1	3.61					GY-BLK SLTY-SH,LAMINATE
72507 F	1963.16	EOCENE-LATE CRET.	LATROBE GROUP	1	5.81					DK.GY SHALEY SLST,COALY
72490 G	1972.50	EOCENE-LATE CRET.	LATROBE GROUP	1	5.64					BRN'GRY SLST,CARB SPCKS
72490 C	2017.40	EOCENE-LATE CRET.	LATROBE GROUP	1	2.42					OL GRFY SLTST, CARB LAM
72490 A	2042.40	EOCENE-LATE CRET.	LATROBE GROUP	1	.29					MED DARK GREY SILTSTONE
72506 R	2472.00	EOCENE-LATE CRET.	LATROBE GROUP	1	4.42					DK.GY SLST,SH LAMINAT'N
72506 M	2624.00	EOCENE-LATE CRET.	LATROBE GROUP	1	3.75					DK.GY SH,COALY FLECKS
72506 U	3009.50	EOCENE-LATE CRET.	LATROBE GROUP	1	.75					BRN-GY SLTY-SH,CARBN'OU
72506 V	3062.00	EOCENE-LATE CRET.	LATROBE GROUP	1	1.40					DK.GY SILTSTONE
72506 W	3106.00	EOCENE-LATE CRET.	LATROBE GROUP	1	1.07					OL-GY SLTST,COALY FLECK
72506 X	3261.00	EOCENE-LATE CRET.	LATROBE GROUP	1	4.45					GY-BLK SLTY-SH,COALY
72506 J	3305.00	EOCENE-LATE CRET.	LATROBE GROUP	1	4.57					DK.GY COALY SILTSTONE
72506 A	3320.00	EOCENE-LATE CRET.	LATROBE GROUP	1	6.53					BLACK COALY SLTST.
===> DEPTH : 1924.00 TO 3320.00 METRES. <=== I ===> AVERAGE TOC : 3.44 % EXCLUDING VALUES GREATER THAN 10.00 % <===										

VITRINITE REFLECTANCE REPORT

BASIN - GIPPSLAND
WELL - BREAM 5

SAMPLE NO.	DEPTH	AGE	FORMATION	AN	MAX. RO	FLUOR. COLOUR	NO.CNTS.	MACERAL TYPE
72507 A	1947.60	EOCENE-LATE CRET.	LATROBE GROUP	5	.41	GRN/YEL-OR	20	E>V>I D.O.M. ABUNDANT
72507 Q	1964.20	EOCENE-LATE CRET.	LATROBE GROUP	5	.54	YEL TO OR	20	V>>E=I
72490 B	2029.00	EOCENE-LATE CRET.	LATROBE GROUP	5	.53	GRN/YEL-OR	20	V=I>E D.O.M. ABUNDANT
72506 B	2472.00	EOCENE-LATE CRET.	LATROBE GROUP	5	.53	YEL TO OR.	20	V>>E>I D.O.M. ABUNDANT
72507 R	2571.93	EOCENE-LATE CRET.	LATROBE GROUP	5	.68	YEL TO OR.	25	V>I>E.
72506 M	2624.00	EOCENE-LATE CRET.	LATROBE GROUP	5	.56	GRN/YEL TO O	22	V>I>E D.O.M. ABUNDANT
72507 S	2712.60	EOCENE-LATE CRET.	LATROBE GROUP	5	.68	YEL TO OR.	20	V>I>E.
72507 T	2781.00	EOCENE-LATE CRET.	LATROBE GROUP	5	.69	YEL-OR/D.OR	20	V=I>E D.O.M. ABUNDANT
72506 V	3062.00	EOCENE-LATE CRET.	LATROBE GROUP	5	.77	GRN/YEL-OR.	5	RARE-SPARSE SPORINITE
72506 A	3320.00	EOCENE-LATE CRET.	LATROBE GROUP	5	.85	OR-DULL OR.	20	V>I>E D.O.M. ABUNDANT

Table 4.

ESSO AUSTRALIA LTD.

KEROGEN ELEMENTAL ANALYSIS REPORT

BASIN - GIPPSLAND
WELL - BREAM 5

SAMPLE NO.	DEPTH	SAMPLE TYPE	--- ELEMENTAL % (ASH FREE) ---						COMMENTS
			N%	C%	H%	S%	O%	ASH%	
72491 W	1948.50	KEROGEN	1.08	83.32	6.19	.00	9.40	28.00	HIGH ASH
72491 X	1954.50	KEROGEN	.87	69.09	5.05	.00	24.99	11.69	HIGH ASH
72491 Y	1959.69	KEROGEN	.92	68.02	4.92	.00	26.14	12.05	HIGH ASH
72490 G	1972.50	KEROGEN	.70	71.02	5.12	.00	23.16	10.31	HIGH ASH
72490 F	1987.00	KEROGEN	.76	74.20	5.52	.00	19.52	10.98	HIGH ASH
72490 D	2003.00	KEROGEN	.76	74.63	5.52	.00	19.10	7.38	
72490 C	2017.40	KEROGEN	.89	80.31	6.03	.00	12.76	11.67	HIGH ASH
72506 C	2027.60	KEROGEN	1.38	81.47	5.23	.00	11.92	3.91	
72490 B	2029.00	KEROGEN	.86	69.47	4.83	.00	24.84	13.17	HIGH ASH
72506 D	2114.00	KEROGEN	1.22	81.15	5.17	.00	12.47	9.20	
72506 E	2317.00	KEROGEN	1.23	86.31	6.32	.00	6.13	12.46	HIGH ASH
72506 B	2472.00	KEROGEN	1.02	75.44	5.62	.00	17.92	11.55	HIGH ASH
72506 K	2504.00	KEROGEN	.95	79.34	5.31	.00	14.40	11.17	HIGH ASH
72506 O	2566.00	KEROGEN	.92	80.57	5.42	.00	13.09	4.57	
72491 Z	2568.00	KEROGEN	.85	79.81	4.92	.00	14.43	2.19	
72506 M	2624.00	KEROGEN	.86	80.19	5.86	.00	13.09	11.71	HIGH ASH
72506 Q	2687.00	KEROGEN	.71	80.29	6.47	.00	12.52	8.98	
72506 F	2740.40	KEROGEN	1.02	83.84	6.00	.00	9.14	3.15	
72506 R	2776.60	KEROGEN	1.40	82.25	6.12	.00	10.23	14.98	HIGH ASH
72506 H	2848.00	KEROGEN	1.40	83.74	5.24	.00	9.62	6.66	
72506 S	3013.90	KEROGEN	1.48	86.39	5.18	.00	6.95	3.75	
72506 P	3065.60	KEROGEN	1.09	84.14	5.33	.00	9.44	4.55	
72506 I	3194.00	KEROGEN	1.39	87.07	5.46	.00	6.07	3.69	
72506 G	3196.00	KEROGEN	1.37	86.77	5.20	.00	6.66	5.92	
72506 T	3284.00	KEROGEN	1.21	84.84	5.93	.00	8.02	5.20	
72506 J	3305.00	KEROGEN	1.24	84.96	5.98	.00	7.82	3.96	
72506 A	[illegible]	[illegible]	1.15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	HIGH ASH

Table 5. ESSO AUSTRALIA LTD.

KEROGEN ELEMENTAL ANALYSIS REPORT

N - GIPPSLAND
- BREAM 5

PLE NO.	DEPTH	SAMPLE TYPE	AGE	FORMATION	ATOMIC RATIOS H/C	O/C	N/C	COMMENTS
91 [illegible]	1943.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.89	.08	.01	HIGH ASH
91 X	1950.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.88	.27	.01	HIGH ASH
91 Y	1959.79	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.87	.29	.01	HIGH ASH
90 [illegible]	1972.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.86	.24	.01	HIGH ASH
90 F	1987.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.89	.20	.01	HIGH ASH
90 [illegible]	2002.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.89	.19	.01	
90 C	2017.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.90	.12	.01	HIGH ASH
90 [illegible]	2027.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.77	.11	.01	
90 [illegible]	2062.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.83	.27	.01	HIGH ASH
90 J	2119.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.76	.12	.01	
90 K	2217.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.88	.05	.01	HIGH ASH
90 [illegible]	2272.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.89	.18	.01	HIGH ASH
90 [illegible]	2302.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.80	.14	.01	HIGH ASH
90 [illegible]	2322.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.81	.12	.01	
91 Z	2347.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.74	.14	.01	
90 [illegible]	2362.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.86	.12	.01	HIGH ASH
90 [illegible]	2377.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.97	.12	.01	
90 [illegible]	2392.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.80	.08	.01	
90 [illegible]	2407.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.89	.09	.01	HIGH ASH
90 [illegible]	2422.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.75	.09	.01	
90 [illegible]	2437.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.72	.06	.01	
90 [illegible]	2452.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.70	.06	.01	
90 [illegible]	2467.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.75	.05	.01	
90 [illegible]	2482.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.72	.06	.01	
90 [illegible]	2497.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.84	.07	.01	
90 [illegible]	2512.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.84	.07	.01	
90 A	2527.50	KEROGEN	EOCENE-LATE CRET.	LATROBE GROUP	.89	.06	.01	HIGH ASH

Table 6. ESSO AUSTRALIA LTD.

ROCK EVAL ANALYSES

IN - GIPPSLAND
L - BREAM 5

REPORT A - SULPHUR & PYROLYZABLE CARBON

PLE NO.	DEPTH	SAMPLE TYPE	AGE	TMAX	S1	S2	S3	PI	S2/S3	PC	COMMENTS
91 V	1125.0	SWC	RECENT-MIOCENE	414.	.35	.84	.72	.29	1.17	.10	
90 X	1881.0	SWC	EOCENE-LATE CRET.	416.	.17	.29	.38	.37	.76	.04	
90 O	1921.0	SWC	EOCENE-LATE CRET.	416.	.11	.12	.22	.48	.55	.02	
07 B	1948.9	CORE	EOCENE-LATE CRET.	422.	.76	4.25	.39	.15	10.90	.42	
07 F	1963.2	CORE	EOCENE-LATE CRET.	419.	1.50	19.04	1.13	.07	16.85	1.70	
90 G	1972.5	SWC	EOCENE-LATE CRET.	420.	2.32	14.97	.94	.13	15.93	1.44	
90 C	2017.4	SWC	EOCENE-LATE CRET.	424.	.65	6.06	.53	.10	11.43	.56	
06 B	2472.0	SWC	EOCENE-LATE CRET.	429.	1.68	9.45	.46	.15	20.54	.92	
06 M	2624.0	SWC	EOCENE-LATE CRET.	435.	1.69	7.42	.35	.19	21.20	.76	
06 U	3009.5	SWC	EOCENE-LATE CRET.	446.	1.89	4.51	.48	.30	9.40	.53	
06 V	3062.0	SWC	EOCENE-LATE CRET.	446.	1.09	1.97	.16	.36	12.31	.25	
06 W	3106.0	SWC	EOCENE-LATE CRET.	443.	.92	1.51	.10	.38	15.10	.20	
06 X	3261.0	SWC	EOCENE-LATE CRET.	450.	3.10	9.90	.22	.24	45.00	1.08	
06 J	3305.0	SWC	EOCENE-LATE CRET.	449.	2.79	8.81	.21	.24	41.95	.96	
06 A	3320.0	SWC	EOCENE-LATE CRET.	448.	4.24	15.37	.28	.22	54.89	1.63	

PRODUCTIVITY INDEX PC=PYROLYZABLE CARBON TC=TOTAL CARBON HI=HYDROGEN INDEX OI=OXYGEN INDEX

Table 6 cont.

ESSO AUSTRALIA LTD.

ROCK EVAL ANALYSES

IN - GIPPSLAND
- - BREAM 5

REPORT B - TOTAL CARBON, H/O INDICES

PLE NO.	DEPTH	SAMPLE TYPE	FORMATION	TC	HI	OI	HI/OI	COMMENTS
91 V	1125.0	SWC	GIPPSLAND LIMESTONE	.62	135.	116.	1.16	
90 X	1881.0	SWC	LATROBE GROUP-GURNARD FM	1.13	25.	33.	.76	
90 O	1921.0	SWC	LATROBE GROUP-GURNARD FM	.70	17.	31.	.55	
07 B	1948.9	CORE	LATROBE GROUP	3.61	117.	10.	11.70	
07 F	1963.2	CORE	LATROBE GROUP	5.81	327.	19.	17.21	
90 G	1972.5	SWC	LATROBE GROUP	5.64	265.	16.	16.56	
90 C	2017.4	SWC	LATROBE GROUP	2.42	250.	21.	11.90	
06 B	2472.0	SWC	LATROBE GROUP	4.42	213.	10.	21.30	
06 M	2624.0	SWC	LATROBE GROUP	3.75	197.	9.	21.89	
06 U	3009.5	SWC	LATROBE GROUP	.75	601.	64.	9.39	
06 V	3062.0	SWC	LATROBE GROUP	1.40	140.	11.	12.73	
06 W	3106.0	SWC	LATROBE GROUP	1.07	141.	9.	15.67	
06 X	3261.0	SWC	LATROBE GROUP	4.45	222.	4.	55.50	
06 J	3305.0	SWC	LATROBE GROUP	4.57	192.	4.	48.00	
06 A	3320.0	SWC	LATROBE GROUP	6.53	235.	4.	58.75	

T.O.C. = Total organic carbon, wt. %
S1 = Free hydrocarbons, mg HC/g of rock
S2 = Residual hydrocarbon potential (mg HC/g of rock)
S3 = CO2 produced from kerogen pyrolysis (mg CO2/g of rock)
PCA = 0.083 (S1 + S2)

Hydrogen Index = mg HC/g organic carbon
Oxygen Index = mg CO2/g organic carbon
PI = S1/S1+S2
Tmax = Temperature Index, degrees C.

PRODUCTIVITY INDEX PC=PYROLYZABLE CARBON TC=TOTAL CARBON HI=HYDROGEN INDEX OI=OXYGEN INDEX

Table 7. ESSO AUSTRALIA LTD.

C15+ EXTRACT ANALYSES

REPORT A - EXTRACT DATA (PPM)

- GIPPSLAND
- BREAM 5

LE NO.	DEPTH	TYPE	AN	AGE	TOTAL EXTRACT	*--- HYDROCARBONS ---* SATS.	AROMS.	TOTAL H/CARBS	*--- NON-HYDROCARBONS ---* ASPH.	ELUTED NSO	NON-ELT NSO	TOTAL NSO	SULPHUR	TOTAL NON/HCS
5 T	2915.00	CTS	2	EOCENE-LATE CRET	1570.	540.	361.	901.	543.	126.	0.	126.	0.	669.
7 B	3035.00	CTS	2	EOCENE-LATE CRET	2420.	586.	644.	1230.	1031.	160.	0.	160.	0.	1191.
7 J	3155.00	CTS	2	EOCENE-LATE CRET	1587.	443.	422.	865.	570.	152.	0.	152.	0.	722.
3 T	3305.00	CTS	2	EOCENE-LATE CRET	1221.	487.	272.	759.	339.	122.	0.	122.	0.	461.

C15+ EXTRACT ANALYSES

REPORT B - EXTRACTS % OF TOTAL

- GIPPSLAND
- BREAM 5

LE NO.	DEPTH	FORMATION	*HYDROCARBONS* SAT. %	AROM.%	*- NON-HYDROCARBONS -* NSO. %	ASPH.%	SULPH%	SAT/AR	HC/NHC	COMMENTS
5 T	2915.00	LATROBE GROUP	34.4	23.0	8.0	34.6	.0	1.5	1.3	NON-MARINE
7 B	3035.00	LATROBE GROUP	24.2	26.6	6.6	42.6	.0	.9	1.0	NON-MARINE
7 J	3155.00	LATROBE GROUP	27.9	26.6	9.6	35.9	.0	1.0	1.2	NON-MARINE
3 T	3305.00	LATROBE GROUP	39.9	22.3	10.0	27.8	.0	1.8	1.6	NON-MARINE

PE601327

This is an enclosure indicator page.
The enclosure PE601327 is enclosed within the container PE902630 at this location in this document.

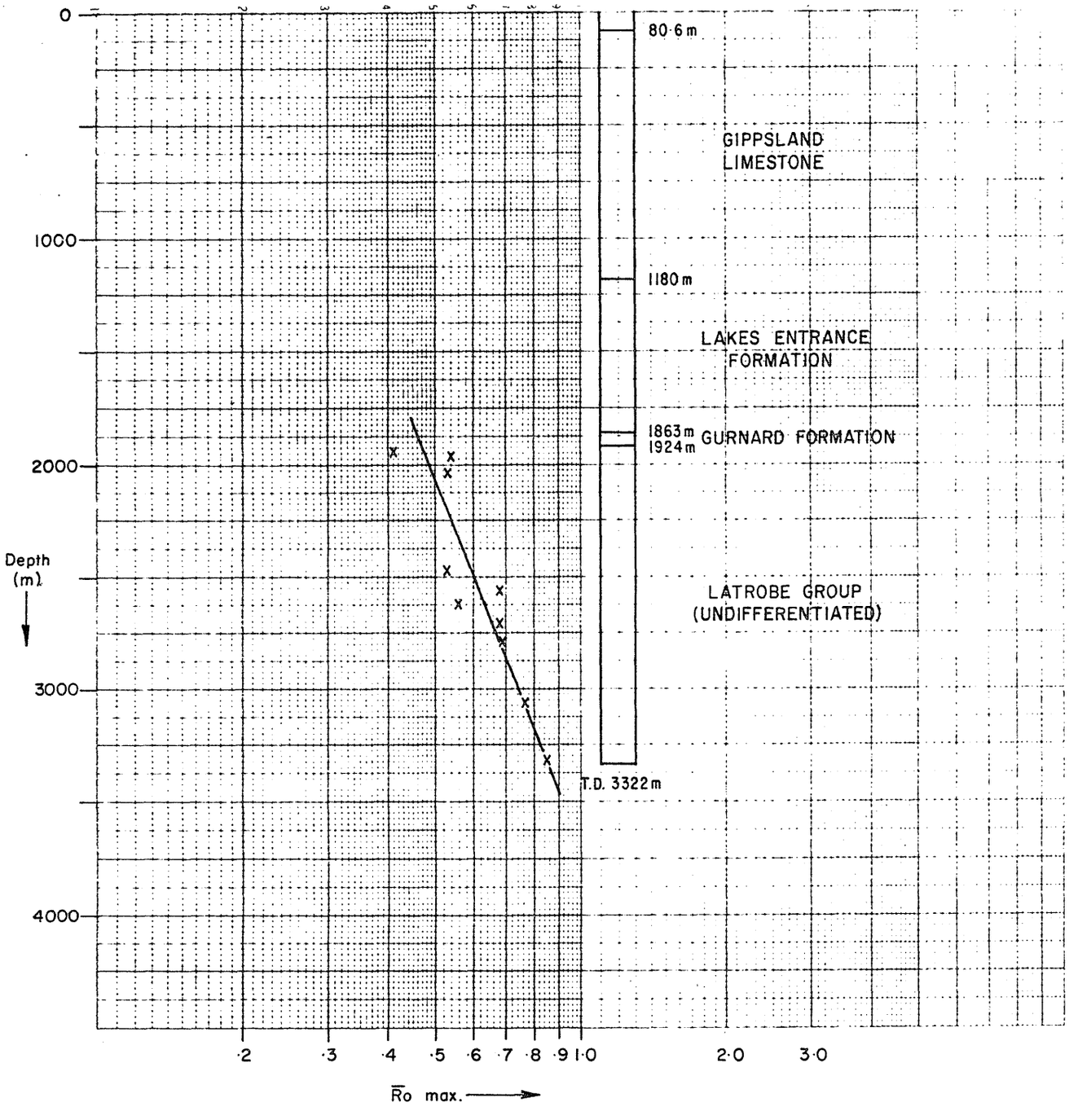
The enclosure PE601327 has the following characteristics:

ITEM_BARCODE	= PE601327
CONTAINER_BARCODE	= PE902630
NAME	= C1-C4 Cuttings Gas Log
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= C1-C4 Cuttings Gas Log (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	=
DATE_RECEIVED	=
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

BREAM - 5

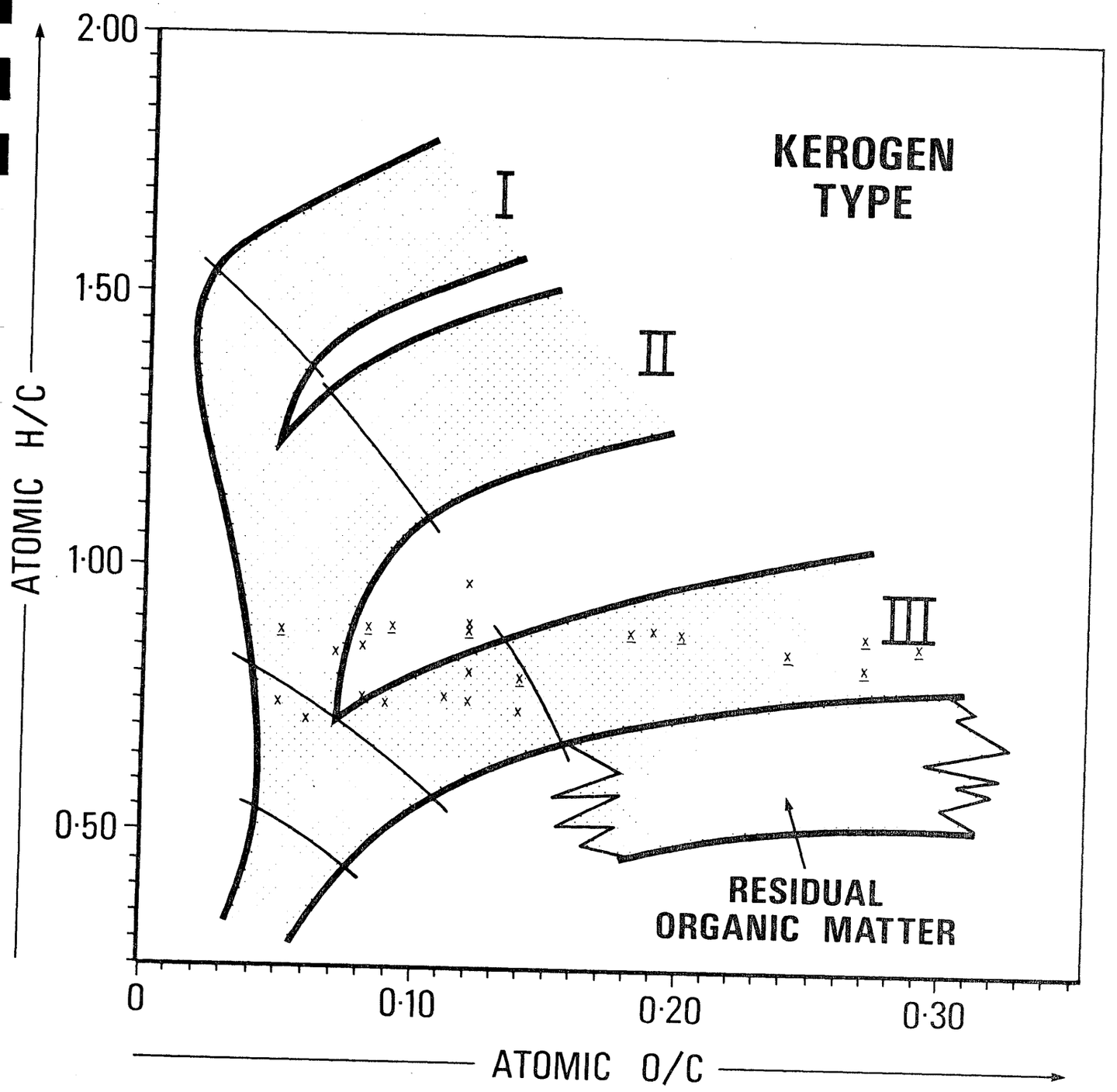
VITRINITE REFLECTANCE vs DEPTH



Dwg 2104/OP/14

Figure 3.

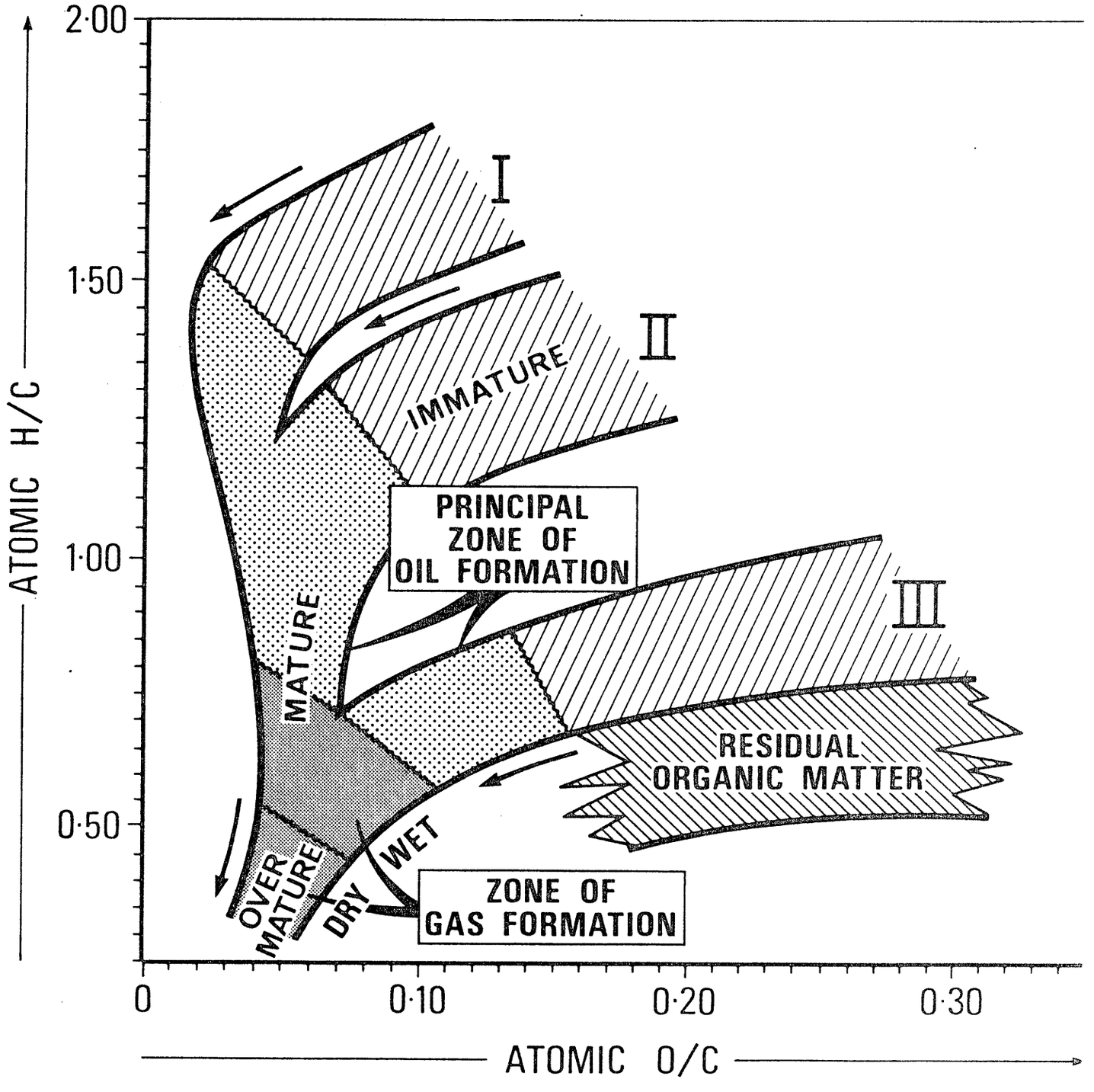
BREAM – 5



x LATROBE GROUP
x (HIGH ASH KEROGEN)

Dwg 2104/3F, 1

FIGURE 4



PRINCIPAL PRODUCTS OF KEROGEN EVOLUTION

CO_2, H_2O

OIL

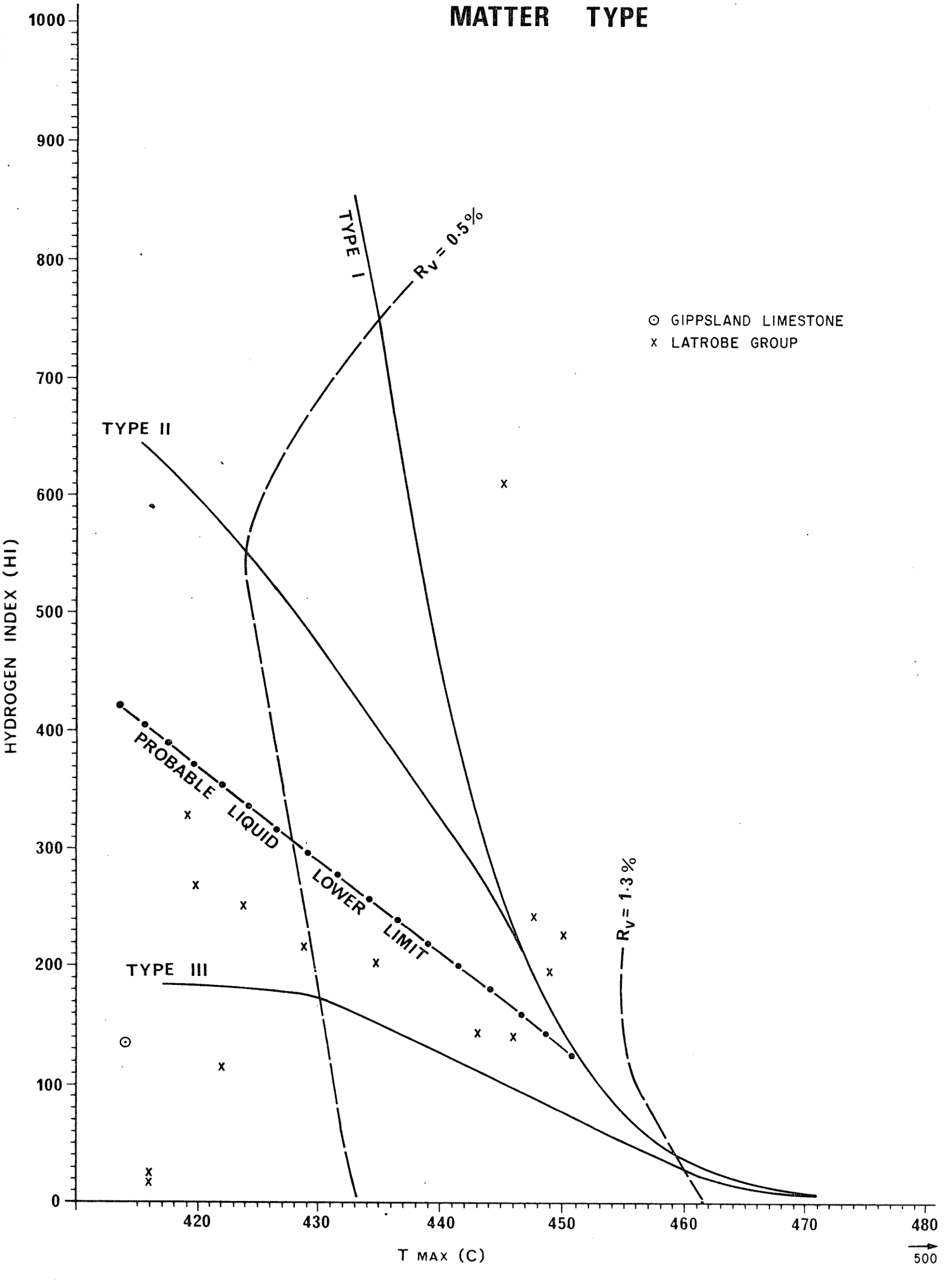
GAS

RESIDUAL ORGANIC MATTER
(NO POTENTIAL FOR OIL OR GAS)

1380/BS/75

BREAM – 5

ROCKEVAL MATURATION AND ORGANIC MATTER TYPE



Dwg. 2104/OP/13

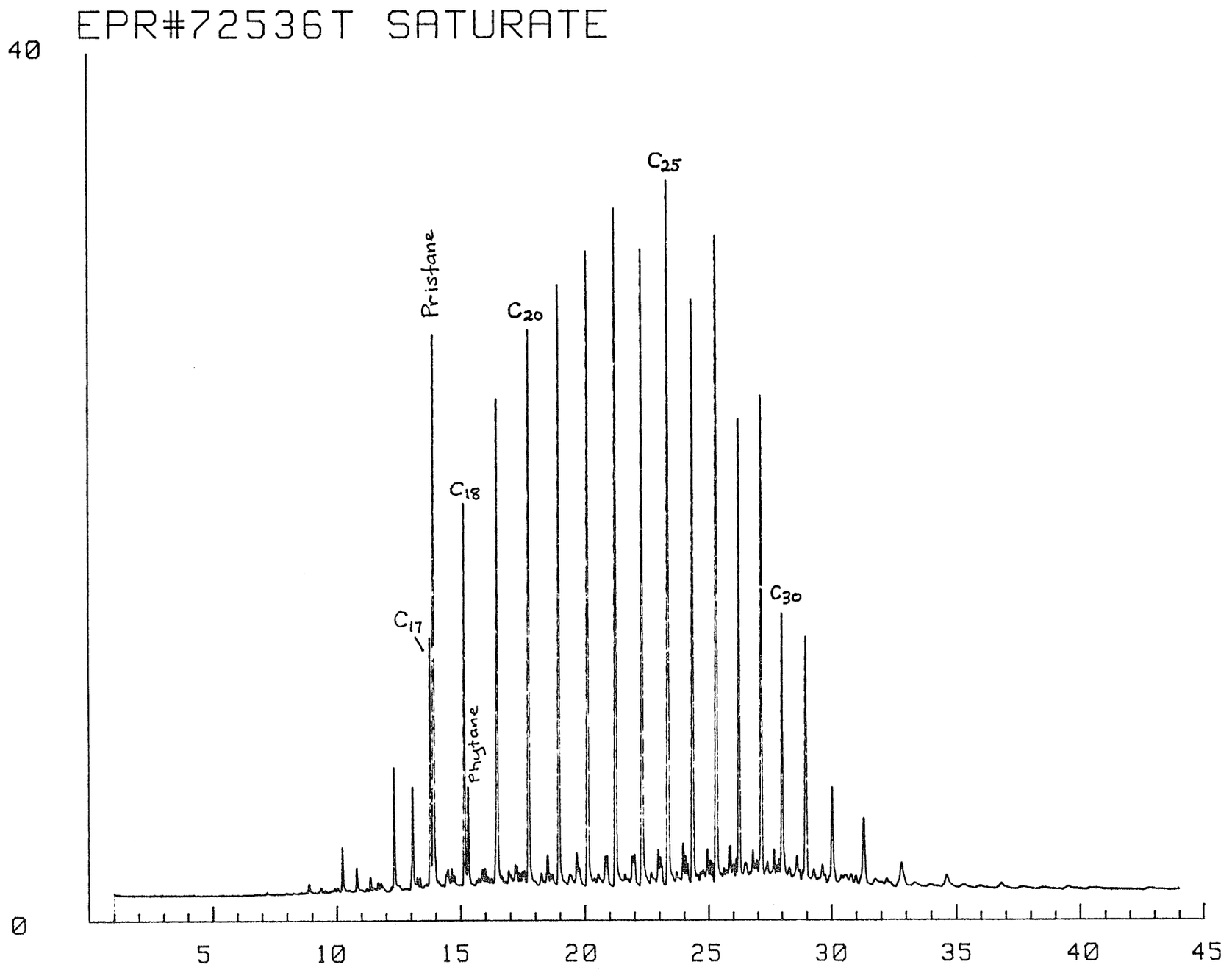


Figure 6 : Bream-5, 2900 - 2915 m(KB), Latrobe Group.

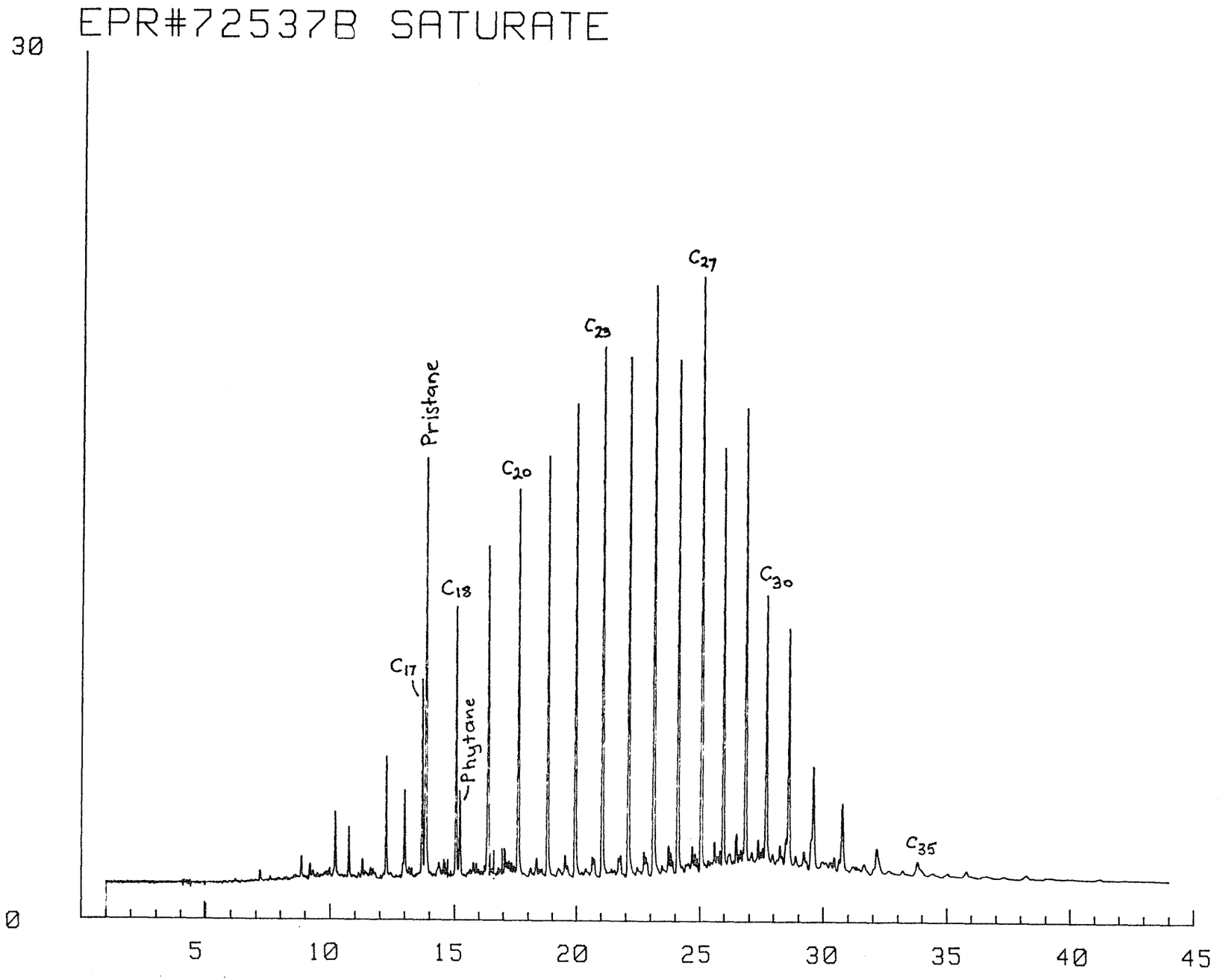


Figure 7: Bream-5, 3020 - 3035 m(KB), Latrobe Group.

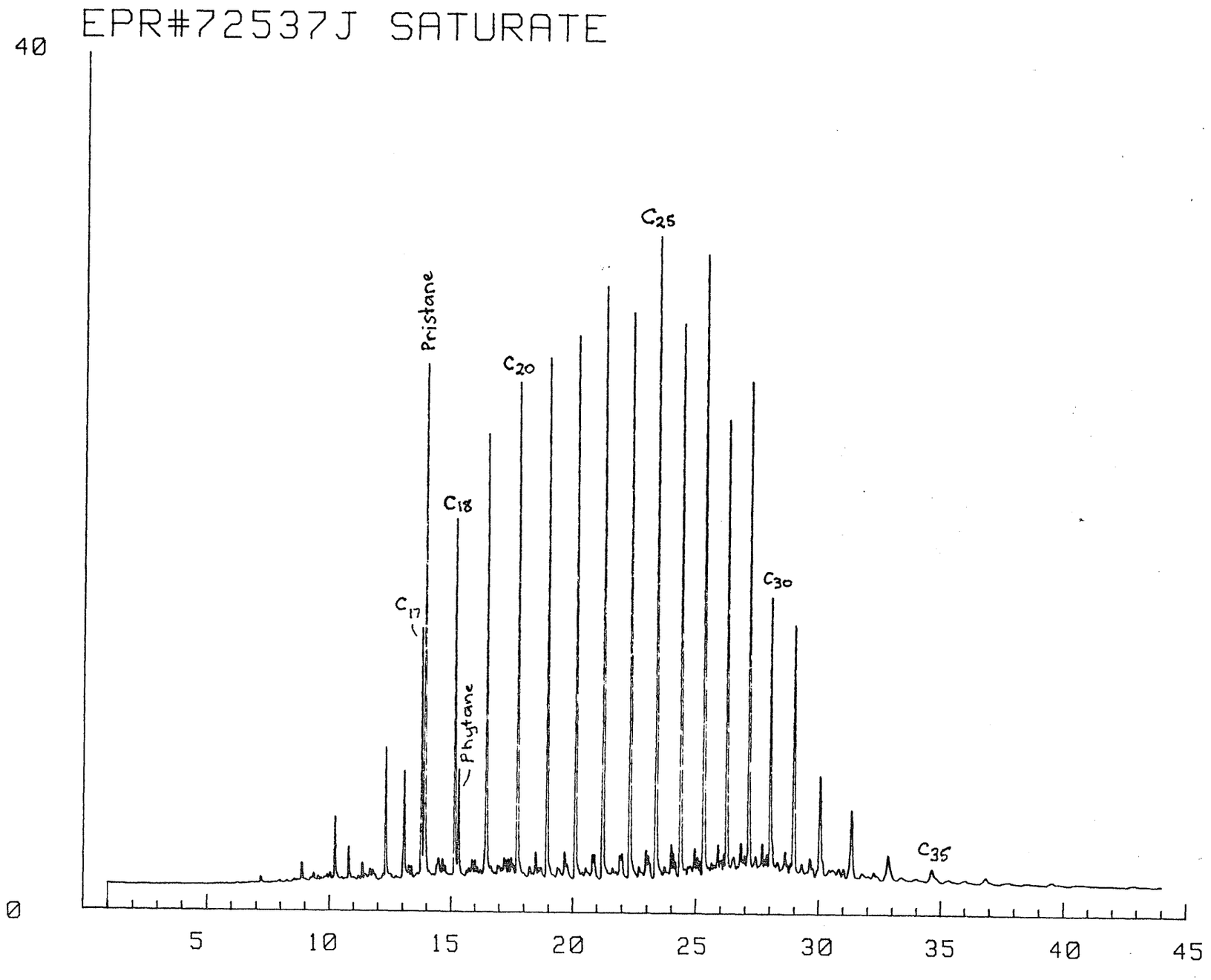


Figure 8: Bream-5, 3140 - 3155 m(KB), Latrobe Group.

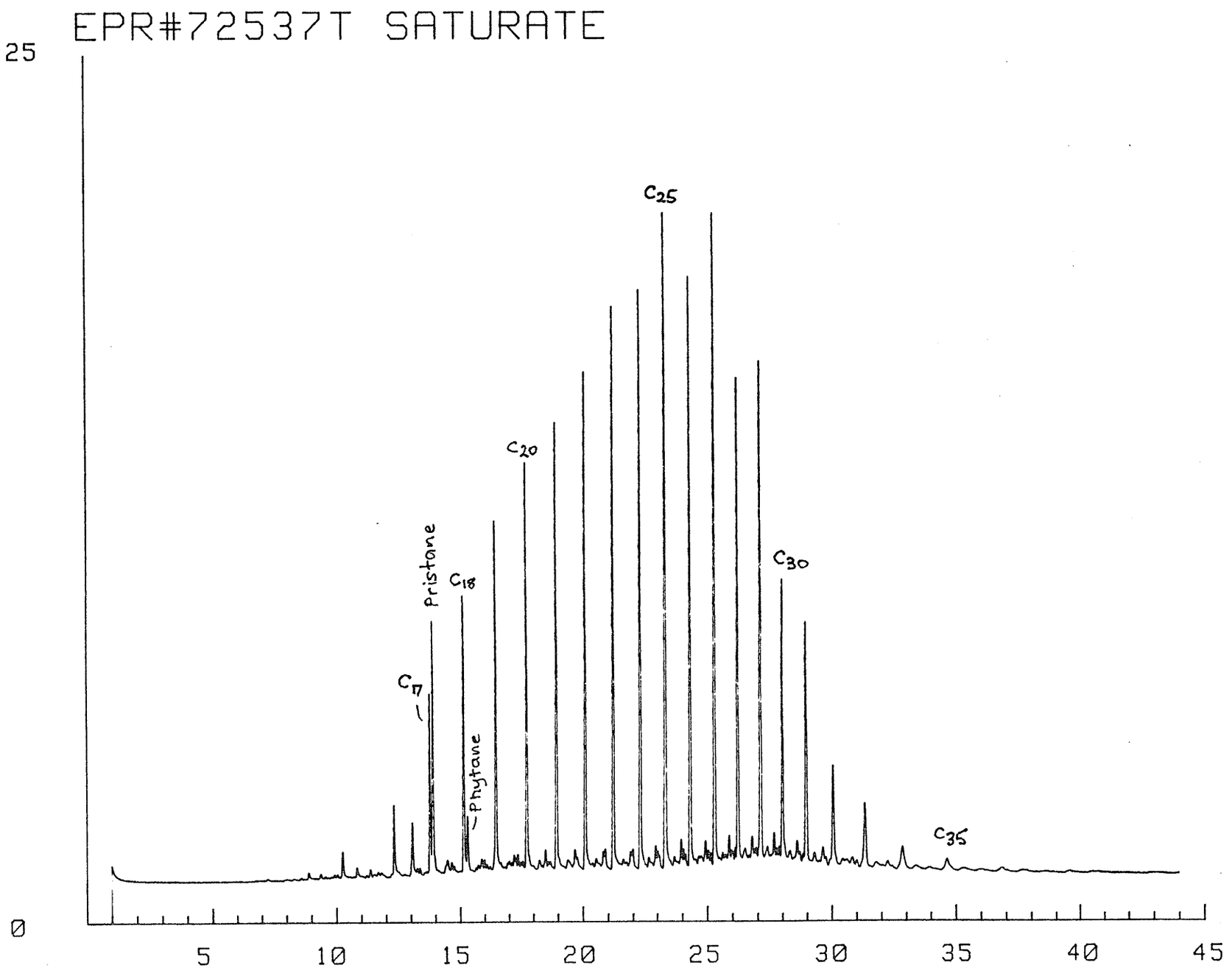


Figure 9: Bream-5, 3290 - 3305 m(KB), Latrobe Group.

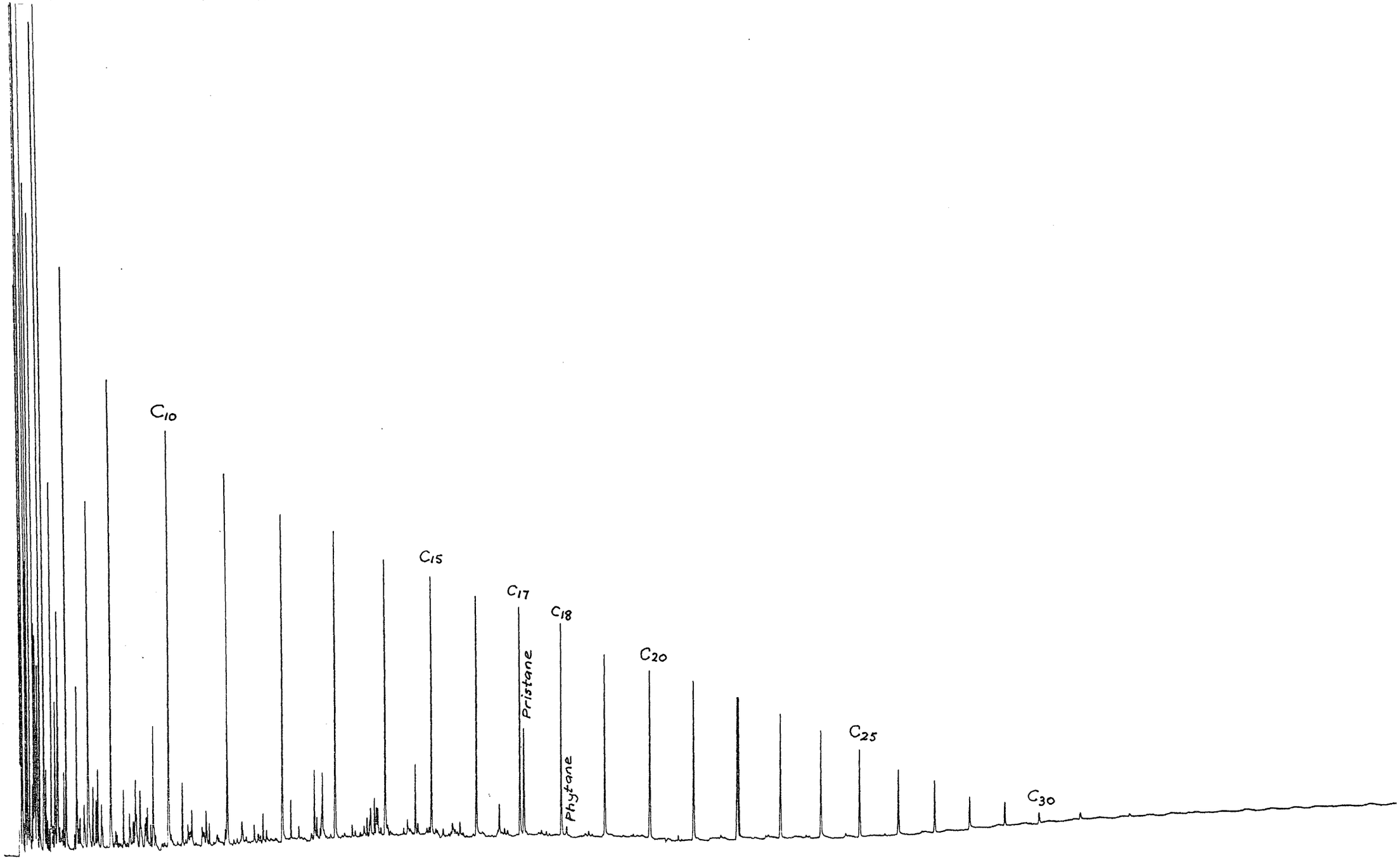


Figure 10. Whole Oil gas chromatogram Bream-5 oil, RFT 3, 1940 m(KB).

APPENDIX-1

Detailed Vitrinite Reflectance and Exinite Fluorescence Data

by A.C. Cook.

BREAM 5

KK No.	Esso No.	Depth m	$\bar{R}_v$ max %	Range R_v max %	N	Exinite fluorescence (Remarks)
			LATROBE GROUP			
			EOCENE - LATE CRETACEOUS			
*16358	BS/ 9	1947.6 Core 1	0.41	0.30-0.45	20	Abundant cutinite and sporinite, yellow, sparse greeinsh yellow to orange. (Claystone, d.o.m. abundant E>V>I. Vitrinite abundant, inertinite sparse. Exinite 15 to 20%. Much of the vitrinite apears to be root material. The clay matrix has weak red-brown fluorescence, and may contain bituminite. Rare pyrite.)
*16359	BS/10 Core	1964.2	0.54	0.49-0.61	20	Common to abundant resinite, yellow to orange, sparse sporinite yellow to orange, cutinite dull orange. (Coal, vitrinite 90%+, exinite 2-4%, inertinite 2-4%, chiefly fungal sclerotinite, but possibly some inertodetrinite. Micrinite present. Vitrite>clarite>clarodurite. Pyrite absent.)
*16360	BS/B11	2029.0 Core	0.37-0.64		20	Sparse sporinite, greenish yellow to orange, rare cutnite and resinite, yellow orange. (Siltstone, d.o.m. abundant, V=I>E. Vitrinite and inertinite common, exinite sparse. Phtyoclasts small and much of vitrinite is probably reworked to a minor extent.)
*16950	BS/ 72506-B	~~2427~~ ?SWC	0.53	0.45-0.63	20	Sparse cutinite and sporinite, yellow to orange. (Carbonaceous claystone, d.o.m. abundant, V>>E>I. Vitrinite abundant, inertinite rare. Most of the phytoclasts are small. Pyrite common.)
*16361	BS/B12	2571.93 Core	0.68	0.58-0.81	25	Common sporinite yellow to orange, common resinite, yellow to dull orange, sparse cutinite orange to dull orange. (Coal. Approx. 75% V, 20% I, 2 to 5% E. Layers of vitrite and clarodurite in about equal proportions. The inertinite is dominantly of higher plant origin, and no undoubted fungal sclerotinite was found. Micrinite is present in much of the vitrinite. Most of the vitrinite shows weak dull brown fluorescence. Very weak green oil cut was noted from the vitrinite and weak negative alteration of the fluorescence intensity of the vitrinite occurred on irradiation for about 1 minute.)
*16951	BS/ 72506-M	2624 ?SWC	0.56	0.37-0.68	22	Sparse cutinite and sporinite, yellow to orange, sparse ?phytoplankton greenish yellow. (Carbonaceous claystone, d.o.m. abundant, V>I>E. Vitrinite abundant, inertinite sparse. Pyrite sparse.)

BREAM 5

KK No.	Esso No.	Depth m	$\bar{R}_v$ max %	Range R_v max %	N	Exinite fluorescence (Remarks)
			LATROBE GROUP			
			EOCENE - LATE CRETACEOUS			
*16362	BS/B13	2712.6 Core	0.68	0.59-0.77	20	Common sporinite, yellow to orange, sparse resinite, yellow orange, rare cutinite, yellow to dull brown. (Coal, approx. 75% V, 20% I, 3 to 5% E. Duroclarite>vitrite. Inertinite is of higher plant origin and includes common fusinized resin bodies.)
*16363	BS/B14 Core	2781	0.69	0.53-0.81	20	Sparse sporinite orange, cutinite yellow to dull orange. (Siltstone with d.o.m. abundant, V=I>E. Vitrinite abundant, inertinite abundant. Some phytoclasts are reworked but some of the vitrinite may represent in situ roots. Pyrite sparse.)
*16952	BS/ 72506-V	3062 ?SWC	0.77 0.52	0.74-0.83 0.46-0.64	5 6	Rare to sparse sporinite and ?phytoplankton, greenish yellow to orange. (Siltstone. Most grains contain no E. Some grains contain sparse to common E and the lower reflectance mode comes from these grains. The remainder of the grains contain no E and give the higher vitrinite reflectance mode. These grains may be heat altered. Some ?bitumen is present. Pyrite sparse.)
*16953	BS/ 72506-A	3320 ?SWC	0.85	0.78-0.92	20	Rare sporinite orange to dull orange. (Claystone/mudstone, with abundant d.o.m., V>I>E. Vitrinite abundant, occurring chiefly as thick layers of telocollinite. These have a speckled texture due to the presence of small mineral inclusions, but an incipient coke mosaic may be present in some layers. Inertinite sparse. Minor heat alteration would be consistent with the subdued exinite fluorescence, but any effects appear to have been small. Pyrite sparse.)

APPENDIX 6

APPENDIX 6

SYNTHETIC SEISMIC TRACE

SYNTHETIC SEISMIC TRACE

PARAMETERS

Well:	Bream-5
TD:	3322mKB
KB:	21m
Water Depth	59.6m
Polarity:	
Pulse Type:	Zero phase, second derivative, gaussian function
Peak Frequency:	28 hz; 300m - 2100m
	25 hz: 2100m - 2300m Note: depths KB
	16 hz: 2300m - 2500m
	13 hz: 2500m - 3321m
Sample Interval:	2 metres
Check Shot Corrections:	Yes
Comments	Density log has been kept constant at 2.19 gm/cc from 206 KB to 781mKB.
	No editing was performed on either log.

PE601328

This is an enclosure indicator page.
The enclosure PE601328 is enclosed within the container PE902630 at this location in this document.

The enclosure PE601328 has the following characteristics:

ITEM_BARCODE	= PE601328
CONTAINER_BARCODE	= PE902630
NAME	= Quantitative Analysis Log
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= WELL_LOG
DESCRIPTION	= Quantitative Analysis Log (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	= 31/12/1982
DATE_RECEIVED	= 16/09/1983
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601329

This is an enclosure indicator page.
The enclosure PE601329 is enclosed within the container PE902630 at this location in this document.

The enclosure PE601329 has the following characteristics:

ITEM_BARCODE	= PE601329
CONTAINER_BARCODE	= PE902630
NAME	= Check Shot Survey
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= SYNTH_SEISMOGRAM
DESCRIPTION	= Check Shot Survey (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	= 22/04/1983
DATE_RECEIVED	= 16/09/1983
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

ENCLOSURES

ENCLOSURES

PE902631

This is an enclosure indicator page.
The enclosure PE902631 is enclosed within the container PE902630 at this location in this document.

The enclosure PE902631 has the following characteristics:

ITEM_BARCODE	= PE902631
CONTAINER_BARCODE	= PE902630
NAME	= Depth Map Top of Latrobe Coarse Clastics Most Likely Case
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= SEISMIC
SUBTYPE	= HRZN_CNTR_MAP
DESCRIPTION	= Depth Map Top of Latrobe Coarse Clastics Most Likely Case (enclosure from WCR) for Bream-1
REMARKS	=
DATE_CREATED	= 31/10/1982
DATE_RECEIVED	= 16/09/1983
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902632

This is an enclosure indicator page.
The enclosure PE902632 is enclosed within the container PE902630 at this location in this document.

The enclosure PE902632 has the following characteristics:

ITEM_BARCODE	= PE902632
CONTAINER_BARCODE	= PE902630
NAME	= Structure Map Lower L balmei Seismic Marker
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= SEISMIC
SUBTYPE	= STRUCTURE_MAP
DESCRIPTION	= Structure Map Lower L balmei Seismic Marker (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	= 30/11/1982
DATE_RECEIVED	= 16/09/1983
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE902633

This is an enclosure indicator page.
The enclosure PE902633 is enclosed within the container PE902630 at this location in this document.

The enclosure PE902633 has the following characteristics:

ITEM_BARCODE	= PE902633
CONTAINER_BARCODE	= PE902630
NAME	= Geological Cross Section
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= CROSS_SECTION
DESCRIPTION	= Geological Cross Section (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	= 28/02/1983
DATE_RECEIVED	= 16/09/1983
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= ESSO
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)

PE601330

This is an enclosure indicator page.
The enclosure PE601330 is enclosed within the container PE902630 at this location in this document.

The enclosure PE601330 has the following characteristics:

ITEM_BARCODE	= PE601330
CONTAINER_BARCODE	= PE902630
NAME	= Well Completion Log
BASIN	= GIPPSLAND
PERMIT	=
TYPE	= WELL
SUBTYPE	= COMPLETION_LOG
DESCRIPTION	= Well Completion Log (enclosure from WCR) for Bream-5
REMARKS	=
DATE_CREATED	= 14/09/1982
DATE_RECEIVED	= 16/09/1983
W_NO	= W781
WELL_NAME	= Bream-5
CONTRACTOR	= South Seas Drilling Co
CLIENT_OP_CO	= ESSO

(Inserted by DNRE - Vic Govt Mines Dept)