10

File

28th August, 1970.

FOR/PRE/WELLS -
2/4-4X

AGIP S.p.A.,
Direzione Mineraria,
C.P. 4174,
San Donato Milanese,
Milano, Italy.

Attention: S. Orioli

Petrofina S.A.,
33 Rue de la Loi,
Brussels 4,
Belgium.

Attention: P. Masson

Elf Norge,
7 Rue Nelaton,
Paris 15,
France.

Attention: F. Bernard

Dear Sirs,

Core Laboratories have examined the cores from our Ekofisk Well No. 2/4-4X for the purpose of determining the existence and orientation of any natural fractures present in the rock. Attached is a copy of their report. This examination was made by Core Laboratories on their own initiative, and not at our specific request. For this reasonsthe report is not up to their usual standard of appearance.

We felt you would find it interesting however.

Very truly yours,

ORIGINAL SIGNED BY
T. J. JOBIN

T. J. Jobin

c.c. F.W. Reynolds
L.H. Hoelscher
B. Boyce

TJJ/PAK/hw

Exhibit II

DEP/NDR/WELLS.

CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: PHILLIPS Country: NORWAY Field: OFFSHORE

Well: 2/4-4AX Formation:_____ Elevation:_____ D.F. Date_____

INSTRUCTIONS:—A sample consisting of 8 to 10 inches should be selected from each foot of core having possible show. Drilling fluid should be siped or brushed off of sample before placing in sack. The specific depth of sample should be marked on sample sack. If part of core other than bottom is believed lost, state how it should be logged in describing core. Cores should be sampled and frozen immediately upon arrival to surface. **Samples submitted for analysis must be accompanied by core information sheet or interpretation of analysis results will be withheld.**

Core No.	Depth of Core	Ft. Rec. (CORED)	CORE DESCRIPTION
1	10150	1	LIMESTONE:- WH-LT GRY, V. HD, W LGE NUMBER OF CHERT NODULES, DK GRY-FRACTURED
			AS ABOVE 'N.B. CHIPS ONLY

BOX 1.

NOT RECOVERED,

NOTE: EACH INTERVAL = 6" ↕

ON CORE 1, FROM DEPTHS ON CORE BOX, LOSS ASSUMED TO BE 17'

14-5

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: PHILLIPS County: NORWAY Field: OFF SHORE

Well: 2/4-4AX Formation:_____ Elevation:_____ D.F. Date_____

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
1 - CONT'D			
BX1			NOT RECOVERED.
	10168		
1 2	10168.		heavily fractured
			predomenantly vertical fractures
			small cavities
			~~shaly~~ shaly c
			shaly
	10171		breccia
			CHERT - VERTICALLY FRACTURED, W LST FRAGS, OCCASSIONALY
			DISSOLVED OUT - SHALY PARTINGS
BOX2 2			VERTICAL FRACTURES
			BROKEN CORE - NUMEROUS SHALY PARTINGS - CHERT NODULES
			HORIZONTAL FRACTURES (SHALE PARTINGS) SOLUTION CAVITIES, LARGE VERTICAL FRACTURES
	10174.		A/A
			VERY LARGE VERTICAL AND ARCUATE FRACTURES
			FEW HORIZONTAL FRACTURES - LITTLE VERTICAL FRACTURING
			SHALY LIMESTONE - NUMEROUS SOLUTION CHANNELS, VERTICAL FRACTURES
BOX3			ALSO HORIZONTAL FRACTURING ALONG SHALE PARTINGS - SOLUTION CAVITIES
2			AS ABOVE
			FEW FRACTURES - SHALE PARTINGS
	10177		POOR FRACTURING - fractures enlarged by solution
			SHALY PARTINGS - SMALL VERTICAL FRACTURES
BOX4 2			A/A
			A/A
			A/A

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: PHILLIPS County: NORWAY Field: OFFSHORE

Well: 2/4-4AX Formation:_____ Elevation:_____ D.F. Date_____

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Core No.	Depth of Core	Cored. Ft. Rec.	CORE DESCRIPTION
BOX 4	2 - CONT'D		LIMESTONE: MD, L. GREY, WITH NUMEROUS SMALL PARTINGS CONTORTED BEDDING COMMON
	10180	1	RARE VERTICAL FRACTURE, ENLARGED BY SOLUTION.
	2	1	SMALL VERTICAL CRACKS,
BOX 5			LARGE VERTICAL CAVITIES AND FRACTURES, ALSO GOOD HORIZONTAL FRACTURING
		1	VERY PROMINENT VERTICAL FRACTURING - SOLUTION CAVITIES
			SMALL SOLUTION CAVITIES - HORIZONTAL PARTINGS. A/A
		1	NUMEROUS SMALL VERTICAL FRACTURES, PARTIALLY CALCITE FILLED.
	10183		FEW FRACTURES
	2		SEVERAL SMALL VERTICAL SOLUTION CAVITIES / FRACTURES - STYLOLITIC
BOX 6			STYLOLITIC PARTINGS, FEW VERTICAL FRACTURES
		1	Numerous solution channels vertical fracturing and some development of stylolites
	10186	1	AS ABOVE
	2		
7			broken pieces
			Solution channels + cavities
	10189		
	2		heavily fractured, vertical, horizontal + inclined, pyritic solution channels, cavities
8			broken pieces
			broken
			broken
	10192		broken
	2		
9			Stylolitic
			small clayey nodules

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

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Well:_____ Formation:_____ Elevation:_____ D.F. Date_____

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
bx 9	2 - CONTD		inclined fracture, List
			clay nodules + calcerous nodules
	10195		stylolitic, pyritic
bx 10	2		vertical fracture + fissures, cavities List
			stylolite
			calcerous nodules
			A1A
			A1A
	10198		A1A
Core bx 1	3		stylolitic, vertically fissured
			List.
	3	10201	
bx 2	3		List. Less calcerous
			broken
			broken
			solution channels, filled.
	10204		heavily fissured
bx 3	3		
			stylolitic
			Replacements + channels thin part heavily fractured
	10207		stylolitic, very small fissures
bx 4	3		

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CORE LABORATORIES, INC.

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Well:_____ Formation:_____ Elevation:_____ D.F. Date_____

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
4	3- CONT'D		Slickensides & fractures
	10210		stylolitic
5	3		vertically fractured & fissured
			calcerous nodules & channels
	10213		
6	3		List., shale laminations, calcerous nodules
	10216		
7	3		List A/A stylolitic w/ vertical fractures & cavities
			Calcerous nodules
	10219		
8	3		broken pieces
	Turn to page		please

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: Phillips County: NORWAY Field: OFFSHORE

Well: 2/4-4AK Formation:_____ Elevation:_____ D.F. Date_____

INSTRUCTIONS:—A sample consisting of 8 to 10 inches should be selected from each foot of core having possible show. Drilling fluid should be siped or brushed off of sample before placing in sack. The specific depth of sample should be marked on sample sack. If part of core other than bottom is believed lost, state how it should be logged in describing core. Cores should be sampled and frozen immediately upon arrival to surface. **Samples submitted for analysis must be accompanied by core information sheet or interpretation of analysis results will be withheld.**

Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
box 1. 4	10220		Mostly flint & chert nodules forming thick bands
			w/ list. of 1" thick channels of replacement
			stylolitic pure List.
			A/A
			A/A
	10223		
2 4			List A/A w/ flint band
			+ stylolitic
			crossed minor fissures
	10226		fractured
box 3 4			stylolites, fractured along stylolites' parting w/ small cavities
			Chalky bands
	10229		vertical fractures
4 4			long vertical fracture ≈ 2mm in width
			broken pieces
	10232		w/ chert bands + stylolites
box 1 Core 5	10280		Numerous stylolites and small diameter vertical fractures solution cavities

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: Phillips County: Norway Field: Offshore

Well: 2/4-4AX Formation:_____ Elevation:_____ D.F. Date_____

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	Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box 1	5			Lst - lt grey, occ stylolitic, occasional horizontal
		10283		and vertical fractures.
	5			Broken core
				Stylolites - strong vertical fracture with solution along f. Some
Box 2				some horizontal fracturing
				Very large vertical fracture
		10286		" " with thinner vertical
	5			fractures and vertical solution cavities
				Faces of large fracture Pyritized
Box 3				Large solution cavity, infilled by calcite & Pyrite
				Large vertical fractures (broken core)
		10289		Large number vertical fractures & stylolites
	5			Broken core
				Multiple vertical fractures - extremely stylolitic - some
Box 4				horizontal fracturing
				Very Prominent vertical fractures
				Solution cavities along vertical fracture planes
		10292		
	5			Small vertical fracaves
				stylolites, some large vertical fractures
Box 5				
				Prominent vertical fractures - stylolites, solution
				cavities along fracture planes
		10295		
	5			
Box 6				Broken core - multiple fracture faces on fragments

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: Phillips County: Norway Field: offshore

Well: 2/4-4 AK Formation:_____ Elevation:_____ D.F. Date_____

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	Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box 6	5			Broken core - multiple fracture faces on all fragments.
		10298		
Box 7	5			Broken core - multiple fracturing evidenced by fracture faces on most fragments.
		10300		
	6	10440		
Box 1				Stylolites, few very small vert. fractures - small soln. cavity
				Stylolites
				small vertical solution cavities along fractures.
		10443		Some very small horizontal fractures - multiple vertical fracturing - extremely stylolitic
Box 2	6			Broken core
				Small horizontal fracture
				Very large inclined vertical fracture
		10446		" "
Box 3	6			Few vertical fractures - 1 small horizontal fracture
				Stylolites
				"
				"
				few fractures.
		10449		"
Box 4	6			— few fractures - no stylolites
				— " "
				Numerous stylolites, prominent vertical fractures.

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: PHILLIPS County: NORWAY Field: EKOFISK

Well: 2/4-4AX Formation: _____ Elevation: _____ D.F. Date _____

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box3			
~~7~~			Stylolites
	10467		stylolites
Box4			Large vertical fracture, solution channels
			stylolites
7			Large vertical fracture
			Multiple parallel semi-vertical fractures
	10470		
Box5			
7			Stylolites, and calcite filled stylolitic fractures (horizontal)
			Broken Core
			Arcuate semi-vertical fractures.
	10473		Stylolites
Box6			
7			
			Multiple vertical fractures - stylolites
			One large vertical fracture - numerous arcuate semi-vertical fractures
			Multiple vertical fractures (core partially broken)
	10476		
Box7			
7			Large vertical fractures - solution channels along fracture planes.
			Stylolites
	10479		
Box8			
7			Large fracture face visible - many stylolites

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box 4			
6			Very large vertical fractures - stylolites
	10452		
			Very large fractures, vertical & horizontal
			Broken Core
			Very large vertical fracture - stylolites
Box 5			
6.			Stylolites
			Large solution cavities along vertical fractures
			Broken Core - extremely stylolitic
	10455		
Box 6			
			Broken Core — " "
			few small vertical fractures
6			
			One good vertical fracture
			Very stylolitic
7	10458		Broken core - fracture faces & stylolites visible
7			few fractures.
			Few fractures - stylolitic
Box 1			
			Horizontal fractures - stylolitic
			Prominent vertical fracture.
	10461		Some vertical fractures & stylolites
7.			Stylolites, small vertical fractures, some solution cavities
Box 2			
			Multiple small vertical fractures - horizontal fractures and solution cavities - one very large vert. fracture
			Broken core
	10464		Very stylolitic - multiple vertical fractures.
7			" " solution cavities
Box 3			
			Stylolites

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CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: Phillips County: Norway Field: E

Well:_____ Formation:_____ Elevation:_____ D.F. Date_____

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box 8 7	10480		Ls +/- lgy-wh - hd compact - hair-line vertical fracture
	10482		Very few fractures
Box 9 7			Large vertical fracture with many small vertical fractures
			Stylolites, small vertical fractures
	10485		
Box 10 7			Horizontal fracture, some small vertical fractures Stylolites
			Stylolites & multiple small vertical fractures
			Broken core - many fracture faces visible on fragments
	10488		Strong semi vertical fractures
Core 8			Broken Core - fracture faces & stylolites
Box 1			Very large vertical fractures Solution cavities - few fractures
			Very large vertical fractures - stylolites (Core partially broken)
	10491		
8			Stylolite - vertical fracturing
Box 2			Vertical fractures, some solution cavities along fractures.
	10494		Very large vertical fractures some stylolites
Box 3 8			Semi Vertical fractures

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box3			
8	10496.5		Strong semi vertical fracturing, some solution channels along fracture planes
			Broken core
			Stylolites
			Stylolites, small solution cavities
	10497		
Box4			
8			Stylolites
			multiple vertical fracturing
			Stylolites - multiple vertical fractures.
	10500		
Box5			
8			Vertical fracturing semi vertical solution channels along fractures
			Stylolitic - vertical fracturing - solution channels along fractures
	10503		
Box6.			
8			Numerous vertical fractures, broken core.
			stylolitic -
			stylotic, few vert. fract. solution cavity?
			stylolitic, semi-vert fractures & solution channels
	10506		Broken segment of core - abdt stylolites
Box7.			
8			Stylolites.
			Numerous vertical fractures, calcite along frac. planes.
			Angled fracture infilled with white calcite. few sol. cavities of stylolites.
			Stylolitic, few vertical frac.
	10508		possible solution cavities.

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CORE LABORATORIES, INC.

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
Box 8	8	10509.5	Faint fractured, semi vertical stylolites.
			Numerous stylolites & vertical fracture cross connected.
			← some calcite.
			stylolitic, calcite infilling vertical fractures.
		10512	
Box 9.	8		Stylolites, vertical and horizontal, small fractures only.
			continuation of large stylolite.
			no fractures.
			Vertical fracture, stylolites, chalky.
		10515	continuation of vertical fracture only.
Box 10	8		fractured & stylolitic pore list.
		10516	
box 1	9	10518	heavily fractured & fissured, 1-2 mm width stylolitic List
			horizontal & vertical stylolits
			A/A
		10521	small fissures & horizontal stylolites
box 2	9		
			A/A
			A/A w/ vertical stylolites.
		10524	A/A
3	9		stylolitic List

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	Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
3	9			stylolitic
		10527		stylolitic, horizontal + Vert.
4	9			
		10530		
5	9			stylolitic, fissured + fractured
				fractures filled w/ calcite crystal
				Vertical + horizontal fractures
				cavities + solution channels
				bands of diffent colour chert w/ nodules
		10533		vertical + horizontal fissures
6	9			
				wide fractures
				abundant stylolite
		10536		
7	9			
				rarely stylolitic
				calcite replacement
		10539		
8	9			

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
box 8			
9			horizontal + vertical fractures + stylolites
			broken pieces
	10542		
9			
			broken pieces in sacks. heavily stylolite, fissured + fractured
	10545		Fluorescence as milky to gold colour through
9			bedding planes, fissured, fractures but
			rarely through the stylolites or the
10			replacents
	10548		
10			stylolitic, heavily fractured + fissured
			calcite replacent
	10551		
10			
	10554		

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
10			
			stylolitic, solution channels List
	10557		
10			broken
			vertical fractures + stylolites
			calcite replacement
	10560		
10			
	10563		
10			
			very few stylolites
	10566		
10			

3

4

5

6

7

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CORE LABORATORIES, INC.

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
2	11		
	10584		
3			heavily fractured & fissured w/ stylolites
	10587		A/A w/ bands of different calcareous material
4	11		
	10590	11	
5	11		A/A w/ stylolites
	10593		
6	11		A/A
	10596		A/A
7	11		heavily stylolitic w/ bands & fissures along the stylolites

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
7	10	10569	Thick fractures
8	10		
		10572	
9	10		
			broken pieces showing little stylolite
			+ very few fractures.
		10575	
10	10		mainly para List.
		10578	
1	11	1	bands of calcareous material & dispersed colour
		1	
		thin	stylolites
		1	long vertical fractures
		10581	
2	11		
			heavily fractured & fissured
			vertical & inclined long fractures
			w/ stylolites

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Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
7	11		heavily fractured, fissured, & abundant stylolites, vertical & inclined fractures.
	10599		
8	11		heavily fractured & fissured, vertical inclined and horizontal fractures, solution channels, cavities filled w/ calcite & stylolitic showing broken pieces
	10602		
9	11		broken pieces showing heavy & wide fractures stylolites, fissures.
	10605	X	
10	11		broken pieces showing the same as the broken interval of 10603 - 10605
	10608		
box 1	12		Stylolites, vertical joints & fractures, solution channels
	10		Calcite-filled solution cavities - discontinuous semi-vertical
			fractures - stylolites.
			Two very large angled fractures - stylolites
			Multiple small vertical fractures
	10611		+ small solution channels & stylolites
2			Large Number of stylolites - solution cavities
			Stylolites - horizontal fractures & soln. cavities

CL-512

CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: Phillips County: NORWAY Field: Offshore

Well: 2/4-4AX Formation:_____ Elevation:_____ D.F. Date_____

INSTRUCTIONS:—A sample consisting of 8 to 10 inches should be selected from each foot of core having possible show. Drilling fluid should be siped or brushed off of sample before placing in sack. The specific depth of sample should be marked on sample sack. If part of core other than bottom is believed lost, state how it should be logged in describing core. Cores should be sampled and frozen immediately upon arrival to surface. **Samples submitted for analysis must be accompanied by core information sheet or interpretation of analysis results will be withheld.**

Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
12	10612.5		Abundant stylolites – very small vertical fractures – some arcuate horizontal fracturing.
Box 2			
	10614		Stylolites
12			Vertical stylolite and vertical fractures + soln channels
			As above; also horizontal fracturing + also solution cavities
Box 3			
			Multiple small vertical fractures
	10617		Many stylolites
12			
			Stylolites
Box 4			
			Numerous stylolites
	10620		Two large vertical fractures
12			Stylolites
Box 5			
			stylolites – few fractures
			Vertical fractures.
	10623		Vertical fractures
12			
			Arcuate semi-vertical fractures.
Box 6			
			Multiple large vertical fractures
	10626		
Box 7 12			Stylolites

CL-512

CORE LABORATORIES, INC.

CORE INFORMATION CL_____

Company: Phillips County:_____ Field:_____

Well: 2/4 6AX Formation:_____ Elevation:_____ D.F. Date_____

INSTRUCTIONS:—A sample consisting of 8 to 10 inches should be selected from each foot of core having possible show. Drilling fluid should be siped or brushed off of sample before placing in sack. The specific depth of sample should be marked on sample sack. If part of core other than bottom is believed lost, state how it should be logged in describing core. Cores should be sampled and frozen immediately upon arrival to surface. **Samples submitted for analysis must be accompanied by core information sheet or interpretation of analysis results will be withheld.**

Core No.	Depth of Core	Ft. Rec.	CORE DESCRIPTION
12.	10627		Large vertical fracture – stylolites
Box 7			
			Stylolitic – well fractured vertically
	10629		
12			Abundant stylolites + vertical & semi-vertical fractures
Box 8			
			Very large vertical fractures
	10632		Stylolites
12			
			Stylolites – few fractures
Box 9			
			Two prominent vertical fractures
			Moderately stylolitic
	10635		few small semi-vertical fractures
12			
			few fractures – horizontal stylolites
Box 10			
			Broken Core – stylolites and fracture
	10638		planes visible on fragments.

CL-512

WELL FILE
2/4-4A

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS RESULTS

Company PHILLIPS PETROLEUM COMPANY | Formation | File UKCA 295
Well 2/4-4AX | Core Type | Date Report 1.9.70
Field Ekofisk | Drilling Fluid | Analysts RFB
County North Sea State Norway Elev. Location

Lithological Abbreviations

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

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER	
		Ka	Kl				
1	10167	<0.01	<0.01	0.2			Ls,lt gy,vf gr, chert
2	68	0.071	0.04	12.5			A.A, wh, hd.
3	69	0.014	0.01	5.6			A.A, arg, bnds.
4	70	0.014	0.01	8.4			Ls, conglom, dk gy matrix, wh lt frags.
5	71	<0.01	<0.01	10.1			A.A.
6	72	0.042	0.02	12.4			A.A, lt gy matrix
7	73	0.062	0.03	16.6			Ls, wh, xln, homo.
8	74	0.11	0.07	19.1			A.A.
9	75	0.042	0.02	12.8			Ls, conglom, dk gy matrix,wh lt frags.
10	76	0.067	0.04	13.5			Ls, wh,hd,xln.
11	77	<0.01	<0.01	5.9			A.A, pyrite.
12	78	0.14	0.08	4.7			A.A, gy chert,vf arg bands.
13	79	0.19	0.11	4.5			A.A, pyrite.
14	80	0.03	0.02	7.8			A.A, less arg.
15	81	0.03	0.02	6.2			A.A.
16	82	0.07	0.04	11.2			A.A, sl frac.
17	83						A.A.
18	84	0.042	0.02	13.5			A.A.
19	85	0.09	0.06	13.8			Ls,vf,xln.
20	86						A.A.
21	87	0.19	0.11	19.7			A.A, shell frags.
22	88	0.39	0.25	24.1			A.A.
23	89	0.46	0.29	23.3			A.A.
24	90	0.55	0.36	22.3			A.A.
25	91	0.42	0.27	27.4			A.A.
26	10192	0.81	0.54	31.5			A.A.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
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Well 2/4-4AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS Ka	PERMEABILITY MILLIDARCYS Kl	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
27	10193	0.64	0.40	29.8			Ls,vf,xln stylolitic.
28	94	0.37	0.23	25.2			A.A, frag,arg tr.
29	95						No plug possible, A.A.
30	96	0.48	0.31	24.6			A.A.
31	97	0.48	0.31	24.6			Lt gy, f, gran, (?) ls & ill-sorted,rdd, ls frag.
32	98	0.19	0.12	20.6			Ls, lt gy,vfg,hd.
33	99	0.25	0.16	24.8			Wh,hd,xln,ls / small chert patches.
34	10200	1.59	1.00	23.8			A.A, no chert, num stylolitic partings.
35	01	0.23	0.14	21.2			A.A, & small rdd, ls frags.
36	02	0.21	0.13	22.6			Wh,hd,xln,ls, & v small pyr, patches.
37	03	0.19	0.12	23.0			A.A, & weak (solution ?) partings.
38	04	0.54	0.35	27.5			Wh,hd,xln,ls,tr arg mat.
39	05	0.42	0.27	25.5			A.A.
40	06	0.52	0.34	29.0			A.A, & v small wh ls frags.
41	07	0.57	0.37	29.3			A.A, & more num frags.
42	08	0.61	0.40	29.0			A.A.
43	09	0.54	0.35	20.7			Wh,hd, patchy ls.
44	10	0.22	0.13	19.2			A.A, & num v weakly developed stylolite bnds.
45	11	0.13	0.08	18.1			Gy-wh, streaky ls, & small wh ls frags.
46	12	0.36	0.23	22.2			A.A.
47	13	0.38	0.24	25.4			A.A.
48	14	0.47	0.30	27.0			A.A, mtx, more homogeneous.
49	15	0.51	0.33	27.1			A.A, frags larger ill sorted.
50	16	0.32	0.20	24.5			A.A.
51	17	0.092	0.05	13.7			Lt gy bnd ls, f xln, v hd, frags & stylolite bnds.
52	18	2.1	1.5	33.1			Wh, homogeneous, f gran ls.
53	19	0.93	0.63	31.4			A.A, & num minute dtrl grs.
54	20						No plug possible.
55	10221	0.64	0.42	29.1			A.A, & num minute dtrl grs.

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS Ka	PERMEABILITY MILLIDARCYS Kl	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
56	10222	0.67	0.44	30.2			Wh, homogeneous, f gran ls & small arg patches.
57	23	0.56	0.36	29.2			A.A, & shell frags.
58	24	1.4	1.00	27.0			A.A, & stylolites & f frac.
59	25	0.54	0.35	23.6			No sample.
60	26	0.33	0.21	38.6			A.A, & stylolites & f frac.
	27	0.62	0.41	26.7			Wh, hd, xln, ls, /num, weak stylolitic bnds.
62	28	0.45	0.29	26.1			A.A, & f ls, & shell frags.
63	29	2.78	1.90	26.7			A.A.
64	30	1.00	0.68	33.2			A.A.
65	31	1.03	0.8	29.8			A.A.
66	10280	2.36	1.7	33.4			Wh, homogeneous, sly coarser gran ls.
67	81	2.20	1.6	33.8			A.A, & minute dtrl grs.
68	82	2.14	2.1	35.2			A.A.
69	83	2.6	1.9	34.6			A.A.
70	84	1.5	1.0	26.2			A.A.
71	85	3.00	2.2	33.6			A.A, softer.
72	86	3.05	2.2	31.5			A.A.
73	87	2.98	2.2	34.8			A.A.
74	88	2.90	2.1	33.8			A.A, & minute shell frags.
75	89½	2.20	1.6	30.2			A.A.
76	10290	2.06	1.5	33.7			A.A.
77	91	2.80	2.0	35.8			A.A.
78	92	2.00	1.4	34.5			A.A.
79	93	2.43	1.7	26.8			A.A, & shell mat, & a few f frac.
80	94	1.76	1.3	33.4			A.A, finer grd.
81	95						No plug possible.
82	10299	1.35	1.0	30.6			A.A.
83	10440	0.23	0.14	19.9			A.A, xln, hdr.
84	41	0.27	0.17	20.8			A.A, stylolitic.
85	10442	2.8	2.0	16.1 ✓			A.A, stylolitic.

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER	
		Ka	Kl				
86	10443	0.51	0.33	21.7			Wh, homo, sl coarser, gran ls, v hd,xln
87	44	0.60	0.39	26.8			Wh, homo, sl coarser, gran ls.
88	45	0.92	0.62	27.5			A.A.
89	46	0.95	0.65	27.5			A.A.
90	47	0.34	0.21	21.0			A.A, sylolitic.
91	48	0.23	0.14	17.6			Wh, hd, xln, ls, / sylolitic frac.
	49	0.51	0.33	22.8			A.A, no stylolites.
93	10450	0.37	0.23	20.9			A.A.
94	51	0.33	0.21	21.3			A.A.
95	52	0.56	0.36	23.8			A.A.
96	53	0.40	0.26	21.4			A.A.
97	54	0.48	0.31	24.4			A.A, & stylolites.
98	55	1.0	0.68	17.9 ✓			A.A, & stylolites.
99	56	0.47	0.30	23.6			A.A.
100	57	0.80	0.54	23.2			A.A.
101	58	0.34	0.21	22.0			A.A.
102	59	7.4	5.7	23.9			A.A, & num, G stylolitic frac.
103	10460	0.87	0.58	28.4			A.A, chk, appearance.
104	61	1.11	0.8	27.6			A.A, v hd.
105	62	0.37	0.23	23.0			A.A, v hd.
106	63	0.57	0.37	25.0			A.A, & f dtrl, mat.
107	64	0.85	0.05	15.5			A.A.
108	65	0.04	0.02	12.2			A.A.
109	66	0.25	0.16	20.5			A.A, v f & v hd.
110	67	0.33	0.21	23.5			A.A.
111	68	0.35	0.22	23.2			A.A.
112	69	0.37	0.23	23.1			A.A.
113	10470	0.34	0.21	22.8			A.A, & weak soln. parting.
114	71	0.43	0.28	21.2			A.A.
115	72	0.29	0.18	22.8			A.A.
116	10473	0.15	0.09	19.0			A.A, & stylolites.

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS Ka	PERMEABILITY MILLIDARCYS Kl	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
117	10474	0.18	0.11	12.9			Wh, hd, xln, ls, /stylolitic frac.
118	75	0.40	0.26	23.5			A.A.
119	76	0.44	0.28	23.4			A.A.
120	77	0.48	0.31	24.6			A.A, trs of chert.
121	78	0.23	0.14	11.2			Wh v hd, xln, ls, chalky appearance.
122	79	0.65	0.43	19.1			A.A, & stylolites.
123	80	0.62	0.41	26.0			A.A.
124	81	0.88	0.59	28.0			A.A, & pyrites.
125	82	0.85	0.57	27.2			A.A.
126	83	0.79	0.53	26.7			A.A.
127	84	1.1	0.75	28.6			A.A.
128	85	0.78	0.52	27.3			A.A.
129	86	0.97	0.66	24.7			A.A.
130	87	2.20	1.60	31.7			A.A.
131	88	2.60	1.90	28.5			A.A, & f frac.
132	89	1.20	0.80	28.0			A.A.
133	10490	0.71	0.47	27.5			A.A, & trs f dtrl mat.
134	91	1.50	1.00	28.0			A.A.
135	92	1.35	0.71	28.0			A.A.
136	93	0.37	0.23	20.0			A.A.
137	94	3.05	2.2	19.5 ✓			A.A, & trs f dtrl mat.
138	95	0.81	0.54	27.4			A.A.
139	96	0.80	0.54	25.2			A.A.
140	97	0.56	0.36	25.1			A.A.
141	98						No plug possible.
142	99	2.60	1.90	22.8			A.A.
143	10500	0.65	0.43	23.7			A.A.
144	01						No plug possible.
145	02	0.39	0.25	23.7			A.A.
146	10504	0.75	0.50	18.7			A.A. & stylolites.

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS Ka	PERMEABILITY MILLIDARCYS Kl	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE OIL	RESIDUAL SATURATION PER CENT PORE TOTAL WATER	SAMPLE DESCRIPTION AND REMARKS
147	10505						No plug possible.
148	06						No plug possible.
149	07	0.21	0.13	17.4			Wh, v hd,xln,ls, chalky appearance & soln cracks.
150	08	0.32	0.20	20.3			A.A.
151	09	0.33	0.21	11.0			A.A.
[illegible]	10	0.33	0.21	10.2			Wh, v hd,xln,ls, chalky appearance.
153	11	0.23	0.14	19.2			A.A.
154	13	0.58	0.38	11.0			A.A.
155	14	0.02	0.01	4.2			Mot gy,wh, mainly chert.
156	15	0.54	0.35	12.7			Wh, v hd,xln,ls, chalky appearance.
157	16	0.48	0.31	32.8			A.A.
158	10519	0.37	0.23	21.0			A.A.
159	20	0.47	0.30	20.9			A.A, & stylolites.
160	21	191.0	171.0				A.A, high perm, due to chipped plug.
161	22	317.0	287.0	18.4 ✓			A.A, & G stylolitic partings.
162	23	0.30	0.19	20.4			A.A.
163	24	0.47	0.30	19.0			A.A. & stylolites.
164	25	0.53	0.34	18.6			A.A. & stylolites.
[illegible]	26	0.39	0.25	19.0			A.A.
166	27	4.53	3.20	8.5 ✓			A.A, & stylolites.
167	28	3.82	2.80	24.0			A.A.
168	29	2.50	1.80	12.1 ✓			A.A.
169	10530	5.70	4.30	22.2			A.A, f frac.
170	31	1.10	0.80	16.1			A.A.
171	32	0.70	0.46	10.3			A.A, & so chert.
172	33	0.28	0.17	18.5			A.A.
173	34	0.29	0.18	16.3			A.A.
174	35	0.33	0.21	17.1			A.A, & stylolites.
175	36	0.86	0.58	16.0			A.A.
176	37	1.00	0.68	15.9			A.A.
177	10538	0.92	0.62	16.45			A.A, & dtrl grs.

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER	
		Ka	Kl				
178	10539	0.90	0.60	16.0			Wh, v hd, xln ls, chalky appearance.
179	10540	1.70	1.20	16.3			A.A, & stylolites & f frac.
180	10548	0.34	0.21	16.4			A.A, & dtrl, grs.
181	49	0.60	0.39	16.0			Wh, v hd, xln ls.
182	10550			15.7			A.A.
183	51	0.69	0.45	16.1			A.A.
[illegible]	52	0.29	0.18	18.3			A.A. & stylolites.
185	53	0.87	0.58	17.5			A.A.
186	54	2.20	1.60	16.9			A.A, & stylolitic partings.
187	55	0.21	0.12	18.2			A.A.
188	56	0.24	0.15	19.5			A.A.
189	57	0.21	0.13	18.2			A.A, & dtrl grs.
190	58	0.22	0.13	17.5			A.A.
191	59	0.25	0.16	17.9			A.A, & shell frag.
192	10560	0.41	0.26	17.2			A.A, & stylolites.
193	61	0.28	0.17	18.8			A.A.
194	62	0.33	0.21	19.1			A.A, & dtrl grs.
195	63	0.29	0.18	19.9			A.A.
196	64	0.51	0.33	22.3			A.A, & shell frag.
[illegible]	65	0.50	0.32	22.3			A.A, & num, dtrl grs.
198	66	0.35	0.22	20.4			A.A, & stylolites.
199	67	0.37	0.23	21.3			A.A.
200	68	0.35	0.22	20.3			A.A.
201	69	0.33	0.21	21.6			A.A.
202	10570	0.48	0.31	22.8			A.A, & dtrl grs.
203	71	0.36	0.23	21.9			A.A.
204	72	0.40	0.26	20.7			A.A.
205	73	0.36	0.23	22.7			A.A.
206	74	0.25	0.16	18.8			A.A.
207	75	0.20	0.12	18.7			A.A.
208	10576	0.22	0.13	17.9			A.A.

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Petroleum Reservoir Engineering
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Well 2/4-4AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER	
		Ka	Kl				
209	10577	0.21	0.13	15.1			Wh, v hd, xln ls.
210	78	0.24	0.15	13.6			A.A.
211	79	0.37	0.23	17.9			Wh, v hd xln ls, & dtrl grs.
212	10580	0.24	0.15	17.0			A.A.
213	81½	0.19	0.12	17.4			A.A.
214	82	0.19	0.12	17.9			A.A.
[illegible]	83	0.28	0.17	18.8			A.A.
216	84	0.34	0.21	19.6			A.A.
217	85	0.31	0.19	18.6			A.A.
218	86	0.30	0.19	18.7			A.A. & stylolites.
219	87	0.25	0.16	18.5			A.A.
220	88	0.18	0.11	16.5			A.A.
221	89						No plug possible.
222	10590	0.17	0.10	15.6			A.A.
223	91	0.26	0.16	19.0			A.A.
224	92	1.15	0.80	18.7			A.A, & stylolites.
225	93	0.37	0.23	19.7			A.A.
226	94	0.25	0.16	17.8			A.A.
227	95	0.28	0.17	18.9			A.A.
[illegible]	96	0.48	0.31	20.4			A.A.
229	97	0.56	0.36	20.8			A.A, & dtrl grs.
230	98	0.40	0.26	21.6			A.A.
231	99	0.46	0.29	21.4			A.A.
232	10600	0.69	0.45	20.9			A.A.
233	01	0.38	0.24	22.0			A.A, & stylolites.
234	02	0.46	0.29	21.4			A.A.
235	10609	0.30	0.19	17.8			A.A.
236	10610	0.53	0.34	2.16			A.A.
237	11	0.12	0.07	14.7			A.A, & dtrl grs.
238	12	0.27	0.17	17.9			A.A.
239	10613	0.24	0.15	17.3			A.A.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER	
		Ka	Kl				
240	10614	0.28	0.17	17.6			Wh, v hd xln ls, & dtrl grs.
241	15	0.19	0.12	16.5			Wh, v hd xln ls, v f & stylolites.
242	16	0.06	0.03	14.7			A.A, & shell frag.
243	17	0.03	0.01	9.8			A.A.
244	18	0.04	0.02	12.7			A.A, many dtrl grs.
245	19	0.03	0.01	7.5			A.A.
[illegible]6	10620	0.01	<0.01	8.9			A.A.
247	21	0.06	0.03	12.1			A.A.
248	22	0.01	<0.01	9.3			A.A, & weak stylolite bnd.
249	23	0.01	<0.01	1.2			A.A, & trs,chert.
250	24	0.01	<0.01	10.3			A.A, & weak stylolites.
251	25	0.02	0.01	10.8			A.A, & trs, chert.
252	26	0.01	<0.01	9.4			A.A.
253	27	0.01	<0.01	10.6			A.A, & trs, chert.
254	28	0.01	<0.01	11.5			A.A, & weak stylolites.
255	29	0.01	<0.01	9.3			A.A, & trs, chert.
256	10630	0.02	0.01	11.2			A.A, & trs, chert.
257	31	0.01	<0.01	9.8			A.A.
258	32	0.01	<0.01	11.6			A.A, & chert & stylolites.
[illegible]9	33	<0.01	<0.01	8.0			A.A, & weak stylolites.
260	34	0.01	<0.01	8.9			A.A.
261	35	<0.01	<0.01	10.0			A.A, & weak stylolites
262	10636	0.01	<0.01	6.4			A.A.

PHILLIPS PETROLEUM COMPANY

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ERICO DESCRIPTION OF ROUGH CORE