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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

P# 746

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CORE ANALYSIS RESULTS

Company HUNT OIL COMPANY Formation SMACKOVER File 2106-0499C
 Well #30-4 INT'L PAPER COMPANY Core Type DIAMOND Date Report 10-19-74
 Field WILDCAT Drilling Fluid WATER BASE-5%OIL Analysts JEF
 County GULF State FLORIDA Elev. Location SECTION 30-35-11W

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 MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		INTRP	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
CORE NUMBER 1, 12623-12633; CUT 55 FEET - RECOVERED 54 FEET.							
1	12623-29	<0.01	1.6	6.6	66.5 (6)	LM	NO ODR NO FLU
	29-30				*	LM	
2	30-31	<0.01	1.0	0.	44.6 (6)	LM	NO ODR NO FLU
	31-32				*	LM	
3	32-33	<0.01	1.0	0.	42.4 (6)	LM	NO ODR NO FLU
	33-34				*	LM	
4	34-35	<0.01	.9	0.	47.6 (6)	LM	NO ODR NO FLU
	35-36				*	LM	
5	36-37	<0.01	1.1	20.0	40.0 (6)	LM	NO ODR NO FLU
	37-38				*	LM	
6	38-39	<0.01	.7	0.	23.7 (6)	LM	NO ODR NO FLU
	39-40				*	LM	
7	40-41	<0.01	.8	0.	53.0 (6)	LM	NO ODR NO FLU
	41-42				*	LM	
8	42-43	<0.01	4.0	0.	62.5 (6)	LM	NO ODR NO FLU
	43-44				*	LM	
9	44-45	<0.01	.5	0.	39.5 (6)	LM	NO ODR NO FLU
	45-46				*	LM	
10	46-47	<0.01	.9	0.	46.6 (6)	LM	NO ODR NO FLU
	47-48				*	LM	
11	48-49	<0.01	2.2	0.	67.3 (6)	LM	NO ODR NO FLU
	49-50				*	LM	
12	50-51	<0.01	1.0	0.	43.3 (6)	LM	NO ODR NO FLU
	51-52				*	LM	
13	52-53	<0.01	.9	0.	47.6 (6)	LM	NO ODR NO FLU
	53-54				*	LM	
14	54-55	<0.01	1.9	0.	77.1 (6)	LM	NO ODR NO FLU
	55-56				*	LM	
15	56-57	<0.01	.8	0.	52.3 (6)	LM	NO ODR NO FLU
	57-58				*	LM	
16	58-59	<0.01	.9	12.3	49.2 (6)	LM	NO ODR NO FLU
	59-60				*	LM	
17	60-61	<0.01	.9	0.	46.4 (6)	LM	NO ODR NO FLU
	12661-62		2/1		*	LM	

* NO ANALYSIS BY REQUEST OF CLIENT
 (6) LOW PERMEABILITY

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Petroleum Reservoir Engineering
DALLAS, TEXAS

File 2106-0499C Page No. 2

Well #30-4 INT'L PAPER CO.

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs K _L	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		INTRP	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
18	12662-63	<0.01	1.1	18.7	37.4 (6)	LM	NO ODR NO FLU
	63-64				*	LM	
19	64-65	<0.01	1.0	21.1	42.1 (6)	LM	NO ODR NO FLU
	65-66				*	LM	
20	66-67	<0.01	.9	23.6	47.3 (6)	LM	NO ODR NO FLU
	67-68				*	LM	
21	68-69	<0.01	2.1	5.1	70.9 (6)	LM	NO ODR NO FLU
	69-70				*	LM	
22	70-71	<0.01	2.4	4.4	78.5 (6)	LM	NO ODR NO FLU
	71-72				*	LM	
23	72-73	<0.01	1.4	0.	62.4 (6)	LM	NO ODR NO FLU
	73-74				*	LM	
24	74-75	<0.01	.3	13.4	26.7 (6)	LM	NO ODR NO FLU
	75-76				*	LM	
25	76-77	<0.01	1.1	9.5	37.9 (6)	LM	NO ODR NO FLU
	77-78				*	LM	
26	78-79	<0.01	.9	12.4	49.3 (6)	LM	NO ODR NO FLU
	79-80				*	LM	
27	80-81	<0.01	2.3	0.	75.0 (6)	LM	NO ODR NO FLU
	12681-82		14.5		*	LM	

12682-12683 LOST CORE

* NO ANALYSIS BY REQUEST OF CLIENT
(6) LOW PERMEABILITY

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 DALLAS, TEXAS

Page No. 3**CORE ANALYSIS RESULTS**

Company HUNT OIL COMPANY Formation SMACKOVER File 2106-0499C
 Well #30-4 INT'L PAPER CO. Core Type DIAMOND Date Report 10-19-74
 Field WILDCAT Drilling Fluid WATER BASE-5%OIL Analysts JEF
 County GULF State FLORIDA Elev. Location SECTION 30-3S-11W

Lithological Abbreviations

SAND-SO SHALE-SH LIME-LM	DOLOMITE-DOL CHERT-CH GYPSUM-GYP	ANHYDRITE-ANHY CONGLOMERATE-CONG FOSSILIFEROUS-FOSS	SANDY-SOY 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/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs AL	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		INTRP	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		

CORE NUMBER 2, 12683-12730; CUT 47 FEET - RECOVERED 20 FEET.

28	12683-84	<0.01	1.7	6.3	75.9 (6)	LM	NO ODR NO FLU
29	84-85	<0.01	3.6	5.8	81.7 (6)	LM	NO ODR NO FLU
30	85-86	<0.01	1.6	13.2	52.9 (6)	LM	NO ODR NO FLU
31	86-87	<0.01	1.0	0.	41.5 (6)	LM	NO ODR NO FLU
32	87-88	<0.01	.7	0.	29.6 (6)	LM	NO ODR NO FLU
33	88-89	<0.01	1.3	3.4	16.8 (6)	LM	NO ODR NO FLU
34	89-90	.01	10.3	.9	52.1 (6)	LM	NO ODR NO FLU
35	90-91	<0.01	5.9	3.5	69.9 (6)	LM	NO ODR NO FLU
36	91-92	<0.01	6.1	1.7	63.2 (6)	LM	NO ODR NO FLU
37	92-93	<0.01	4.0	2.6	73.0 (6)	LM	NO ODR NO FLU
38	93-94	<0.01	3.3	3.2	57.0 (6)	LM	NO ODR NO FLU
39	94-95	<0.01	1.7	6.1	61.0 (6)	LM	NO ODR NO FLU
40	95-96	<0.01	5.5	3.7	75.0 (6)	LM	NO ODR NO FLU
41	96-97	<0.01	1.7	0.	50.9 (6)	LM	NO ODR NO FLU
42	97-98	<0.01	1.5	14.4	23.8 (6)	LM	NO ODR NO FLU
43	98-99	<0.01	1.4	7.5	15.0 (6)	LM	NO ODR NO FLU
44	12699-00	<0.01	1.5	0.	42.3 (6)	LM	NO ODR NO FLU
45	12700-01	<0.01	2.2	4.8	48.2 (6)	LM	NO ODR NO FLU
46	01-02	<0.01	3.6	0.	65.0 (6)	LM	NO ODR NO FLU
47	02-03	<0.01	5.1	4.1	73.0 (6)	LM	NO ODR NO FLU
03-03 LOST CORE							
48	12703-09	275	24.0	2.3	76.1	WATER LM	NO ODR NO FLU

12709-12730 LOST CORE

SAMPLE NUMBER 48 GIVEN ARBITRARY DEPTH BY CLIENT, ACTUAL DEPTH
 SOMEWHERE BETWEEN 12703 AND 12730.

(6) LOW PERMEABILITY

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Petroleum Reservoir Engineering

DALLAS, TEXAS

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BUREAU OF GEOLOGY CORE ANALYSIS RESULTS

Company HUNT OIL COMPANY Formation SMACKOVER/NORPH. File 2106-04926
Well #30-4 INT'L PAPER COMPANY Core Type DIAMOND Date Report 10/20/74
Field WILDCAT Drilling Fluid WATER BASE-5%OIL Analysts JEF
County GULF State FLORIDA Elev. Location SECTION 30-35-11W

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 MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		INTRP	SAMPLE DESCRIPTION AND REMARKS	
				OIL	TOTAL WATER			

CORE NUMBER 3, 12730-12747; CUT 17 FEET - RECOVERED 10 FEET.

49	12730-31	<0.01	.3	13.6	54.2 (6)	LM	NO ODR NO FLU
50	31-32	<0.01	1.3	8.1	32.4 (6)	LM	NO ODR NO FLU
51	32-33	<0.01	1.7	6.1	36.6 (6)	LM	NO ODR MINERAL
52	33-34	.06	7.0	0.	84.3 (6)	CON SDY	NO ODR NO FLU
53	34-35	.25	5.6	0.	62.9 WTR(6)	CON SDY	NO ODR NO FLU
54	35-36	.26	6.0	0.	68.2 WTR(6)	CON SDY	NO ODR NO FLU
55	36-37	.65	11.2	1.7	74.3 WTR(6)	CON SDY	NO ODR NO FLU
56	37-38	.36	3.5	1.2	62.6 WTR(6)	CON SDY	NO ODR NO FLU
57	38-39	.43	6.6	0.	72.4 WTR(6)	CON SDY	NO ODR NO FLU
58	12739-40	1.4	7.2	0.	67.1 WATER	CON SDY	NO ODR NO FLU

12740-12747 LOST CORE

(6) LOW PERMEABILITY

3.8 (3)
114.8 (9)
14.5 (10)
22) 133 1 (8%)
132

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PRELIMINARY CORE ANALYSIS

COMPANY HUNT OIL COMPANYDATE 10-26-74 FILE NO 2106-0499WELL # 30-4 INT'L PAPER Co. FIELD WILDCATCOUNTY GULFSTATE FLACORES SIDEWALLDRILLING FLUID WATER BASE

IN. REC.	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY 3 3 8 %	OIL % PORE	TOTAL WATER % PORE	PROBABLE PRODUCTION	OIL % VOL.	GAS % VOL.	FORMATION DESCRIPTION	ODOR	FLUORESCENCE
1.0	12365	X 7.0	21.1	0.0	66.4	(6)	0.0	7.3	SD, FG, SHY, SL. CALC	No	No
.25	12464	9.1	22.4	0.0	75.0	(6)	0.0	5.6	SD, VFG, V. SHY, SL. CALC	No	No
.5	12580	0.5	12.9	0.0	90.1	(6)	0.0	1.2	Lm, GRV	No	No
0	12581	—	—	—	—	—	—	—	EMPTY	—	—
.25	12582	0.2	7.6	0.0	82.9	(6)	0.0	1.3	Lm, GRV	No	No
1.0	12583	0.4	11.8	0.0	94.9	(6)	0.0	0.6	✓ ✓	✓	✓
.25	12584	0.4	13.1	0.0	92.4	(6)	0.0	1.0	✓ ✓	✓	✓
.25	12585	0.7	14.3	0.0	93.0	(6)	0.0	1.0	✓ ✓	✓	✓
.25	12586	1.3	15.4	0.0	91.5	WATER	0.0	1.3	Lm, GRV	✓	✓
1.0	12587	0.8	14.1	0.0	84.4	(6)	0.0	2.2	✓ ✓	No	No
.5	12595	—	—	—	—	1E3	—	—	✓ ✓	—	—
.75	12596	0.1	5.3	0.0	83.0	(6)	0.0	0.9	Lm, GRV	No	No
0	12597	—	—	—	—	—	—	—	EMPTY	—	—
—	12598	—	—	—	—	—	—	—	MOD CAKE	—	—
.25	12599	5.0	22.0	0.0	89.1	WATER	0.0	2.4	Lm, GRV	No	No
.5	12679	—	—	—	—	1E3	—	—	✓ ✓	—	—
.5	12680	—	—	—	—	1E3	—	—	Lm, GRV	—	—
0	12688	—	—	—	—	—	—	—	EMPTY	—	—
0			114.8								

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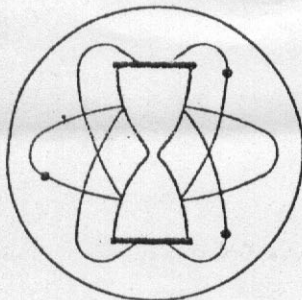
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- (1) ALTERED CORE
 (2) EXPOSED CORE
 (3) INSUFFICIENT SAMPLE

- (4) CORE CONTAMINATED BY DRILLING FLUID
 (5) REFER TO ATTACHED LETTER
 (6) LOW PERMEABILITY

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KRUEGER ENTERPRISES, INC.

GEOCHRON LABORATORIES DIVISION

24 BLACKSTONE STREET • CAMBRIDGE, MA. 02139 • (617)-876-3691

POTASSIUM-ARGON AGE DETERMINATION

REPORT OF ANALYTICAL WORK

Our Sample No. F-5807

Date Received: 15 May 1981

Your Reference: Letter of 5/11/81

Date Reported: 7 July 1981

Submitted by: H. Kelly Brooks
Earth Resources Consultants, Inc.
Suite 3-B
1105 N. Main St.
Gainesville, FLA 32601

Sample Description & Locality: 3. Composite of cuttings from an oil test well,
Hunt Oil Co. Permit 746 from 12,950-12,990 feet.

Material Analyzed: Feldspar concentrate, -60 mesh.

$Ar^{40*}/K^{40} = .05036$

AGE = 709 ± 25 M.Y.

Argon Analyses:

Ar^{40*} , ppm.	$Ar^{40*}/Total\ Ar^{40}$	Ave. Ar^{40*} , ppm.
.3149	.975	
.3671	.971	.3410

Potassium Analyses:

% K	Ave. %K	K^{40} , ppm
5.466		
5.634	5.550	6.771

Constants Used:

$\lambda_{\beta} = 4.72 \times 10^{-10}/\text{year}$

$\lambda_e = 0.585 \times 10^{-10}/\text{year}$

$K^{40}/K = 1.22 \times 10^{-4} \text{ g./g.}$

$$AGE = \frac{1}{\lambda_e + \lambda_{\beta}} \ln \left[\frac{\lambda_{\beta} + \lambda_e}{\lambda_e} \times \frac{Ar^{40*}}{K^{40}} + 1 \right] /$$

Note: Ar^{40*} refers to radiogenic Ar^{40} .

M.Y. refers to millions of years.