

Core Analysis Results

Company PHILLIPS PETROLEUM CO. NORWAY Formation _____ File UKCA 495
 Well 2/4-8AX Core Type _____ Date Report 28.6.72.
 Field TORFELT Drilling Fluid _____ Analysts R.F.B.
 County OFFSHORE State NORWAY Elev. _____ Location NORTH SEA

Lithological Abbreviations

Sand-Sd	Dolomite-Dol	Anhydrite-Anhy	Sandy-Sdy	Fine-Fn	Crystalline-Xlm	Brown-Brn	Fractured-Frac	Slightly-Sl/
Shale-Sh	Chert-Ch	Conglomerate-Cong	Shaly-Shy	Medium-Med	Grain-Grn	Gray-Gy	Lamination-Lam	Very-V/
Lime-Lm	Gypsum-Gyp	Fossiliferous-Foss	Limy-Lmy	Coarse-Cse	Granular-Grn	Vuggy-Vgy	Stylolitic-Sty	With-W/

Core Number	Depth Feet	Permeability Millidarcys		Porosity Per Cent	Residual Saturation Per Cent Pore		GRAIN DENSITY	Sample Description and Remarks
		Ka	Kl		Oil	Total Water		

CORE NO. 1

569	9,795	0.01	<0.01	15.7			2.710	
570	797	0.04	0.02	17.5			2.701	
571	799	0.72	0.48	20.7			2.711	Cracked.
572	800	0.26	0.16	24.9			2.700	
573	801	0.37	0.23	15.3			2.668	
574	803	0.03	0.02	20.4			2.676	
575	9,805							Rubble.

CORE NO. 2

542	9,820	0.17	0.10	22.0			2.694	
543	821	0.35	0.22	30.4			2.704	
544	822							Rubble.
545	823							Rubble.
546	824	0.01	<0.01	18.1			2.690	
547	825	<0.01	<0.01	17.2			2.694	
548	826							Rubble.
549	827	0.04	0.02	19.8			2.695	
550	828							Rubble.
551	829	0.20	0.12	23.8			2.695	
552	830	0.06	0.03	20.4			2.689	
553	831	0.26	0.16	24.3			2.704	
554	832	0.26	0.16	28.3			2.699	
555	833	0.17	0.10	22.6			2.693	
556	834	0.73	0.48	28.3			2.710	
557	835	1.43	1.00	14.2			2.693	
558	9,836	0.41	0.26	28.8			2.705	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

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 Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
		Ka	Kl				
<u>CORE NO. 2 Continued</u>							
559	9,837	1.5	1.00	34.1		2.700	
560	838	0.26	0.16	29.5		2.692	
561	839	0.27	0.17	29.6		2.699	
562	840						Rubble.
563	841						Rubble.
564	842	0.26	0.16	26.1		2.695	
565	843	0.80	0.54	33.5		2.700	
566	844						Rubble.
567	845						Rubble.
568	9,846						Rubble.
<u>CORE NO. 3</u>							
531	9,852	0.03	0.02	16.8		2.687	
532	854	0.04	0.02	16.3		2.702	
533	856	0.17	0.11	22.9		2.699	
534	858	0.06	0.04	14.4		2.702	
535	860	0.13	0.08	25.4		2.699	
536	862	<0.01	<0.01	16.4		2.688	
537	864	0.02	0.01	22.0		2.685	
538	866	<0.01	<0.01	15.3		2.695	
539	868	0.03	0.02	20.8		2.670	
540	870	0.02	0.01	17.9		2.702	
541	9,872	0.01	<0.01	16.7		2.700	
<u>CORE NO. 4</u>							
512	9,873	0.06	0.04	18.0		2.692	
513	874	0.01	<0.01	11.1		2.686	
514	875	0.09	0.05	15.0		2.672	
515	876	0.21	0.13	26.3		2.689	
516	877	0.50	0.32	23.7		2.704	
517	878	0.32	0.20	14.2		2.706	
518	9,879	<0.01	<0.01	14.0		2.700	

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
		Ka	Kl					
<u>CORE NO. 4 Continued</u>								
519	9,880	<0.01	<0.01	13.1			2.683	
520	881	<0.01	<0.01	13.5			2.681	
521	882	1.01	0.69	12.8			2.697	
522	883	0.03	0.02	8.8			2.714	
523	884	0.22	0.13	27.8			2.704	
524	885	0.22	0.13	26.7			2.703	
525	886	0.55	0.36	31.3			2.709	
526	887	0.56	0.36	31.1			2.699	
527	888	0.53	0.34	31.0			2.703	
528	889	0.85	0.57	32.5			2.701	
529	890							Rubble.
530	9,891							Rubble.
<u>CORE NO. 5</u>								
504	9,913	0.08	0.05	14.9			2.685	
505	914	0.02	0.01	9.3			2.703	
506	915	0.15	0.09	17.7			2.688	
507	916	0.22	0.13	23.4			2.696	
508	917							Sample sent to Phillips Research.
509	918	0.19	0.12	23.1			2.691	
510	919	0.29	0.18	20.6			2.697	
511	9,920	0.78	0.52	30.0			2.699	
<u>CORE NO. 6</u>								
471	9,921	1.1	0.75	21.5			2.707	
472	922	<0.01	<0.01	4.6			2.612	
473	923	2.5	2.1	38.2			2.722	
474	924	3.0	2.5	37.6			2.704	
475	925	0.49	0.32	24.1			2.700	
476	926	0.45	0.28	26.8			2.712	
477	9,927	0.15	0.09	16.3			2.712	

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
		Ka	Kl					
<u>CORE NO. 6 Continued</u>								
478	9,928	0.91	0.61	30.9			2.702	
479	929	1.53	1.00	36.1			2.696	
480	930	20	16	36.6			2.697	Cracked.
481	931	1.8	1.3	36.5			2.697	
482	932	1.7	1.2	36.7			2.701	
483	933	1.1	0.9	33.3			2.703	
484	934	0.62	0.41	29.4			2.686	
485	935	1.2	0.8	33.4			2.704	
486	936							Sample sent to Phillips Research.
487	937							AA
488	938	1.2	0.8	33.7			2.700	
489	939	0.41	0.26	28.2			2.701	
490	940	1.2	0.8	33.5			2.707	
491	941	0.97	0.66	32.6			2.706	
492	942	1.00	0.08	31.4			2.683	
493	943	0.20	0.13	37.8			2.701	
494	944	1.5	1.0	34.1			2.710	
495	945	0.69	0.45	25.6			2.704	
496	946	1.10	0.75	32.6			2.706	
497	947	0.81	0.54	30.7			2.706	
498	948	1.9	1.3	37.2			2.704	
499	949	2.3	1.6	37.4			2.703	
500	950	2.1	1.5	36.9			2.705	
501	951	1.4	1.0	33.4			2.705	
502	952	1.5	1.0	36.1			2.705	
503	9,953	1.8	1.3	37.7			2.703	
<u>CORE NO. 7</u>								
449	9,959							Rubble.
450	9,960	0.92	0.62	32.7			2.702	

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CORE LABORATORIES, INC.
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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
		Ka	Kl				
<u>CORE NO. 7 Continued</u>							
451	9,961	0.40	0.26	29.2		2.704	
452	962	0.10	0.06	17.3		2.705	
453	963	0.72	0.48	33.7		2.706	
454	964-3	0.20	0.12	25.3		2.687	
455	965	0.58	0.38	29.6		2.702	
456	966	0.22	0.13	26.9		2.701	
457	967	0.52	0.34	30.6		2.701	
458	967-6	0.23	0.14	26.7		2.702	
459	968	0.44	0.28	29.9		2.704	
460	968-6	0.18	0.11	27.2		2.700	
461	969	0.48	0.31	27.0		2.701	
462	970	0.52	0.34	29.9		2.687	
463	971	0.20	0.12	30.0		2.699	
464	972	0.72	0.48	30.2		2.696	
465	973	0.22	0.13	25.9		2.694	
466	974	0.44	0.28	29.3		2.698	
467	975	0.40	0.26	28.9		2.700	
468	976	0.55	0.36	29.9		2.699	
469	977						Rubble.
470	9,978	0.26	0.16	26.8		2.700	
<u>CORE NO. 8</u>							
420	9,980-3	0.04	0.02	11.4		2.692	
421	981	0.02	0.01	17.8		2.697	
422	982	0.08	0.05	11.7		2.709	
423	983	0.03	0.02	12.1		2.684	
424	984	0.09	0.05	17.4		2.704	
425	985	0.08	0.05	17.7		2.695	
426	986	0.01	<0.01	9.7		2.709	
427	987	0.07	0.04	22.5		2.691	
428	9,988	0.28	0.17	28.6		2.711	

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY S		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
		Ka	Kl		OIL	TOTAL WATER		
<u>CORE NO. 8 Continued</u>								
129	9,989	0.10	0.06	25.6			2.697	
130	990	0.04	0.02	25.3			2.701	
131	991	0.15	0.09	24.0			2.696	
132	992	0.11	0.07	22.3			2.699	
133	993	0.03	0.02	25.4			2.703	
134	994	0.35	0.22	26.6			2.717	
135	995	0.17	0.10	21.0			2.701	
136	996	0.31	0.19	25.4			2.656	
137	997	0.03	0.02	26.7			2.705	
138	998							Whole Core Analysis.
139	999	0.07	0.04	25.1			2.697	
140	10,000	0.32	0.20	26.1			2.701	
141	001	0.16	0.10	26.6			2.690	
142	002	0.09	0.05	25.8			2.700	Vertical Plug.
143	003							No Plug possible, Rubble.
144	004	0.10	0.06	18.7			2.705	
145	005							No Analysis Possible, Rubble.
146	006							AA
147	007							AA
148	10,008							AA
<u>CORE NO. 9</u>								
107	10,007	<0.01	<0.01	9.5			2.703	
108	009	<0.01	<0.01	7.1			2.692	
109	011	0.03	0.02	15.3			2.698	
110	013	0.02	0.01	9.5			2.682	
111	015	0.03	0.02	14.5			2.704	
112	017	0.02	0.01	12.8			2.689	
113	019	<0.01	<0.01	14.0			2.676	
114	021	0.01	<0.01	18.2			2.704	
115	10,023	<0.01	<0.01	8.8			2.682	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
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 Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
		Ka	Kl					
<u>CORE NO. 9 Continued</u>								
416	10,025	<0.01	<0.01	14.0			2.700	
417	027-3	0.02	0.01	16.9			2.698	
418	029	0.01	<0.01	18.3			2.704	
419	10,031	0.01	<0.01	8.9			2.711	
<u>CORE NO. 10</u>								
3	10,034	<0.01	<0.01	11.3			2.704	
37	036	0.02	0.01	13.5			2.696	
377	038	0.02	0.01	16.3			2.695	
378	040	0.02	0.01	14.7			2.701	
379	042	0.04	0.02	3.3			2.681	
380	044	0.01	<0.01	12.0			2.683	
381	046	0.02	0.01	8.1			2.678	
382	048	<0.01	<0.01	14.1			2.681	
383	050	<0.01	<0.01	11.1			2.673	
384	052	<0.01	<0.01	12.6			2.686	
385	054	<0.01	<0.01	12.7			2.686	
386	056	<0.01	<0.01	14.1			2.672	
387	058	<0.01	<0.01	13.0			2.704	
388	060	<0.01	<0.01	5.2			2.709	
389	062	0.15	0.10	30.7			2.693	Cracked multi hairline shale lam.
390	064	0.01	<0.01	10.5			2.670	
391	066	<0.01	<0.01	11.2			2.683	
392	068	<0.01	<0.01	10.8			2.685	
393	070	<0.01	<0.01	9.8			2.678	
394	072	<0.01	<0.01	11.2			2.663	
395	074	<0.01	<0.01	10.8			2.685	
396	076	<0.01	<0.01	6.4			2.692	
397	078	0.15	0.10	6.5			2.661 *	
398	10,079	0.08	0.04	13.0			2.703	

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

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 Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs Ka Kl		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
<u>CORE NO. 10 Continued</u>								
399	10,081	0.01	<0.01	8.9			2.696	
400	082	0.01	<0.01	17.1			2.693	
401	083	<0.01	<0.01	11.9			2.689	
402	084	0.09	0.05	20.7			2.692	
403	086	0.03	0.02	21.9			2.692	
404	089	0.02	0.01	21.7			2.715	
405	090	0.01	<0.01	7.4			2.700	
406	10,092	0.01	<0.01	15.2			2.698	
<u>CORE NO. 11</u>								
323	10,094	<0.01	<0.01	9.7			2.703	
324	096	<0.01	<0.01	12.3			2.691	
325	098	0.25	0.16	9.2			2.689	Sty.
326	099	<0.01	<0.01	14.2			2.678	
327	101	<0.01	<0.01	12.3			2.684	
328	103	<0.01	<0.01	9.5			2.693	
329	106	<0.01	<0.01	9.1			2.693	
330	108	0.02	0.01	9.0			2.690	Cracked.
331	110	0.16	0.10	9.4			2.681	Cracked.
332	112	<0.01	<0.01	9.7			2.698	
333	114	<0.01	<0.01	8.7			2.673	
334	116	<0.01	<0.01	11.7			2.659 *	
335	118	<0.01	<0.01	9.4			2.690	
336	120	0.02	0.01	4.1			2.680	Cracked.
337	121-5	<0.01	<0.01	7.3			2.709	
338	122	<0.01	<0.01	7.1			2.698	
339	123	<0.01	<0.01	5.2			2.697	
340	124-4	0.08	0.04	5.5			2.729	Cracked.
341	125	<0.01	<0.01	6.5			2.695	
342	126	<0.01	<0.01	4.8			2.732	
343	10,127	<0.01	<0.01	6.6			2.708	

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Petroleum Reservoir Engineering
 DALLAS, TEXAS

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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
		Ka	Kl					
<u>CORE NO.11 Continued</u>								
344	10,128	<0.01	<0.01	6.1			2.700	
345	129-6	0.04	0.02	12.6			2.700	
346	130	<0.01	<0.01	10.9			2.695	
347	131	0.05	0.03	12.8			2.714	
348	132	0.22	0.13	18.6			2.704	
349	133	0.15	0.09	17.3			2.699	
350	134	0.46	0.29	20.7			2.701	
351	135	0.24	0.15	16.3			2.706	
352	136	0.10	0.06	15.1			2.723	
353	137	0.02	0.01	17.9			2.721	
354	138	<0.01	<0.01	9.0			2.740	
355	139	0.57	0.37	20.6			2.707	
356	140	1.2	0.8	16.5			2.694	
357	141	0.08	0.05	13.6			2.706	
358	142	0.06	0.03	10.2			2.678	
359	143	0.02	0.01	10.8			2.695	
360	144							Sample for Phillips Research
361	145	0.22	0.13	15.4			2.706	Vertical plug.
362	145	0.11	0.07	14.9			2.709	
363	146	0.45	0.29	20.5			2.699	
364	146-5	0.03	0.02	13.0			2.703	Vertical plug.
365	147	0.47	0.30	19.8			2.709	
366	147-4	0.28	0.17	18.9			2.706	Vertical plug.
367	148	0.17	0.10	13.4			2.710	
368	149	1.0	0.7	23.5			2.709	
369	150	0.16	0.10	13.4			2.677	
370	151	1.5	1.0	25.1			2.699	
371	152	0.22	0.13	22.8			2.732	
372	153	0.61	0.40	27.7			2.721	
373	10,154	0.02	0.01	10.3			2.694	

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CORE LABORATORIES, Inc.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs Ka Kl		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
<u>CORE NO. 11 Continued</u>								
374	10,155	0.01	<0.01	11.1			2.701	
<u>CORE NO. 12</u>								
286	10,155	0.15	0.09	15.9			2.700	
287	156							Rubble.
288	157	0.68	0.45	22.5			2.710	
289	158	0.77	0.52	20.4			2.708	
290	159	0.74	0.49	20.5			2.703	
291	160	0.45	0.29	20.5			2.700	
292	161	0.87	0.58	23.2			2.705	
293	162	3.7	2.7	29.5			2.700	
294	163	0.25	0.16	19.8			2.701	
295	164	2.3	1.9	19.1			2.699	Heavy Fracture
296	165	0.07	0.04	14.1			2.736	Pyritic
297	166	0.49	0.32	22.6			2.699	
298	167	0.29	0.18	19.1			2.720	
299	168	0.16	0.10	16.8			2.700	
300	169	0.56	0.36	20.9			2.702	
301	169-6	0.49	0.31	25.0			2.713	Vertical plug.
302	170	1.3	0.9	24.8			2.713	
303	171	0.81	0.54	23.2			2.701	
304	172	0.59	0.38	23.1			2.712	
305	173	0.48	0.32	20.6			2.710	
306	174	0.69	0.45	23.0			2.707	
307	175	1.5	1.0	26.9			2.711	
308	176	1.2	0.8	25.7			2.711	
309	177	0.12	0.07	16.5			2.709	
310	178	1.3	0.09	25.5			2.706	
311	179	0.01	<0.01	18.0			2.708	
312	180	0.01	<0.01	12.0			2.710	
313	10,181							Whole Core Analysis Sample.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYE		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
		Ka	Kl					
<u>CORE NO. 12 Continued</u>								
314	10,182	0.66	0.44	21.4			2.711	
315	183	0.54	0.35	19.7			2.706	
316	184	0.26	0.16	11.0			2.576 *	
317	185	0.26	0.16	11.6			2.710	
318	186	0.20	0.12	16.7			2.706	
319	187	0.18	0.11	16.2			2.706	
320	188	0.12	0.07	10.0			2.708	
321	189	0.72	0.48	27.1			2.697	
322	10,190							Rubble.
<u>CORE NO. 13</u>								
277	10,197	3.1	2.2	27.9			2.699	
278	198	3.4	2.5	30.6			2.710	
279	199.6	5.1	3.8	30.0			2.701	
280	200	1.5	1.0	33.0			2.737 *	
281	200-4	1.9	1.3	29.1			2.700	
282	201	0.82	0.55	21.4			2.728 *	
283	202							Rubble.
284	203	1.9	1.3	29.1			2.699	
285	10,204							Rubble.
<u>CORE NO. 14</u>								
263	10,258	0.10	0.06	12.0			2.703	
264	259	3.0	2.2	31.0			2.699	
265	260	0.95	0.65	21.9			2.699	
266	261	2.1	1.5	26.7			2.703	
267	262	1.4	1.0	24.7			2.700	
268	262-2	0.21	0.13	17.6			2.705	Vertical plug.
269	263	1.9	1.3	28.3			2.702	
270	264	10.5	8.2	24.6			2.701	
271	264-7	1.7	1.2	27.2			2.704	Vertical plug.
272	10,265	1.5	1.0	26.5			2.702	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
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 Well 2/4-8AX

CORE ANALYSIS RESULTS

CORE NO.	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
		Ka	Kl				
<u>CORE NO. 14 Continued</u>							
73	10,266	3.8	2.8	34.1		2.704	
74	267	4.5	3.3	21.6		2.708	
75	268	3.7	2.7	32.3		2.704	
76	10,269	1.7	1.2	26.1		2.712	
<u>CORE NO. 15</u>							
99	10,270	2.6	1.9	30.4		2.698	
97	271	3.2	2.3	30.6		2.709	
98	272	2.2	1.6	29.9		2.715	
99	273	2.2	1.6	30.0		2.713	
00	273-9	0.29	0.18	17.0		2.697	Sty. x Plug. Vertical plug.
01	274	1.9	1.3	26.3		2.697	
02	275	2.3	1.6	29.6		2.701	
03	275-4	2.6	1.9	27.4		2.698	Vertical plug.
04	275-10	2.0	1.4	26.6		2.699	
05	277	1.1	0.75	23.8		2.705	
06	278	2.0	1.4	28.9		2.709	
07	278-10	1.7	1.2	27.7		2.710	
08	280	2.6	1.9	31.4		2.699	
09	281	2.3	1.6	29.9		2.700	
10	282	4.1	3.0	33.9		2.710	
11	283	4.9	3.7	34.7		2.703	
12	283-9	3.9	2.9	34.3		2.707	
13	284	3.0	2.2	32.7		2.712	
14	285	1.2	0.8	21.7		2.703	Sty.
15	286	3.9	2.9	33.7		2.703	
16	287	0.15	0.09	32.7		2.700	
17	288	1.2	0.8	23.3		2.704	
18	289	5.4	4.0	31.8		2.711	
19	290	0.45	0.29	19.6		2.705	
20	10,291	0.55	0.36	20.6		2.704	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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CORE ANALYSIS RESULTS

SAMPLE NO.	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
		Ka	Kl				
<u>CORE NO. 15 Continued</u>							
21	10,291-3	3.7	2.7	24.0		2.703	Vertical plug.
22	292	0.80	0.54	21.8		2.703	
23	293	0.66	0.44	21.8		2.704	
24	294	1.5	1.0	26.0		2.702	
25	294-1						Gone to Phillips Research.
26	295	2.8	2.0	27.0		2.704	
27	296	1.1	0.8	24.6		2.700	
28	297	0.10	0.06	15.1		2.702	
29	298	1.2	0.8	23.9		2.703	
30	299	1.5	1.0	27.7		2.703	
31	300	1.1	0.7	24.4		2.702	
32	301	1.3	0.9	26.8		2.707	
33	302	1.3	0.9	26.7		2.704	
34	303	0.97	0.66	24.4		2.702	
35	304	0.75	0.50	26.2		2.709	
36	305	0.95	0.65	23.2		2.708	
37	306	1.68	1.20	27.8		2.707	
38	307	4.7	3.5	31.2		2.701	
39	308						Whole Core Analysis.
40	309	1.7	1.2	30.1		2.703	
41	310	1.6	1.1	28.3		2.702	
42	311	2.1	1.5	30.4		2.702	
43	312	1.3	0.9	26.3		2.704	
44	313	2.2	1.6	31.1		2.702	
45	314	2.8	2.0	31.2		2.696	
46	315	2.7	1.9	30.4		2.696	
47	316	2.4	1.7	27.6		2.701	
48	317	2.2	1.6	26.1		2.698	
49	318	1.2	0.8	25.8		2.703	
50	10,319	0.78	0.52	22.8		2.701	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs Ka Kl		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
<u>ORE NO. 15 Continued</u>								
51	10,320	0.91	0.61	21.3			2.703	
52	321	1.3	0.9	25.4			2.703	
53	322	1.0	0.7	23.5			2.705	
54	323	1.8	1.3	27.1			2.704	
55	324	1.2	0.8	26.0			2.701	
56	325	5.9	4.4	25.5			2.709	
57	326	0.90	0.60	30.2			2.752 *	Poor Sample for G.D.
58	327							Badly Cracked, no analysis possible.
59	328	2.1	1.5	29.7			2.705	
60	329	0.70	0.46	27.4			2.702	
61	10,330	0.70	0.46	25.2			2.631 *	
<u>ORE NO. 16</u>								
62	10,331	2.9	2.1	32.7			2.681	
63	332	2.9	2.1	33.4			2.683	
64	333	2.0	1.4	28.4			2.684	
65	334-6	0.91	0.61	24.1			2.686	
66	335	1.5	1.0	26.5			2.686	
67	336	1.2	0.8	26.5			2.690	
68	337-4	1.4	1.0	27.6			2.686	
69	338-4	0.24	0.15	21.4			2.577 *	
70	339	1.0	0.7	25.0			2.687	
71	340	1.1	0.8	24.7			2.697	
72	341-6	0.67	0.44	23.3			2.684	
73	342	1.6	1.1	26.4			2.683	
74	343	1.6	1.1	28.8			2.685	
75	344	1.5	1.0	24.4			2.684	
76	345	0.46	0.29	19.3			2.691	
77	346	0.66	0.45	21.4			2.694	
78	10,347	0.47	0.30	19.3			2.709	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
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CORE ANALYSIS RESULTS

SAMPLE NO.	DEPTH FEET	PERMEABILITY MILLIDARCYs Ka K1		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
CORE NO. 16 Continued								
59	10,348	0.36	0.23	25.9			2.717	
60	349	1.53	1.00	22.9			2.733	
61	350	0.17	0.10	24.9			2.718	
62	351	1.1	0.8	24.7			2.686	
63	352	0.13	0.08	13.3			2.678	
64	353	0.12	0.07	13.0			2.673	
65	353-9	0.21	0.13	15.0			2.700	
66	354	0.35	0.22	16.8			2.700	
67	355	0.23	0.14	17.1			2.698	
68	356	0.28	0.17	18.2			2.702	
69	357	0.27	0.17	17.1			2.707	
70	357-8	0.25	0.16	16.3			2.709	
71	359	0.14	0.09	14.1			2.693	
72	360	0.13	0.08	13.0			2.693	
73	361	0.23	0.14	15.2			2.700	
74	362	0.02	0.01	8.1			2.684	
75	363	0.01	<0.01	6.0			2.699	
76	364	0.01	<0.01	5.9			2.698	
77	365	0.26	0.16	17.7			2.699	
78	366	0.01	<0.01	9.3			2.676	
79	367	<0.01	<0.01	7.8			2.707	
80	368	0.38	0.24	14.8			2.698	
81	369	0.02	0.01	8.8			2.676	
82	370	0.13	0.08	15.1			2.697	
83	371	0.39	0.25	18.9			2.698	
84	372	<0.01	<0.01	1.9			2.697	
85	373	0.02	0.01	8.3			2.681	
86	374	0.02	0.01	9.5			2.674	
87	375	0.67	0.44	21.4			2.697	
88	10,376	1.0	0.7	19.2			2.696	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER		
		Ka	Kl				
<u>CORE NO. 16 Continued</u>							
79	10,377	0.76	0.51	21.8		2.696	
80	378	0.49	0.32	20.6		2.695	
81	379	0.06	0.03	10.4		2.689	
82	380	0.47	0.30	21.2		2.695	
83	381	0.50	0.32	19.4		2.712	
84	382	0.04	0.02	9.7		2.686	
85	383	0.15	0.09	14.6		2.698	
86	384	0.21	0.13	15.4		2.697	
87	385	0.42	0.27	19.0		2.700	
88	386	<0.01	<0.01	7.0		2.712	
89	387	0.38	0.24	18.4		2.703	
90	387-9	0.16	0.10	12.1		2.695	
91	388	0.02	0.01	8.9		2.732	
92	389						Whole Core Analysis
93	390-8	0.76	0.51	22.1		2.699	
94	391	0.62	0.41	21.0		2.699	
95	10,392						Rubble.
<u>CORE NO. 17</u>							
102	10,392	0.03	0.02	11.5		2.693	
103	394	0.38	0.24	19.0		2.683	
104	396	0.70	0.46	22.4		2.680	
105	398	0.48	0.31	17.5		2.685	
106	400	0.72	0.48	22.8		2.683	
107	402	0.60	0.39	19.2		2.687	
108	404	0.47	0.30	20.3		2.693	
109	406	0.30	0.19	15.8		2.688	
110	408	0.12	0.07	16.5		2.701	
111	410-6	1.0	0.7	21.1		2.705	
112	412	1.9	1.3	19.5		2.685	
113	10,414	0.70	0.46	21.4		2.684	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
		Ka	Kl		OIL	TOTAL WATER		
<u>ORE NO. 17 Continued</u>								
14	10,416	0.17	0.10	16.2			2.698	
15	417-6	0.94	0.64	21.9			2.690	
16	420	0.22	0.13	16.7			2.692	
17	422	1.30	0.90	20.1			2.697	
18	426	0.32	0.20	17.9			2.691	
19	428	0.01	<0.01	6.8			2.696	V hd.
20	430	0.16	0.10	17.3			2.680	
21	432	0.16	0.10	13.9			2.689	
22	434	0.30	0.19	16.5			2.687	
23	436	0.31	0.19	18.2			2.687	
24	438	0.38	0.24	16.5			2.682	
25	440	0.30	0.19	20.1			2.688	
26	442-2	0.17	0.10	15.8			2.692	
27	444	0.77	0.52	16.2			2.678	
28	446	0.21	0.13	15.8			2.689	
29	448	0.19	0.12	14.4			2.679	
30	450	0.16	0.10	15.5			2.684	
31	10,452	0.16	0.10	14.7			2.686	
<u>ORE NO. 18</u>								
65	10,453	0.17	0.10	12.7			2.684	
66	454	0.16	0.09	16.7			2.682	
67	455	0.38	0.24	20.0			2.685	
68	456	0.28	0.17	19.3			2.701	
69	457	2.8	2.0	17.7			2.688	Fractured
70	458	0.16	0.09	14.8			2.683	
71	459	0.34	0.21	16.9			2.707	
72	460	0.15	0.09	14.6			2.679	
73	461	0.13	0.08	14.5			2.687	
	462							Sample destroyed in Analysis.
74	10,463	0.07	0.04	13.4			2.665	

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
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Well 2/4-8AX

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs Ka K1		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
<u>WELL NO. 18 Continued</u>								
5	10,464	0.03	0.02	7.3			2.702	
6	465	0.07	0.04	12.9			2.682	
7	466	0.06	0.03	11.9			2.681	
8	467	0.01	< 0.01	3.7			2.695	
9	468	0.01	< 0.01	3.3			2.698	
0	469	0.01	< 0.01	0.4			2.697	
1	470	0.01	< 0.01	0.4			2.698	
2	472	0.73	0.46	21.9			2.689	
3	474	1.7	1.2	27.5			2.684	
4	476	0.73	0.46	25.8			2.686	
5	478	1.1	0.8	26.0			2.684	
6	480	0.01	< 0.01	0.6			2.698	
7	482	< 0.01	< 0.01	1.0			2.699	
8	484	< 0.01	< 0.01	2.2			2.695	
9	486	0.01	< 0.01	1.4			2.699	
0	488	0.16	0.09	15.6			2.687	
1	490	0.01	< 0.01	7.3			2.696	
2	492	0.01	< 0.01	1.3			2.695	
3	494	< 0.01	< 0.01	0.6			2.696	
4	496	0.48	0.31	17.1			2.697	
5	498	1.6	1.1	26.9			2.679	
6	499-9	1.4	1.0	26.1			2.689	
7	502	1.8	1.3	27.3			2.682	
8	507	0.73	0.48	21.1			2.685	
9	509	0.01	< 0.01	0.4			2.686	V hd.
0	511	< 0.01	< 0.01	7.0			2.692	
1	10,513	< 0.01	< 0.01	6.7			2.693	

10,504' - 10,506'6" - RUBBLE NO ANALYSIS.

WELL NO. 19

1	10,514	< 0.01	< 0.01	0.3			2.698	
2	10,516	< 0.01	< 0.01	3.3			2.696	

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs Ka K1		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
CORE NO. 19 Continued								
3	10,518	<0.01	<0.01	2.4			2.698	
4	520	0.01	<0.01	5.7			2.697	
5	522	0.02	0.01	7.1			2.705	Fractured.
6	524	0.80	0.54	9.2			2.689	Sty.
7	526-3	0.02	0.01	5.0			2.691	
8	528	0.01	<0.01	4.9			2.694	Sty.
9	530	0.01	<0.01	3.1			2.696	
10	532	0.01	<0.01	4.1			2.696	
11	534	0.01	<0.01	3.3			2.695	
12	536	0.01	<0.01	3.3			2.694	
13	538	0.01	<0.01	0.3			2.685	
14	540	0.02	0.01	2.5			2.699	Sty.
15	542	0.01	<0.01	0.2			2.696	
16	544	0.06	0.03	5.5			2.693	Sty.
17	546	0.01	<0.01	0.2			2.698	
18	547	0.04	0.02	3.9			2.697	Sty.
18	546-10	0.01	<0.01	0.3			2.702	Sty. Vertical plug.
19	548	0.01	<0.01	3.3			2.690	
20	550	0.01	<0.01	0.2			2.698	
21	552	0.01	<0.01	0.2			2.697	
22	554	0.01	<0.01	0.8			2.694	
23	556	0.02	0.01	0.2			2.698	
24	558	0.01	<0.01	1.2			2.699	
25	559-2	0.01	<0.01	0.4			2.696	
26	560	0.01	<0.01	0.1			2.693	
27	562	0.02	0.01	0.2			2.698	
28	564	0.02	0.01	0.2			2.641	Siliceous.
29	566	0.01	<0.01	0.2			2.646	Siliceous.
30	568	0.01	<0.01	0.6			2.699	
31	10,570	0.01	<0.01	0.8			2.702	

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS Ka Kl		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	TOTAL WATER		
<u>CORE NO. 19 Continued</u>								
32	10,572	0.01	<0.01	0.5			2.703	
33	10,573-7	0.01	<0.01	0.2			2.667	
<u>CORE NO. 20</u>								
34	10,575	0.01	<0.01	0.2			2.666	
35	576	0.06	0.04	4.4			2.720 *	
36	579	0.01	<0.01	4.0			2.683	
37	581	<0.01	<0.01	0.2			2.696	
38	583	0.01	<0.01	0.6			2.695	
39	585	0.01	<0.01	0.4			2.701	
40	587	0.02	0.01	0.1			2.696	
41	589	0.01	<0.01	0.2			2.696	
42	591	0.01	<0.01	1.2			2.694	
43	593	0.01	<0.01	0.8			2.697	
44	595	0.01	<0.01	10.1			2.690	
45	597	<0.01	<0.01	2.4			2.689	
46	599	0.01	<0.01	4.8			2.760 *	Pyritic.
47	601	0.01	<0.01	2.1			2.695	
48	603	0.01	<0.01	0.2			2.651 *	V hd. Siliceous.
49	605	0.01	<0.01	0.4			2.701	
50	607	0.01	<0.01	0.2			2.698	
51	609	0.01	<0.01	0.2			2.701	
52	611	0.01	<0.01	1.2			2.694	
53	613	0.01	<0.01	0.2			2.677	
54	615	0.01	<0.01	0.2			2.696	
55	617	0.01	<0.01	0.2			2.692	
56	619	<0.01	<0.01	0.4			2.651 *	V hd. Siliceous.
57	621	<0.01	<0.01	0.1			2.639 *	AA
58	623	<0.01	<0.01	0.3			2.703	
59	625	<0.01	<0.01	0.2			2.703	
60	10,627	0.02	0.01	0.2			2.700	

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 DALLAS, TEXAS

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CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs		POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		GRAIN DENSITY	SAMPLE DESCRIPTION AND REMARKS
					OIL	WATER		
		Ka	Kl					
<u>CORE NO. 20 Continued</u>								
61	10,629	0.02	0.01	8.9			2.690	
62	631	0.01	<0.01	0.2			2.698	
63	633	0.01	<0.01	0.1			2.694	
64	10,635	0.01	<0.01	0.8			2.693	

* Samples so designated seem to have unusual density characteristics, however, in each case the density values were re-run an additional two or three times and in each case the values remained unchanged.

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