

cc: R & D Files
O. D. Thomas (r) L&R
J. A. Reid (r) DCS
J. G. Erdman (r)
DAH

December 29, 1972

North Sea, Norwegian Sector, 2/7-4X
(Sida) Well, Characterization of
Fluids, DST 2, 3 and 6
Er-382-72

O. J. Koop (2)
International Department

Attached are component compositional data for companion gas-liquid samples recovered from DST 2, 3, and 6 which tested the 10,610-10,490, 10,330-10,400 and 1,019-10,215 foot intervals, respectively, in the 2/7-4X well. Compositional data for DST 3 were provided in letter Er-378-72 dated December 21, 1972, and are included here for the sake of completeness. Additional geochemical data are being generated on these particular samples and will be transmitted at a later date.

It is expected that these, as well as the other characterization data we are obtaining on samples from the North Sea Tertiary Basin will permit us to recognize and map petroleum migration patterns in the basin. Upon conclusion of the sample characterizations a geochemical interpretation will be prepared integrating all relevant data from the North Sea Tertiary Basin.

Original Signed By
J. GORDON ERDMAN
J. Gordon Erdman

JGE/DAH:pan

Attachments: Tables I-III
Figure 1

TABLE I

COMPONENT COMPOSITION OF THE GAS, LIQUID AND COMBINED STREAM
FROM THE EDDA 2/7-4X WELL, DST 3, FLOW 2

Geochem. Br. Code - gas, KOU; liquid, KOV

COMPONENT	GAS SAMPLE		LIQUID SAMPLE		COMBINED STREAM	
	WT PCT.	MOL PCT	WT PCT.	MOL PCT	WT PCT.	MOL PCT
HELIUM	0.000	0.000	0.000	0.000	0.000	0.000
HYDROGEN SULFIDE	0.000	0.000	0.000	0.000	0.000	0.000
OXYGEN + ARGON	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.528	0.401	0.000	0.004	0.198	0.317
CARBON DIOXIDE	0.457	0.221	0.007	0.027	0.176	0.180
ETHANE	59.050	78.344	0.143	1.524	22.190	62.043
PROPANE	16.149	11.431	0.306	1.733	6.285	9.373
ISOBUTANE	11.753	5.673	0.928	3.576	5.141	5.228
SUBUTANE	1.979	0.725	0.418	1.223	1.076	0.830
ISOPENTANE	4.900	1.816	1.624	4.747	3.100	2.438
NORMALPENTANE	1.260	0.371	0.876	2.064	1.176	0.730
NORMALHEXANE	1.040	0.483	1.493	3.510	1.813	1.127
CYCLOHEXANE	0.023	0.005	0.027	0.054	0.031	0.016
ETHYLCYCLOPENTANE	0.099	0.030	0.142	0.345	0.151	0.097
2,3-DIMETHYLBUTANE	0.036	0.008	0.073	0.144	0.072	0.037
2,4-DIMETHYLPENTANE	0.347	0.085	0.678	1.336	0.674	0.351
3,4-DIMETHYLPENTANE	0.177	0.043	0.409	0.808	0.395	0.205
2,2-DIMETHYLPENTANE	0.546	0.135	1.688	3.327	1.561	0.812
ETHYLCYCLOPENTANE + 2,2-DIMETHYLPENTANE	0.135	0.034	0.528	1.065	0.475	0.254
2,4-DIMETHYLPENTANE	0.014	0.003	0.069	0.117	0.061	0.028
BENZENE + 2,2,3-TRIMETHYLBUTANE	0.057	0.015	0.242	0.526	0.216	0.124
CYCLOHEXANE + 3,3-DIMETHYLPENTANE	0.142	0.035	0.835	1.685	0.724	0.380
2,2-DIMETHYLHEXANE	0.057	0.012	0.465	0.788	0.395	0.177
2,3-DIMETHYLPENTANE + 1,1-DIMETHYLCYCLOPENT.	0.029	0.006	0.229	0.388	0.195	0.087
2,2-DIMETHYLHEXANE	0.058	0.012	0.517	0.877	0.437	0.195
CIS-3-DIMETHYLCYCLOPENTANE	0.014	0.003	0.124	0.215	0.105	0.048
TRANS-3-DIMETHYLCYCLOPENTANE + 3-ETHYLPENTANE	0.016	0.003	0.151	0.261	0.127	0.058
TRANS-2-DIMETHYLCYCLOPENTANE	0.025	0.005	0.238	0.413	0.201	0.092
HEPTANE	0.141	0.030	1.854	3.143	1.543	0.690
CIS-2-DIMETHYLCYCLOPENTANE	0.003	0.000	0.092	0.160	0.075	0.034
DECALIN + 2,2-DIMETHYLHEXANE + 1,1,3-TRIMETHYLPENT.	0.111	0.024	1.645	2.846	1.364	0.623
2,5-DIMETHYLHEXANE	0.003	0.000	0.059	0.088	0.049	0.019
2,4-DIMETHYLHEXANE + ETHYLCYCLOPENTANE	0.009	0.001	0.184	0.274	0.151	0.059
2,3-TRIMETHYLPENTANE	0.000	0.000	0.006	0.009	0.004	0.001
TRANS-2-CIS-4-TRIMETHYLCYCLOPENTANE	0.003	0.000	0.076	0.116	0.063	0.025

TABLE I (continued - 2)

3,3-DIMETHYLHEXANE	0.000	0.000	0.021	0.031	0.017	0.006
TOLUENE	0.032	0.007	0.669	1.233	0.549	0.267
-TRANS-2-CIS-3-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.048	0.072	0.038	0.015
2,3,4-TRIMETHYLPENTANE	0.000	0.000	0.007	0.010	0.005	0.002
2,3-DIMETHYLHEX+2,3,3-TRIMETHYL-2-PENT	0.000	0.000	0.116	0.173	0.093	0.036
2-METHYLHEPTANE + 4-METHYLHEPTANE	0.002	0.000	0.604	0.899	0.467	0.191
3,4-DIMETHYLHEX + 1-CIS-2-TRANS-4-TRIMETHYLCYCLOPENTANE	0.017	0.003	0.185	0.276	0.155	0.061
3-METHYLHEPTANE	0.006	0.001	0.033	0.049	0.028	0.011
3-METHYLHEPTANE + 3-ME-3-ETHYLPENTANE	0.000	0.000	0.442	0.658	0.355	0.139
2,2,5-TRIMETHYLHEX+1,1,3-TR-4-TETRAMETHYLCYCLOPENT.	0.011	0.001	0.014	0.018	0.015	0.005
-CIS-2-CIS-4-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.020	0.031	0.016	0.006
-TRANS-4 + 1-CIS-3 + 1,1-DIMETHYLCYCLOHEXANE	0.000	0.000	0.520	0.788	0.418	0.167
-ME-3-ETHYLPENT + 2,2,4-TRIMETHYLHEXANE	0.000	0.000	0.090	0.137	0.073	0.029
-ME-TRANS-2 + 1-ME-CIS-3-ETHYLCYCLOPENTANE	0.016	0.003	0.118	0.179	0.101	0.040
2-CYCLOHEPTANE	0.002	0.000	0.034	0.060	0.029	0.010
1-OCTANE + 1-TRANS-2-DIMETHYLCYCLOHEXANE	0.036	0.006	1.802	2.680	1.462	0.574
-CIS-4-DIMETHYLCYCLOHEXANE	0.000	0.000	0.192	0.292	0.155	0.061
-TRANS-3-DIMETHYLCYCLOHEXANE	0.000	0.000	0.096	0.146	0.077	0.031
2,4-TRIMETHYLHEXANE + ISOPROPYLCYCLOPENT.	0.001	0.000	0.000	0.000	0.000	0.000
2,3,5-TRIMETHYLHEXANE + 2,2-DIMETHYLHEPTANE	0.000	0.000	0.003	0.004	0.002	0.001
2-METHYL-CIS-2-ETHYLCYCLOPENTANE	0.000	0.000	0.023	0.035	0.018	0.007
2,4-DIMETHYLHEPTANE + 2,2,3-TRIMETHYLHEXANE	0.000	0.000	0.032	0.043	0.026	0.009
2,6-DIMETHYLHEPTANE + 1-CIS-2-DIMETHYLHEXANE	0.000	0.000	0.092	0.122	0.074	0.025
2-PROPYLCYCLOPENT + 2,5- + 3,5-DIMETHYLHEPTANE	0.000	0.000	0.008	0.013	0.007	0.002
2-ETHYLCYCLOHEXANE	0.002	0.000	0.403	0.611	0.325	0.130
2-ETHYLBENZENE	0.000	0.000	0.583	0.933	0.468	0.197
2,5-DIMETHYLHEPTANE + 1,1,3-TRIMETHYLHEXANE	0.000	0.000	0.166	0.220	0.133	0.046
2,3,3-TRIMETHYLHEXANE	0.006	0.001	0.058	0.077	0.049	0.017
2-METHYL-3-ETHYLHEXANE	0.000	0.000	0.092	0.122	0.074	0.026
2-XYLENE	0.002	0.000	0.101	0.161	0.082	0.034
2-XYLENE + 2,3,4-TRIMETHYLHEXANE	0.000	0.000	0.635	1.017	0.510	0.210
2,3- + 3,4-DIMETHYLHEPTANE	0.000	0.000	0.095	0.126	0.077	0.025
2-METHYLOCTANE	0.000	0.000	0.347	0.460	0.279	0.097
2-METHYLOCTANE	0.000	0.000	0.265	0.352	0.213	0.074
2-METHYLHEPTANE	0.005	0.000	0.055	0.073	0.046	0.016
2-METHYLOCTANE	0.000	0.000	0.305	0.404	0.245	0.085
2-XYLENE (+ A C-10 ALKANE)	0.004	0.000	0.321	0.514	0.260	0.109
2,4-TRIMETHYLHEPTANE	0.000	0.000	0.042	0.050	0.034	0.010
2,5-TRIMETHYLHEPTANE	0.000	0.000	0.089	0.106	0.072	0.022
2,6-TRIMETHYLHEPTANE	0.002	0.000	0.025	0.030	0.021	0.006
** UNKNOWN ***	0.000	0.000	0.060	0.072	0.046	0.015
2,5,5-TRIMETHYLHEPTANE	0.000	0.000	0.033	0.040	0.027	0.008
2,4,4-TRIMETHYLHEPTANE	0.001	0.000	0.033	0.040	0.027	0.008

TABLE I (concluded)

** A C-9 NAPHTHENE ***	0.000	0.000	0.180	0.243	0.145	0.051
SOPROPYLBENZENE	0.000	0.000	0.106	0.149	0.085	0.031
-HEPTANE	0.010	0.001	1.689	2.237	1.361	0.476
-9 NAPHTHENES + C-10 ALKANES	0.002	0.000	2.711	3.649	2.180	0.774
-PROPYLBENZENE	0.000	0.000	0.104	0.147	0.083	0.031
-METHYL-3-ETHYLBENZENE	0.000	0.000	0.192	0.271	0.154	0.057
-METHYL-4-ETHYLBENZENE	0.000	0.000	0.101	0.143	0.081	0.030
-METHYL-2-ETHYLBENZENE	0.000	0.000	0.108	0.152	0.086	0.032
,3,5-TRIMETHYLBENZENE	0.000	0.000	0.330	0.467	0.265	0.099
,2,4-TRIMETHYLBENZENE	0.000	0.000	0.293	0.414	0.235	0.087
,2,3-TRIMETHYLBENZENE	0.000	0.000	0.177	0.251	0.142	0.0
-DECANE	0.000	0.000	1.536	1.835	1.235	0.389
DECANES AND HEAVIER	0.000	0.000	67.429	39.247	36.425	8.326

UL PERCENT C6'S = 2.284

UL PERCENT C7+ = 15.445

TABLE II

COMPONENT COMPOSITION OF THE GAS, LIQUID AND COMBINED STREAM
FROM THE EDDA 2/7-4X WELL, DST 2, FLOW 2

Geochem. Br. Code.- gas, K00; liquid, K0P

COMPONENT	GAS SAMPLE		LIQUID SAMPLE		COMBINED STREAM	
	WT PCT.	MOL PCT	WT PCT.	MOL PCT	WT PCT.	MOL PCT
HELIUM	0.000	0.000	0.000	0.000	0.000	0.000
HYDROGEN SULFIDE	0.000	0.000	0.000	0.000	0.000	0.000
OXYGEN + ARGON	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.645	0.468	0.010	0.056	0.172	0.329
CARBON DIOXIDE	0.635	0.293	0.032	0.108	0.189	0.231
METHANE	64.086	81.202	1.129	10.421	17.139	57.348
ETHANE	15.654	10.582	1.170	5.762	5.018	8.958
PROPANE	10.146	4.677	1.933	6.489	4.344	5.288
ISOBUTANE	1.674	0.585	0.661	1.685	1.035	0.956
N-BUTANE	3.602	1.259	2.004	5.102	2.766	2.555
ISOPENTANE	1.006	0.283	1.060	2.174	1.237	0.920
N-PENTANE	1.230	0.346	1.612	3.306	1.806	1.344
HEXANE	0.020	0.004	0.039	0.067	0.041	0.025
CYCLOPENTANE	0.055	0.015	0.141	0.297	0.144	0.110
2,3-DIMETHYLBUTANE	0.025	0.005	0.086	0.148	0.086	0.054
2-METHYLPENTANE	0.216	0.051	0.686	1.178	0.692	0.431
3-METHYLPENTANE	0.108	0.025	0.413	0.710	0.411	0.256
3-HEXANE	0.319	0.075	1.524	2.618	1.496	0.932
METHYLCYCLOPENTANE + 2,2-DIMETHYLPENTANE	0.078	0.019	0.512	0.900	0.495	0.300
2,4-DIMETHYLPENTANE	0.009	0.001	0.067	0.099	0.065	0.007
BENZENE + 2,2,3-TRIMETHYLBUTANE	0.033	0.008	0.271	0.514	0.260	0.179
CYCLOHEXANE + 3,3-DIMETHYLPENTANE	0.071	0.017	0.729	1.283	0.696	0.443
2-METHYLHEXANE	0.035	0.007	0.429	0.634	0.408	0.218
2,3-DIMETHYLPENTANE + 1,1-DIMETHYLCYCLOPENT.	0.016	0.003	0.202	0.299	0.192	0.103
3-METHYLHEXANE	0.033	0.006	0.462	0.683	0.438	0.234
CIS-3-DIMETHYLCYCLOPENTANE	0.007	0.001	0.109	0.164	0.103	0.056
TRANS-3-DIMETHYLPENTANE + 3-ETHYLPENTANE	0.009	0.001	0.130	0.196	0.123	0.067
TRANS-2-DIMETHYLCYCLOPENTANE	0.013	0.002	0.195	0.294	0.184	0.100
HEPTANE	0.079	0.016	1.475	2.178	1.390	0.744
CIS-2-DIMETHYLCYCLOPENTANE	0.000	0.000	0.077	0.117	0.072	0.039
CYCLOHEX + 2,2-DIMETHYLHEX + 1,1,3-TRIMETHYLPENT	0.056	0.011	1.343	2.024	1.262	0.690
2,5-DIMETHYLHEXANE	0.000	0.000	0.055	0.071	0.051	0.024
2,4-DIMETHYLHEXANE + ETHYLCYCLOPENTANE	0.005	0.000	0.149	0.193	0.140	0.065
2,2,3-TRIMETHYLPENTANE	0.000	0.000	0.005	0.007	0.005	0.002
TRANS-2-CIS-4-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.059	0.078	0.054	0.026

Br-382-72

TABLE II (Continued - 2)

3,3-DIMETHYLHEXANE	0.000	0.000	0.018	0.024	0.017	0.008
TOLUENE	0.020	0.004	0.687	1.103	0.643	0.374
1-TRANS-2-CIS-3-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.025	0.033	0.023	0.011
2,3,4-TRIMETHYLPENTANE	0.000	0.000	0.005	0.007	0.005	0.002
2,3-DIMEHEX+2,3,3-TRIMEPENT+2-ME3-ETPENT	0.000	0.000	0.087	0.113	0.081	0.038
2-METHYLHEPTANE + 4-METHYLHEPTANE	0.000	0.000	0.476	0.617	0.442	0.208
3,4-DIMEHEX + 1-CIS-2-TRAN-4-TRIMECYPENT	0.015	0.002	0.148	0.191	0.141	0.066
3-ETHYLHEXANE	0.000	0.000	0.025	0.033	0.024	0.011
3-METHYLHEPTANE + 3-ME-3-ETHYLPENTANE	0.000	0.000	0.372	0.482	0.346	0.162
2,2,5-TRIMEHEX+1,1,3-TR-4-TETRAMECYPENT.	0.008	0.001	0.014	0.016	0.015	0.006
1-CIS-2-CIS-4-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.015	0.020	0.014	0.006
1-TRANS-4 + 1-CIS-3 + 1,1-DIMECYHEXANE	0.000	0.000	0.460	0.607	0.428	0.204
1-ME-3-ETHCYPENT + 2,2,4-TRIMETHYLHEXANE	0.009	0.001	0.017	0.023	0.018	0.008
1-ME-TRANS-2 + 1-ME-CIS-3-ETHYLCYPENTANE	0.000	0.000	0.079	0.104	0.073	0.035
CYCLOHEPTANE	0.000	0.000	0.022	0.034	0.020	0.000
4-OCTANE + 1-TRANS-2-DIMETHYLCYCLOHEXANE	0.027	0.004	1.381	1.790	1.290	0.606
1-CIS-4-DIMETHYLCYCLOHEXANE	0.000	0.000	0.099	0.131	0.092	0.044
1-TRANS-3-DIMETHYLCYCLOHEXANE	0.000	0.000	0.077	0.101	0.071	0.034
2,2,4-TRIMEHEXANE + ISOPROPYLCYCLOPENT.	0.000	0.000	0.000	0.000	0.000	0.000
2,3,5-TRIMEHEXANE + 2,2-DIMETHYLHEPTANE	0.000	0.000	0.000	0.000	0.000	0.000
1-METHYL-CIS-2-ETHYLCYCLOPENTANE	0.000	0.000	0.019	0.025	0.018	0.008
2,4-DIMEHEPTANE + 2,2,3-TRIMETHYLHEXANE	0.000	0.000	0.032	0.037	0.030	0.012
2,6-DIMEHEPTANE + 1-CIS-2-DIMECYHEXANE	0.000	0.000	0.073	0.084	0.068	0.028
4-PROPYLCYPENT + 2,5- + 3,5-DIMEHEPTANE	0.000	0.000	0.150	0.199	0.140	0.067
ETHYLCYCLOHEXANE	0.000	0.000	0.179	0.236	0.166	0.079
ETHYLBENZENE	0.000	0.000	0.467	0.651	0.434	0.219
3,3-DIMETHYLHEPTANE + 1,1,3-TRIMECYHEXANE	0.005	0.000	0.120	0.139	0.113	0.047
2,3,3-TRIMETHYLHEXANE	0.000	0.000	0.075	0.087	0.070	0.029
2-METHYL-3-ETHYLHEXANE	0.000	0.000	0.028	0.032	0.026	0.010
2-XYLENE	0.000	0.000	0.127	0.177	0.118	0.059
4-XYLENE + 2,3,4-TRIMETHYLHEXANE	0.000	0.000	0.625	0.871	0.580	0.2
2,3- + 3,4-DIMETHYLHEPTANE	0.000	0.000	0.077	0.089	0.071	0.033
4-METHYLOCTANE	0.005	0.000	0.281	0.324	0.263	0.110
2-METHYLOCTANE	0.000	0.000	0.217	0.250	0.201	0.084
3-ETHYLHEPTANE	0.000	0.000	0.042	0.048	0.039	0.016
3-METHYLOCTANE	0.005	0.000	0.255	0.294	0.238	0.099
4-XYLENE (+ A C-10 ALKANE)	0.000	0.000	0.279	0.389	0.259	0.131
2,2,4-TRIMETHYLHEPTANE	0.002	0.000	0.025	0.026	0.023	0.009
2,2,5-TRIMETHYLHEPTANE	0.000	0.000	0.073	0.076	0.068	0.025
2,2,6-TRIMETHYLHEPTANE	0.000	0.000	0.040	0.042	0.037	0.014
*** UNKNOWN ***	0.000	0.000	0.000	0.000	0.000	0.000
2,5,5-TRIMETHYLHEPTANE	0.000	0.000	0.042	0.044	0.039	0.015
2,4,4-TRIMETHYLHEPTANE	0.000	0.000	0.000	0.000	0.000	0.000

TABLE II (Concluded)

*** A C-9 NAPHTHENE ***	0.000	0.000	0.138	0.161	0.128	0.054
ISOPROPYL BENZENE	0.000	0.000	0.076	0.094	0.071	0.031
NONANE	0.011	0.001	1.239	1.430	1.154	0.483
C-9 NAPHTHENES + C-10 ALKANES	0.003	0.000	2.107	2.470	1.959	0.833
ISOPROPYL BENZENE	0.000	0.000	0.084	0.104	0.078	0.035
1-METHYL-3-ETHYLBENZENE	0.000	0.000	0.174	0.215	0.162	0.072
1-METHYL-4-ETHYLBENZENE	0.000	0.000	0.080	0.099	0.074	0.033
1-METHYL-2-ETHYLBENZENE	0.000	0.000	0.084	0.104	0.078	0.035
1,3,5-TRIMETHYLBENZENE	0.000	0.000	0.306	0.377	0.285	0.127
1,2,4-TRIMETHYLBENZENE	0.000	0.000	0.298	0.368	0.277	0.124
1,2,3-TRIMETHYLBENZENE	0.000	0.000	0.208	0.256	0.193	0.0
1-DECANE	0.005	0.000	1.217	1.265	1.132	0.427
UNDECANES AND HEAVIER	0.000	0.000	67.947	33.612	45.111	11.327

100 PERCENT C6'S = 2.750

100 PERCENT C7+ = 19.318

TABLE III

COMPONENT COMPOSITION OF THE GAS, LIQUID AND COMBINED STREAM
FROM THE EDDA 2/7-4X WELL, DST 6, FLOW 2

Geochem. Br. Code - gas, KOY; liquid, KOZ

COMPONENT	GAS SAMPLE		LIQUID SAMPLE		COMBINED STREAM	
	WT PCT.	MOL PCT	WT PCT.	MOL PCT	WT PCT.	MOL PCT
HELIUM	0.000	0.000	0.000	0.000	0.000	0.000
HYDROGEN SULFIDE	0.000	0.000	0.000	0.000	0.000	0.000
OXYGEN + ARGON	0.000	0.000	0.000	0.000	0.000	0.000
NITROGEN	0.536	0.436	0.000	0.000	0.388	0.406
CARBON DIOXIDE	4.300	2.228	0.030	0.100	3.129	2.084
ETHANE	52.773	75.025	0.135	1.230	38.327	70.037
ETHANE	14.050	10.657	0.275	1.340	10.285	10.027
PROPANE	11.689	6.046	0.831	2.755	8.759	5.823
ISOBUTANE	2.180	0.855	0.398	1.002	1.716	0.865
N-BUTANE	5.807	2.278	1.605	4.035	4.753	2.397
ISOPENTANE	1.800	0.569	1.250	2.531	1.727	0.701
N-PENTANE	2.484	0.785	2.380	4.820	2.604	1.058
HEXANE	0.056	0.015	0.048	0.081	0.057	0.019
CYCLOPENTANE	0.166	0.054	0.218	0.454	0.193	0.081
2,3-DIMETHYLBUTANE	0.075	0.020	0.124	0.211	0.096	0.032
2-METHYLPENTANE	0.653	0.172	1.146	1.943	0.860	0.292
3-METHYLPENTANE	0.343	0.090	0.688	1.166	0.480	0.163
N-HEXANE	1.075	0.284	2.900	4.917	1.757	0.597
2-ETHYLCYCLOPENTANE + 2,2-DIMETHYLPENTANE	0.259	0.070	0.807	1.401	0.460	0.160
2,4-DIMETHYLPENTANE	0.030	0.007	0.120	0.176	0.063	0.007
BENZENE + 2,2,3-TRIMETHYLBUTANE	0.114	0.033	0.344	0.644	0.198	0.074
CYCLOHEXANE + 3,3-DIMETHYLPENTANE	0.286	0.077	1.278	2.220	0.638	0.222
2-METHYLHEXANE	0.124	0.028	0.760	1.108	0.346	0.101
2,3-DIMETHYLPENTANE + 1,1-DIMECYCLOPENT.	0.061	0.014	0.363	0.530	0.167	0.048
2-METHYLHEXANE	0.122	0.027	0.829	1.209	0.368	0.107
CIS-3-DIMETHYLCYCLOPENTANE	0.028	0.006	0.186	0.277	0.083	0.024
TRANS-3-DIMECPENTANE + 3-ETHYLPENTANE	0.031	0.007	0.225	0.335	0.099	0.029
TRANS-2-DIMETHYLCYCLOPENTANE	0.049	0.011	0.354	0.527	0.155	0.046
N-HEPTANE	0.305	0.069	2.894	4.220	1.196	0.349
CIS-2-DIMETHYLCYCLOPENTANE	0.006	0.001	0.132	0.197	0.049	0.014
CYCLOHEX + 2,2-DIMEHEX + 1,1,3-TRIMECPENT	0.224	0.052	2.307	3.434	0.940	0.280
2,5-DIMETHYLHEXANE	0.006	0.001	0.087	0.112	0.034	0.008
2,4-DIMETHYLHEXANE + ETHYLCYCLOPENTANE	0.019	0.003	0.260	0.332	0.101	0.026
2,3-TRIMETHYLPENTANE	0.000	0.000	0.008	0.010	0.002	0.000
TRANS-2-CIS-4-TRIMETHYLCYCLOPENTANE	0.007	0.001	0.105	0.136	0.040	0.010

TABLE III (Continued - 2)

3,3-DIMETHYLHEXANE	0.000	0.000	0.032	0.041	0.010	0.002
TOLUENE	0.059	0.014	0.787	1.248	0.308	0.098
1-TRANS-2-CIS-3-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.066	0.086	0.022	0.005
2,3,4-TRIMETHYLPENTANE	0.000	0.000	0.009	0.011	0.003	0.000
2,3-DIMEHEX+2,3,3-TRIMEPENT+2-ME3-ETPENT	0.000	0.000	0.158	0.202	0.053	0.013
2-METHYLHEPTANE + 4-METHYLHEPTANE	0.006	0.001	0.854	1.093	0.292	0.075
3,4-DIMEHEX + 1-CIS-2-TRAN-4-TRIMECYPENT	0.036	0.007	0.264	0.338	0.115	0.029
3-ETHYLHEXANE	0.011	0.002	0.047	0.060	0.024	0.006
3-METHYLHEPTANE + 3-ME-3-ETHYLPENTANE	0.000	0.000	0.618	0.791	0.208	0.053
2,2,5-TRIMEHEX+1,1,3-TR-4-TETRAMECYPENT.	0.024	0.004	0.020	0.022	0.024	0.005
1-CIS-2-CIS-4-TRIMETHYLCYCLOPENTANE	0.000	0.000	0.028	0.036	0.009	0.002
1-TRANS-4 + 1-CIS-3 + 1,1-DIMECYHEXANE	0.000	0.000	0.681	0.887	0.229	0.059
1-ME-3-ETHCYPENT + 2,2,4-TRIMETHYLHEXANE	0.000	0.000	0.121	0.158	0.040	0.010
1-ME-TRANS-2 + 1-ME-CIS-3-ETHYLCYPENTANE	0.031	0.006	0.153	0.199	0.074	0.019
CYCLOHEPTANE	0.005	0.001	0.044	0.066	0.019	0.000
1-OCTANE + 1-TRANS-2-DIMETHYLCYCLOHEXANE	0.073	0.014	2.489	3.185	0.892	0.228
-CIS-4-DIMETHYLCYCLOHEXANE	0.000	0.000	0.260	0.339	0.087	0.022
-TRANS-3-DIMETHYLCYCLOHEXANE	0.000	0.000	0.120	0.157	0.040	0.010
2,2,4-TRIMEHEXANE + ISOPROPYLCYCLOPENT.	0.003	0.000	0.000	0.000	0.002	0.000
2,3,5-TRIMEHEXANE + 2,2-DIMETHYLHEPTANE	0.000	0.000	0.000	0.000	0.000	0.000
-METHYL-CIS-2-ETHYLCYCLOPENTANE	0.000	0.000	0.032	0.041	0.010	0.002
2,4-DIMEHEPTANE + 2,2,3-TRIMETHYLHEXANE	0.000	0.000	0.046	0.053	0.015	0.003
2,6-DIMEHEPTANE + 1-CIS-2-DIMECYHEXANE	0.000	0.000	0.122	0.139	0.041	0.009
1-PROPYLCYPENT + 2,5- + 3,5-DIMEHEPTANE	0.000	0.000	0.253	0.330	0.085	0.022
ETHYLCYCLOHEXANE	0.004	0.000	0.280	0.365	0.098	0.025
ETHYLBENZENE	0.000	0.000	0.723	0.995	0.243	0.067
2,3-DIMETHYLHEPTANE + 1,1,3-TRIMECYHEXANE	0.000	0.000	0.208	0.237	0.070	0.016
2,3,3-TRIMETHYLHEXANE	0.012	0.002	0.130	0.148	0.053	0.012
2-METHYL-3-ETHYLHEXANE	0.000	0.000	0.051	0.058	0.017	0.003
2-METHYL-3-ETHYLHEXANE	0.004	0.000	0.099	0.137	0.036	0.010
1-METHYL-3-ETHYLHEXANE	0.000	0.000	0.737	1.015	0.248	0.000
1-METHYL-3-ETHYLHEXANE	0.000	0.000	0.121	0.138	0.040	0.000
1-METHYL-3-ETHYLHEXANE	0.000	0.000	0.441	0.502	0.148	0.033
1-METHYL-3-ETHYLHEXANE	0.000	0.000	0.345	0.394	0.116	0.026
1-METHYL-3-ETHYLHEXANE	0.010	0.001	0.062	0.071	0.028	0.006
1-METHYL-3-ETHYLHEXANE	0.000	0.000	0.383	0.436	0.129	0.029
1-METHYL-3-ETHYLHEXANE	0.009	0.001	0.362	0.498	0.128	0.035
2,4-TRIMETHYLHEPTANE	0.000	0.000	0.031	0.031	0.010	0.002
2,5-TRIMETHYLHEPTANE	0.000	0.000	0.092	0.095	0.031	0.006
2,6-TRIMETHYLHEPTANE	0.000	0.000	0.087	0.089	0.029	0.006
** UNKNOWN **	0.003	0.000	0.000	0.000	0.002	0.000
2,5,5-TRIMETHYLHEPTANE	0.000	0.000	0.029	0.030	0.010	0.002
2,4,4-TRIMETHYLHEPTANE	0.000	0.000	0.030	0.031	0.010	0.002

TABLE III (Concluded)

*** A C-9 NAPHTHENE ***	0.004	0.000	0.206	0.239	0.072	0.016
ISOPROPYLBENZENE	0.000	0.000	0.113	0.138	0.038	0.009
N-NONANE	0.021	0.003	2.169	2.471	0.746	0.170
C-9 NAPHTHENES + C-10 ALKANES	0.000	0.000	3.373	3.904	1.136	0.263
N-PROPYLBENZENE	0.000	0.000	0.130	0.158	0.043	0.010
1-METHYL-3-ETHYLBENZENE	0.000	0.000	0.229	0.278	0.077	0.018
1-METHYL-4-ETHYLBENZENE	0.003	0.000	0.111	0.134	0.039	0.009
1-METHYL-2-ETHYLBENZENE	0.000	0.000	0.137	0.167	0.046	0.011
1,3,5-TRIMETHYLBENZENE	0.000	0.000	0.409	0.497	0.137	0.033
1,2,4-TRIMETHYLBENZENE	0.000	0.000	0.330	0.401	0.111	0.027
1,2,3-TRIMETHYLBENZENE	0.000	0.000	0.238	0.290	0.080	0.011
N-DECANE	0.000	0.000	1.872	1.923	0.630	0.129
UNDECANES AND HEAVIER	0.000	0.000	56.143	31.152	12.685	2.105

10L PERCENT C6'S = 1.645

10L PERCENT C7+ = 4.951

Figure 1
 COMPONENT COMPOSITION OF COMBINED STREAM
 THROUGH N-DECANE, BP = 345.4F (= 174.1C)
 2/7-4X (EDDA) WELL, N. SEA, NORWEGIAN SECTOR

Er-382-72

