Geochemical data of the following NPRA wells:

Husky Oil NPR Operations Inc. (U. S. Geological Survey) Ikpikpuk No. 1 from cuttings (11,320'-11,340'),
Husky Oil NPR Operations Inc. (U. S. Geological Survey) Inigok No. 1 from cuttings (13,690'-13,710'),
Husky Oil NPR Operations Inc. (U. S. Navy) East Teshekpuk No. 1 from cuttings (9,620'-9,640', 9,660'-9,680', and 9,700'-9,730'),
Husky Oil NPR Operations Inc. (U. S. Geological Survey) Peard No. 1 from core (9,494.4'), and
Husky Oil NPR Operations Inc. (U. S. Geological Survey) East Simpson No. 2 from core (7,202.5', 7,295.0', and 7,338.3').

Received January 2006

Total of 168 pages in report

Alaska Geologic Materials Center Data Report No. 322

ConocoPhillips

April 11, 2005

The enclosed data transmittal contains one copy of geochemical data for various wells from the NPR-A, including:

Well Name,	Well Depth(ft)
Ikpikpuk #1,	11320' - 11340'
Inigok #1,	13690' - 13710'
East Teshekpuk #1,	9620' - 9640'
East Teshekpuk #1,	9660' - 9680'
East Teshekpuk #1,	9700' – 9730'
Peard #1,	9494.4'
Peard #1,	9507.2'
East Simpson #2,	7202.5'
East Simpson #2,	7295.0'
East Simpson #2,	7338.3'

Regards,

Bradley J. Huizinga

Table *of* Contents

AVERY™ PROFESSIONAL LINE™ READY INDEX® BINDER KIT

BASELINE DGSI
ANALYTICAL LABORATORIES

Total Organic Carbon, Pyrolysis

Company: CONOCOPHILLIPS **Project #: 04-501-A**

Client ID	Lab ID	Sample Type	Depth	Prep	TOC Wt. %	S1 mg/g	S2 mg/g	S3 mg/g	Tmax	HI	OI	S1/ TOC	PI	Verified
US135733	CP275212	CORE	7202.5 FT	NOPR	10.02	0.60	19.98	0.48	436	199	5	6	0.03	RE
US135734	CP275213	CORE	7295 FT	NOPR	7.01	0.57	11.62	0.47	440	166	7	8	0.05	
US135735	CP275214	CORE	7338.3 FT	NOPR	7.50	0.46	13.34	0.48	436	178	6	6	0.03	

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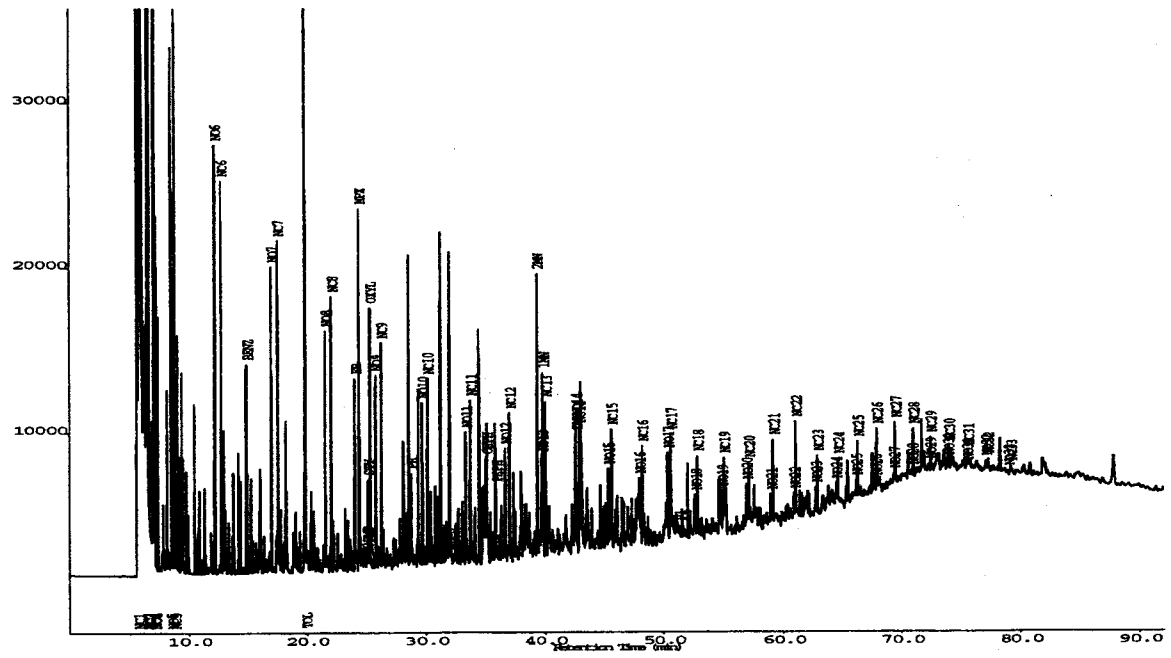
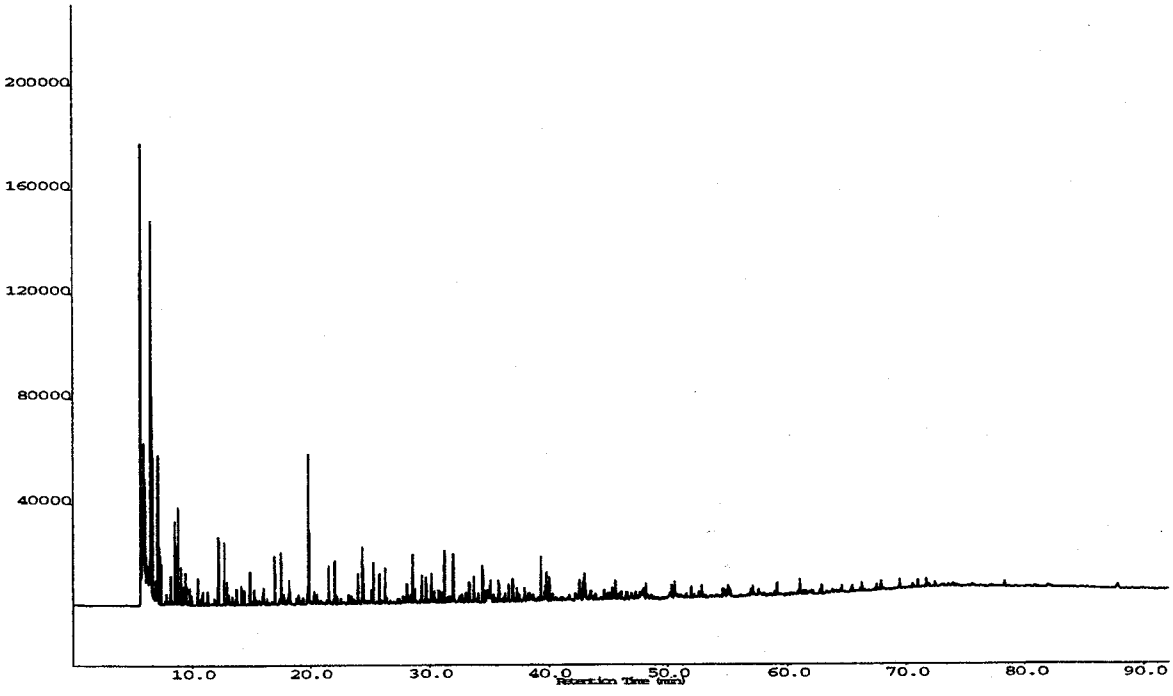
e-mail: office@reslabsolintec.com.br

BASELINE DGSI ANALYTICAL LABORATORIES — PYROLYSIS GC

Company:	CONOCOPHILLIPS	**Client ID:**	US135733
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275212
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST SIMPSON #2	**Geologic Age:**	
Latitude:	70.9785	**Top Depth:**	7202.5 FT
Longitude:	-154.674	**Bottom Depth:**	FT

G7040168.D





Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**G7040168.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ucm (Area)	ucm (Hght)
NC1	Normal Alkane C1	5.702	1308016	177103		
NO2	Normal Olefin C2	6.533	45428	58503		
NC2	Normal Alkane C2	6.559	118779	147853		
NO3	Normal Olefin C3	6.662	66778	76260		
NC3	Normal Alkane C3	6.688	50133	77807		
NO4	Normal Olefin C4	7.085	61583	56857		
NC4	Normal Alkane C4	7.170	50397	55412		
NO5	Normal Olefin C5	8.533	46191	33100		
NC5	Normal Alkane C5	8.819	55449	38534		
NO6	Normal Olefin C6	12.156	52044	26339		
NC6	Normal Alkane C6	12.672	50570	23777		
BENZ	Benzene	14.862	28118	12778		
NO7	Normal Olefin C7	16.960	40059	18796		
NC7	Normal Alkane C7	17.512	45422	20071		
TOL	Toluene	19.863	127302	56303		
NO8	Normal Olefin C8	21.588	32785	14903		
NC8	Normal Alkane C8	22.102	37586	16991		
EB	Ethylbenzene	24.033	28184	11807		
MPX	mp-Xylene	24.404	75461	22230		
23DMT	2-3 Dimethylthiophene	25.035	2925	860		
STY	Styrene	25.128	15909	5523		
OXYL	o-Xylene	25.316	36519	16103		
NO9	Normal Olefin C9	25.817	26036	11764		
NC9	Normal Alkane C9	26.283	30777	13614		
PH	Phenol	28.780	16246	5710		
NO10	Normal Olefin C10	29.697	22232	9904		
NC10	Normal Alkane C10	30.129	26818	11374		
OCR	o-Cresol	31.412	3616	1314		
MPCR	mp-Cresol	32.229	3223	733		
NO11	Normal Olefin C11	33.283	20717	8059		
NC11	Normal Alkane C11	33.676	24366	9978		
OEPH	o-Ethylphenol	34.983	19265	6403		
PEPH	p-Ethylphenol	35.842	11823	4655		
NO12	Normal Olefin C12	36.606	18944	6898		
NC12	Normal Alkane C12	36.957	26016	9116		
2MN	2-Methylnaphthalen	39.343	51673	17373		
NO13	Normal Olefin C13	39.705	19002	6309		
1MN	1-Methylnaphthalen	39.813	31054	11271		
NC13	Normal Alkane C13	40.036	27779	9519		
NO14	Normal Olefin C14	42.605	22824	8192		
DMN	Dimethylnaphthalene	42.655	13089	4374		
NC14	Normal Alkane C14	42.911	22762	7846		
NO15	Normal Olefin C15	45.343	21828	5164		
NC15	Normal Alkane C15	45.615	21665	7612		
NO16	Normal Olefin C16	47.908	13520	4359		
NC16	Normal Alkane C16	48.169	18102	6259		
NO17	Normal Olefin C17	50.349	19527	5659		
NC17	Normal Alkane C17	50.589	23871	6844		
P1	Phenanthrene	51.304	3889	1128		
NO18	Normal Olefin C18	52.665	10123	2953		
NC18	Normal Alkane C18	52.882	16334	5301		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**G7040168.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ucm (Area)	ucm (Hght)
NO19	Normal Olefin C19	54.863	10423	2874		
NC19	Normal Alkane C19	55.065	14047	4819		
NO20	Normal Olefin C20	56.957	14654	3019		
NC20	Normal Alkane C20	57.145	13084	4318		
NO21	Normal Olefin C21	58.958	6741	2135		
NC21	Normal Alkane C21	59.137	18766	5402		
NO22	Normal Olefin C22	60.874	6528	1886		
NC22	Normal Alkane C22	61.030	24215	6229		
NO23	Normal Olefin C23	62.709	6799	1877		
NC23	Normal Alkane C23	62.852	11936	3774		
NO24	Normal Olefin C24	64.463	6854	1744		
NC24	Normal Alkane C24	64.597	11356	3245		
NO25	Normal Olefin C25	66.148	6385	1486		
NC25	Normal Alkane C25	66.278	13011	3800		
NO26	Normal Olefin C26	67.780	3283	958		
NC26	Normal Alkane C26	67.896	14036	4044		
NO27	Normal Olefin C27	69.355	3536	897		
NC27	Normal Alkane C27	69.458	13496	3982		
NO28	Normal Olefin C28	70.857	3214	663		
NC28	Normal Alkane C28	70.968	10861	3117		
NO29	Normal Olefin C29	72.334	1744	600		
NC29	Normal Alkane C29	72.435	6624	2155		
NO30	Normal Olefin C30	73.859	3016	706		
NC30	Normal Alkane C30	73.949	6673	1594		
NO31	Normal Olefin C31	75.413	2287	574		
NC31	Normal Alkane C31	75.545	8047	1384		
NO32	Normal Olefin C32	77.115	8438	840		
NC32	Normal Alkane C32	77.285	6842	969		
NO33	Normal Olefin C33	78.956	1671	317		
NC33	Normal Alkane C33	79.217	4916	606		
NO34	Normal Olefin C34					
NC34	Normal Alkane C34					
NO35	Normal Olefin C35					
NC35	Normal Alkane C35					
NC36	Normal Alkane C36					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**G7040168.D**

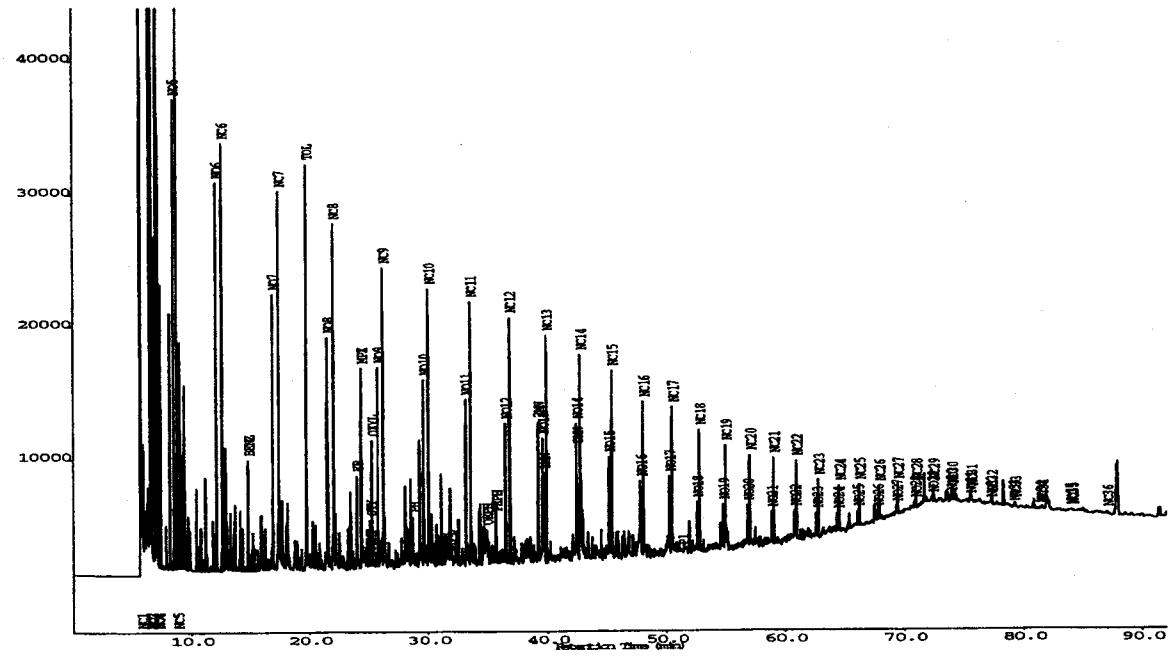
Miscellaneous	By Areas	By Heights
Total Resolved	6819563	2350660
Total Resolved Known	3226237	1247607
Aromatic %	6.87	7.60
C1-C5 alkenes & alkanes	1690548	586666
C6-C9 alkenes & alkanes	315279	146255
C10-C13 alkenes & alkanes	185874	71157
C14-C23 alkenes & alkanes	317749	96522
C24+ alkenes & alkanes	136290	33681

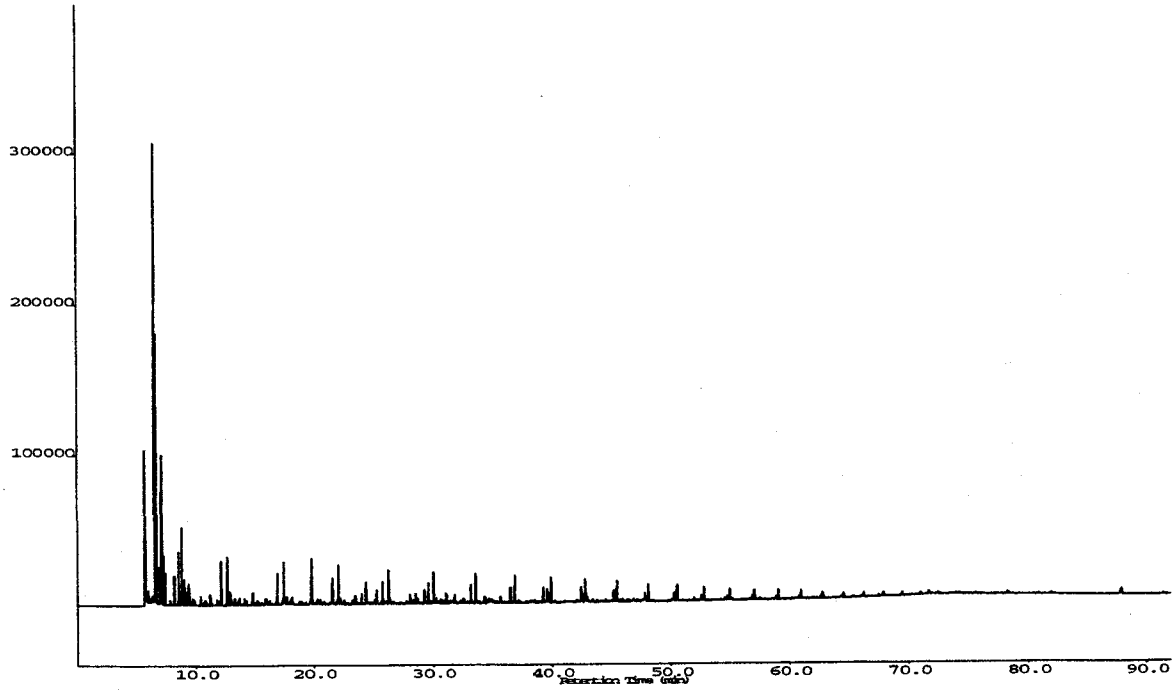
BASELINE DGSI
ANALYTICAL LABORATORIES

PYROLYSIS GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275213**
Lease:	**EAST SIMPSON #2**	**Sample Type:**	**CORE**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST SIMPSON #2**	**Geologic Age:**	
Latitude:	**70.9785**	**Top Depth:**	**7295 FT**
Longitude:	**-154.674**	**Bottom Depth:**	**FT**

G7040169.D





Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**G7040169.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ucm (Area)	ucm (Hght)
NC1	Normal Alkane C1	5.708	496239	103076		
NO2	Normal Olefin C2	6.532	107045	137039		
NC2	Normal Alkane C2	6.555	216354	277426		
NO3	Normal Olefin C3	6.659	121769	180490		
NC3	Normal Alkane C3	6.691	125804	203126		
NO4	Normal Olefin C4	7.081	81891	79529		
NC4	Normal Alkane C4	7.160	84807	91251		
NO5	Normal Olefin C5	8.515	51591	35671		
NC5	Normal Alkane C5	8.798	75157	50226		
NO6	Normal Olefin C6	12.105	60479	29850		
NC6	Normal Alkane C6	12.620	67473	32068		
BENZ	Benzene	14.806	18803	8367		
NO7	Normal Olefin C7	16.904	46583	21024		
NC7	Normal Alkane C7	17.457	65928	28324		
TOL	Toluene	19.803	67797	30228		
NO8	Normal Olefin C8	21.529	39777	17652		
NC8	Normal Alkane C8	22.044	59167	26273		
EB	Ethylbenzene	23.966	19465	7030		
MPX	mp-Xylene	24.335	55499	15288		
23DMT	2-3 Dimethylthiophene	24.971	2952	716		
STY	Styrene	25.057	12954	3728		
OXYL	o-Xylene	25.242	23907	9831		
NO9	Normal Olefin C9	25.743	34789	15096		
NC9	Normal Alkane C9	26.208	52063	22695		
PH	Phenol	28.694	12093	3888		
NO10	Normal Olefin C10	29.599	32060	14111		
NC10	Normal Alkane C10	30.031	52303	20794		
OCR	o-Cresol	31.305	3042	1056		
MPCR	mp-Cresol	32.111	3371	858		
NO11	Normal Olefin C11	33.167	30221	12496		
NC11	Normal Alkane C11	33.560	48489	20012		
OEPH	o-Ethylphenol	34.855	9665	2710		
PEPH	p-Ethylphenol	35.709	5646	2115		
NO12	Normal Olefin C12	36.480	29046	10737		
NC12	Normal Alkane C12	36.842	48672	18779		
2MN	2-Methylnaphthalen	39.212	32465	10613		
NO13	Normal Olefin C13	39.578	25471	9522		
1MN	1-Methylnaphthalen	39.683	19662	6769		
NC13	Normal Alkane C13	39.910	46087	17056		
NO14	Normal Olefin C14	42.478	29698	10557		
DMN	Dimethylnaphthalene	42.524	7581	3180		
NC14	Normal Alkane C14	42.790	41323	15390		
NO15	Normal Olefin C15	45.222	26515	7770		
NC15	Normal Alkane C15	45.501	39808	14200		
NO16	Normal Olefin C16	47.802	17430	5934		
NC16	Normal Alkane C16	48.063	31974	11809		
NO17	Normal Olefin C17	50.247	20158	6105		
NC17	Normal Alkane C17	50.490	32779	11329		
P1	Phenanthrene	51.266	1358	450		
NO18	Normal Olefin C18	52.570	12365	3999		
NC18	Normal Alkane C18	52.791	27643	9292		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**G7040169.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ucm (Area)	ucm (Hght)
NO19	Normal Olefin C19	54.776	10887	3565		
NC19	Normal Alkane C19	54.979	21410	7940		
NO20	Normal Olefin C20	56.877	13430	3308		
NC20	Normal Alkane C20	57.065	18508	6963		
NO21	Normal Olefin C21	58.883	8261	2612		
NC21	Normal Alkane C21	59.059	18039	6618		
NO22	Normal Olefin C22	60.805	9316	2424		
NC22	Normal Alkane C22	60.964	18401	6089		
NO23	Normal Olefin C23	62.644	6847	1962		
NC23	Normal Alkane C23	62.794	12855	4460		
NO24	Normal Olefin C24	64.413	5885	1634		
NC24	Normal Alkane C24	64.551	11364	3746		
NO25	Normal Olefin C25	66.113	5148	1346		
NC25	Normal Alkane C25	66.243	10770	3274		
NO26	Normal Olefin C26	67.749	2828	912		
NC26	Normal Alkane C26	67.870	8577	2722		
NO27	Normal Olefin C27	69.330	2478	780		
NC27	Normal Alkane C27	69.441	7508	2391		
NO28	Normal Olefin C28	70.852	2849	617		
NC28	Normal Alkane C28	70.960	6216	1873		
NO29	Normal Olefin C29	72.327	2640	627		
NC29	Normal Alkane C29	72.435	5912	1520		
NO30	Normal Olefin C30	73.862	3235	561		
NC30	Normal Alkane C30	73.958	4369	1103		
NO31	Normal Olefin C31	75.475	2809	442		
NC31	Normal Alkane C31	75.568	5617	1016		
NO32	Normal Olefin C32	77.208	993	262		
NC32	Normal Alkane C32	77.316	3458	676		
NO33	Normal Olefin C33	79.155	681	165		
NC33	Normal Alkane C33	79.268	2441	431		
NO34	Normal Olefin C34	81.368	570	177		
NC34	Normal Alkane C34	81.473	1999	312		
NO35	Normal Olefin C35	83.840	1848	222		
NC35	Normal Alkane C35	84.016	1183	225		
NC36	Normal Alkane C36	86.997	3479	279		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**G7040169.D**

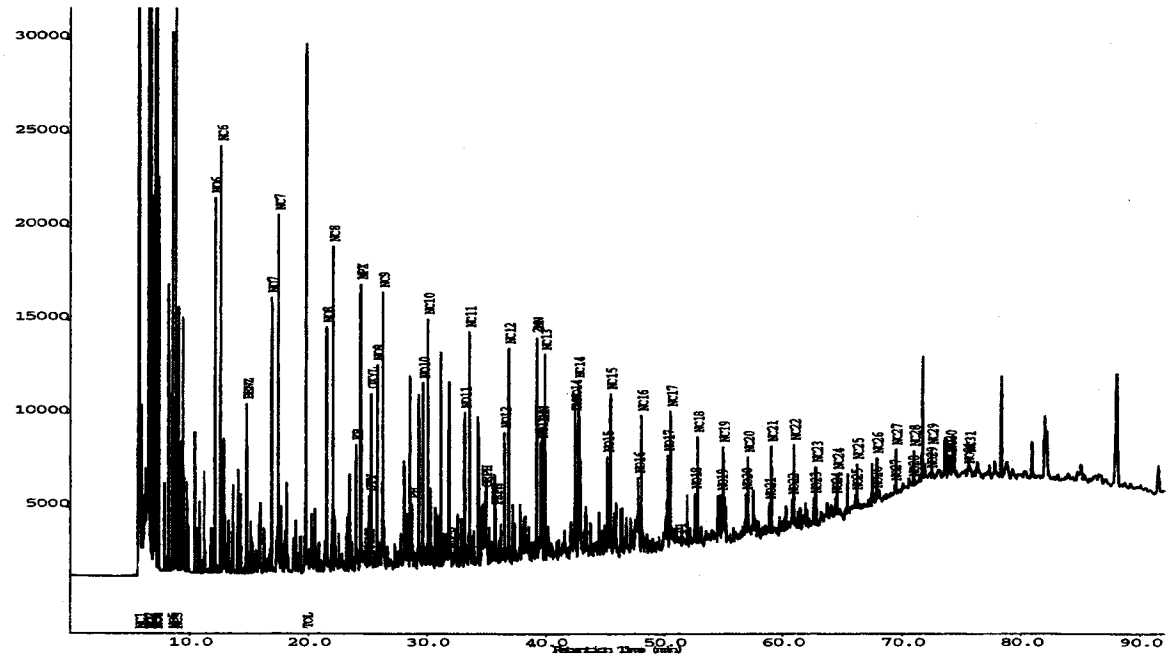
Miscellaneous	By Areas	By Heights
Total Resolved	5384891	2565898
Total Resolved Known	2918032	1750789
Aromatic %	5.50	4.16
C1-C5 alkenes & alkanes	1131843	840305
C6-C9 alkenes & alkanes	426259	192982
C10-C13 alkenes & alkanes	312349	123507
C14-C23 alkenes & alkanes	417647	142326
C24+ alkenes & alkanes	104857	27313

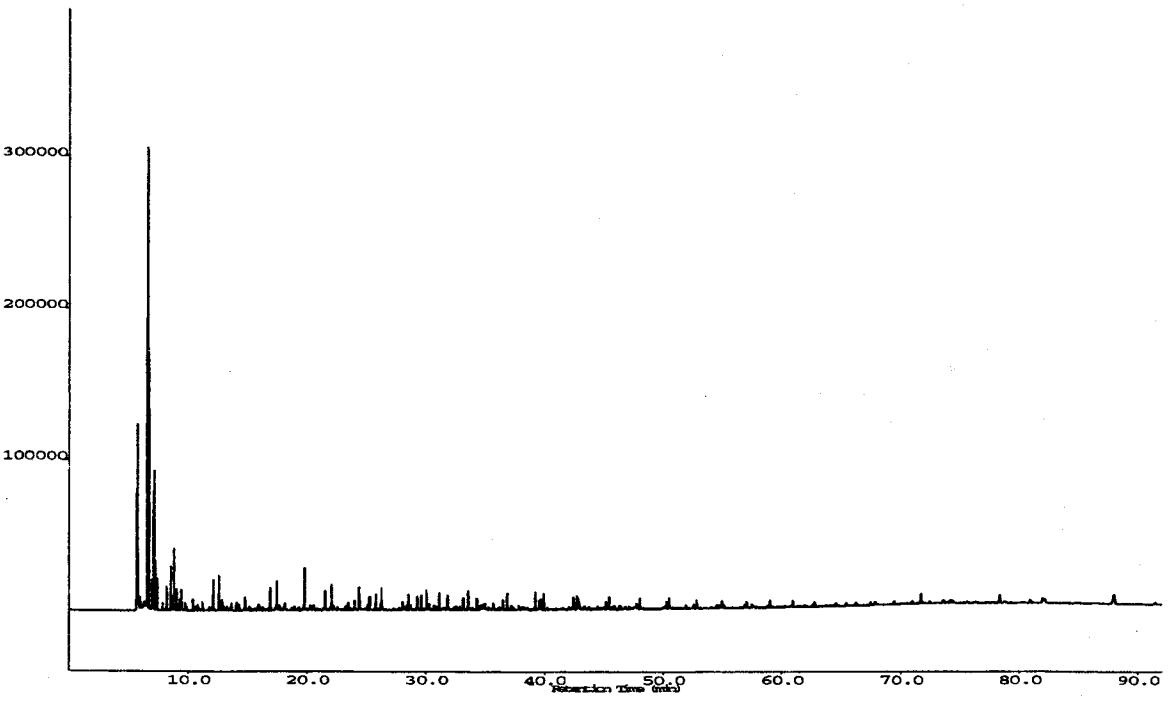
BASELINE DGSI
ANALYTICAL LABORATORIES

PYROLYSIS GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275214**
Lease:	**EAST SIMPSON #2**	**Sample Type:**	**CORE**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST SIMPSON #2**	**Geologic Age:**	
Latitude:	**70.9785**	**Top Depth:**	**7338.3 FT**
Longitude:	**-154.674**	**Bottom Depth:**	**FT**

G7040170.D





Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7338.3 - FT**	**Lab ID:**	**CP275214**
Sampling Point:		**File Name:**	**G7040170.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ucm (Area)	ucm (Hght)
NC1	Normal Alkane C1	5.704	561727	122982		
NO2	Normal Olefin C2	6.543	130559	128958		
NC2	Normal Alkane C2	6.568	222050	352059		
NO3	Normal Olefin C3	6.671	126037	161906		
NC3	Normal Alkane C3	6.697	113668	184302		
NO4	Normal Olefin C4	7.077	84773	82151		
NC4	Normal Alkane C4	7.164	76906	87637		
NO5	Normal Olefin C5	8.506	41318	29827		
NC5	Normal Alkane C5	8.785	58082	41149		
NO6	Normal Olefin C6	12.084	41313	20238		
NC6	Normal Alkane C6	12.597	47590	22751		
BENZ	Benzene	14.786	21844	9125		
NO7	Normal Olefin C7	16.884	32677	14866		
NC7	Normal Alkane C7	17.437	43763	19291		
TOL	Toluene	19.787	64243	28264		
NO8	Normal Olefin C8	21.516	28700	13258		
NC8	Normal Alkane C8	22.030	38787	17610		
EB	Ethylbenzene	23.956	16985	6807		
MPX	mp-Xylene	24.324	53026	15389		
23DMT	2-3 Dimethylthiophene	24.964	2095	642		
STY	Styrene	25.050	13767	4071		
OXYL	o-Xylene	25.234	23312	9621		
NO9	Normal Olefin C9	25.734	24506	10969		
NC9	Normal Alkane C9	26.199	33999	14834		
PH	Phenol	28.683	11027	3549		
NO10	Normal Olefin C10	29.593	21961	9891		
NC10	Normal Alkane C10	30.023	31486	13297		
OCR	o-Cresol	31.301	2125	808		
MPCR	mp-Cresol	32.109	3018	800		
NO11	Normal Olefin C11	33.160	20122	8206		
NC11	Normal Alkane C11	33.551	30250	12712		
OEPH	o-Ethylphenol	34.849	11967	3990		
PEPH	p-Ethylphenol	35.706	7869	2986		
NO12	Normal Olefin C12	36.469	18471	7167		
NC12	Normal Alkane C12	36.829	30505	11766		
2MN	2-Methylnaphthalen	39.202	34445	12116		
NO13	Normal Olefin C13	39.565	17976	6476		
1MN	1-Methylnaphthalen	39.672	20050	7301		
NC13	Normal Alkane C13	39.896	30266	11074		
NO14	Normal Olefin C14	42.463	22233	8285		
DMN	Dimethylnaphthalene	42.518	10185	3567		
NC14	Normal Alkane C14	42.777	25752	9384		
NO15	Normal Olefin C15	45.213	19855	5380		
NC15	Normal Alkane C15	45.489	24963	8755		
NO16	Normal Olefin C16	47.789	12740	4138		
NC16	Normal Alkane C16	48.051	20122	7465		
NO17	Normal Olefin C17	50.234	16849	5103		
NC17	Normal Alkane C17	50.475	23577	7537		
P1	Phenanthrene	51.252	1901	619		
NO18	Normal Olefin C18	52.556	9021	2952		
NC18	Normal Alkane C18	52.776	18687	5975		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7338.3 - FT**	**Lab ID:**	**CP275214**
Sampling Point:		**File Name:**	**G7040170.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ucm (Area)	ucm (Hght)
NO19	Normal Olefin C19	54.758	8583	2635		
NC19	Normal Alkane C19	54.961	14426	5157		
NO20	Normal Olefin C20	56.859	10754	2493		
NC20	Normal Alkane C20	57.048	12940	4483		
NO21	Normal Olefin C21	58.866	5573	1848		
NC21	Normal Alkane C21	59.042	14544	4854		
NO22	Normal Olefin C22	60.789	6273	1792		
NC22	Normal Alkane C22	60.946	16668	4726		
NO23	Normal Olefin C23	62.630	5282	1587		
NC23	Normal Alkane C23	62.778	9621	3202		
NO24	Normal Olefin C24	64.398	5343	1269		
NC24	Normal Alkane C24	64.534	7751	2571		
NO25	Normal Olefin C25	66.096	4904	1095		
NC25	Normal Alkane C25	66.226	9389	2701		
NO26	Normal Olefin C26	67.733	2122	707		
NC26	Normal Alkane C26	67.854	9229	2516		
NO27	Normal Olefin C27	69.322	2120	604		
NC27	Normal Alkane C27	69.427	8132	2499		
NO28	Normal Olefin C28	70.840	1370	314		
NC28	Normal Alkane C28	70.946	6029	1894		
NO29	Normal Olefin C29	72.323	1790	418		
NC29	Normal Alkane C29	72.426	5427	1657		
NO30	Normal Olefin C30	73.858	3498	678		
NC30	Normal Alkane C30	73.949	4877	1209		
NO31	Normal Olefin C31	75.485	3351	571		
NC31	Normal Alkane C31	75.564	5848	1151		
NO32	Normal Olefin C32					
NC32	Normal Alkane C32					
NO33	Normal Olefin C33					
NC33	Normal Alkane C33					
NO34	Normal Olefin C34					
NC34	Normal Alkane C34					
NO35	Normal Olefin C35					
NC35	Normal Alkane C35					
NC36	Normal Alkane C36					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7338.3 - FT**	**Lab ID:**	**CP275214**
Sampling Point:		**File Name:**	**G7040170.D**

Miscellaneous	By Areas	By Heights
Total Resolved	5377390	2505781
Total Resolved Known	2584998	1634635
Aromatic %	5.54	4.38
C1-C5 alkenes & alkanes	1158524	900107
C6-C9 alkenes & alkanes	291335	133817
C10-C13 alkenes & alkanes	201037	80589
C14-C23 alkenes & alkanes	298463	97751
C24+ alkenes & alkanes	81180	21854

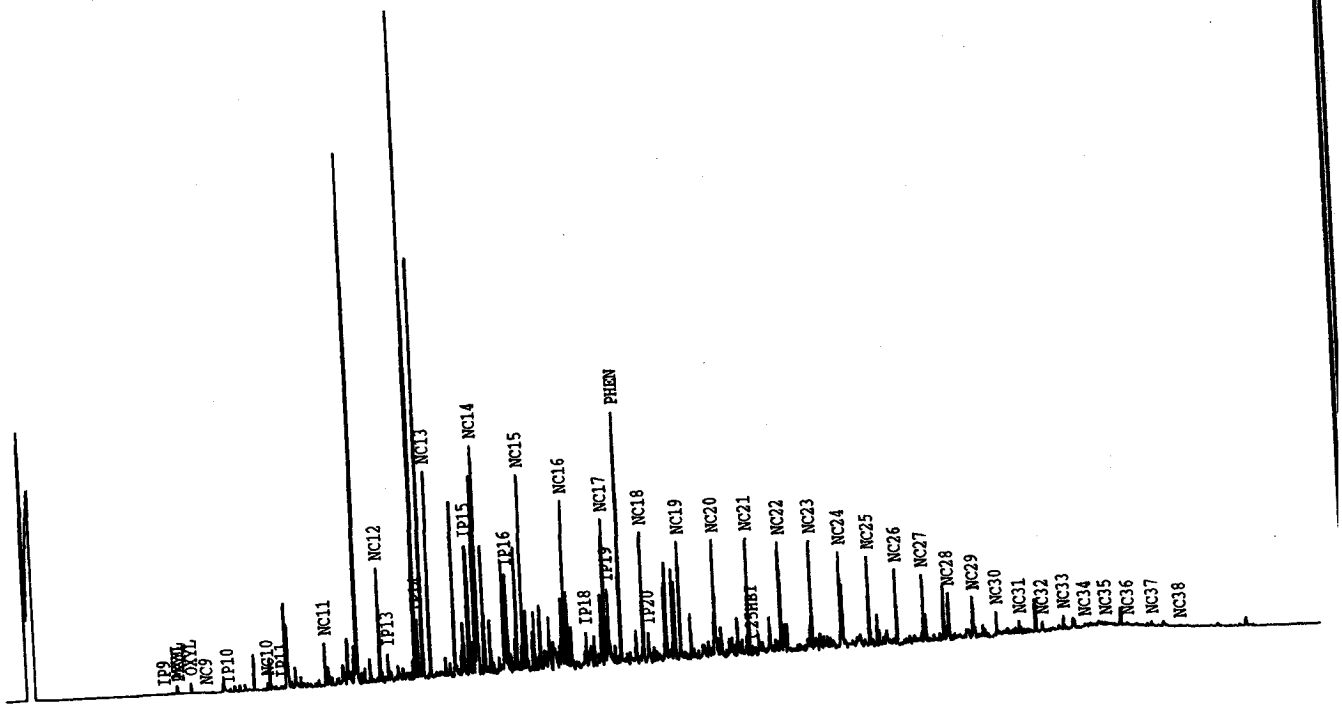
BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	CONOCOPHILLIPS	**Client ID:**	US135733
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275212
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST SIMPSON #2	**Geologic Age:**	
Latitude:	70.9785	**Top Depth:**	7202.5 FT
Longitude:	-154.674	**Bottom Depth:**	FT

G1041036.D

Whole Oil GC Trace



WGC parameters	
Pristane/Phytane	2.23
Pristane/*n* C_{17}	0.71
Phytane/*n* C_{18}	0.36
n C_{18}/*n* C_{19}	1.06
n C_{17}/*n* C_{29}	2.62
CPI Marzi[4]	1.07
Normal Paraffins	14.6
Isoprenoids	3.6
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	0.1
Resolved unknowns	79.9

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_8/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[2]Mango, F.D.,1994,GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**G1041036.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9	17.285	115	34		
MXYL	m-Xylene	18.501	3753	1229		
PXYL	p-Xylene	18.568	836	268		
OXYL	o-Xylene	19.744	4681	1491		
NC9	Normal Alkane C9	21.128	295	101		
IP10	Isoprenoid C10	23.110	912	163		
NC10	Normal Alkane C10	26.700	3083	1062		
IP11	Isoprenoid C11	28.002	1539	498		
NC11	Normal Alkane C11	31.942	20918	6570		
NC12	Normal Alkane C12	36.855	55470	17446		
IP13	Isoprenoid C13	37.593	17221	4257		
IP14	Isoprenoid C14	40.350	29186	9127		
NC13	Normal Alkane C13	41.462	100438	31439		
IP15	Isoprenoid C15	44.919	80193	19634		
NC14	Normal Alkane C14	45.790	118069	34694		
IP16	Isoprenoid C16	48.440	66811	15042		
NC15	Normal Alkane C15	49.862	106476	29967		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**G1041036.D**

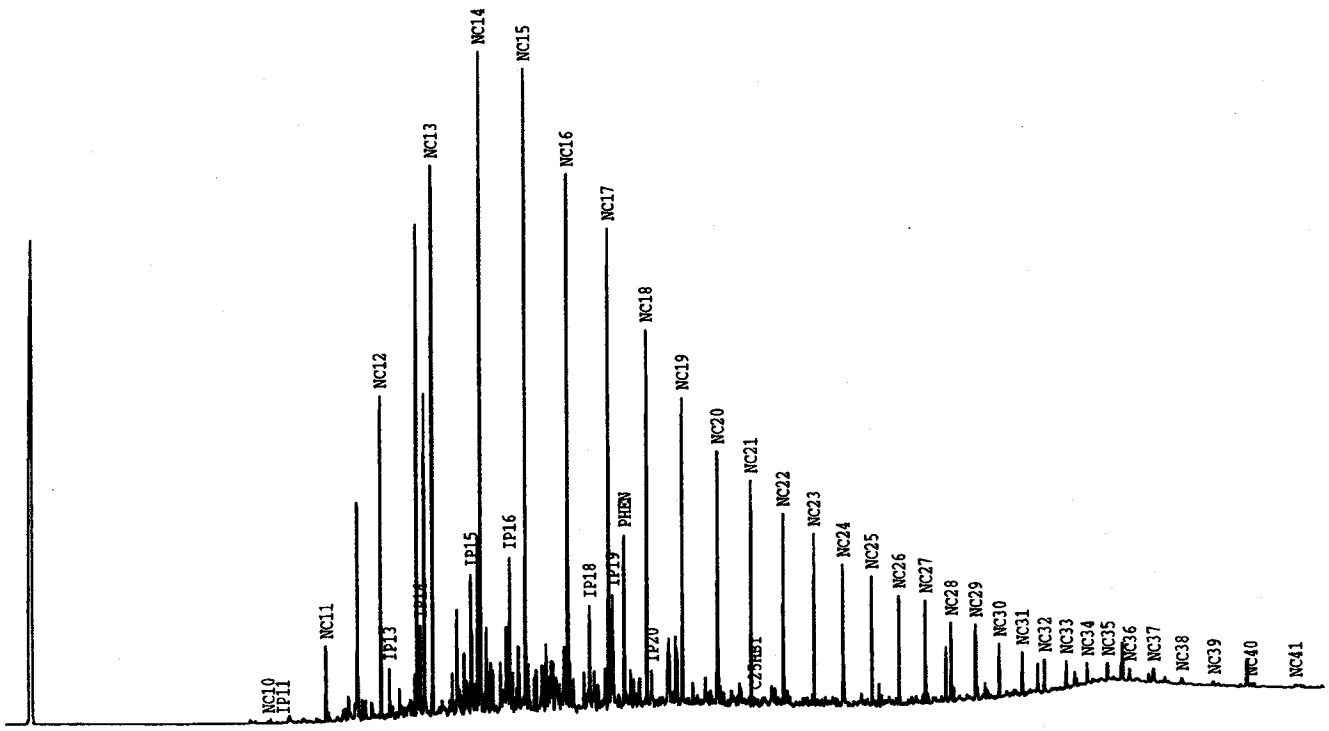
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.713	88770	25724		
IP18	Isoprenoid C18	55.639	26681	5480		
NC17	Normal Alkane C17	57.360	78524	22393		
IP19	Isoprenoid C19 (Pristane)	57.724	55654	11694		
PHEN	Phenanthrene	58.823	155595	38322		
NC18	Normal Alkane C18	60.832	69302	19889		
IP20	Isoprenoid C20 (Phytane)	61.290	24923	4619		
NC19	Normal Alkane C19	64.133	65099	18067		
NC20	Normal Alkane C20	67.286	66275	17960		
NC21	Normal Alkane C21	70.301	61444	17812		
C25HBI	Highly Branch Isoprenoid C25	70.557	7034	1595		
NC22	Normal Alkane C22	73.185	62930	16960		
NC23	Normal Alkane C23	75.947	59247	16685		
NC24	Normal Alkane C24	78.601	55123	14669		
NC25	Normal Alkane C25	81.152	51950	13715		
NC26	Normal Alkane C26	83.605	44221	11557		
NC27	Normal Alkane C27	85.966	39171	10394		
NC28	Normal Alkane C28	88.248	27195	7217		
NC29	Normal Alkane C29	90.460	29995	6401		
NC30	Normal Alkane C30	92.590	17800	3816		
NC31	Normal Alkane C31	94.647	8795	2115		
NC32	Normal Alkane C32	96.653	9948	1620		
NC33	Normal Alkane C33	98.573	11832	2199		
NC34	Normal Alkane C34	100.473	3670	673		
NC35	Normal Alkane C35	102.314	3314	538		
NC36	Normal Alkane C36	104.287	2753	484		
NC37	Normal Alkane C37	106.504	4748	790		
NC38	Normal Alkane C38	109.024	2328	259		
NC39	Normal Alkane C39					
NC40	Normal Alkane C40					
NC41	Normal Alkane C41					

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275213**
Lease:	**EAST SIMPSON #2**	**Sample Type:**	**CORE**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST SIMPSON #2**	**Geologic Age:**	
Latitude:	**70.9785**	**Top Depth:**	**7295 FT**
Longitude:	**-154.674**	**Bottom Depth:**	**FT**

Whole Oil GC Trace G1041043.D



WGC parameters	
Pristane/Phytane	2.63
Pristane/*n* C_{17}	0.33
Phytane/*n* C_{18}	0.16
n C_{18}/*n* C_{19}	1.21
n C_{17}/*n* C_{29}	4.81
CPI Marzi[4]	1.10
Normal Paraffins	30.8
Isoprenoids	4.5
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	63.7

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**G1041043.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10	26.687	469	160		
IP11	Isoprenoid C11	27.985	190	66		
NC11	Normal Alkane C11	31.926	13675	4575		
NC12	Normal Alkane C12	36.843	58724	19478		
IP13	Isoprenoid C13	37.579	11335	3063		
IP14	Isoprenoid C14	40.331	17191	5541		
NC13	Normal Alkane C13	41.450	104892	33115		
IP15	Isoprenoid C15	44.884	29704	8445		
NC14	Normal Alkane C14	45.779	131671	39855		
IP16	Isoprenoid C16	48.418	41317	9430		
NC15	Normal Alkane C15	49.855	137410	38860		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**G1041043.D**

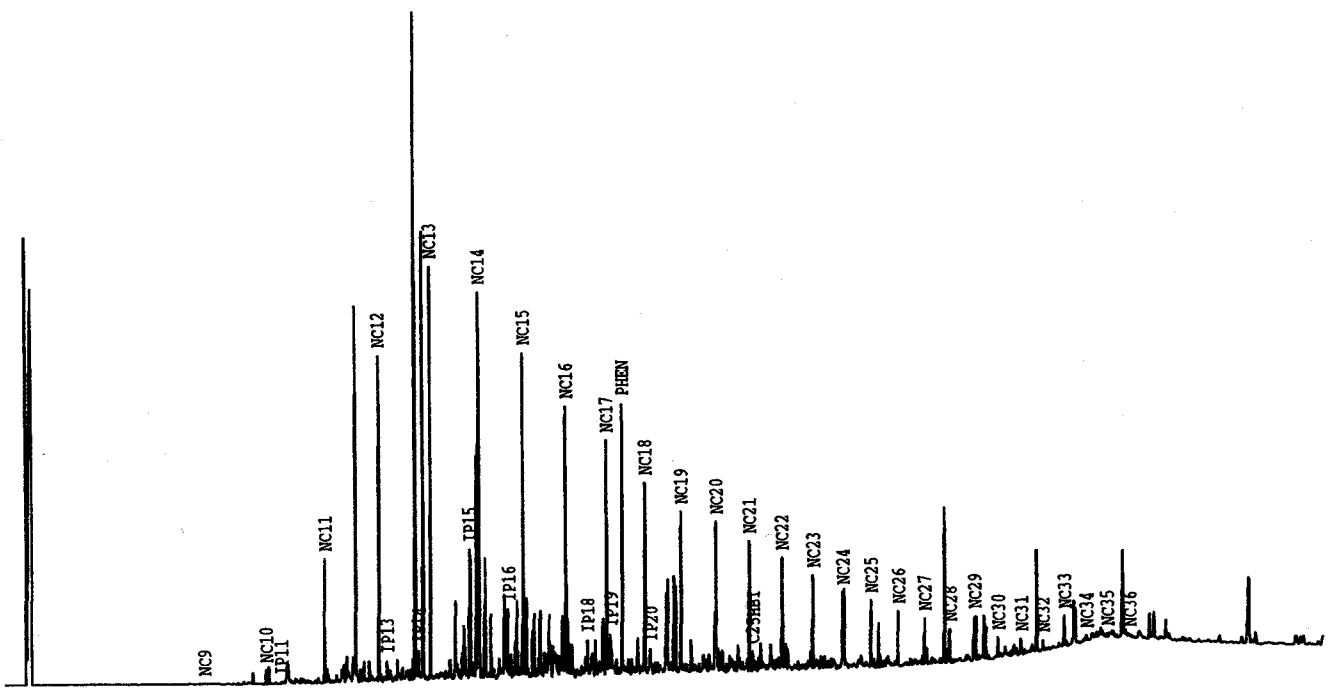
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.705	113164	32415		
IP18	Isoprenoid C18	55.623	28193	6393		
NC17	Normal Alkane C17	57.351	99697	29032		
IP19	Isoprenoid C19 (Pristane)	57.703	33293	6959		
PHEN	Phenanthrene	58.762	36208	10500		
NC18	Normal Alkane C18	60.820	77292	22761		
IP20	Isoprenoid C20 (Phytane)	61.263	12646	2306		
NC19	Normal Alkane C19	64.119	64039	18710		
NC20	Normal Alkane C20	67.268	55767	15493		
NC21	Normal Alkane C21	70.279	47837	13659		
C25HBI	Highly Branch Isoprenoid C25	70.534	2624	614		
NC22	Normal Alkane C22	73.159	41618	11655		
NC23	Normal Alkane C23	75.921	35966	10447		
NC24	Normal Alkane C24	78.573	30857	8605		
NC25	Normal Alkane C25	81.122	28352	7840		
NC26	Normal Alkane C26	83.578	24146	6589		
NC27	Normal Alkane C27	85.942	22963	6246		
NC28	Normal Alkane C28	88.226	17528	4793		
NC29	Normal Alkane C29	90.433	20720	4611		
NC30	Normal Alkane C30	92.564	13275	3324		
NC31	Normal Alkane C31	94.629	10495	2685		
NC32	Normal Alkane C32	96.626	8330	2015		
NC33	Normal Alkane C33	98.563	7737	1719		
NC34	Normal Alkane C34	100.452	5730	1291		
NC35	Normal Alkane C35	102.291	4863	1099		
NC36	Normal Alkane C36	104.266	4571	776		
NC37	Normal Alkane C37	106.456	5498	852		
NC38	Normal Alkane C38	108.999	3182	416		
NC39	Normal Alkane C39	111.888	2212	280		
NC40	Normal Alkane C40	115.244	2486	245		
NC41	Normal Alkane C41	118.923	2016	201		

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275214**
Lease:	**EAST SIMPSON #2**	**Sample Type:**	**CORE**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST SIMPSON #2**	**Geologic Age:**	
Latitude:	**70.9785**	**Top Depth:**	**7338.3 FT**
Longitude:	**-154.674**	**Bottom Depth:**	**FT**

Whole Oil GC Trace G1041038.D



WGC parameters	
Pristane/Phytane	1.59
Pristane/*n* C_{17}	0.24
Phytane/*n* C_{18}	0.18
n C_{18}/*n* C_{19}	1.15
n C_{17}/*n* C_{29}	4.53
CPI Marzi[4]	1.11
Normal Paraffins	19.3
Isoprenoids	2.6
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	76.5

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

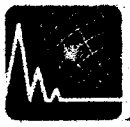
[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7338.3 - FT**	**Lab ID:**	**CP275214**
Sampling Point:		**File Name:**	**G1041038.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9	21.126	175	58		
IP10	Isoprenoid C10					
NC10	Normal Alkane C10	26.701	2765	978		
IP11	Isoprenoid C11	27.998	374	117		
NC11	Normal Alkane C11	31.946	25636	8533		
NC12	Normal Alkane C12	36.863	66551	22338		
IP13	Isoprenoid C13	37.597	6079	1464		
IP14	Isoprenoid C14	40.347	6819	2079		
NC13	Normal Alkane C13	41.464	87025	28321		
IP15	Isoprenoid C15	44.914	30955	8834		
NC14	Normal Alkane C14	45.786	86862	26463		
IP16	Isoprenoid C16	48.431	23526	4787		
NC15	Normal Alkane C15	49.857	78994	22291		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135735**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7338.3 - FT**	**Lab ID:**	**CP275214**
Sampling Point:		**File Name:**	**G1041038.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.709	61719	18640		
IP18	Isoprenoid C18	55.639	11562	2542		
NC17	Normal Alkane C17	57.354	54015	16188		
IP19	Isoprenoid C19 (Pristane)	57.719	12769	2853		
PHEN	Phenanthrene	58.789	63110	18617		
NC18	Normal Alkane C18	60.825	45026	13142		
IP20	Isoprenoid C20 (Phytane)	61.282	8036	1721		
NC19	Normal Alkane C19	64.127	39172	11084		
NC20	Normal Alkane C20	67.277	39306	10381		
NC21	Normal Alkane C21	70.288	30794	8966		
C25HBI	Highly Branch Isoprenoid C25	70.563	6289	1445		
NC22	Normal Alkane C22	73.171	27443	7780		
NC23	Normal Alkane C23	75.932	22948	6515		
NC24	Normal Alkane C24	78.582	19433	5306		
NC25	Normal Alkane C25	81.135	17637	4710		
NC26	Normal Alkane C26	83.588	14305	3859		
NC27	Normal Alkane C27	85.953	12400	3241		
NC28	Normal Alkane C28	88.232	8984	2384		
NC29	Normal Alkane C29	90.492	11917	3100		
NC30	Normal Alkane C30	92.580	6562	1489		
NC31	Normal Alkane C31	94.644	5286	1168		
NC32	Normal Alkane C32	96.643	4206	828		
NC33	Normal Alkane C33	98.541	10464	2152		
NC34	Normal Alkane C34	100.472	2103	472		
NC35	Normal Alkane C35	102.306	2504	423		
NC36	Normal Alkane C36	104.274	1804	325		
NC37	Normal Alkane C37					
NC38	Normal Alkane C38					
NC39	Normal Alkane C39					
NC40	Normal Alkane C40					
NC41	Normal Alkane C41					



BASELINE DGSI
ANALYTICAL LABORATORIES

SOXHLET

Company: CONOCOPHILLIPS **Project #: 04-501-A**

Client ID	Lab ID	Rock Weight (g)	Net Extract Weight (g)	% Extract	EOM (ppm)
US135725	CP275204	1.2295	0.0008	0.07	651
US135726	CP275205	1.6559	0.0005	0.03	302
US135727	CP275206	0.9914	0.0005	0.05	504
US135728	CP275207	0.5927	0.0005	0.08	844
US135729	CP275208	0.5762	0.0002	0.03	347
US135730	CP275209	0.5848	0.0001	0.02	171
US135731	CP275210	14.6641	0.0017	0.01	116
US135732	CP275211	41.9982	0.0063	0.02	150
US135733	CP275212	53.7019	0.0463	0.09	862
US135734	CP275213	62.6941	0.0392	0.06	625
US135735	CP275214	59.6322	0.0443	0.07	743

Baseline/DGSI - USA
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Telephone: 281-681-2200
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Web Site: http://www.baselinedgsi.com

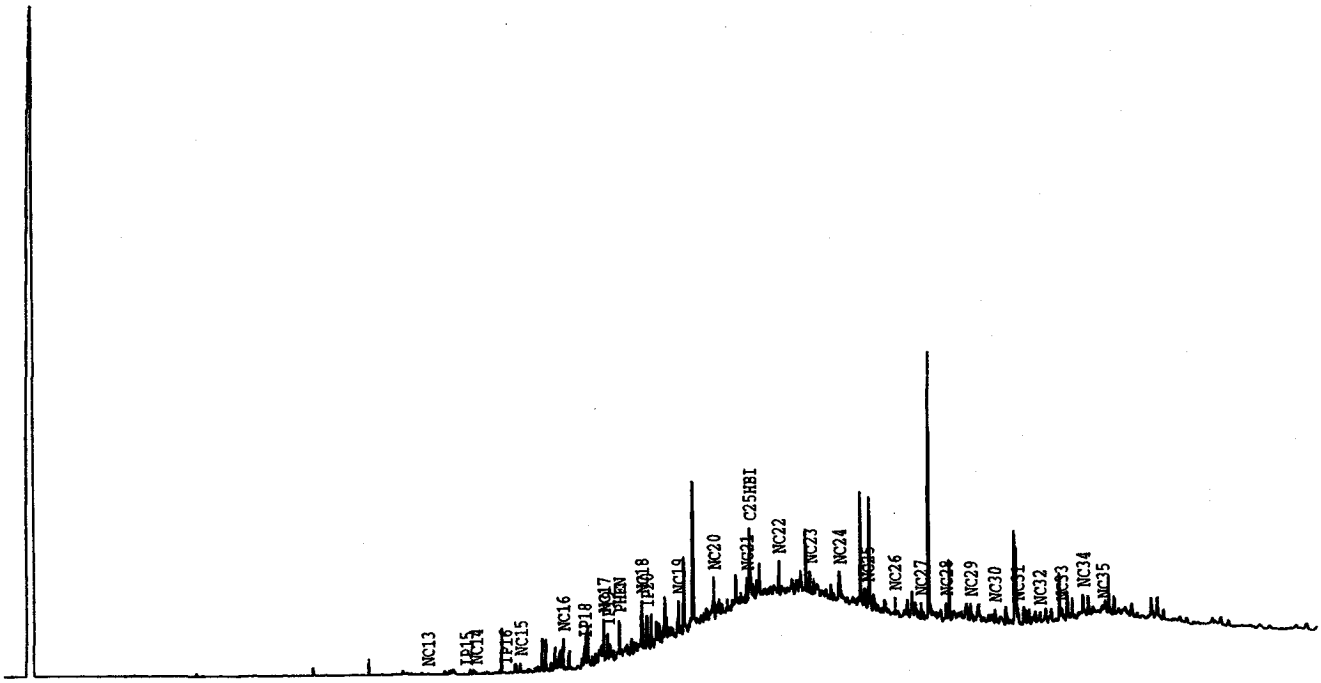
Baseline DGSI - Brazil
Rua Benjamin Batista 55 / 301 Jardim Botânico,
22461-120 Rio de Janeiro (RJ) – Brazil
Tel/Fax: + 55.21 / 537 7893
E-mail: ssp@solintec.com.br

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135725**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275204**
Lease:	**IKPIKPUK #1**	**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**IKPIKPUK #1**	**Geologic Age:**	
Latitude:	**69.8267**	**Top Depth:**	**11320 FT**
Longitude:	**-155.899**	**Bottom Depth:**	**11340 FT**

Whole Oil GC Trace G1041033.D



WGC parameters	
Pristane/Phytane	0.75
Pristane/*n* C_{17}	0.93
Phytane/*n* C_{18}	0.93
n C_{18}/*n* C_{19}	1.56
n C_{17}/*n* C_{29}	1.90
CPI Marzi[4]	0.73
Normal Paraffins	5.0
Isoprenoids	1.9
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	92.6

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	*mp*XYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135725**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275204**
Sampling Point:		**File Name:**	**G1041033.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10					
IP11	Isoprenoid C11					
NC11	Normal Alkane C11					
NC12	Normal Alkane C12					
IP13	Isoprenoid C13					
IP14	Isoprenoid C14					
NC13	Normal Alkane C13	41.437	259	39		
IP15	Isoprenoid C15	44.889	90	18		
NC14	Normal Alkane C14	45.755	693	135		
IP16	Isoprenoid C16	48.417	366	74		
NC15	Normal Alkane C15	49.826	1673	472		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135725**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275204**
Sampling Point:		**File Name:**	**G1041033.D**

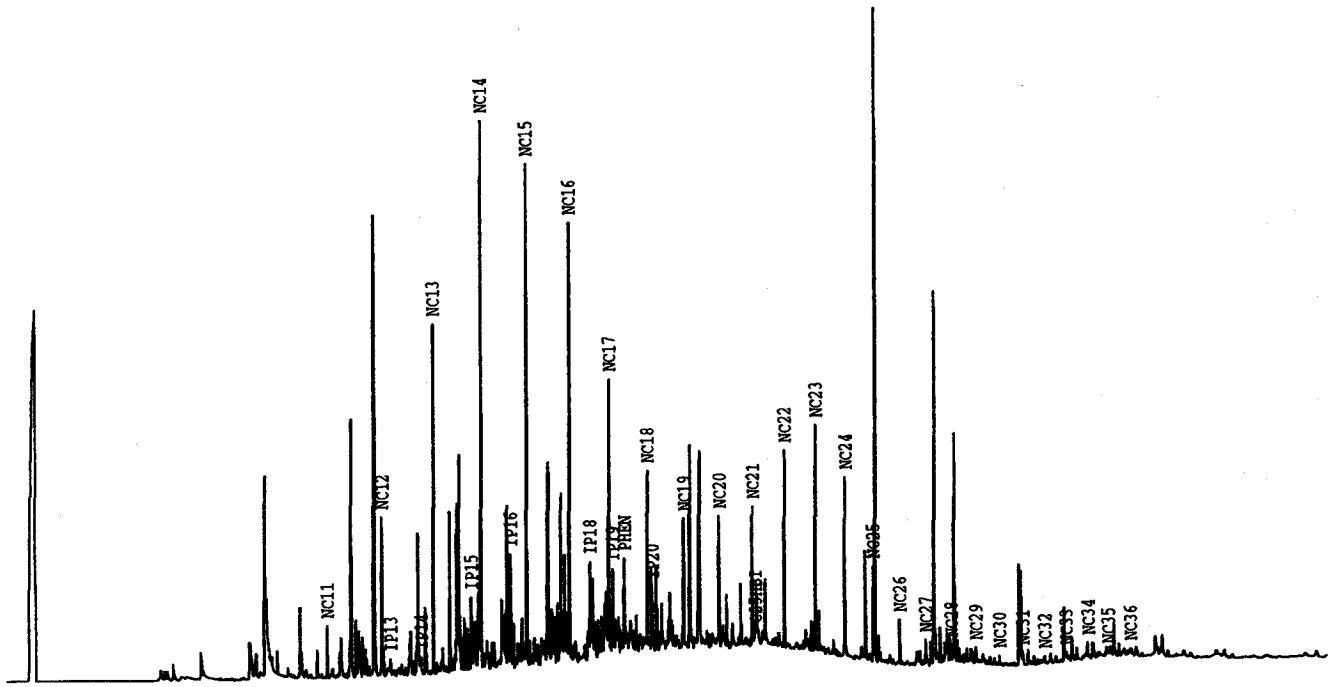
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.679	5454	1487		
IP18	Isoprenoid C18	55.621	5276	1029		
NC17	Normal Alkane C17	57.329	7676	2021		
IP19	Isoprenoid C19 (Pristane)	57.693	7173	1338		
PHEN	Phenanthrene	58.744	10489	1806		
NC18	Normal Alkane C18	60.800	10285	2385		
IP20	Isoprenoid C20 (Phytane)	61.263	9558	1643		
NC19	Normal Alkane C19	64.109	6591	1673		
NC20	Normal Alkane C20	67.266	8355	2022		
NC21	Normal Alkane C21	70.279	4366	1295		
C25HBI	Highly Branch Isoprenoid C25	70.543	20200	3551		
NC22	Normal Alkane C22	73.161	7805	1764		
NC23	Normal Alkane C23	75.927	5152	1241		
NC24	Normal Alkane C24	78.589	9243	1499		
NC25	Normal Alkane C25	81.133	3999	1006		
NC26	Normal Alkane C26	83.584	3581	912		
NC27	Normal Alkane C27	85.952	3683	821		
NC28	Normal Alkane C28	88.233	3910	919		
NC29	Normal Alkane C29	90.437	4035	894		
NC30	Normal Alkane C30	92.577	2904	713		
NC31	Normal Alkane C31	94.640	4270	803		
NC32	Normal Alkane C32	96.632	2822	560		
NC33	Normal Alkane C33	98.569	4113	635		
NC34	Normal Alkane C34	100.516	6840	1087		
NC35	Normal Alkane C35	102.319	3075	452		
NC36	Normal Alkane C36					
NC37	Normal Alkane C37					
NC38	Normal Alkane C38					
NC39	Normal Alkane C39					
NC40	Normal Alkane C40					
NC41	Normal Alkane C41					

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275205**
Lease:	**IKPIKPUK #1**	**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**IKPIKPUK #1**	**Geologic Age:**	
Latitude:	**69.8267**	**Top Depth:**	**11320 FT**
Longitude:	**-155.899**	**Bottom Depth:**	**11340 FT**

Whole Oil GC Trace G1041027.D



WGC parameters	
Pristane/Phytane	1.56
Pristane/*n* C_{17}	0.46
Phytane/*n* C_{18}	0.49
n C_{18}/*n* C_{19}	1.34
n C_{17}/*n* C_{29}	11.83
CPI Marzi[4]	0.96
Normal Paraffins	16.4
Isoprenoids	2.8
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	80.2

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**G1041027.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10					
IP11	Isoprenoid C11					
NC11	Normal Alkane C11	31.947	15501	5130		
NC12	Normal Alkane C12	36.866	52566	15564		
IP13	Isoprenoid C13	37.600	6693	1683		
IP14	Isoprenoid C14	40.348	6380	1763		
NC13	Normal Alkane C13	41.475	109242	34110		
IP15	Isoprenoid C15	44.914	28606	7239		
NC14	Normal Alkane C14	45.816	186390	53462		
IP16	Isoprenoid C16	48.441	49451	11211		
NC15	Normal Alkane C15	49.888	184214	49121		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**G1041027.D**

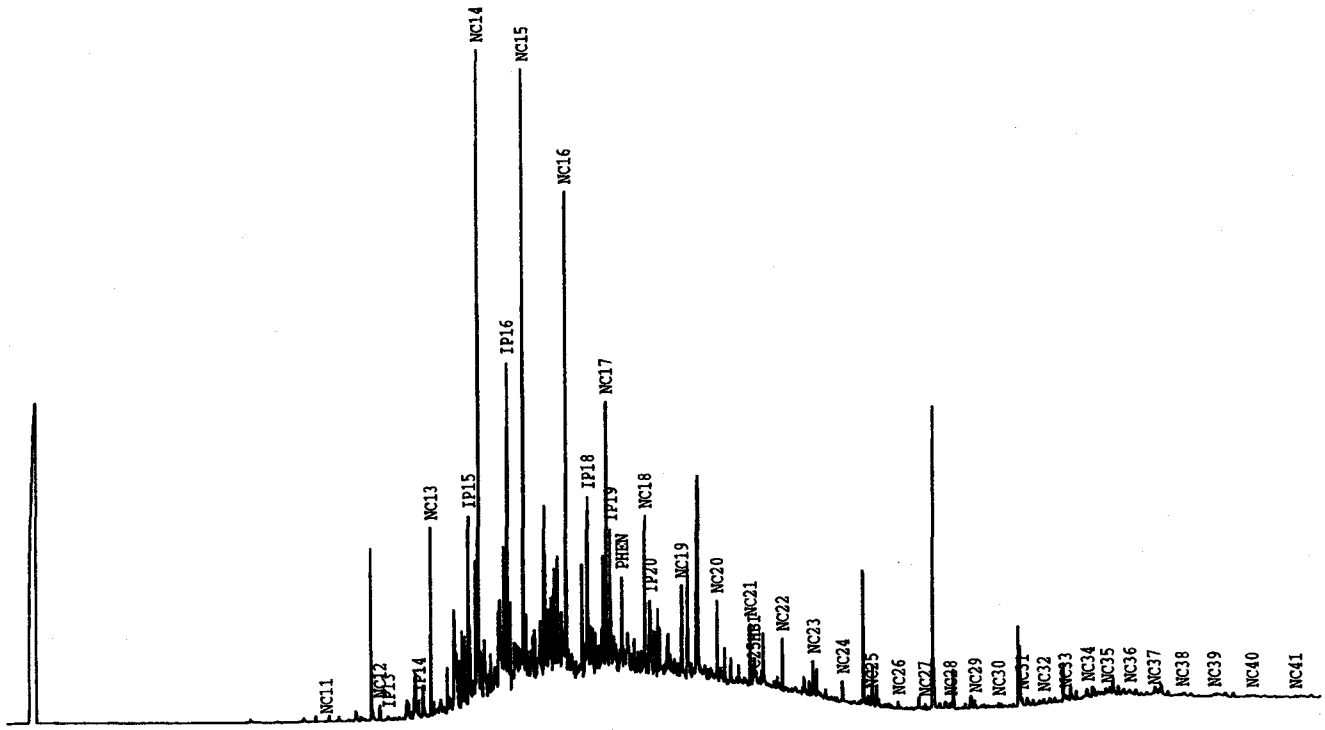
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.740	158255	42829		
IP18	Isoprenoid C18	55.653	48152	9639		
NC17	Normal Alkane C17	57.381	103626	27133		
IP19	Isoprenoid C19 (Pristane)	57.728	48022	8640		
PHEN	Phenanthrene	58.796	45681	9461		
NC18	Normal Alkane C18	60.846	62766	17689		
IP20	Isoprenoid C20 (Phytane)	61.296	30742	6333		
NC19	Normal Alkane C19	64.149	46836	12828		
NC20	Normal Alkane C20	67.298	46130	13032		
NC21	Normal Alkane C21	70.311	48996	13881		
C25HBI	Highly Branch Isoprenoid C25	70.561	7985	1789		
NC22	Normal Alkane C22	73.200	68908	19405		
NC23	Normal Alkane C23	75.965	81056	22249		
NC24	Normal Alkane C24	78.609	67439	17598		
NC25	Normal Alkane C25	81.182	32290	9343		
NC26	Normal Alkane C26	83.596	16250	4460		
NC27	Normal Alkane C27	85.964	10176	2582		
NC28	Normal Alkane C28	88.257	7521	1913		
NC29	Normal Alkane C29	90.451	8756	1682		
NC30	Normal Alkane C30	92.583	4637	1079		
NC31	Normal Alkane C31	94.649	6262	1292		
NC32	Normal Alkane C32	96.637	5199	827		
NC33	Normal Alkane C33	98.574	5842	993		
NC34	Normal Alkane C34	100.524	9366	1710		
NC35	Normal Alkane C35	102.327	5500	736		
NC36	Normal Alkane C36	104.373	7081	817		
NC37	Normal Alkane C37					
NC38	Normal Alkane C38					
NC39	Normal Alkane C39					
NC40	Normal Alkane C40					
NC41	Normal Alkane C41					

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	CONOCOPHILLIPS	**Client ID:**	US135727
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275206
Lease:	INIGOK #1	**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	INIGOK #1	**Geologic Age:**	
Latitude:	70.0003	**Top Depth:**	13690 FT
Longitude:	-153.095	**Bottom Depth:**	13710 FT

Whole Oil GC Trace G1041028.D



WGC parameters	
Pristane/Phytane	1.87
Pristane/*n* C_{17}	0.78
Phytane/*n* C_{18}	0.76
n C_{18}/*n* C_{19}	1.54
n C_{17}/*n* C_{29}	25.85
CPI Marzi[4]	0.86
Normal Paraffins	15.9
Isoprenoids	6.4
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	77.1

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_8/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**G1041028.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10					
IP11	Isoprenoid C11					
NC11	Normal Alkane C11	31.952	307	65		
NC12	Normal Alkane C12	36.854	4512	1384		
IP13	Isoprenoid C13	37.599	1778	401		
IP14	Isoprenoid C14	40.350	5620	1628		
NC13	Normal Alkane C13	41.460	51033	16500		
IP15	Isoprenoid C15	44.911	56531	16605		
NC14	Normal Alkane C14	45.819	200848	57074		
IP16	Isoprenoid C16	48.468	127105	28902		
NC15	Normal Alkane C15	49.902	228559	54262		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**G1041028.D**

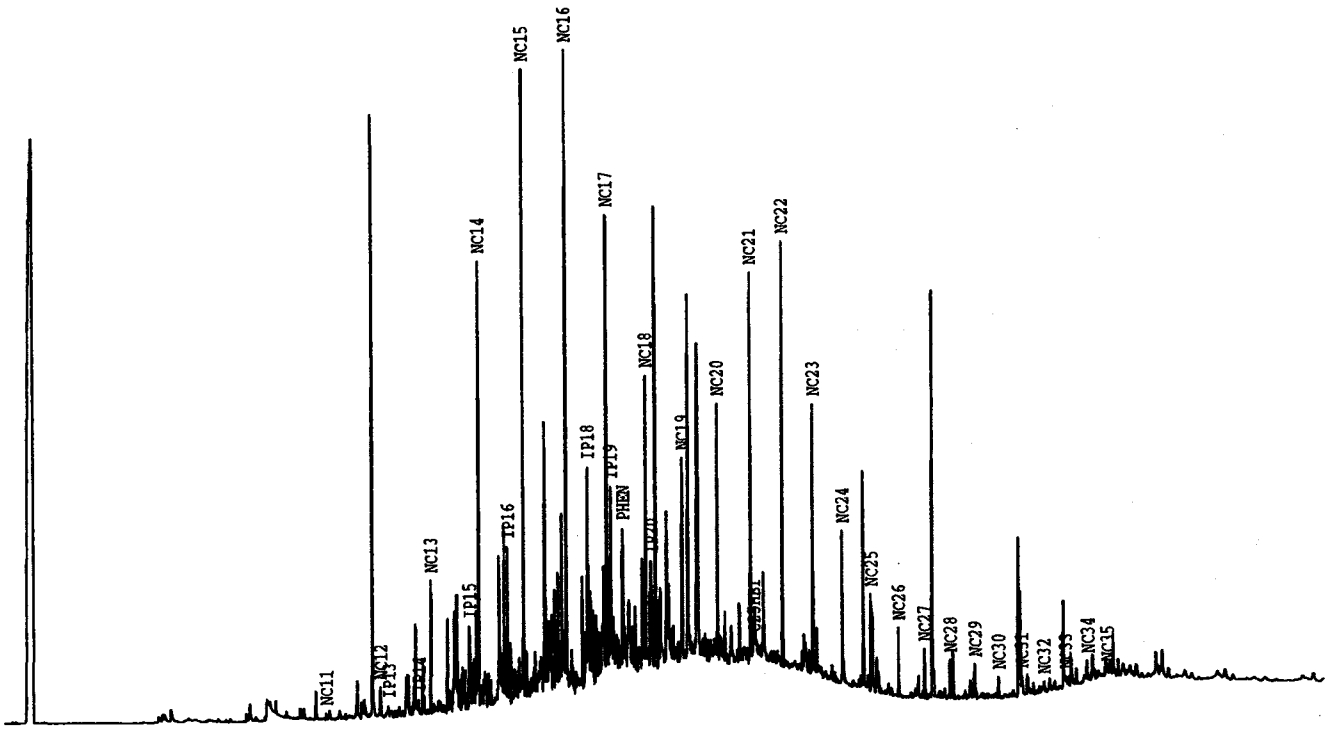
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.750	159380	42796		
IP18	Isoprenoid C18	55.665	84741	15911		
NC17	Normal Alkane C17	57.387	91023	24231		
IP19	Isoprenoid C19 (Pristane)	57.738	70766	13015		
PHEN	Phenanthrene	58.798	38191	8811		
NC18	Normal Alkane C18	60.849	49682	14122		
IP20	Isoprenoid C20 (Phytane)	61.293	37921	6672		
NC19	Normal Alkane C19	64.150	32358	8259		
NC20	Normal Alkane C20	67.293	27815	7302		
NC21	Normal Alkane C21	70.300	19885	5645		
C25HBI	Highly Branch Isoprenoid C25	70.573	4756	1139		
NC22	Normal Alkane C22	73.177	17517	4718		
NC23	Normal Alkane C23	75.939	11710	3155		
NC24	Normal Alkane C24	78.597	10645	1903		
NC25	Normal Alkane C25	81.142	3717	962		
NC26	Normal Alkane C26	83.591	2365	636		
NC27	Normal Alkane C27	85.957	2038	533		
NC28	Normal Alkane C28	88.241	2602	567		
NC29	Normal Alkane C29	90.443	3521	762		
NC30	Normal Alkane C30	92.585	2097	436		
NC31	Normal Alkane C31	94.650	4409	872		
NC32	Normal Alkane C32	96.632	2772	510		
NC33	Normal Alkane C33	98.569	3686	596		
NC34	Normal Alkane C34	100.513	5247	852		
NC35	Normal Alkane C35	102.323	3032	457		
NC36	Normal Alkane C36	104.364	6354	452		
NC37	Normal Alkane C37	106.498	2075	287		
NC38	Normal Alkane C38	109.026	1667	221		
NC39	Normal Alkane C39	111.914	3079	258		
NC40	Normal Alkane C40	115.287	2076	191		
NC41	Normal Alkane C41	119.196	2170	179		

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275207**
Lease:		**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST TESHEKPUK 1**	**Geologic Age:**	
Latitude:	**70.5694**	**Top Depth:**	**9620 FT**
Longitude:	**-152.943**	**Bottom Depth:**	**9640 FT**

Whole Oil GC Trace G1041029.D



WGC parameters	
Pristane/Phytane	1.62
Pristane/$n\,C_{17}$	0.61
Phytane/$n\,C_{18}$	0.62
$n\,C_{18}/n\,C_{19}$	1.25
$n\,C_{17}/n\,C_{29}$	10.84
CPI Marzi[4]	1.12
Normal Paraffins	16.5
Isoprenoids	3.9
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	78.9

Thompson[1]	
A.	BZ/$n\,C_6$
B.	TOL/$n\,C_7$
C.	$(n\,C_6+n\,C_7)/(CH+MCH)$
I.	Isoheptane Value
F.	$n\,C_7$/MCH
U.	CH/MCP
R.	$n\,C_7$/2MH
S.	$n\,C_6$/22DMB
H.	Heptane Value
	MCH/$n\,C_7$
	mpXYL/$n\,C_8$

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**G1041029.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10					
IP11	Isoprenoid C11					
NC11	Normal Alkane C11	31.947	1188	352		
NC12	Normal Alkane C12	36.851	5158	1561		
IP13	Isoprenoid C13	37.594	2713	597		
IP14	Isoprenoid C14	40.346	3075	797		
NC13	Normal Alkane C13	41.447	20318	6681		
IP15	Isoprenoid C15	44.901	15175	4220		
NC14	Normal Alkane C14	45.784	70291	22286		
IP16	Isoprenoid C16	48.434	34380	7938		
NC15	Normal Alkane C15	49.868	115299	31646		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**G1041029.D**

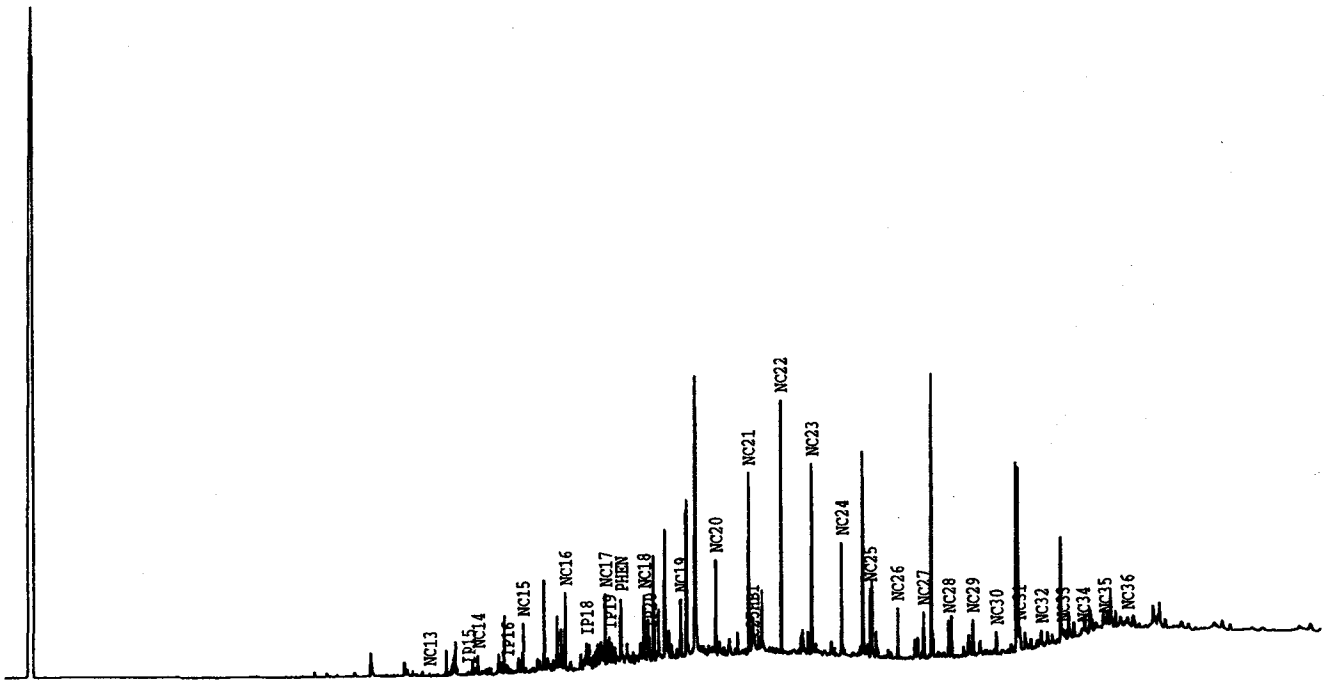
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.725	116897	32221		
IP18	Isoprenoid C18	55.647	57244	11123		
NC17	Normal Alkane C17	57.371	83529	23428		
IP19	Isoprenoid C19 (Pristane)	57.729	50965	9787		
PHEN	Phenanthrene	58.782	33660	7493		
NC18	Normal Alkane C18	60.837	50779	14792		
IP20	Isoprenoid C20 (Phytane)	61.307	31433	5474		
NC19	Normal Alkane C19	64.141	40575	10477		
NC20	Normal Alkane C20	67.293	47522	13096		
NC21	Normal Alkane C21	70.309	70187	19676		
C25HBI	Highly Branch Isoprenoid C25	70.537	8477	1368		
NC22	Normal Alkane C22	73.198	76156	21271		
NC23	Normal Alkane C23	75.950	47743	13585		
NC24	Normal Alkane C24	78.594	29516	7694		
NC25	Normal Alkane C25	81.141	17540	4824		
NC26	Normal Alkane C26	83.591	12271	3460		
NC27	Normal Alkane C27	85.958	9294	2515		
NC28	Normal Alkane C28	88.240	7046	1983		
NC29	Normal Alkane C29	90.444	7704	1773		
NC30	Normal Alkane C30	92.578	4849	1116		
NC31	Normal Alkane C31	94.642	4681	1042		
NC32	Normal Alkane C32	96.635	3156	579		
NC33	Normal Alkane C33	98.570	3742	593		
NC34	Normal Alkane C34	100.517	6063	1119		
NC35	Normal Alkane C35	102.329	3726	508		
NC36	Normal Alkane C36					
NC37	Normal Alkane C37					
NC38	Normal Alkane C38					
NC39	Normal Alkane C39					
NC40	Normal Alkane C40					
NC41	Normal Alkane C41					

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275208**
Lease:		**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST TESHEKPUK 1**	**Geologic Age:**	
Latitude:	**70.5694**	**Top Depth:**	**9660 FT**
Longitude:	**-152.943**	**Bottom Depth:**	**9680 FT**

Whole Oil GC Trace G1041030.D



WGC parameters	
Pristane/Phytane	1.29
Pristane/*n* C_{17}	0.62
Phytane/*n* C_{18}	0.59
n C_{18}/*n* C_{19}	0.99
n C_{17}/*n* C_{29}	1.89
CPI Marzi[4]	1.01
Normal Paraffins	12.2
Isoprenoids	1.2
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	86.0

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_8/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**G1041030.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10					
IP11	Isoprenoid C11					
NC11	Normal Alkane C11					
NC12	Normal Alkane C12					
IP13	Isoprenoid C13					
IP14	Isoprenoid C14					
NC13	Normal Alkane C13	41.442	487	125		
IP15	Isoprenoid C15	44.906	586	158		
NC14	Normal Alkane C14	45.763	2807	820		
IP16	Isoprenoid C16	48.423	2041	406		
NC15	Normal Alkane C15	49.835	7446	2109		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**G1041030.D**

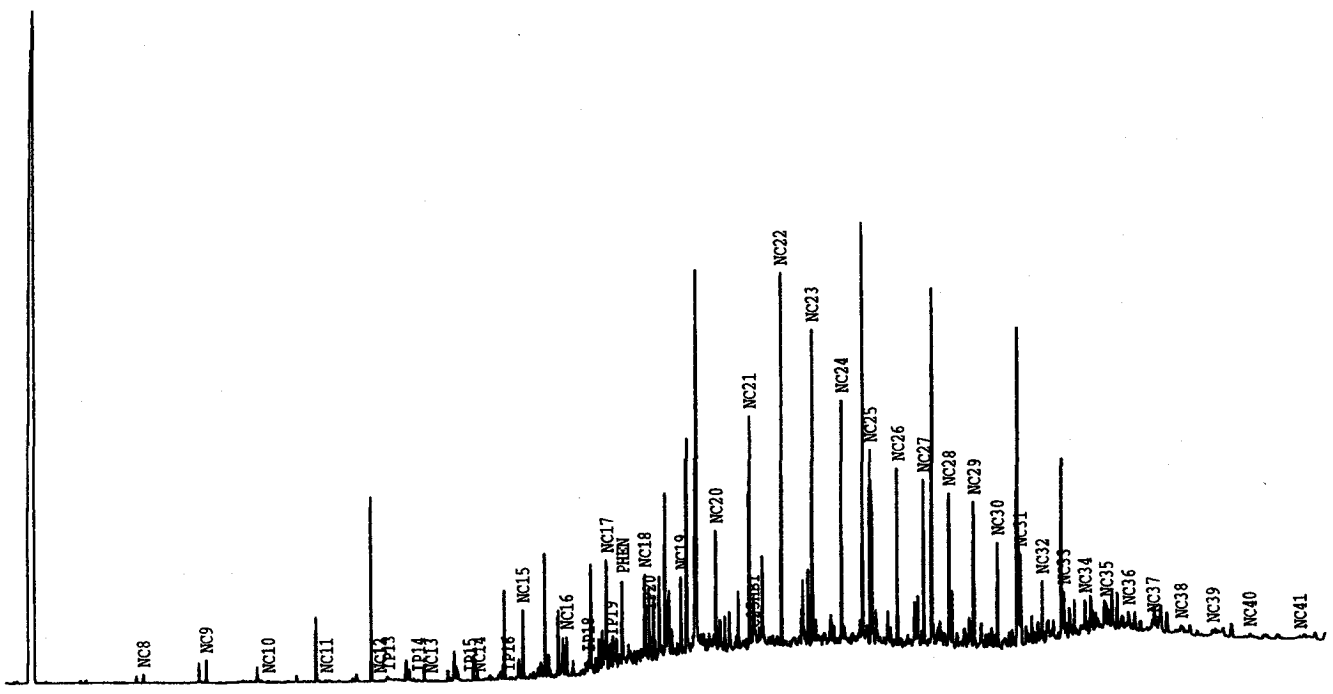
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.689	12064	3302		
IP18	Isoprenoid C18	55.629	6225	1117		
NC17	Normal Alkane C17	57.339	11811	3078		
IP19	Isoprenoid C19 (Pristane)	57.708	7284	1269		
PHEN	Phenanthrene	58.740	12552	2770		
NC18	Normal Alkane C18	60.815	9629	2795		
IP20	Isoprenoid C20 (Phytane)	61.269	5638	1100		
NC19	Normal Alkane C19	64.117	9762	2512		
NC20	Normal Alkane C20	67.267	14517	4085		
NC21	Normal Alkane C21	70.284	26698	7688		
C25HBI	Highly Branch Isoprenoid C25	70.545	1643	432		
NC22	Normal Alkane C22	73.170	37271	10692		
NC23	Normal Alkane C23	75.932	28249	8041		
NC24	Normal Alkane C24	78.580	20152	4770		
NC25	Normal Alkane C25	81.129	10282	2905		
NC26	Normal Alkane C26	83.582	7956	2148		
NC27	Normal Alkane C27	85.950	6981	1959		
NC28	Normal Alkane C28	88.233	6025	1581		
NC29	Normal Alkane C29	90.435	6238	1526		
NC30	Normal Alkane C30	92.571	4164	966		
NC31	Normal Alkane C31	94.642	5225	1032		
NC32	Normal Alkane C32	96.613	4375	694		
NC33	Normal Alkane C33	98.572	3094	545		
NC34	Normal Alkane C34	100.376	1102	272		
NC35	Normal Alkane C35	102.322	2679	393		
NC36	Normal Alkane C36	104.369	4002	453		
NC37	Normal Alkane C37					
NC38	Normal Alkane C38					
NC39	Normal Alkane C39					
NC40	Normal Alkane C40					
NC41	Normal Alkane C41					

BASELINE DGSI ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135730**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275209**
Lease:		**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST TESHEKPUK 1**	**Geologic Age:**	
Latitude:	**70.5694**	**Top Depth:**	**9700 FT**
Longitude:	**-152.943**	**Bottom Depth:**	**9730 FT**

Whole Oil GC Trace G1041034.D



WGC parameters	
Pristane/Phytane	1.22
Pristane/*n* C_{17}	0.34
Phytane/*n* C_{18}	0.43
n C_{18}/*n* C_{19}	0.89
n C_{17}/*n* C_{29}	0.83
CPI Marzi[4]	1.00
Normal Paraffins	16.1
Isoprenoids	0.6
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	82.7

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135730**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9700 - 9730 FT**	**Lab ID:**	**CP275209**
Sampling Point:		**File Name:**	**G1041034.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8	15.418	1132	397		
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9	21.123	2928	1048		
IP10	Isoprenoid C10					
NC10	Normal Alkane C10	26.696	278	93		
IP11	Isoprenoid C11					
NC11	Normal Alkane C11	31.935	321	82		
NC12	Normal Alkane C12	36.842	290	56		
IP13	Isoprenoid C13	37.608	809	154		
IP14	Isoprenoid C14	40.278	481	96		
NC13	Normal Alkane C13	41.438	247	60		
IP15	Isoprenoid C15	44.902	114	24		
NC14	Normal Alkane C14	45.756	403	82		
IP16	Isoprenoid C16	48.424	211	51		
NC15	Normal Alkane C15	49.782	11824	3274		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135730**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9700 - 9730 FT**	**Lab ID:**	**CP275209**
Sampling Point:		**File Name:**	**G1041034.D**

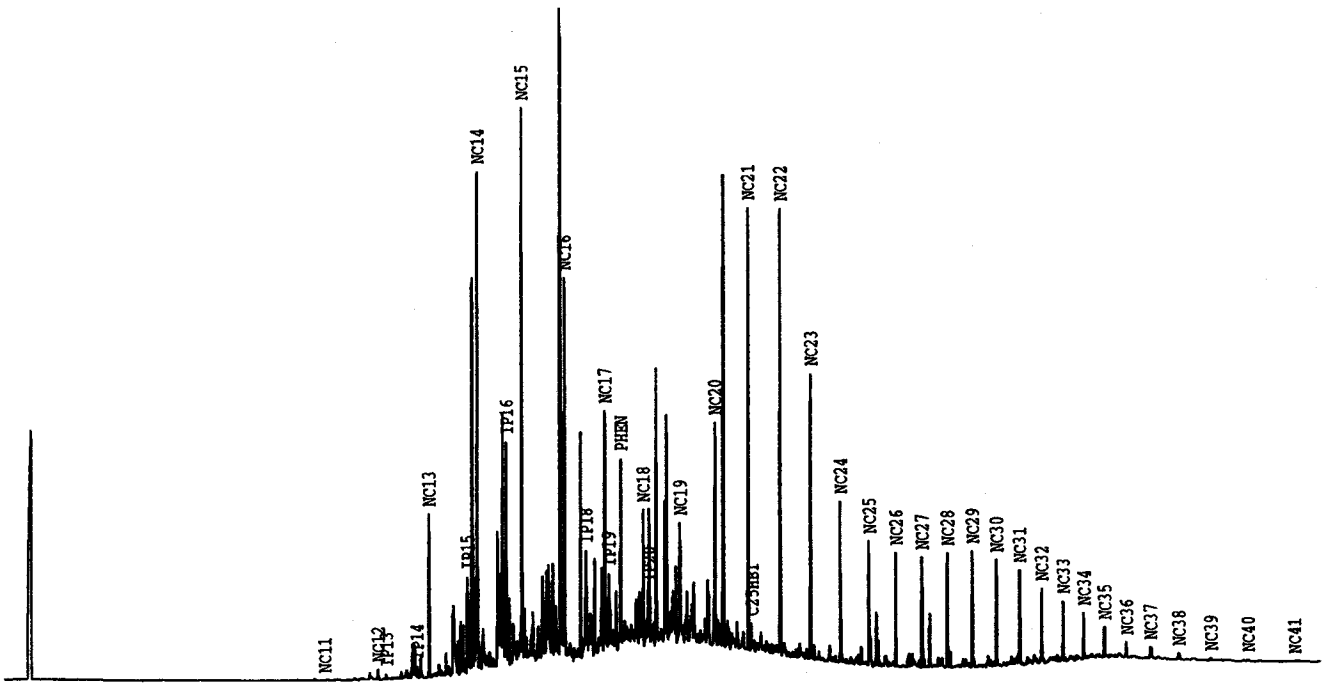
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.681	6545	1891		
IP18	Isoprenoid C18	55.626	3424	688		
NC17	Normal Alkane C17	57.327	22648	5212		
IP19	Isoprenoid C19 (Pristane)	57.700	7791	1256		
PHEN	Phenanthrene	58.760	19082	4062		
NC18	Normal Alkane C18	60.804	14751	4156		
IP20	Isoprenoid C20 (Phytane)	61.256	6370	1411		
NC19	Normal Alkane C19	64.114	16528	3791		
NC20	Normal Alkane C20	67.265	21433	5778		
NC21	Normal Alkane C21	70.284	38764	11004		
C25HBI	Highly Branch Isoprenoid C25	70.537	3103	713		
NC22	Normal Alkane C22	73.175	61605	17629		
NC23	Normal Alkane C23	75.939	53184	14932		
NC24	Normal Alkane C24	78.586	46249	11480		
NC25	Normal Alkane C25	81.134	33254	9242		
NC26	Normal Alkane C26	83.588	30983	8415		
NC27	Normal Alkane C27	85.957	31793	7930		
NC28	Normal Alkane C28	88.237	27884	7236		
NC29	Normal Alkane C29	90.440	27254	6918		
NC30	Normal Alkane C30	92.575	20129	5040		
NC31	Normal Alkane C31	94.637	20598	4382		
NC32	Normal Alkane C32	96.635	14772	2995		
NC33	Normal Alkane C33	98.575	10824	2270		
NC34	Normal Alkane C34	100.463	10458	1640		
NC35	Normal Alkane C35	102.307	7450	1279		
NC36	Normal Alkane C36	104.283	7168	857		
NC37	Normal Alkane C37	106.484	4249	602		
NC38	Normal Alkane C38	109.006	3453	421		
NC39	Normal Alkane C39	111.897	3297	348		
NC40	Normal Alkane C40	115.253	2184	232		
NC41	Normal Alkane C41	119.181	1923	169		

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135731**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275210**
Lease:	**PEARD #1**	**Sample Type:**	**CORE**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**PEARD #1**	**Geologic Age:**	
Latitude:	**70.7156**	**Top Depth:**	**9494.4 FT**
Longitude:	**-159.001**	**Bottom Depth:**	**FT**

Whole Oil GC Trace G1041040.D



WGC parameters	
Pristane/Phytane	1.54
Pristane/*n* C_{17}	0.49
Phytane/*n* C_{18}	0.55
n C_{18}/*n* C_{19}	1.06
n C_{17}/*n* C_{29}	1.88
CPI Marzi[4]	1.13
Normal Paraffins	25.8
Isoprenoids	4.1
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	69.0

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135731**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9494.4 - FT**	**Lab ID:**	**CP275210**
Sampling Point:		**File Name:**	**G1041040.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9					
IP10	Isoprenoid C10					
NC10	Normal Alkane C10					
IP11	Isoprenoid C11					
NC11	Normal Alkane C11	31.940	133	36		
NC12	Normal Alkane C12	36.843	3728	1183		
IP13	Isoprenoid C13	37.586	1937	533		
IP14	Isoprenoid C14	40.338	4306	1294		
NC13	Normal Alkane C13	41.447	54788	17700		
IP15	Isoprenoid C15	44.898	37960	10448		
NC14	Normal Alkane C14	45.803	188487	54029		
IP16	Isoprenoid C16	48.443	103084	24315		
NC15	Normal Alkane C15	49.886	235326	60328		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135731**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9494.4 - FT**	**Lab ID:**	**CP275210**
Sampling Point:		**File Name:**	**G1041040.D**

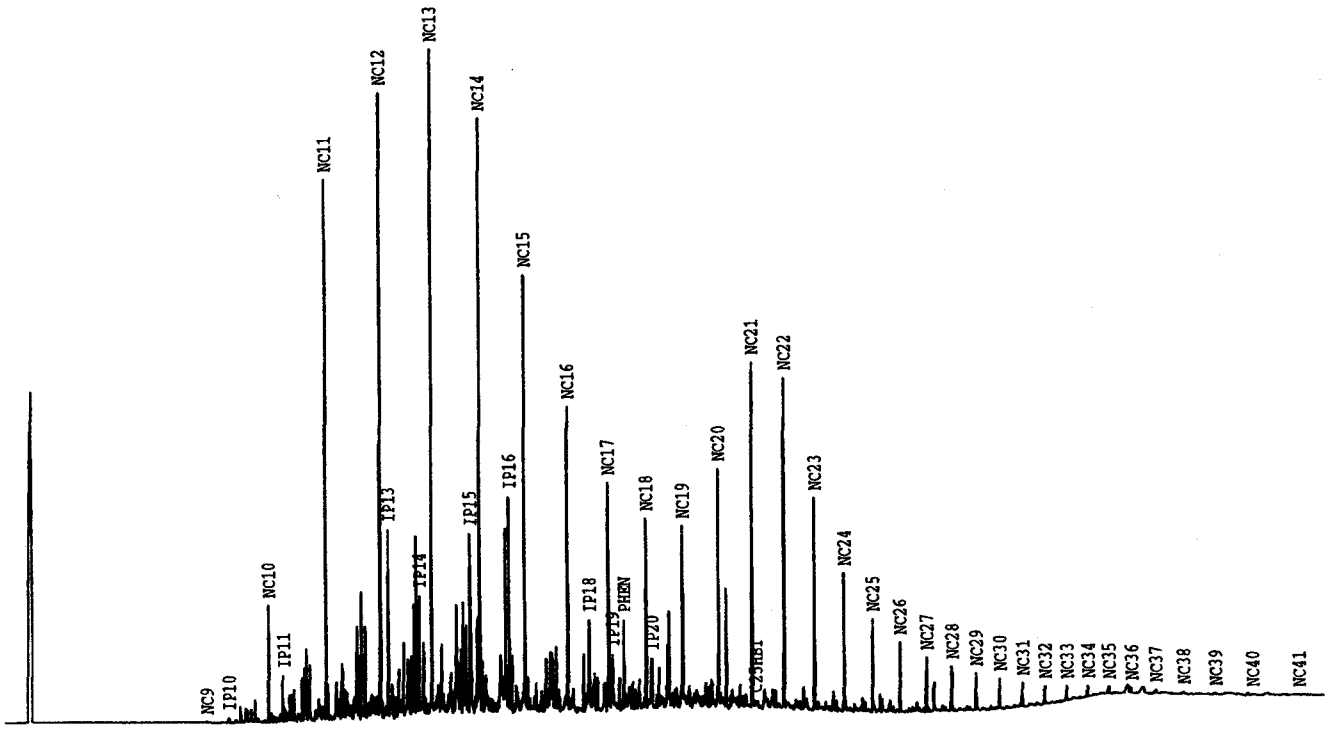
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.736	151868	41568		
IP18	Isoprenoid C18	55.646	68532	11769		
NC17	Normal Alkane C17	57.369	92112	26429		
IP19	Isoprenoid C19 (Pristane)	57.720	45108	8774		
PHEN	Phenanthrene	58.802	75742	20935		
NC18	Normal Alkane C18	60.840	53580	15028		
IP20	Isoprenoid C20 (Phytane)	61.307	29332	6314		
NC19	Normal Alkane C19	64.139	50633	13574		
NC20	Normal Alkane C20	67.304	91587	24544		
NC21	Normal Alkane C21	70.330	183495	48040		
C25HBI	Highly Branch Isoprenoid C25	70.589	14402	3199		
NC22	Normal Alkane C22	73.216	191453	48333		
NC23	Normal Alkane C23	75.956	109325	30903		
NC24	Normal Alkane C24	78.594	63180	17544		
NC25	Normal Alkane C25	81.138	48793	13670		
NC26	Normal Alkane C26	83.589	45360	12457		
NC27	Normal Alkane C27	85.954	45921	12019		
NC28	Normal Alkane C28	88.242	45229	12478		
NC29	Normal Alkane C29	90.447	49003	12626		
NC30	Normal Alkane C30	92.577	43732	11619		
NC31	Normal Alkane C31	94.643	40204	10325		
NC32	Normal Alkane C32	96.639	31487	8095		
NC33	Normal Alkane C33	98.580	28638	6616		
NC34	Normal Alkane C34	100.464	20500	5137		
NC35	Normal Alkane C35	102.305	15180	3383		
NC36	Normal Alkane C36	104.274	9850	1789		
NC37	Normal Alkane C37	106.475	8072	1277		
NC38	Normal Alkane C38	109.003	5064	737		
NC39	Normal Alkane C39	111.902	2585	333		
NC40	Normal Alkane C40	115.255	2398	246		
NC41	Normal Alkane C41	119.166	1863	125		

BASELINE DGSI
ANALYTICAL LABORATORIES

WHOLE OIL GC

Company:	CONOCOPHILLIPS	**Client ID:**	US135732
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275211
Lease:	PEARD #1	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	PEARD #1	**Geologic Age:**	
Latitude:	70.7156	**Top Depth:**	9507.2 FT
Longitude:	-159.001	**Bottom Depth:**	FT

Whole Oil GC Trace G1041039.D



WGC parameters	
Pristane/Phytane	1.15
Pristane/*n* C_{17}	0.39
Phytane/*n* C_{18}	0.40
n C_{18}/*n* C_{19}	0.99
n C_{17}/*n* C_{29}	5.08
CPI Marzi[4]	1.10
Normal Paraffins	30.8
Isoprenoids	6.0
Cycloparaffins	
Branched (iso-) Paraffins	
BTX aromatics	
Resolved unknowns	62.8

Thompson[1]	
A.	BZ/*n* C_6
B.	TOL/*n* C_7
C.	(*n* C_6+*n* C_7)/(CH+MCH)
I.	Isoheptane Value
F.	*n* C_7/MCH
U.	CH/MCP
R.	*n* C_7/2MH
S.	*n* C_6/22DMB
H.	Heptane Value
	MCH/*n* C_7
	mpXYL/*n* C_8

Mango[2]
P_1
P_2
P_3
$5N_1$
N_2
$6N_1$
K_1
K_2
$5N_1/6N_1$
P_3/N_2
ln(24DMP/23DMP)

Halpern[3]
Tr_1
Tr_2
Tr_3
Tr_4
Tr_5
Tr_7
Tr_8
C_1
C_2
C_3
C_4
C_5

[1]Thompson, K.F.M.,1983.GCA:V.47, p.303. [2]Mango, F.D.,1994.GCA: V.58, p.895. [3]Halpern,H.I.,1995,AAPG Bull.: V.79, p.801. [4]Marzi,1993,OrgG;20,1301.

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**G1041039.D**

Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
IC4	Iso-alkane C4					
NC4	Normal Alkane C4					
IC5	Iso-alkane C5					
NC5	Normal Alkane C5					
22DMB	2,2-Dimethylbutane					
CP	Cyclopentane					
23DMB	2,3-Dimethylbutane					
2MP	2-Methylpentane					
3MP	3-Methylpentane					
NC6	Normal Alkane C6					
22DMP	2,2-Dimethylpentane					
MCP	Methylcyclopentane					
24DMP	2,4-Dimethylpentane					
223TMB	2,2,3-Trimethylbutane					
BZ	Benzene					
33DMP	3,3-Dimethylpentane					
CH	Cyclohexane					
2MH	2-Methylhexane					
23DMP	2,3-Dimethylpentane					
11DMCP	1,1-Dimethylcyclopentane					
3MH	3-Methylhexane					
1C3DMCP	1-cis-3-Dimethylcyclopentane					
1T3DMCP	1-trans-3-Dimethylcyclopentane					
3EP	3-Ethylpentane					
1T2DMCP	1-trans-2-Dimethylcyclopentane					
NC7	Normal Alkane C7					
ISTD	Internal Standard					
MCH	Methylcyclohexane					
113TMCP	1,1,3,-Trimethylcyclopentane					
ECP	Ethylcyclopentane					
124TMCP	1,2,4-Trimethylcyclopentane					
123TMCP	1,2,3-Trimethylcyclopentane					
TOL	Toluene					
NC8	Normal Alkane C8					
IP9	Isoprenoid C9					
MXYL	m-Xylene					
PXYL	p-Xylene					
OXYL	o-Xylene					
NC9	Normal Alkane C9	21.125	260	77		
IP10	Isoprenoid C10	23.099	1089	374		
NC10	Normal Alkane C10	26.699	26983	9563		
IP11	Isoprenoid C11	27.997	10616	3782		
NC11	Normal Alkane C11	31.967	137019	44294		
NC12	Normal Alkane C12	36.882	165652	51357		
IP13	Isoprenoid C13	37.603	50625	15452		
IP14	Isoprenoid C14	40.350	30016	9853		
NC13	Normal Alkane C13	41.480	185777	54399		
IP15	Isoprenoid C15	44.899	50733	14730		
NC14	Normal Alkane C14	45.799	164337	48691		
IP16	Isoprenoid C16	48.439	71737	17792		
NC15	Normal Alkane C15	49.865	129105	35974		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**G1041039.D**

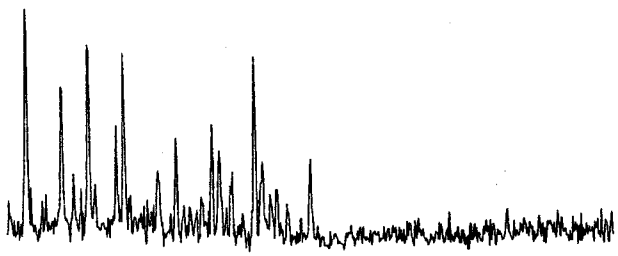
Peak Label	Compound Name	Ret. Time	Area	Height	ppt (Area)	ppt (Hght)
NC16	Normal Alkane C16	53.710	85257	25132		
IP18	Isoprenoid C18	55.637	39450	7599		
NC17	Normal Alkane C17	57.357	62651	18766		
IP19	Isoprenoid C19 (Pristane)	57.710	24273	4691		
PHEN	Phenanthrene	58.769	24581	7442		
NC18	Normal Alkane C18	60.825	52072	15619		
IP20	Isoprenoid C20 (Phytane)	61.281	21039	4148		
NC19	Normal Alkane C19	64.128	52807	14989		
NC20	Normal Alkane C20	67.285	72227	19701		
NC21	Normal Alkane C21	70.306	102725	28459		
C25HBI	Highly Branch Isoprenoid C25	70.563	4906	819		
NC22	Normal Alkane C22	73.187	98547	27180		
NC23	Normal Alkane C23	75.939	62667	17457		
NC24	Normal Alkane C24	78.587	39368	11368		
NC25	Normal Alkane C25	81.133	27128	7659		
NC26	Normal Alkane C26	83.581	20932	5798		
NC27	Normal Alkane C27	85.949	16695	4477		
NC28	Normal Alkane C28	88.228	13773	3683		
NC29	Normal Alkane C29	90.436	12327	3076		
NC30	Normal Alkane C30	92.571	10288	2532		
NC31	Normal Alkane C31	94.633	7870	1984		
NC32	Normal Alkane C32	96.633	5858	1541		
NC33	Normal Alkane C33	98.572	5256	1239		
NC34	Normal Alkane C34	100.456	3712	927		
NC35	Normal Alkane C35	102.297	3623	683		
NC36	Normal Alkane C36	104.271	2829	498		
NC37	Normal Alkane C37	106.485	2372	356		
NC38	Normal Alkane C38	109.001	1611	238		
NC39	Normal Alkane C39	111.888	1263	152		
NC40	Normal Alkane C40	115.249	1121	116		
NC41	Normal Alkane C41	119.154	736	68		

BASELINE DGSI ANALYTICAL LABORATORIES

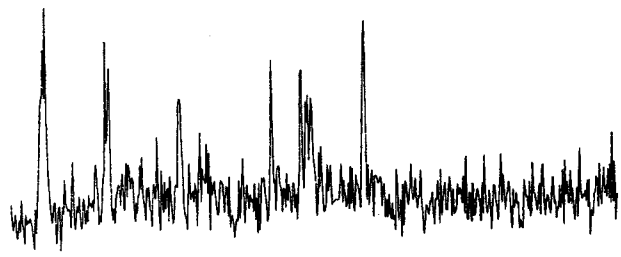
SATURATE GCMSMS

Company:	**CONOCOPHILLIPS**	**Project #:**	**04-501-A**	
Country:	**UNITED STATES**	**Lab ID:**	**CP275205**	
Basin:		**Client ID:**	**US135726**	
Lease:	**IKPIKPUK #1**	**Sample Type:**	**CUTTINGS**	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	**IKPIKPUK #1**	**Geologic Age:**		
Latitude:	**69.8267**	**Top Depth:**	**11320**	**FT**
Longitude:	**-155.899**	**Bottom Depth:**	**11340**	**FT**

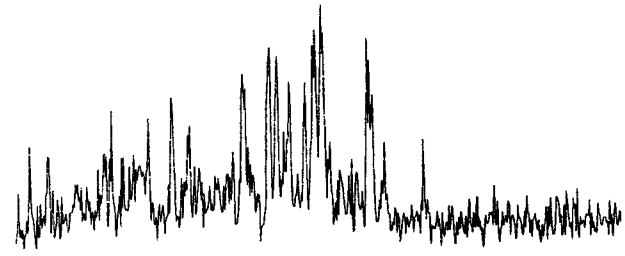
358->217: C26 Steranes MS040406.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	37.1	D	
%28 Steranes	27.3	D	
%29 Steranes	35.6	D	
%27 Diasteranes	43.3	D	
%28 Diasteranes	30.8	D	
%29 Diasteranes	25.9	D	
C30 Sterane Index	0.03	D	
C30 iso/n-propyl sterane Index		A	
C27 αββ/(ααα+αββ)	0.29	M	
C28 αββ/(ααα+αββ)	0.38	M	
C29 αββ/(ααα+αββ)	0.24	M	
C30 αββ/(ααα+αββ)	0.42	M	
C27 S/(S+R)	0.41	M	
C28 S/(S+R)	0.25	M	
C29 S/(S+R)	0.24	M	
C30 S/(S+R)	0.39	M	
Diasteranes/Steranes	0.88		
24-Nordiacholestane ratio (NDR)	0.48	A	
24-Norcholestane ratio (NCR)	0.64	A	
21-Norcholestane ratio	0.14	D/M	
Dinosterane ratio	0.53	A	
4-Methyl sterane ratio	0.05	A	
Terpane Ratios			
Oleanane Index (%)	11.2	A	
DesA Oleanane Index (%)	47.9	A	
Gammacerane Index (%)	4.6	D	
Bicadinane Index (%)		A/D	
DiaHopane Index (%)	6.0	D	
TPP	0.12	D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Lab ID:**	**CP275205**
Top Depth:	**11320 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**11340 FT**	**File Name:**	**MS040406.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3–>217.2: Internal Standard					
ISTD	5β-Cholane				
358.3–>217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.596	171460		
D26N24baR	13β,17α,24-nordiacholestane 20R	49.659	116676		
D26N27baS	13β,17α,27-nordiacholestane 20S	50.483	160272		
D26N24abS	13α,17β,24-nordiacholestane 20S	50.696	50412		
D26N24abR	13α,17β,24-nordiacholestane 20R	51.334	71886		
D26N27baR	13β,17α,27-nordiacholestane 20R	51.547	147976		
D26N27abS	13α,17β,27-nordiacholestane 20S	52.583	81761		
D26N27abR	13α,17β,27-nordiacholestane 20R	53.115	73434		
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.178	85037		
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.391	90366		
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.790	56473		
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.454	125715		
S26N21	21-norcholestane	55.694	90591		
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.800	125715		
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	55.906	42296		
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.092	47343		
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.411	36972		
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.129	71182		
372.3–>217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.583	1838091		
D27baR	13β,17α-diacholestane 20R	53.913	1163688		
D27abS	13α,17β-diacholestane 20S	54.870	451248		
D27abR	13α,17β-diacholestane 20R	55.534	554058		
S27aaaS	5α,14α,17α-cholestane 20S	58.246	843414		
S27abbR	5α,14β,17β-cholestane 20R	58.485	408414		
S27abbS	5α,14β,17β-cholestane 20S	58.804	428045		
S27aaaR	5α,14α,17α-cholestane 20R	59.575	1230067		
386.4–>217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.694	632272		
D28baSB	13β,17α-diaergostane 20S (24S)	55.906	644625		
D28baRA	13β,17α-diaergostane 20R (24R)	57.156	401031		
D28baRB	13β,17α-diaergostane 20R (24R)	57.289	456877		
D28abS	13α,17β-diaergostane 20S	58.060	326324		
D28abRA	13α,17β-diaergostane 20R	58.937	240955		
D28abRB	13α,17β-diaergostane 20R	59.043	139714		
C28UNK9	C28 Unknown 9	59.814	276048		
S28aaaSA	5α,14α,17α-ergostane 20S	61.489	162449		
S28aaaSB	5α,14α,17α-ergostane 20S	61.622	166435		
S28abbR	5β,14α,17α-ergostane 20R	61.994	477963		
S28baaR	5α,14β,17β-ergostane 20R	61.887	146512		
S28abbS	5α,14β,17β-ergostane 20S	62.286	333357		
S28N21	21-norstigmastane	62.738	84635		
S28aaaR	5α,14α,17α-ergostane 20R	63.217	996515		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Lab ID:**	**CP275205**
Top Depth:	**11320 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**11340 FT**	**File Name:**	**MS040406.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>217.2: C29 Desmethylsteranes					
D29baS	13β,17α-diastigmastane 20S	58.511	984319		
D29baR	13β,17α-diastigmastane 20R	60.053	810617		
D29abS	13α,17β-diastigmastane 20S	60.718	257680		
D29abR	13α,17β-diastigmastane 20R	61.887	342651		
C29UNK5	C29 Unknown 5	62.632	353133		
S29aaaS	5α,14α,17α-stigmastane 20S	64.280	499275		
S29abbR	5α,14β,17β-stigmastane 20R	64.865	432123		
S29baaR	5β,14α,17α-stigmastane 20R	65.051	552833		
S29abbS	5α,14β,17β-stigmastane 20S	65.104	249514		
S29aaaR	5α,14α,17α-stigmastane 20R	66.300	1612325		
414.4–>217.2: C30 Desmethylsteranes					
D30nPbaSA	13β,17α-dia-24-n-propylcholestane 20S	60.824	94036		
D30nPbaSB	13β,17α-dia-24-n-propylcholestane 20S	60.877	59136		
D30nPbaR	13β,17α-dia-24-n-propylcholestane 20R	62.393	88897		
C30UNK4	13α,17β-dia-24-n-propylcholestane 20S				
C30UNK5	13α,17β-dia-24-n-propylcholestane 20S				
D30nPabS	13α,17β-dia-24-n-propylcholestane 20R				
DC30UNK7	dia-C30 Unknown 7				
DC30UNK8	dia-C30 Unknown 8				
DC30UNK8A	dia-C30 Unknown 8A				
S30nPaaaS	5α,14α,17α-24-n-propylcholestane 20S	66.539	53775		
C30UNK10	C30 Unknown 10	66.726	29406		
S30iPaaaS	5α,14α,17α-24-iso-propylcholestane 20S				
S30nPabbR	5α,14β,17β-24-n-propylcholestane 20R	67.284	50764		
S30nPabbS	5α,14β,17β-24-n-propylcholestane 20S	67.443	48947		
C30UNK13	5β,14α,17α-24-n-propylcholestane 20R				
S30iPabbR	5α,14β,17β-24-iso-propylcholestane 20R				
S30nPaaaR	5α,14α,17α-24-n-propylcholestane 20R	68.826	83631		
C30UNK14	C30 Unknown 14				
S30iPaaaR	5α,14α,17α-24-iso-propylcholestane 20R				
C30UNK16	C30 Unknown 16				
386.4–>231.2: C28 Methylsteranes					
D283MbaS	3β-Methyl-13β,17α-diacholestane 20S	54.099	65953		
DC28UNK16	dia-C28 Unknown 16				
D283MbaR	3β-Methyl-13β,17α-diacholestane 20R	55.481	60439		
DC28UNK3	dia-C28 Unknown 3				
DC28UNK17	dia-C28 Unknown 17				
D284MbaS	4α-Methyl-13β,17α-diacholestane 20S	56.677	115472		
D284MbaR	4α-Methyl-13β,17α-diacholestane 20R	57.980	49507		
S283MaaaS	3β-Methyl-5α,14α,17α-cholestane 20S	59.734	58501		
S283MabbR	3β-Methyl-5α,14β,17β-cholestane 20R	60.080	72427		
S283MabbS	3β-Methyl-5α,14β,17β-cholestane 20S	60.346	67280		
S284MaaaS	4α-Methyl-5α,14α,17α-cholestane 20S	60.877	71716		
S284MabbR	4α-Methyl-5α,14β,17β-cholestane 20R	61.037	84444		
S283MaaaR	3β-Methyl-5α,14α,17α-cholestane 20R	61.090	70137		
S284MabbS	4α-Methyl-5α,14β,17β-cholestane 20S	61.329	62864		
S284MaaaR	4α-Methyl-5α,14α,17α-cholestane 20R	62.260	89428		
XS28aaaR	5α,14α,17α-ergostane 20R	63.243	45887		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Lab ID:**	**CP275205**
Top Depth:	**11320 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**11340 FT**	**File Name:**	**MS040406.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4->231.2: C29 Methylsteranes					
D293MbaSA	3β-Methyl-13β,17α-diaergostane 20S				
D293MbaSB	3β-Methyl-13β,17α-diaergostane 20S				
DC29UNK27	dia-C29 Unknown 27				
DC29UNK28	dia-C29 Unknown 28				
D293MbaRA	3β-Methyl-13β,17α-diaergostane 20R				
D293MbaRB	3β-Methyl-13β,17α-diaergostane 20R				
D294MbaSA	4α-Methyl-13β,17α-diaergostane 20S				
D294MbaSB	4α-Methyl-13β,17α-diaergostane 20S				
D294MbaRA	4α-Methyl-13β,17α-diaergostane 20R				
D294MbaRB	4α-Methyl-13β,17α-diaergostane 20R				
D294MabS	4α-Methyl-13α,17β-diaergostane 20S				
D294MabRA	4α-Methyl-13α,17β-diaergostane 20R				
S293MaaaSA_4abRB	3β-Methyl-5α,14α,17α-ergostane 20S + 4a-methyl-13a,17b-diaergostane 20R	63.004	53129		
S293MaaaSB	3β-Methyl-5α,14α,17α-ergostane 20S	63.163	18870		
S293MabbR	3β-Methyl-5α,14β,17β-ergostane 20R	63.562	58667		
S293MabbS	3β-Methyl-5α,14β,17β-ergostane 20S	63.828	68942		
S294MaaaSA	4α-Methyl-5α,14α,17α-ergostane 20S	64.094	30256		
S294MaaaSB	4α-Methyl-5α,14α,17α-ergostane 20S	64.280	59666		
S294MabbR	4α-Methyl-5α,14β,17β-ergostane 20R	64.466	88125		
S294MabbS_3MaaaR	4α-Methyl-5α,14β,17β-ergostane 20S + 3b-Methyl-5a,14a,17a-ergostane 20R	64.758	137499		
S294MaaaR	4α-Methyl-5α,14α,17α-ergostane 20R	65.822	144171		
XS29aaaR	5α,14α,17α-stigmastane 20R	66.274	82363		
414.4->231.2: C30 Methylsteranes					
S302MaaaS	2α-Methyl-5α,14α,17α-stigmastane 20S				
S303MaaaS	3β-Methyl-5α,14α,17α-stigmastane 20S + (coelution)	65.715	85028		
S302MabbR	2α-Methyl-5α,14β,17β-stigmastane 20S + (coelution)				
S302MabbS	2α-Methyl-5α,14β,17β-stigmastane 20S				
S303MabbR	3β-Methyl-5α,14β,17β-stigmastane 20R	66.407	83825		
BBDINO	ββ-dino (?)				
S303MabbS	3b-Methyl-5a,14b,17b-stigmastane 20S + (coelution)	66.593	80867		
S304MaaaS	4α-Methyl-5α,14α,17α-stigmastane 20S	66.885	63612		
S304MabbR	4α-Methyl-5α,14β,17β-stigmastane 20R	67.284	53613		
S304MabbS_2MaaaR	4α-Methyl-5α,14β,17β-stigmastane 20S + 2α-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.523	120768		
S303MaaaR	3β-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.683	123852		
DS4aSS20R	4α,23S,24S-trimethyl-20R-cholestane	68.134	34007		
DS4aSR20R	4α,23S,24R-trimethyl-20R-cholestane	68.533	24511		
S304MaaaR	4α-Methyl-5α,14α,17α-stigmastane 20R	68.799	82737		
DS4aRR20R	4α,23R,24R-trimethyl-20R-cholestane	68.932	41967		
DS4aRS20R	4α,23R,24S-trimethyl-20R-cholestane	69.224	41080		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Lab ID:**	**CP275206**
Top Depth:	**13690 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**13710 FT**	**File Name:**	**MS040407.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>217.2: C29 Desmethylsteranes					
D29baS	13β,17α-diastigmastane 20S	58.538	560668		
D29baR	13β,17α-diastigmastane 20R	60.000	475938		
D29abS	13α,17β-diastigmastane 20S	60.665	143153		
D29abR	13α,17β-diastigmastane 20R	61.861	213858		
C29UNK5	C29 Unknown 5	62.605	360253		
S29aaaS	5α,14α,17α-stigmastane 20S	64.307	872039		
S29abbR	5α,14β,17β-stigmastane 20R	64.891	383653		
S29baaR	5β,14α,17α-stigmastane 20R	64.971	270053		
S29abbS	5α,14β,17β-stigmastane 20S	65.024	809939		
S29aaaR	5α,14α,17α-stigmastane 20R	66.274	3664889		
414.4–>217.2: C30 Desmethylsteranes					
D30nPbaSA	13β,17α-dia-24-n-propylcholestane 20S	60.771	35777		
D30nPbaSB	13β,17α-dia-24-n-propylcholestane 20S	60.877	45121		
D30nPbaR	13β,17α-dia-24-n-propylcholestane 20R	62.419	60596		
C30UNK4	13α,17β-dia-24-n-propylcholestane 20S				
C30UNK5	13α,17β-dia-24-n-propylcholestane 20S				
D30nPabS	13α,17β-dia-24-n-propylcholestane 20R				
DC30UNK7	dia-C30 Unknown 7	64.732	33216		
DC30UNK8	dia-C30 Unknown 8				
DC30UNK8A	dia-C30 Unknown 8A				
S30nPaaaS	5α,14α,17α-24-n-propylcholestane 20S	66.513	45464		
C30UNK10	C30 Unknown 10				
S30iPaaaS	5α,14α,17α-24-iso-propylcholestane 20S				
S30nPabbR	5α,14β,17β-24-n-propylcholestane 20R	67.257	52771		
S30nPabbS	5α,14β,17β-24-n-propylcholestane 20S	67.443	45906		
C30UNK13	5β,14α,17α-24-n-propylcholestane 20R				
S30iPabbR	5α,14β,17β-24-iso-propylcholestane 20R				
S30nPaaaR	5α,14α,17α-24-n-propylcholestane 20R	68.826	94898		
C30UNK14	C30 Unknown 14				
S30iPaaaR	5α,14α,17α-24-iso-propylcholestane 20R				
C30UNK16	C30 Unknown 16				
386.4–>231.2: C28 Methylsteranes					
D283MbaS	3β-Methyl-13β,17α-diacholestane 20S	54.099	33615		
DC28UNK16	dia-C28 Unknown 16				
D283MbaR	3β-Methyl-13β,17α-diacholestane 20R	55.481	26421		
DC28UNK3	dia-C28 Unknown 3				
DC28UNK17	dia-C28 Unknown 17				
D284MbaS	4α-Methyl-13β,17α-diacholestane 20S	56.677	75387		
D284MbaR	4α-Methyl-13β,17α-diacholestane 20R	57.927	38829		
S283MaaaS	3β-Methyl-5α,14α,17α-cholestane 20S	59.708	47386		
S283MabbR	3β-Methyl-5α,14β,17β-cholestane 20R	60.080	47898		
S283MabbS	3β-Methyl-5α,14β,17β-cholestane 20S	60.372	63385		
S284MaaaS	4α-Methyl-5α,14α,17α-cholestane 20S	60.904	61207		
S284MabbR	4α-Methyl-5α,14β,17β-cholestane 20R	61.010	52046		
S283MaaaR	3β-Methyl-5α,14α,17α-cholestane 20R	61.117	66267		
S284MabbS	4α-Methyl-5α,14β,17β-cholestane 20S	61.329	43600		
S284MaaaR	4α-Methyl-5α,14α,17α-cholestane 20R	62.233	85936		
XS28aaaR	5α,14α,17α-ergostane 20R	63.217	106058		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Lab ID:**	**CP275206**
Top Depth:	**13690 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**13710 FT**	**File Name:**	**MS040407.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>231.2: C29 Methylsteranes					
D293MbaSA	3β-Methyl-13β,17α-diaergostane 20S				
D293MbaSB	3β-Methyl-13β,17α-diaergostane 20S				
DC29UNK27	dia-C29 Unknown 27				
DC29UNK28	dia-C29 Unknown 28				
D293MbaRA	3β-Methyl-13β,17α-diaergostane 20R				
D293MbaRB	3β-Methyl-13β,17α-diaergostane 20R				
D294MbaSA	4α-Methyl-13β,17α-diaergostane 20S	59.681	25132		
D294MbaSB	4α-Methyl-13β,17α-diaergostane 20S	59.894	37341		
D294MbaRA	4α-Methyl-13β,17α-diaergostane 20R	61.170	17802		
D294MbaRB	4α-Methyl-13β,17α-diaergostane 20R	61.276	19016		
D294MabS	4α-Methyl-13α,17β-diaergostane 20S				
D294MabRA	4α-Methyl-13α,17β-diaergostane 20R	62.924	20909		
S293MaaaSA_4abRB	3β-Methyl-5α,14α,17α-ergostane 20S + 4a-methyl-13a,17b-diaergostane 20R	62.977	34458		
S293MaaaSB	3β-Methyl-5α,14α,17α-ergostane 20S	63.110	22576		
S293MabbR	3β-Methyl-5α,14β,17β-ergostane 20R	63.536	47868		
S293MabbS	3β-Methyl-5α,14β,17β-ergostane 20S	63.828	60589		
S294MaaaSA	4α-Methyl-5α,14α,17α-ergostane 20S	64.147	37112		
S294MaaaSB	4α-Methyl-5α,14α,17α-ergostane 20S	64.280	59626		
S294MabbR	4α-Methyl-5α,14β,17β-ergostane 20R	64.493	68633		
S294MabbS_3MaaaR	4α-Methyl-5α,14β,17β-ergostane 20S + 3b-Methyl-5a,14a,17a-ergostane 20R	64.758	148083		
S294MaaaR	4α-Methyl-5α,14α,17α-ergostane 20R	65.795	203555		
XS29aaaR	5α,14α,17α-stigmastane 20R	66.274	127665		
414.4–>231.2: C30 Methylsteranes					
S302MaaaS	2α-Methyl-5α,14α,17α-stigmastane 20S	65.317	16127		
S303MaaaS	3β-Methyl-5α,14α,17α-stigmastane 20S + (coelution)	65.769	75800		
S302MabbR	2α-Methyl-5α,14β,17β-stigmastane 20S + (coelution)	65.955	16089		
S302MabbS	2α-Methyl-5α,14β,17β-stigmastane 20S	66.088	12377		
S303MabbR	3β-Methyl-5α,14β,17β-stigmastane 20R	66.407	76900		
BBDINO	ββ-dino (?)				
S303MabbS	3b-Methyl-5a,14b,17b-stigmastane 20S + (coelution)	66.566	77067		
S304MaaaS	4α-Methyl-5α,14α,17α-stigmastane 20S	66.858	56930		
S304MabbR	4α-Methyl-5α,14β,17β-stigmastane 20R	67.284	56549		
S304MabbS_2MaaaR	4α-Methyl-5α,14β,17β-stigmastane 20S + 2α-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.523	101707		
S303MaaaR	3β-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.709	153102		
DS4aSS20R	4α,23S,24S-trimethyl-20R-cholestane	68.161	30107		
DS4aSR20R	4α,23S,24R-trimethyl-20R-cholestane	68.533	39650		
S304MaaaR	4α-Methyl-5α,14α,17α-stigmastane 20R	68.826	212029		
DS4aRR20R	4α,23R,24R-trimethyl-20R-cholestane	68.879	57664		
DS4aRS20R	4α,23R,24S-trimethyl-20R-cholestane	69.171	49632		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Lab ID:**	**CP275205**
Top Depth:	**11320 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**11340 FT**	**File Name:**	**MS040406.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
414.4–>259.2: Tetracyclic polyprenoids and C30 3βpropylsteranes					
S303PaaaS	3β-Propyl-5α,14α,17α-cholestane 20S	67.656	13256		
PP1	Tetracyclic polyprenoid	67.762	33506		
PP2_S303PabbR	Tetracyclic polyprenoid+ 3β-propyl-5α,14β,17β-cholestane 20R	67.895	56728		
S303PabbS	3β-Propyl-5α,14β,17β-cholestane 20S	68.241	25025		
S303PaaaR	3β-Propyl-5α,14α,17α-cholestane 20R	69.012	29077		
414.2–>191.2: Pentacyclic Triterpenoids					
REARNGHOP	Rearranged hopane	61.356	82213		
OLEANOID13	5(4→3)abeo-3α(H), 5β-Oleanane				
TRITERP14	C30 unknown triterpane				
OLEANOID15A	Oleanoid				
OLEANOID15	Oleanoid				
OLEANOID16	Oleanoid	65.476	81586		
C30UNKT2	5(4→3)abeo-3β(H)-Oleanane	65.875	100951		
OLEANOID17	3β-methyl-24-nor-1(10→5)abeo-10β(H), 18α-oleanane	66.327	97837		
TRITERP17A	C30 plant terpane				
DH30	Diahopane	66.938	202157		
TRITERP18	C30 unknown triterpane				
OL18a	18α Oleanane	68.480	246338		
OL18b	18β Oleanane	68.613	150836		
H30ab	17α, 21β-Hopane	68.879	3160772		
NOR30HOP	30-Norhomohopane				
C30TS	18α,17β-Neohopane				
C30UNK9	17α, 21α-Hopane				
M30	17β, 21α-Hopane (Moretane)				
GamA	Gammacerane-A	72.707	114092		
GamB	Gammacerane-B	72.867	39997		
414.2–>313.3: Bicadinanes					
B30W	Bicadinane W (*cis,cis,trans*)				
B30T	Bicadinane T (*trans, trans,trans*)				
B30T1	Bicadinane T1				
B30R	Bicadinane R				
274.3–>203.2: Norpregnanes					
NORPREG1	Norpregnane-1				
NORPREG2	Norpregnane-2				
NORPREG3_4	Norpregnane-3+Norpregnane-4				
NORPREG5	Norpregnane-5				
NORPREG6	Norpregnane-6				
NORPREG7	Norpregnane-7				
NORPREG8_9	Norpregnane-8+Norpregnane-9				
NORPREG10	Norpregnane-10				
NORPREG11	Norpregnane-11				
NORPREG12	Norpregnane-12				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Lab ID:**	**CP275205**
Top Depth:	**11320 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**11340 FT**	**File Name:**	**MS040406.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

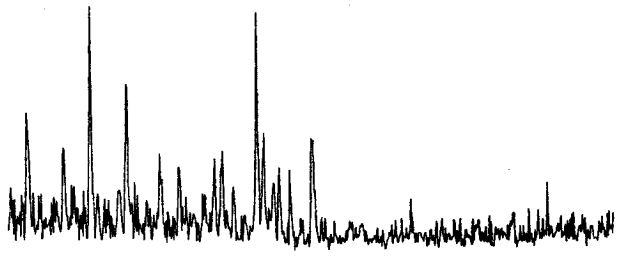
Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->191.2: Tetracyclics					
DesAOL	Des-A-Oleanane	43.572	753306		
DesALUP	Des-A-Lupane	43.731	293946		
DesATARAX	Des-A-Taraxastane	46.948	276268		
DesEHOP	Des-E-Hopane	48.277	820752		
410.4->218.2: Monounsaturated C30 Pentacyclic Triterpenoids					
Bicadinene	Bicadinene				
OL1318ene	Olean-13(18)-ene	65.955	461457		
OL12ene	Olean-12-ene	66.274	43371		
OL18ene	Olean-18-ene	66.566	95335		
OL12ene18a	18α-Olean-12-ene	67.683	90570		
Unk_Peak1	Unknown peak 1				
426.4->205.2: C31 Pentacyclic Triterpenoids					
H312Mab	C31 2a-Methylhopane	69.198	145805		
H31abS	C31 22S 2α-Methylhopane	72.122	322149		
H31abR	C31 22R 2α-Methylhopane	72.468	255474		
H313Mab	C31 3β-Methylhopane	72.920	110538		

BASELINE DGSI ANALYTICAL LABORATORIES

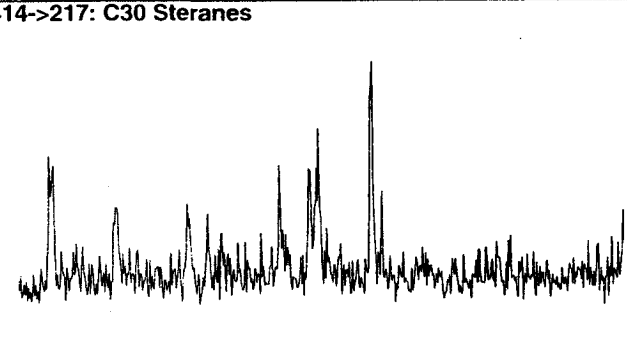
SATURATE GCMSMS

Company:	**CONOCOPHILLIPS**	**Project #:**	**04-501-A**	
Country:	**UNITED STATES**	**Lab ID:**	**CP275206**	
Basin:		**Client ID:**	**US135727**	
Lease:	**INIGOK #1**	**Sample Type:**	**CUTTINGS**	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	**INIGOK #1**	**Geologic Age:**		
Latitude:	**70.0003**	**Top Depth:**	**13690**	**FT**
Longitude:	**-153.095**	**Bottom Depth:**	**13710**	**FT**

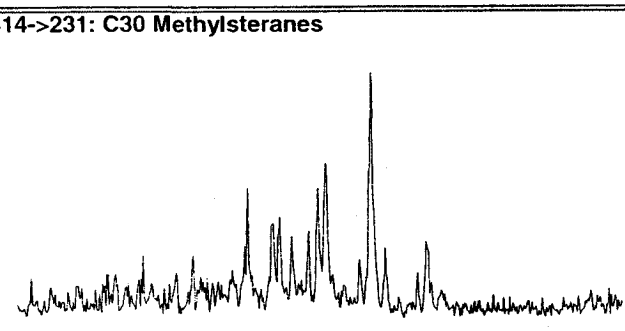
358->217: C26 Steranes MS040407.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	25.2	D	
%28 Steranes	29.9	D	
%29 Steranes	44.9	D	
%27 Diasteranes	41.9	D	
%28 Diasteranes	30.7	D	
%29 Diasteranes	27.5	D	
C30 Sterane Index	0.02	D	
C30 iso/n-propyl sterane Index		A	
C27 αββ/(ααα+αββ)	0.18	M	
C28 αββ/(ααα+αββ)	0.20	M	
C29 αββ/(ααα+αββ)	0.21	M	
C30 αββ/(ααα+αββ)	0.41	M	
C27 S/(S+R)	0.35	M	
C28 S/(S+R)	0.15	M	
C29 S/(S+R)	0.19	M	
C30 S/(S+R)	0.32	M	
Diasteranes/Steranes	0.30		
24-Nordiacholestane ratio (NDR)	0.42	A	
24-Norcholestane ratio (NCR)	0.53	A	
21-Norcholestane ratio	0.14	D/M	
Dinosterane ratio	0.54	A	
4-Methyl sterane ratio	0.05	A	
Terpane Ratios			
Oleanane Index (%)	17.0	A	
DesA Oleanane Index (%)	55.0	A	
Gammacerane Index (%)	7.4	D	
Bicadinane Index (%)	2.5	A/D	
DiaHopane Index (%)	3.6	D	
TPP	0.24	D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Lab ID:**	**CP275206**
Top Depth:	**13690 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**13710 FT**	**File Name:**	**MS040407.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->217.2: Internal Standard					
ISTD	5β-Cholane				
358.3->217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.569	63854		
D26N24baR	13β,17α,24-nordiacholestane 20R	49.659	49644		
D26N27baS	13β,17α,27-nordiacholestane 20S	50.483	83990		
D26N24abS	13α,17β,24-nordiacholestane 20S	50.696	20652		
D26N24abR	13α,17β,24-nordiacholestane 20R	51.334	31531		
D26N27baR	13β,17α,27-nordiacholestane 20R	51.547	71322		
D26N27abS	13α,17β,27-nordiacholestane 20S	52.530	38293		
D26N27abR	13α,17β,27-nordiacholestane 20R	53.115	29935		
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.178	32989		
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.418	42181		
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.737	21609		
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.454	82670		
S26N21	21-norcholestane	55.667	53351		
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.800	82670		
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	55.933	29565		
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.119	35966		
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.411	28388		
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.076	63625		
372.3->217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.583	950039		
D27baR	13β,17α-diacholestane 20R	53.886	628895		
D27abS	13α,17β-diacholestane 20S	54.870	233126		
D27abR	13α,17β-diacholestane 20R	55.534	282838		
S27aaaS	5α,14α,17α-cholestane 20S	58.246	924424		
S27abbR	5α,14β,17β-cholestane 20R	58.485	302501		
S27abbS	5α,14β,17β-cholestane 20S	58.777	281742		
S27aaaR	5α,14α,17α-cholestane 20R	59.548	1712873		
386.4->217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.694	334716		
D28baSB	13β,17α-diaergostane 20S (24S)	55.906	352259		
D28baRA	13β,17α-diaergostane 20R (24R)	57.156	217204		
D28baRB	13β,17α-diaergostane 20R (24R)	57.262	253016		
D28abS	13α,17β-diaergostane 20S	58.033	171257		
D28abRA	13α,17β-diaergostane 20R	58.937	133532		
D28abRB	13α,17β-diaergostane 20R	59.017	123530		
C28UNK9	C28 Unknown 9	59.787	170309		
S28aaaSA	5α,14α,17α-ergostane 20S	61.515	192808		
S28aaaSB	5α,14α,17α-ergostane 20S	61.622	272802		
S28abbR	5β,14α,17α-ergostane 20R	61.994	484949		
S28baaR	5α,14β,17β-ergostane 20R	61.914	410467		
S28abbS	5α,14β,17β-ergostane 20S	62.286	284826		
S28N21	21-norstigmastane	62.685	61192		
S28aaaR	5α,14α,17α-ergostane 20R	63.217	2579292		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Lab ID:**	**CP275206**
Top Depth:	**13690 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**13710 FT**	**File Name:**	**MS040407.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
414.4–>259.2: Tetracyclic polyprenoids and C30 3βpropylsteranes					
S303PaaaS	3β-Propyl-5α,14α,17α-cholestane 20S	67.629	5107		
PP1	Tetracyclic polyprenoid	67.736	48813		
PP2_S303PabbR	Tetracyclic polyprenoid+ 3β-propyl-5α,14β,17β-cholestane 20R	67.922	63039		
S303PabbS	3β-Propyl-5α,14β,17β-cholestane 20S	68.267	21236		
S303PaaaR	3β-Propyl-5α,14α,17α-cholestane 20R	68.959	18860		
414.2–>191.2: Pentacyclic Triterpenoids					
REARNGHOP	Rearranged hopane				
OLEANOID13	5(4→3)abeo-3α(H), 5β-Oleanane	64.546	75193		
TRITERP14	C30 unknown triterpane				
OLEANOID15A	Oleanoid				
OLEANOID15	Oleanoid				
OLEANOID16	Oleanoid	65.476	103970		
C30UNKT2	5(4→3)abeo-3β(H)-Oleanane	65.928	80099		
OLEANOID17	3β-methyl-24-nor-1(10→5)abeo-10β(H), 18α-oleanane	66.300	105361		
TRITERP17A	C30 plant terpane				
DH30	Diahopane	66.912	119761		
TRITERP18	C30 unknown triterpane				
OL18a	18α Oleanane	68.480	334778		
OL18b	18β Oleanane	68.613	317477		
H30ab	17α, 21β-Hopane	68.879	3192325		
NOR30HOP	30-Norhomohopane				
C30TS	18α,17β-Neohopane				
C30UNK9	17α, 21α-Hopane				
M30	17β, 21α-Hopane (Moretane)				
GamA	Gammacerane-A	72.734	217510		
GamB	Gammacerane-B	72.920	37119		
414.2–>313.3: Bicadinanes					
B30W	Bicadinane W (*cis,cis,trans*)				
B30T	Bicadinane T (*trans, trans,trans*)	61.52	52302		
B30T1	Bicadinane T1	62.15	14181		
B30R	Bicadinane R	63.22	14676		
274.3–>203.2: Norpregnanes					
NORPREG1	Norpregnane-1				
NORPREG2	Norpregnane-2				
NORPREG3_4	Norpregnane-3+Norpregnane-4				
NORPREG5	Norpregnane-5				
NORPREG6	Norpregnane-6				
NORPREG7	Norpregnane-7				
NORPREG8_9	Norpregnane-8+Norpregnane-9				
NORPREG10	Norpregnane-10				
NORPREG11	Norpregnane-11				
NORPREG12	Norpregnane-12				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Lab ID:**	**CP275206**
Top Depth:	**13690 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**13710 FT**	**File Name:**	**MS040407.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

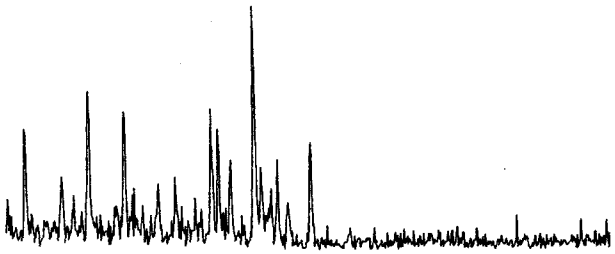
Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->191.2: Tetracyclics					
DesAOL	Des-A-Oleanane	43.545	834070		
DesALUP	Des-A-Lupane	43.785	172172		
DesATARAX	Des-A-Taraxastane	46.921	268695		
DesEHOP	Des-E-Hopane	48.277	683288		
410.4->218.2: Monounsaturated C30 Pentacyclic Triterpenoids					
Bicadinene	Bicadinene				
OL1318ene	Olean-13(18)-ene	65.955	342234		
OL12ene	Olean-12-ene	66.274	50343		
OL18ene	Olean-18-ene	66.566	90717		
OL12ene18a	18α-Olean-12-ene	67.683	59338		
Unk_Peak1	Unknown peak 1				
426.4->205.2: C31 Pentacyclic Triterpenoids					
H312Mab	C31 2a-Methylhopane	69.145	97154		
H31abS	C31 22S 2α-Methylhopane	72.122	200243		
H31abR	C31 22R 2α-Methylhopane	72.468	189863		
H313Mab	C31 3β-Methylhopane	72.920	113418		

BASELINE DGSI
ANALYTICAL LABORATORIES

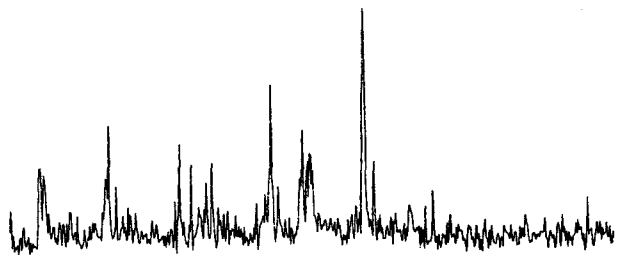
SATURATE GCMSMS

Company:	CONOCOPHILLIPS	**Project #:**	04-501-A	
Country:	UNITED STATES	**Lab ID:**	CP275207	
Basin:		**Client ID:**	US135728	
Lease:		**Sample Type:**	CUTTINGS	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	EAST TESHEKPUK 1	**Geologic Age:**		
Latitude:	70.5694	**Top Depth:**	9620	FT
Longitude:	-152.943	**Bottom Depth:**	9640	FT

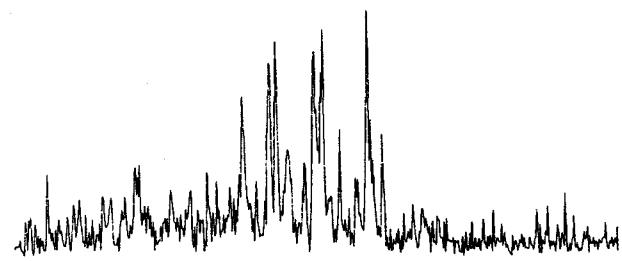
358->217: C26 Steranes MS040408.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	32.2	D	
%28 Steranes	33.8	D	
%29 Steranes	33.9	D	
%27 Diasteranes	43.3	D	
%28 Diasteranes	32.6	D	
%29 Diasteranes	24.1	D	
C30 Sterane Index	0.03	D	
C30 iso/n-propyl sterane index		A	
C27 αββ/(ααα+αββ)	0.32	M	
C28 αββ/(ααα+αββ)	0.37	M	
C29 αββ/(ααα+αββ)	0.29	M	
C30 αββ/(ααα+αββ)	0.31	M	
C27 S/(S+R)	0.45	M	
C28 S/(S+R)	0.26	M	
C29 S/(S+R)	0.28	M	
C30 S/(S+R)	0.34	M	
Diasteranes/Steranes	0.50		
24-Nordiacholestane ratio (NDR)	0.36	A	
24-Norcholestane ratio (NCR)	0.65	A	
21-Norcholestane ratio	0.09	D/M	
Dinosterane ratio	0.60	A	
4-Methyl sterane ratio	0.07	A	
Terpane Ratios			
Oleanane Index (%)	15.6	A	
DesA Oleanane Index (%)	47.1	A	
Gammacerane Index (%)	6.2	D	
Bicadinane Index (%)		A/D	
DiaHopane Index (%)	4.1	D	
TPP		D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275207**
Top Depth:	**9620 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9640 FT**	**File Name:**	**MS040408.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

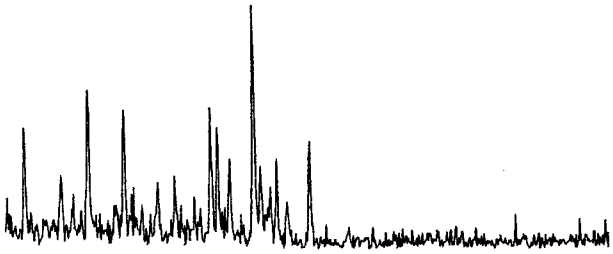
Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->217.2: Internal Standard					
ISTD	5β-Cholane				
358.3->217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.569	64506		
D26N24baR	13β,17α,24-nordiacholestane 20R	49.659	49700		
D26N27baS	13β,17α,27-nordiacholestane 20S	50.483	107482		
D26N24abS	13α,17β,24-nordiacholestane 20S	50.723	16006		
D26N24abR	13α,17β,24-nordiacholestane 20R	51.307	31711		
D26N27baR	13β,17α,27-nordiacholestane 20R	51.547	91376		
D26N27abS	13α,17β,27-nordiacholestane 20S	52.583	42993		
D26N27abR	13α,17β,27-nordiacholestane 20R	53.089	39195		
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.152	82441		
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.365	61356		
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.737	52176		
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.428	135403		
S26N21	21-norcholestane	55.641	52594		
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.773	135403		
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	55.933	38135		
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.119	47446		
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.411	34280		
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.103	57388		
372.3->217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.557	1037444		
D27baR	13β,17α-diacholestane 20R	53.886	611730		
D27abS	13α,17β-diacholestane 20S	54.843	208139		
D27abR	13α,17β-diacholestane 20R	55.508	306766		
S27aaaS	5α,14α,17α-cholestane 20S	58.166	739131		
S27abbR	5α,14β,17β-cholestane 20R	58.485	403351		
S27abbS	5α,14β,17β-cholestane 20S	58.777	375163		
S27aaaR	5α,14α,17α-cholestane 20R	59.548	921647		
386.4->217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.694	356620		
D28baSB	13β,17α-diaergostane 20S (24S)	55.880	376595		
D28baRA	13β,17α-diaergostane 20R (24R)	57.156	223662		
D28baRB	13β,17α-diaergostane 20R (24R)	57.262	284835		
D28abS	13α,17β-diaergostane 20S	58.033	171333		
D28abRA	13α,17β-diaergostane 20R	58.937	155329		
D28abRB	13α,17β-diaergostane 20R	59.017	117226		
C28UNK9	C28 Unknown 9	59.814	263864		
S28aaaSA	5α,14α,17α-ergostane 20S	61.489	193333		
S28aaaSB	5α,14α,17α-ergostane 20S	61.622	219255		
S28abbR	5β,14α,17α-ergostane 20R	61.994	570126		
S28baaR	5α,14β,17β-ergostane 20R	61.861	123038		
S28abbS	5α,14β,17β-ergostane 20S	62.286	371034		
S28N21	21-norstigmastane	62.712	37243		
S28aaaR	5α,14α,17α-ergostane 20R	63.217	1205036		

BASELINE DGSI ANALYTICAL LABORATORIES

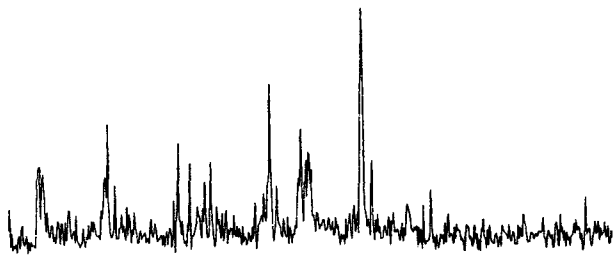
SATURATE GCMSMS

Company:	**CONOCOPHILLIPS**	**Project #:**	**04-501-A**	
Country:	**UNITED STATES**	**Lab ID:**	**CP275207**	
Basin:		**Client ID:**	**US135728**	
Lease:		**Sample Type:**	**CUTTINGS**	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	**EAST TESHEKPUK 1**	**Geologic Age:**		
Latitude:	**70.5694**	**Top Depth:**	**9620**	**FT**
Longitude:	**-152.943**	**Bottom Depth:**	**9640**	**FT**

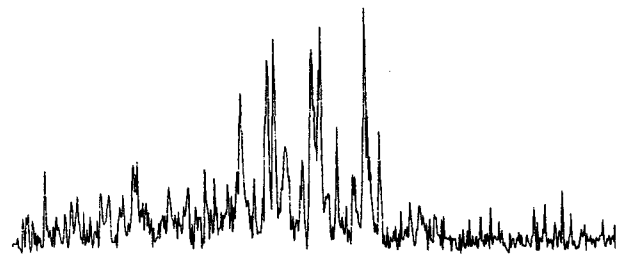
358->217: C26 Steranes MS040408.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	32.2	D	
%28 Steranes	33.8	D	
%29 Steranes	33.9	D	
%27 Diasteranes	43.3	D	
%28 Diasteranes	32.6	D	
%29 Diasteranes	24.1	D	
C30 Sterane Index	0.03	D	
C30 iso/n-propyl sterane Index		A	
C27 αββ/(ααα+αββ)	0.32	M	
C28 αββ/(ααα+αββ)	0.37	M	
C29 αββ/(ααα+αββ)	0.29	M	
C30 αββ/(ααα+αββ)	0.31	M	
C27 S/(S+R)	0.45	M	
C28 S/(S+R)	0.26	M	
C29 S/(S+R)	0.28	M	
C30 S/(S+R)	0.34	M	
Diasteranes/Steranes	0.50		
24-Nordiacholestane ratio (NDR)	0.36	A	
24-Norcholestane ratio (NCR)	0.65	A	
21-Norcholestane ratio	0.09	D/M	
Dinosterane ratio	0.60	A	
4-Methyl sterane ratio	0.07	A	
Terpane Ratios			
Oleanane Index (%)	15.6	A	
DesA Oleanane Index (%)	47.1	A	
Gammacerane Index (%)	6.2	D	
Bicadinane Index (%)		A/D	
DiaHopane Index (%)	4.1	D	
TPP		D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275207**
Top Depth:	**9620 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9640 FT**	**File Name:**	**MS040408.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->217.2: Internal Standard					
ISTD	5β-Cholane				
358.3->217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.569	64506		
D26N24baR	13β,17α,24-nordiacholestane 20R	49.659	49700		
D26N27baS	13β,17α,27-nordiacholestane 20S	50.483	107482		
D26N24abS	13α,17β,24-nordiacholestane 20S	50.723	16006		
D26N24abR	13α,17β,24-nordiacholestane 20R	51.307	31711		
D26N27baR	13β,17α,27-nordiacholestane 20R	51.547	91376		
D26N27abS	13α,17β,27-nordiacholestane 20S	52.583	42993		
D26N27abR	13α,17β,27-nordiacholestane 20R	53.089	39195		
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.152	82441		
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.365	61356		
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.737	52176		
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.428	135403		
S26N21	21-norcholestane	55.641	52594		
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.773	135403		
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	55.933	38135		
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.119	47446		
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.411	34280		
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.103	57388		
372.3->217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.557	1037444		
D27baR	13β,17α-diacholestane 20R	53.886	611730		
D27abS	13α,17β-diacholestane 20S	54.843	208139		
D27abR	13α,17β-diacholestane 20R	55.508	306766		
S27aaaS	5α,14α,17α-cholestane 20S	58.166	739131		
S27abbR	5α,14β,17β-cholestane 20R	58.485	403351		
S27abbS	5α,14β,17β-cholestane 20S	58.777	375163		
S27aaaR	5α,14α,17α-cholestane 20R	59.548	921647		
386.4->217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.694	356620		
D28baSB	13β,17α-diaergostane 20S (24S)	55.880	376595		
D28baRA	13β,17α-diaergostane 20R (24R)	57.156	223662		
D28baRB	13β,17α-diaergostane 20R (24R)	57.262	284835		
D28abS	13α,17β-diaergostane 20S	58.033	171333		
D28abRA	13α,17β-diaergostane 20R	58.937	155329		
D28abRB	13α,17β-diaergostane 20R	59.017	117226		
C28UNK9	C28 Unknown 9	59.814	263864		
S28aaaSA	5α,14α,17α-ergostane 20S	61.489	193333		
S28aaaSB	5α,14α,17α-ergostane 20S	61.622	219255		
S28abbR	5β,14α,17α-ergostane 20R	61.994	570126		
S28baaR	5α,14β,17β-ergostane 20R	61.861	123038		
S28abbS	5α,14β,17β-ergostane 20S	62.286	371034		
S28N21	21-norstigmastane	62.712	37243		
S28aaaR	5α,14α,17α-ergostane 20R	63.217	1205036		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275207**
Top Depth:	**9620 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9640 FT**	**File Name:**	**MS040408.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>217.2: C29 Desmethylsteranes					
D29baS	13β,17α-diastigmastane 20S	58.511	503904		
D29baR	13β,17α-diastigmastane 20R	60.027	412933		
D29abS	13α,17β-diastigmastane 20S	60.665	143517		
D29abR	13α,17β-diastigmastane 20R	61.887	201456		
C29UNK5	C29 Unknown 5	62.605	273946		
S29aaaS	5α,14α,17α-stigmastane 20S	64.280	513553		
S29abbR	5α,14β,17β-stigmastane 20R	64.891	394961		
S29baaR	5β,14α,17α-stigmastane 20R	64.998	235046		
S29abbS	5α,14β,17β-stigmastane 20S	65.051	340791		
S29aaaR	5α,14α,17α-stigmastane 20R	66.274	1318609		
414.4–>217.2: C30 Desmethylsteranes					
D30nPbaSA	13β,17α-dia-24-n-propylcholestane 20S	60.771	31528		
D30nPbaSB	13β,17α-dia-24-n-propylcholestane 20S	60.851	28166		
D30nPbaR	13β,17α-dia-24-n-propylcholestane 20R	62.472	48933		
C30UNK4	13α,17β-dia-24-n-propylcholestane 20S				
C30UNK5	13α,17β-dia-24-n-propylcholestane 20S				
D30nPabS	13α,17β-dia-24-n-propylcholestane 20R				
DC30UNK7	dia-C30 Unknown 7				
DC30UNK8	dia-C30 Unknown 8				
DC30UNK8A	dia-C30 Unknown 8A				
S30nPaaaS	5α,14α,17α-24-n-propylcholestane 20S	66.513	48260		
C30UNK10	C30 Unknown 10				
S30iPaaaS	5α,14α,17α-24-iso-propylcholestane 20S				
S30nPabbR	5α,14β,17β-24-n-propylcholestane 20R	67.284	43039		
S30nPabbS	5α,14β,17β-24-n-propylcholestane 20S	67.417	21147		
C30UNK13	5β,14α,17α-24-n-propylcholestane 20R				
S30iPabbR	5α,14β,17β-24-iso-propylcholestane 20R				
S30nPaaaR	5α,14α,17α-24-n-propylcholestane 20R	68.799	94221		
C30UNK14	C30 Unknown 14				
S30iPaaaR	5α,14α,17α-24-iso-propylcholestane 20R				
C30UNK16	C30 Unknown 16				
386.4–>231.2: C28 Methylsteranes					
D283MbaS	3β-Methyl-13β,17α-diacholestane 20S	54.072	34148		
DC28UNK16	dia-C28 Unknown 16				
D283MbaR	3β-Methyl-13β,17α-diacholestane 20R	55.428	41121		
DC28UNK3	dia-C28 Unknown 3				
DC28UNK17	dia-C28 Unknown 17				
D284MbaS	4α-Methyl-13β,17α-diacholestane 20S	56.651	69820		
D284MbaR	4α-Methyl-13β,17α-diacholestane 20R	57.927	42172		
S283MaaaS	3β-Methyl-5α,14α,17α-cholestane 20S	59.708	77541		
S283MabbR	3β-Methyl-5α,14β,17β-cholestane 20R	60.080	66357		
S283MabbS	3β-Methyl-5α,14β,17β-cholestane 20S	60.372	65270		
S284MaaaS	4α-Methyl-5α,14α,17α-cholestane 20S	60.877	52704		
S284MabbR	4α-Methyl-5α,14β,17β-cholestane 20R	61.010	45630		
S283MaaaR	3β-Methyl-5α,14α,17α-cholestane 20R	61.063	99306		
S284MabbS	4α-Methyl-5α,14β,17β-cholestane 20S	61.303	54496		
S284MaaaR	4α-Methyl-5α,14α,17α-cholestane 20R	62.233	82412		
XS28aaaR	5α,14α,17α-ergostane 20R	63.217	58806		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275207**
Top Depth:	**9620 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9640 FT**	**File Name:**	**MS040408.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>231.2: C29 Methylsteranes					
D293MbaSA	3β-Methyl-13β,17α-diaergostane 20S				
D293MbaSB	3β-Methyl-13β,17α-diaergostane 20S				
DC29UNK27	dia-C29 Unknown 27				
DC29UNK28	dia-C29 Unknown 28				
D293MbaRA	3β-Methyl-13β,17α-diaergostane 20R				
D293MbaRB	3β-Methyl-13β,17α-diaergostane 20R				
D294MbaSA	4α-Methyl-13β,17α-diaergostane 20S				
D294MbaSB	4α-Methyl-13β,17α-diaergostane 20S				
D294MbaRA	4α-Methyl-13β,17α-diaergostane 20R				
D294MbaRB	4α-Methyl-13β,17α-diaergostane 20R				
D294MabS	4α-Methyl-13α,17β-diaergostane 20S				
D294MabRA	4α-Methyl-13α,17β-diaergostane 20R				
S293MaaaSA_4abRB	3β-Methyl-5α,14α,17α-ergostane 20S + 4a-methyl-13a,17b-diaergostane 20R				
S293MaaaSB	3β-Methyl-5α,14α,17α-ergostane 20S				
S293MabbR	3β-Methyl-5α,14β,17β-ergostane 20R	63.536	60959		
S293MabbS	3β-Methyl-5α,14β,17β-ergostane 20S	63.801	70917		
S294MaaaSA	4α-Methyl-5α,14α,17α-ergostane 20S	64.067	44812		
S294MaaaSB	4α-Methyl-5α,14α,17α-ergostane 20S	64.253	46481		
S294MabbR	4α-Methyl-5α,14β,17β-ergostane 20R	64.466	72285		
S294MabbS_3MaaaR	4α-Methyl-5α,14β,17β-ergostane 20S + 3b-Methyl-5a,14a,17a-ergostane 20R	64.732	138845		
S294MaaaR	4α-Methyl-5α,14α,17α-ergostane 20R	65.822	118955		
XS29aaaR	5α,14α,17α-stigmastane 20R	66.247	50987		
414.4–>231.2: C30 Methylsteranes					
S302MaaaS	2α-Methyl-5α,14α,17α-stigmastane 20S	65.343	14108		
S303MaaaS	3β-Methyl-5α,14α,17α-stigmastane 20S + (coelution)	65.715	76047		
S302MabbR	2α-Methyl-5α,14β,17β-stigmastane 20S + (coelution)	65.901	16285		
S302MabbS	2α-Methyl-5α,14β,17β-stigmastane 20S	66.061	19751		
S303MabbR	3β-Methyl-5α,14β,17β-stigmastane 20R	66.380	85455		
BBDINO	ββ-dino (?)				
S303MabbS	3b-Methyl-5a,14b,17b-stigmastane 20S + (coelution)	66.539	77418		
S304MaaaS	4α-Methyl-5α,14α,17α-stigmastane 20S	66.832	65559		
S304MabbR	4α-Methyl-5α,14β,17β-stigmastane 20R	67.257	38018		
S304MabbS_2MaaaR	4α-Methyl-5α,14β,17β-stigmastane 20S + 2α-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.496	119911		
S303MaaaR	3β-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.709	86800		
DS4aSS20R	4α,23S,24S-trimethyl-20R-cholestane	68.134	34420		
DS4aSR20R	4α,23S,24R-trimethyl-20R-cholestane	68.507	39310		
S304MaaaR	4α-Methyl-5α,14α,17α-stigmastane 20R	68.799	103064		
DS4aRR20R	4α,23R,24R-trimethyl-20R-cholestane	68.932	24076		
DS4aRS20R	4α,23R,24S-trimethyl-20R-cholestane	69.171	32426		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275207**
Top Depth:	**9620 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9640 FT**	**File Name:**	**MS040408.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
414.4->259.2: Tetracyclic polyprenoids and C30 3βpropylsteranes					
S303PaaaS	3β-Propyl-5α,14α,17α-cholestane 20S				
PP1	Tetracyclic polyprenoid				
PP2_S303PabbR	Tetracyclic polyprenoid+ 3β-propyl-5α,14β,17β-cholestane 20R				
S303PabbS	3β-Propyl-5α,14β,17β-cholestane 20S				
S303PaaaR	3β-Propyl-5α,14α,17α-cholestane 20R				
414.2->191.2: Pentacyclic Triterpenoids					
REARNGHOP	Rearranged hopane	61.356	37274		
OLEANOID13	5(4→3)abeo-3α(H), 5β-Oleanane				
TRITERP14	C30 unknown triterpane				
OLEANOID15A	Oleanoid				
OLEANOID15	Oleanoid				
OLEANOID16	Oleanoid	65.476	61135		
C30UNKT2	5(4→3)abeo-3β(H)-Oleanane	65.848	43395		
OLEANOID17	3β-methyl-24-nor-1(10→5)abeo-10β(H), 18α-oleanane				
TRITERP17A	C30 plant terpane				
DH30	Diahopane	66.912	72316		
TRITERP18	C30 unknown triterpane				
OL18a	18α Oleanane	68.453	175738		
OL18b	18β Oleanane	68.613	134326		
H30ab	17α, 21β-Hopane	68.879	1681240		
NOR30HOP	30-Norhomohopane				
C30TS	18α,17β-Neohopane				
C30UNK9	17α, 21α-Hopane				
M30	17β, 21α-Hopane (Moretane)				
GamA	Gammacerane-A	72.707	92719		
GamB	Gammacerane-B	72.893	18157		
414.2->313.3: Bicadinanes					
B30W	Bicadinane W (*cis,cis,trans*)				
B30T	Bicadinane T (*trans, trans,trans*)				
B30T1	Bicadinane T1				
B30R	Bicadinane R				
274.3->203.2: Norpregnanes					
NORPREG1	Norpregnane-1				
NORPREG2	Norpregnane-2				
NORPREG3_4	Norpregnane-3+Norpregnane-4				
NORPREG5	Norpregnane-5				
NORPREG6	Norpregnane-6				
NORPREG7	Norpregnane-7				
NORPREG8_9	Norpregnane-8+Norpregnane-9				
NORPREG10	Norpregnane-10				
NORPREG11	Norpregnane-11				
NORPREG12	Norpregnane-12				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275207**
Top Depth:	**9620 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9640 FT**	**File Name:**	**MS040408.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

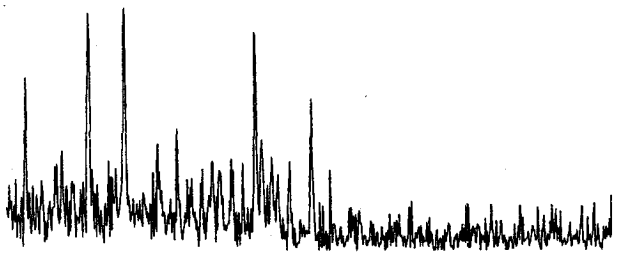
Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->191.2: Tetracyclics					
DesAOL	Des-A-Oleanane	43.545	440713		
DesALUP	Des-A-Lupane	43.758	163901		
DesATARAX	Des-A-Taraxastane	46.921	151737		
DesEHOP	Des-E-Hopane	48.277	495724		
410.4->218.2: Monounsaturated C30 Pentacyclic Triterpenoids					
Bicadinene	Bicadinene				
OL1318ene	Olean-13(18)-ene	65.928	140476		
OL12ene	Olean-12-ene	66.327	20068		
OL18ene	Olean-18-ene	66.566	37173		
OL12ene18a	18α-Olean-12-ene	67.683	23960		
Unk_Peak1	Unknown peak 1				
426.4->205.2: C31 Pentacyclic Triterpenoids					
H312Mab	C31 2a-Methylhopane	69.145	48997		
H31abS	C31 22S 2α-Methylhopane	72.096	113446		
H31abR	C31 22R 2α-Methylhopane	72.468	99836		
H313Mab	C31 3β-Methylhopane	72.893	35643		

BASELINE DGSI ANALYTICAL LABORATORIES

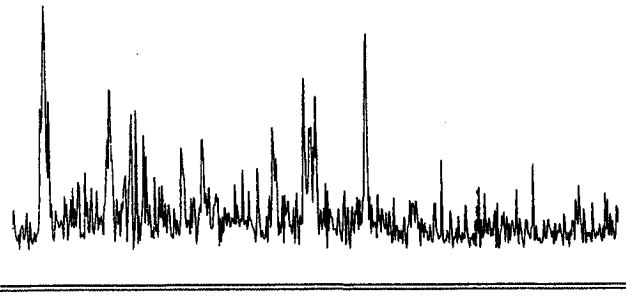
SATURATE GCMSMS

Company:	**CONOCOPHILLIPS**	**Project #:**	**04-501-A**	
Country:	**UNITED STATES**	**Lab ID:**	**CP275208**	
Basin:		**Client ID:**	**US135729**	
Lease:		**Sample Type:**	**CUTTINGS**	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	**EAST TESHEKPUK 1**	**Geologic Age:**		
Latitude:	**70.5694**	**Top Depth:**	**9660**	**FT**
Longitude:	**-152.943**	**Bottom Depth:**	**9680**	**FT**

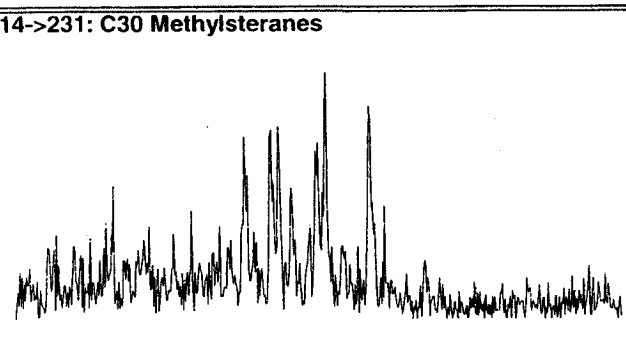
358->217: C26 Steranes MS040409.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	28.7	D	
%28 Steranes	29.9	D	
%29 Steranes	41.4	D	
%27 Diasteranes	41.4	D	
%28 Diasteranes	31.2	D	
%29 Diasteranes	27.4	D	
C30 Sterane Index	0.03	D	
C30 iso/n-propyl sterane Index		A	
C27 αββ/(ααα+αββ)	0.32	M	
C28 αββ/(ααα+αββ)	0.30	M	
C29 αββ/(ααα+αββ)	0.27	M	
C30 αββ/(ααα+αββ)	0.43	M	
C27 S/(S+R)	0.39	M	
C28 S/(S+R)	0.20	M	
C29 S/(S+R)	0.25	M	
C30 S/(S+R)	0.38	M	
Diasteranes/Steranes	0.66		
24-Nordiacholestane ratio (NDR)	0.31	A	
24-Norcholestane ratio (NCR)	0.56	A	
21-Norcholestane ratio	0.13	D/M	
Dinosterane ratio	0.50	A	
4-Methyl sterane ratio	0.06	A	
Terpane Ratios			
Oleanane Index (%)	16.6	A	
DesA Oleanane Index (%)	47.3	A	
Gammacerane Index (%)	5.1	D	
Bicadinane Index (%)		A/D	
DiaHopane Index (%)	5.4	D	
TPP		D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275208**
Top Depth:	**9660 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9680 FT**	**File Name:**	**MS040409.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3–>217.2: Internal Standard					
ISTD	5β-Cholane				
358.3–>217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.569	31369		
D26N24baR	13β,17α,24-nordiacholestane 20R	49.659	23740		
D26N27baS	13β,17α,27-nordiacholestane 20S	50.457	58171		
D26N24abS	13α,17β,24-nordiacholestane 20S				
D26N24abR	13α,17β,24-nordiacholestane 20R				
D26N27baR	13β,17α,27-nordiacholestane 20R	51.547	61902		
D26N27abS	13α,17β,27-nordiacholestane 20S	52.530	28759		
D26N27abR	13α,17β,27-nordiacholestane 20R	53.089	23675		
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.152	25169		
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.338	27211		
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.710	21950		
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.401	53531		
S26N21	21-norcholestane	55.614	33436		
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.773	53531		
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	55.906	27412		
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.092	19451		
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.438	21534		
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.076	31563		
372.3–>217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.557	685172		
D27baR	13β,17α-diacholestane 20R	53.859	466496		
D27abS	13α,17β-diacholestane 20S	54.816	168305		
D27abR	13α,17β-diacholestane 20R	55.508	205669		
S27aaaS	5α,14α,17α-cholestane 20S	58.219	325602		
S27abbR	5α,14β,17β-cholestane 20R	58.458	189310		
S27abbS	5α,14β,17β-cholestane 20S	58.751	195879		
S27aaaR	5α,14α,17α-cholestane 20R	59.522	502031		
386.4–>217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.667	245689		
D28baSB	13β,17α-diaergostane 20S (24S)	55.880	248831		
D28baRA	13β,17α-diaergostane 20R (24R)	57.129	175310		
D28baRB	13β,17α-diaergostane 20R (24R)	57.235	198262		
D28abS	13α,17β-diaergostane 20S	58.006	149176		
D28abRA	13α,17β-diaergostane 20R	58.937	96472		
D28abRB	13α,17β-diaergostane 20R	59.017	84454		
C28UNK9	C28 Unknown 9	59.787	113607		
S28aaaSA	5α,14α,17α-ergostane 20S	61.489	82528		
S28aaaSB	5α,14α,17α-ergostane 20S	61.568	92802		
S28abbR	5β,14α,17α-ergostane 20R	61.941	217434		
S28baaR	5α,14β,17β-ergostane 20R	61.914	139189		
S28abbS	5α,14β,17β-ergostane 20S	62.260	167542		
S28N21	21-norstigmastane	62.632	37037		
S28aaaR	5α,14α,17α-ergostane 20R	63.190	703206		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275208**
Top Depth:	**9660 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9680 FT**	**File Name:**	**MS040409.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>217.2: C29 Desmethylsteranes					
D29baS	13β,17α-diastigmastane 20S	58.511	438596		
D29baR	13β,17α-diastigmastane 20R	60.053	325402		
D29abS	13α,17β-diastigmastane 20S	60.691	99418		
D29abR	13α,17β-diastigmastane 20R	61.861	129063		
C29UNK5	C29 Unknown 5	62.579	159125		
S29aaaS	5α,14α,17α-stigmastane 20S	64.280	315497		
S29abbR	5α,14β,17β-stigmastane 20R	64.865	238404		
S29baaR	5β,14α,17α-stigmastane 20R	64.971	173453		
S29abbS	5α,14β,17β-stigmastane 20S	65.051	234403		
S29aaaR	5α,14α,17α-stigmastane 20R	66.247	960319		
414.4–>217.2: C30 Desmethylsteranes					
D30nPbaSA	13β,17α-dia-24-n-propylcholestane 20S	60.691	17861		
D30nPbaSB	13β,17α-dia-24-n-propylcholestane 20S	60.798	47442		
D30nPbaR	13β,17α-dia-24-n-propylcholestane 20R	62.419	44536		
C30UNK4	13α,17β-dia-24-n-propylcholestane 20S				
C30UNK5	13α,17β-dia-24-n-propylcholestane 20S				
D30nPabS	13α,17β-dia-24-n-propylcholestane 20R				
DC30UNK7	dia-C30 Unknown 7	64.732	21221		
DC30UNK8	dia-C30 Unknown 8				
DC30UNK8A	dia-C30 Unknown 8A				
S30nPaaaS	5α,14α,17α-24-n-propylcholestane 20S	66.460	24005		
C30UNK10	C30 Unknown 10				
S30iPaaaS	5α,14α,17α-24-iso-propylcholestane 20S				
S30nPabbR	5α,14β,17β-24-n-propylcholestane 20R	67.231	21512		
S30nPabbS	5α,14β,17β-24-n-propylcholestane 20S	67.417	26297		
C30UNK13	5β,14α,17α-24-n-propylcholestane 20R				
S30iPabbR	5α,14β,17β-24-iso-propylcholestane 20R				
S30nPaaaR	5α,14α,17α-24-n-propylcholestane 20R	68.799	39412		
C30UNK14	C30 Unknown 14				
S30iPaaaR	5α,14α,17α-24-iso-propylcholestane 20R				
C30UNK16	C30 Unknown 16				
386.4–>231.2: C28 Methylsteranes					
D283MbaS	3β-Methyl-13β,17α-diacholestane 20S	54.019	25274		
DC28UNK16	dia-C28 Unknown 16				
D283MbaR	3β-Methyl-13β,17α-diacholestane 20R	55.401	28598		
DC28UNK3	dia-C28 Unknown 3				
DC28UNK17	dia-C28 Unknown 17				
D284MbaS	4α-Methyl-13β,17α-diacholestane 20S	56.597	49671		
D284MbaR	4α-Methyl-13β,17α-diacholestane 20R	57.927	28724		
S283MaaaS	3β-Methyl-5α,14α,17α-cholestane 20S	59.708	37068		
S283MabbR	3β-Methyl-5α,14β,17β-cholestane 20R	60.080	32996		
S283MabbS	3β-Methyl-5α,14β,17β-cholestane 20S	60.346	38894		
S284MaaaS	4α-Methyl-5α,14α,17α-cholestane 20S	60.851	40760		
S284MabbR	4α-Methyl-5α,14β,17β-cholestane 20R	60.984	23391		
S283MaaaR	3β-Methyl-5α,14α,17α-cholestane 20R	61.063	44309		
S284MabbS	4α-Methyl-5α,14β,17β-cholestane 20S	61.329	26793		
S284MaaaR	4α-Methyl-5α,14α,17α-cholestane 20R	62.180	40506		
XS28aaaR	5α,14α,17α-ergostane 20R	63.190	31227		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275208**
Top Depth:	**9660 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9680 FT**	**File Name:**	**MS040409.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4->231.2: C29 Methylsteranes					
D293MbaSA	3β-Methyl-13β,17α-diaergostane 20S				
D293MbaSB	3β-Methyl-13β,17α-diaergostane 20S				
DC29UNK27	dia-C29 Unknown 27				
DC29UNK28	dia-C29 Unknown 28				
D293MbaRA	3β-Methyl-13β,17α-diaergostane 20R				
D293MbaRB	3β-Methyl-13β,17α-diaergostane 20R				
D294MbaSA	4α-Methyl-13β,17α-diaergostane 20S				
D294MbaSB	4α-Methyl-13β,17α-diaergostane 20S				
D294MbaRA	4α-Methyl-13β,17α-diaergostane 20R				
D294MbaRB	4α-Methyl-13β,17α-diaergostane 20R				
D294MabS	4α-Methyl-13α,17β-diaergostane 20S				
D294MabRA	4α-Methyl-13α,17β-diaergostane 20R				
S293MaaaSA_4abRB	3β-Methyl-5α,14α,17α-ergostane 20S + 4a-methyl-13a,17b-diaergostane 20R				
S293MaaaSB	3β-Methyl-5α,14α,17α-ergostane 20S				
S293MabbR	3β-Methyl-5α,14β,17β-ergostane 20R				
S293MabbS	3β-Methyl-5α,14β,17β-ergostane 20S				
S294MaaaSA	4α-Methyl-5α,14α,17α-ergostane 20S				
S294MaaaSB	4α-Methyl-5α,14α,17α-ergostane 20S				
S294MabbR	4α-Methyl-5α,14β,17β-ergostane 20R				
S294MabbS_3MaaaR	4α-Methyl-5α,14β,17β-ergostane 20S + 3b-Methyl-5a,14a,17a-ergostane 20R				
S294MaaaR	4α-Methyl-5α,14α,17α-ergostane 20R	65.795	69674		
XS29aaaR	5α,14α,17α-stigmastane 20R	66.220	35932		
414.4->231.2: C30 Methylsteranes					
S302MaaaS	2α-Methyl-5α,14α,17α-stigmastane 20S	65.263	9229		
S303MaaaS	3β-Methyl-5α,14α,17α-stigmastane 20S + (coelution)	65.689	37160		
S302MabbR	2α-Methyl-5α,14β,17β-stigmastane 20S + (coelution)	65.928	15384		
S302MabbS	2α-Methyl-5α,14β,17β-stigmastane 20S	66.034	9238		
S303MabbR	3β-Methyl-5α,14β,17β-stigmastane 20R	66.353	51069		
BBDINO	ββ-dino (?)				
S303MabbS	3b-Methyl-5a,14b,17b-stigmastane 20S + (coelution)	66.539	39164		
S304MaaaS	4α-Methyl-5α,14α,17α-stigmastane 20S	66.832	32134		
S304MabbR	4α-Methyl-5α,14β,17β-stigmastane 20R	67.310	21424		
S304MabbS_2MaaaR	4α-Methyl-5α,14β,17β-stigmastane 20S + 2α-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.496	51979		
S303MaaaR	3β-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.709	63660		
DS4aSS20R	4α,23S,24S-trimethyl-20R-cholestane	68.108	21316		
DS4aSR20R	4α,23S,24R-trimethyl-20R-cholestane	68.507	13039		
S304MaaaR	4α-Methyl-5α,14α,17α-stigmastane 20R	68.799	59158		
DS4aRR20R	4α,23R,24R-trimethyl-20R-cholestane	68.879	13079		
DS4aRS20R	4α,23R,24S-trimethyl-20R-cholestane	69.171	17220		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275208**
Top Depth:	**9660 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9680 FT**	**File Name:**	**MS040409.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
414.4->259.2: Tetracyclic polyprenoids and C30 3βpropylsteranes					
S303PaaaS	3β-Propyl-5α,14α,17α-cholestane 20S				
PP1	Tetracyclic polyprenoid				
PP2_S303PabbR	Tetracyclic polyprenoid+ 3β-propyl-5α,14β,17β-cholestane 20R				
S303PabbS	3β-Propyl-5α,14β,17β-cholestane 20S				
S303PaaaR	3β-Propyl-5α,14α,17α-cholestane 20R				
414.2->191.2: Pentacyclic Triterpenoids					
REARNGHOP	Rearranged hopane				
OLEANOID13	5(4→3)abeo-3α(H), 5β-Oleanane	64.546	43971		
TRITERP14	C30 unknown triterpane				
OLEANOID15A	Oleanoid				
OLEANOID15	Oleanoid				
OLEANOID16	Oleanoid	65.476	45510		
C30UNKT2	5(4→3)abeo-3β(H)-Oleanane	65.848	31264		
OLEANOID17	3β-methyl-24-nor-1(10→5)abeo-10β(H), 18α-oleanane				
TRITERP17A	C30 plant terpane				
DH30	Diahopane	66.885	71140		
TRITERP18	C30 unknown triterpane				
OL18a	18α Oleanane	68.453	146698		
OL18b	18β Oleanane	68.560	102877		
H30ab	17α, 21β-Hopane	68.852	1250139		
NOR30HOP	30-Norhomohopane				
C30TS	18α,17β-Neohopane				
C30UNK9	17α, 21α-Hopane				
M30	17β, 21α-Hopane (Moretane)				
GamA	Gammacerane-A	72.681	51913		
GamB	Gammacerane-B	72.840	15548		
414.2->313.3: Bicadinanes					
B30W	Bicadinane W (*cis,cis,trans*)				
B30T	Bicadinane T (*trans, trans,trans*)				
B30T1	Bicadinane T1				
B30R	Bicadinane R				
274.3->203.2: Norpregnanes					
NORPREG1	Norpregnane-1				
NORPREG2	Norpregnane-2				
NORPREG3_4	Norpregnane-3+Norpregnane-4				
NORPREG5	Norpregnane-5				
NORPREG6	Norpregnane-6				
NORPREG7	Norpregnane-7				
NORPREG8_9	Norpregnane-8+Norpregnane-9				
NORPREG10	Norpregnane-10				
NORPREG11	Norpregnane-11				
NORPREG12	Norpregnane-12				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Lab ID:**	**CP275208**
Top Depth:	**9660 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**9680 FT**	**File Name:**	**MS040409.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->191.2: Tetracyclics					
DesAOL	Des-A-Oleanane	43.545	278584		
DesALUP	Des-A-Lupane	43.705	79220		
DesATARAX	Des-A-Taraxastane	46.868	105624		
DesEHOP	Des-E-Hopane	48.277	310472		
410.4->218.2: Monounsaturated C30 Pentacyclic Triterpenoids					
Bicadinene	Bicadinene				
OL1318ene	Olean-13(18)-ene	65.928	144973		
OL12ene	Olean-12-ene	66.300	18290		
OL18ene	Olean-18-ene	66.539	29610		
OL12ene18a	18α-Olean-12-ene	67.656	26888		
Unk_Peak1	Unknown peak 1				
426.4->205.2: C31 Pentacyclic Triterpenoids					
H312Mab	C31 2a-Methylhopane	69.145	51395		
H31abS	C31 22S 2α-Methylhopane	72.096	84037		
H31abR	C31 22R 2α-Methylhopane	72.468	75896		
H313Mab	C31 3β-Methylhopane	72.893	35977		

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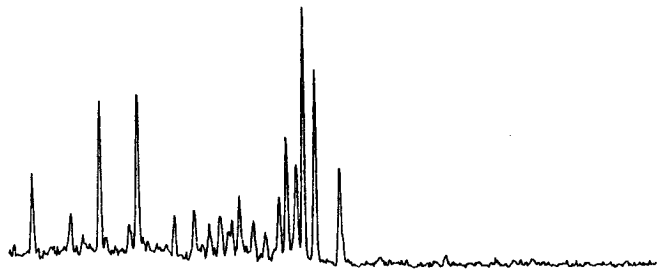
ANALYTICAL LABORATORIES

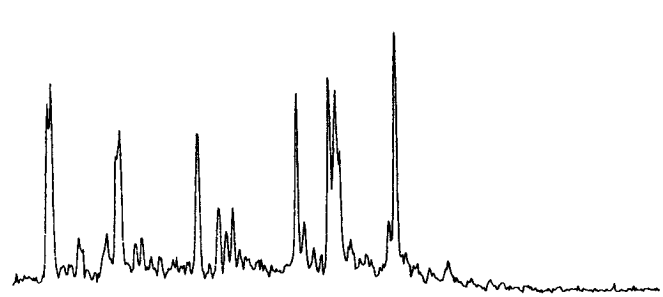
SATURATE GCMSMS

Company:	**CONOCOPHILLIPS**	**Project #:**	**04-501-A**	
Country:	**UNITED STATES**	**Lab ID:**	**CP275211**	
Basin:		**Client ID:**	**US135732**	
Lease:	**PEARD #1**	**Sample Type:**	**CORE**	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	**PEARD #1**	**Geologic Age:**		
Latitude:	**70.7156**	**Top Depth:**	**9507.2**	**FT**
Longitude:	**-159.001**	**Bottom Depth:**		**FT**

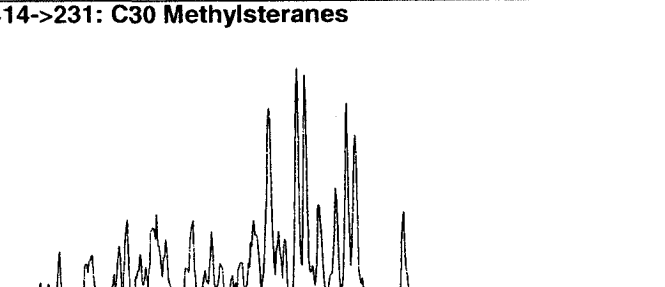
358->217: C26 Steranes MS040410.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	32.2	D	
%28 Steranes	27.5	D	
%29 Steranes	40.3	D	
%27 Diasteranes	37.6	D	
%28 Diasteranes	27.8	D	
%29 Diasteranes	34.6	D	
C30 Sterane Index	0.09	D	
C30 iso/n-propyl sterane Index	0.13	A	
C27 αββ/(ααα+αββ)	0.61	M	
C28 αββ/(ααα+αββ)	0.66	M	
C29 αββ/(ααα+αββ)	0.61	M	
C30 αββ/(ααα+αββ)	0.59	M	
C27 S/(S+R)	0.46	M	
C28 S/(S+R)	0.42	M	
C29 S/(S+R)	0.53	M	
C30 S/(S+R)	0.36	M	
Diasteranes/Steranes	0.76		
24-Nordiacholestane ratio (NDR)	0.29	A	
24-Norcholestane ratio (NCR)	0.27	A	
21-Norcholestane ratio	0.13	D/M	
Dinosterane ratio		A	
4-Methyl sterane ratio	0.10	A	
Terpane Ratios			
Oleanane Index (%)		A	
DesA Oleanane Index (%)	23.2	A	
Gammacerane Index (%)	1.8	D	
Bicadinane Index (%)		A/D	
DiaHopane Index (%)	2.8	D	
TPP	0.10	D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Lab ID:**	**CP275211**
Top Depth:	**9507.2 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040410.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3–>217.2: Internal Standard					
ISTD	5β-Cholane	47.545	4715801	100.0	100.0
358.3–>217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.662	52214	1.1	1.1
D26N24baR	13β,17α,24-nordiacholestane 20R	49.752	35870	0.8	0.8
D26N27baS	13β,17α,27-nordiacholestane 20S	50.577	102372	2.2	2.2
D26N24abS	13α,17β,24-nordiacholestane 20S	50.736	13658	0.3	0.3
D26N24abR	13α,17β,24-nordiacholestane 20R	51.401	29163	0.6	0.6
D26N27baR	13β,17α,27-nordiacholestane 20R	51.614	117201	2.5	2.5
D26N27abS	13α,17β,27-nordiacholestane 20S	52.651	29790	0.6	0.6
D26N27abR	13α,17β,27-nordiacholestane 20R	53.209	39361	0.8	0.8
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.246	23802	0.5	0.5
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.459	54457	1.2	1.2
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.831	34285	0.7	0.7
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.522	49366	1.0	1.0
S26N21	21-norcholestane	55.709	86773	1.8	1.8
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.921	14811	0.3	0.3
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	56.001	81657	1.7	1.7
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.187	146236	3.1	3.1
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.506	118909	2.5	
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.171	80305	1.7	
372.3–>217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.651	945546	20.1	16.3
D27baR	13β,17α-diacholestane 20R	53.954	621316	13.2	13.9
D27abS	13α,17β-diacholestane 20S	54.911	203757	4.3	2.9
D27abR	13α,17β-diacholestane 20R	55.602	303956	6.4	6.9
S27aaaS	5α,14α,17α-cholestane 20S	58.235	393629	8.3	6.1
S27abbR	5α,14β,17β-cholestane 20R	58.554	360042	7.6	9.5
S27abbS	5α,14β,17β-cholestane 20S	58.846	411086	8.7	11.2
S27aaaR	5α,14α,17α-cholestane 20R	59.618	404740	8.6	7.1
386.4–>217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.762	328081	7.0	6.1
D28baSB	13β,17α-diaergostane 20S (24S)	55.975	349411	7.4	6.6
D28baRA	13β,17α-diaergostane 20R (24R)	57.224	214810	4.6	3.6
D28baRB	13β,17α-diaergostane 20R (24R)	57.357	298491	6.3	6.0
D28abS	13α,17β-diaergostane 20S	58.128	184929	3.9	3.9
D28abRA	13α,17β-diaergostane 20R	59.006	124473	2.6	2.6
D28abRB	13α,17β-diaergostane 20R	59.112	109167	2.3	2.3
C28UNK9	C28 Unknown 9	59.883	163093	3.5	3.5
S28aaaSA	5α,14α,17α-ergostane 20S	61.585	98232	2.1	2.0
S28aaaSB	5α,14α,17α-ergostane 20S	61.692	116130	2.5	2.2
S28baaR	5β,14α,17α-ergostane 20R				
S28abbR	5α,14β,17β-ergostane 20R	62.064	366047	7.8	10.3
S28abbS	5α,14β,17β-ergostane 20S	62.356	309323	6.6	8
S28N21	21-norstigmastane	62.808	102195	2.2	2
S28aaaR	5α,14α,17α-ergostane 20R	63.314	289143	6.1	5.8

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Lab ID:**	**CP275211**
Top Depth:	**9507.2 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040410.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>217.2: C29 Desmethylsteranes					
D29baS	13β,17α-diastigmastane 20S	58.607	814451	17.3	13.9
D29baR	13β,17α-diastigmastane 20R	60.149	682654	14.5	13.8
D29abS	13α,17β-diastigmastane 20S	60.761	206849	4.4	4.4
D29abR	13α,17β-diastigmastane 20R	61.958	312176	6.6	6.6
C29UNK5	C29 Unknown 5	62.675	302910	6.4	6.4
S29aaaS	5α,14α,17α-stigmastane 20S	64.351	451402	9.6	8.7
S29abbR	5α,14β,17β-stigmastane 20R	64.936	494609	10.5	13.2
S29baaR	5β,14α,17α-stigmastane 20R				
S29abbS	5α,14β,17β-stigmastane 20S	65.148	550731	11.7	12.7
S29aaaR	5α,14α,17α-stigmastane 20R	66.372	472680	10.0	7.7
414.4–>217.2: C30 Desmethylsteranes					
D30nPbaSA	13β,17α-dia-24-n-propylcholestane 20S	60.841	76117	1.6	1.6
D30nPbaSB	13β,17α-dia-24-n-propylcholestane 20S	60.920	84456	1.8	1.3
D30nPbaR	13β,17α-dia-24-n-propylcholestane 20R	62.543	121862	2.6	2.8
D30nPabSA	13α,17β-dia-24-n-propylcholestane 20S	62.888	20549	0.4	0.4
D30nPabSB	13α,17β-dia-24-n-propylcholestane 20S	63.021	21333	0.5	0.5
D30nPabR	13α,17β-dia-24-n-propylcholestane 20R	64.324	76966	1.6	1.6
DC30UNK7	dia-C30 Unknown 7	64.803	41939	0.9	0.9
DC30UNK8	dia-C30 Unknown 8	64.989	24151	0.5	0.5
DC30UNK8A	dia-C30 Unknown 8A	65.148	31830	0.7	0.7
S30nPaaaS	5α,14α,17α-24-n-propylcholestane 20S	66.611	84497	1.8	1.6
C30UNK10	C30 Unknown 10	66.770	28222	0.6	0.6
S30iPaaaS	5α,14α,17α-24-iso-propylcholestane 20S	66.983	15186	0.3	0.3
S30nPabbR	5α,14β,17β-24-n-propylcholestane 20R	67.329	97946	2.1	2.7
S30nPabbS	5α,14β,17β-24-n-propylcholestane 20S	67.488	110671	2.3	3.4
S30nPbaaR	5β,14α,17α-24-n-propylcholestane 20R	67.595	39712	0.8	0.8
S30iPabbR	5α,14β,17β-24-iso-propylcholestane 20R	67.834	25239	0.5	0.5
S30nPaaaR	5α,14α,17α-24-n-propylcholestane 20R	68.871	122211	2.6	2.8
C30UNK14	C30 Unknown 14	69.031	5533	0.1	0.1
S30iPaaaR	5α,14α,17α-24-iso-propylcholestane 20R	69.111	14568	0.3	0.3
C30UNK16	C30 Unknown 16	70.068	18809	0.399	0.399
386.4–>231.2: C28 Methylsteranes					
D283MbaS	3β-Methyl-13β,17α-diacholestane 20S	54.166	32669	0.7	0.7
DC28UNK16	dia-C28 Unknown 16	54.937	17854	0.4	0.4
D283MbaR	3β-Methyl-13β,17α-diacholestane 20R	55.522	26352	0.6	0.6
DC28UNK3	dia-C28 Unknown 3	55.709	17406	0.4	0.4
DC28UNK17	dia-C28 Unknown 17				
D284MbaS	4α-Methyl-13β,17α-diacholestane 20S	56.719	85111	1.8	1.8
D284MbaR	4α-Methyl-13β,17α-diacholestane 20R	58.022	30093	0.6	0.6
S283MaaaS	3β-Methyl-5α,14α,17α-cholestane 20S	59.777	63296	1.3	1.3
S283MabbR	3β-Methyl-5α,14β,17β-cholestane 20R	60.149	65058	1.4	1.4
S283MabbS	3β-Methyl-5α,14β,17β-cholestane 20S	60.415	68800	1.5	1.5
S284MaaaS	4α-Methyl-5α,14α,17α-cholestane 20S	60.947	61301	1.3	1.3
S284MabbR	4α-Methyl-5α,14β,17β-cholestane 20R	61.107	54413	1.2	1.2
S283MaaaR	3β-Methyl-5α,14α,17α-cholestane 20R	61.160	49804	1.1	1.1
S284MabbS	4α-Methyl-5α,14β,17β-cholestane 20S	61.399	50041	1.1	1.1
S284MaaaR	4α-Methyl-5α,14α,17α-cholestane 20R	62.303	50419	1.1	1.1
XS28aaaR	5α,14α,17α-ergostane 20R	63.340	14785	0.3	0.3

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Lab ID:**	**CP275211**
Top Depth:	**9507.2 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040410.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>231.2: C29 Methylsteranes					
D293MbaSA	3β-Methyl-13β,17α-diaergostane 20S	57.171	14873	0.3	0.3
D293MbaSB	3β-Methyl-13β,17α-diaergostane 20S	57.437	15623	0.3	0.3
DC29UNK27	dia-C29 Unknown 27	57.942	11124	0.2	0.2
DC29UNK28	dia-C29 Unknown 28	58.208	8813	0.2	0.2
D293MbaRA	3β-Methyl-13β,17α-diaergostane 20R	58.740	14556	0.3	0.3
D293MbaRB	3β-Methyl-13β,17α-diaergostane 20R	58.900	14620	0.3	0.3
D294MbaSA	4α-Methyl-13β,17α-diaergostane 20S	59.777	26066	0.6	0.6
D294MbaSB	4α-Methyl-13β,17α-diaergostane 20S	59.963	29014	0.6	0.6
D294MbaRA	4α-Methyl-13β,17α-diaergostane 20R	61.213	16952	0.4	0.4
D294MbaRB	4α-Methyl-13β,17α-diaergostane 20R	61.346	18302	0.4	0.4
D294MabS	4α-Methyl-13α,17β-diaergostane 20S	62.117	21605	0.5	0.5
D294MabRA	4α-Methyl-13α,17β-diaergostane 20R	62.915	10002	0.2	0.2
S293MaaaSA_4abRB	3β-Methyl-5α,14α,17α-ergostane 20S + 4a-methyl-13a,17b-diaergostane 20R	63.074	36144	0.8	0.8
S293MaaaSB	3β-Methyl-5α,14α,17α-ergostane 20S	63.181	25841	0.5	0.5
S293MabbR	3β-Methyl-5α,14β,17β-ergostane 20R	63.633	34374	0.7	0.7
S293MabbS	3β-Methyl-5α,14β,17β-ergostane 20S	63.872	42721	0.9	0.9
S294MaaaSA	4α-Methyl-5α,14α,17α-ergostane 20S	64.191	24520	0.5	0.5
S294MaaaSB	4α-Methyl-5α,14α,17α-ergostane 20S	64.351	42191	0.9	0.9
S294MabbR	4α-Methyl-5α,14β,17β-ergostane 20R	64.537	54977	1.2	1
S294MabbS_3MaaaR	4α-Methyl-5α,14β,17β-ergostane 20S + 3b-Methyl-5a,14a,17a-ergostane 20R	64.829	78957	1.7	
S294MaaaR	4α-Methyl-5α,14α,17α-ergostane 20R	65.946	38061	0.8	0.8
XS29aaaR	5α,14α,17α-stigmastane 20R	66.372	23655	0.5	0.5
414.4–>231.2: C30 Methylsteranes					
S302MaaaS	2α-Methyl-5α,14α,17α-stigmastane 20S	65.388	22288	0.5	0.5
S303MaaaS	3β-Methyl-5α,14α,17α-stigmastane 20S + (coelution)	65.813	100844	2.1	2.1
S302MabbR	2α-Methyl-5α,14β,17β-stigmastane 20S + (coelution)	66.026	29068	0.6	0.6
S302MabbS	2α-Methyl-5α,14β,17β-stigmastane 20S	66.159	21069	0.4	0.4
S303MabbR	3β-Methyl-5α,14β,17β-stigmastane 20R	66.451	89061	1.9	1.9
BBDINO	ββ-dino (?)				
S303MabbS	3b-Methyl-5a,14b,17b-stigmastane 20S + (coelution)	66.638	78442	1.7	1.7
S304MaaaS	4α-Methyl-5α,14α,17α-stigmastane 20S	66.957	47313	1.0	1.0
S304MabbR	4α-Methyl-5α,14β,17β-stigmastane 20R	67.329	46839	1.0	1.0
S304MabbS_2MaaaR	4α-Methyl-5α,14β,17β-stigmastane 20S + 2α-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.595	77529	1.6	1.6
S303MaaaR	3β-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.781	76522	1.6	1.6
DS4aSS20R	4α,23S,24S-trimethyl-20R-cholestane				
DS4aSR20R	4α,23S,24R-trimethyl-20R-cholestane				
S304MaaaR	4α-Methyl-5α,14α,17α-stigmastane 20R	68.898	41054	0.9	0.9
DS4aRR20R	4α,23R,24R-trimethyl-20R-cholestane				
DS4aRS20R	4α,23R,24S-trimethyl-20R-cholestane				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Lab ID:**	**CP275211**
Top Depth:	**9507.2 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040410.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
414.4–>259.2: Tetracyclic polyprenoids and C30 3βpropylsteranes					
S303PaaaS	3β-Propyl-5α,14α,17α-cholestane 20S	67.728	12371	0.3	0.3
PP1	Tetracyclic polyprenoid	67.834	36789	0.8	0.8
PP2_S303PabbR	Tetracyclic polyprenoid+ 3β-propyl-5α,14β,17β-cholestane 20R	67.994	48435	1.0	1.0
S303PabbS	3β-Propyl-5α,14β,17β-cholestane 20S	68.313	15866	0.3	0.3
S303PaaaR	3β-Propyl-5α,14α,17α-cholestane 20R	69.057	17634	0.4	0.4
414.2–>191.2: Pentacyclic Triterpenoids					
REARNGHOP	Rearranged hopane	61.426	30714	0.7	0.7
OLEANOID13	5(4→3)abeo-3α(H), 5β-Oleanane				
TRITERP14	C30 unknown triterpane				
OLEANOID15A	Oleanoid				
OLEANOID15	Oleanoid				
OLEANOID16	Oleanoid				
C30UNKT2	5(4→3)abeo-3β(H)-Oleanane	65.973	96229	2.0	2.0
OLEANOID17	3β-methyl-24-nor-1(10→5)abeo-10β(H), 18α-oleanane				
TRITERP17A	C30 plant terpane				
DH30	Diahopane	66.983	175255	3.7	3.7
TRITERP18	C30 unknown triterpane				
OL18a	18α Oleanane				
OL18b	18β Oleanane				
H30ab	17α, 21β-Hopane	68.951	4725312	100.2	130.5
H30N30	30-Norhomohopane	69.244	497914	10.6	10.6
H30TS	18α,17β-Neohopane	69.589	624194	13.2	13.2
H30aa	17α, 21α-Hopane	69.855	153111	3.2	3.2
H30ba	17β, 21α-Hopane (Moretane)	70.148	236200	5.0	9.1
GamA	Gammacerane-A	72.781	391318	8.3	2.2
GamB	Gammacerane-B	72.993	40433	0.9	0.2
414.2–>313.3: Bicadinanes					
B30W	Bicadinane W (*cis,cis,trans*)				
B30T	Bicadinane T (*trans, trans,trans*)				
B30T1	Bicadinane T1				
B30R	Bicadinane R				
274.3–>203.2: Norpregnanes					
NORPREG1	Norpregnane-1				
NORPREG2	Norpregnane-2				
NORPREG3_4	Norpregnane-3+Norpregnane-4	28.506	67231	1.4	1.4
NORPREG5	Norpregnane-5	28.745	17585	0.4	0.4
NORPREG6	Norpregnane-6	29.038	55428	1.2	1.2
NORPREG7	Norpregnane-7	29.570	29640	0.6	0.6
NORPREG8_9	Norpregnane-8+Norpregnane-9	30.075	123798	2.6	2.6
NORPREG10	Norpregnane-10	30.314	48875	1.0	1.0
NORPREG11	Norpregnane-11	31.032	55718	1.2	1.2
NORPREG12	Norpregnane-12				

Company:	**CONOCOPHILLIPS**			**Client ID:**	**US135732**
Well Name:	**PEARD #1**			**Lab ID:**	**CP275211**
Top Depth:	**9507.2**	**FT**		**Fraction:**	**SATURATE**
Bottom Depth:		**FT**		**File Name:**	**MS040410.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**				

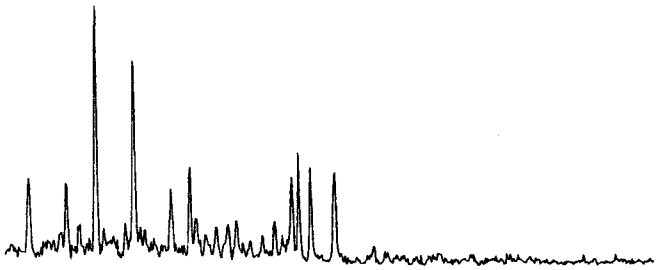
Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->191.2: Tetracyclics					
DesAOL	Des-A-Oleanane	43.636	173573	3.7	3.7
DesALUP	Des-A-Lupane	43.769	32326	0.7	0.7
DesATARAX	Des-A-Taraxastane	46.987	174204	3.7	3.7
DesEHOP	Des-E-Hopane	48.370	573591	12.2	12.2
410.4->218.2: Monounsaturated C30 Pentacyclic Triterpenoids					
Bicadinene	Bicadinene				
OL1318ene	Olean-13(18)-ene				
OL12ene	Olean-12-ene				
OL18ene	Olean-18-ene				
OL12ene18a	18α-Olean-12-ene				
Unk_Peak1	Unknown peak 1				
426.4->205.2: C31 Pentacyclic Triterpenoids					
H312Mab	C31 2a-Methylhopane	69.217	89228	1.9	1.9
H31abS	C31 22S 2α-Methylhopane	72.196	539650	11.4	11.4
H31abR	C31 22R 2α-Methylhopane	72.568	428963	9.1	9.1
H313Mab	C31 3β-Methylhopane	72.993	134098	2.8	2.8

BASELINE DGSI ANALYTICAL LABORATORIES

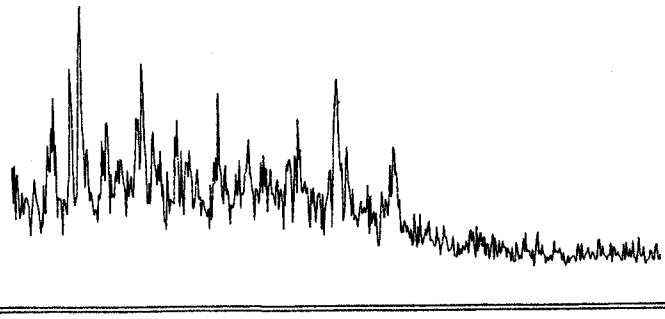
SATURATE GCMSMS

Company:	CONOCOPHILLIPS	**Project #:**	04-501-A	
Country:	UNITED STATES	**Lab ID:**	CP275212	
Basin:		**Client ID:**	US135733	
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE	
Block:		**Sampling Point:**		
Field:		**Formation:**		
Well Name:	EAST SIMPSON #2	**Geologic Age:**		
Latitude:	70.9785	**Top Depth:**	7202.5	FT
Longitude:	-154.674	**Bottom Depth:**		FT

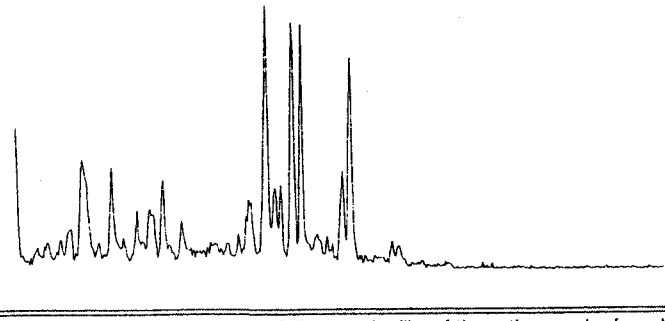
358->217: C26 Steranes MS040411.D



414->217: C30 Steranes



414->231: C30 Methylsteranes



RATIOS (on Area)[1]		Appl[2]	TEV[3]
Steranes			
%27 Steranes	6.4	D	
%28 Steranes	39.6	D	
%29 Steranes	54.0	D	
%27 Diasteranes	7.8	D	
%28 Diasteranes	37.0	D	
%29 Diasteranes	55.2	D	
C30 Sterane Index		D	
C30 iso/n-propyl sterane Index		A	
C27 αββ/(ααα+αββ)	0.61	M	
C28 αββ/(ααα+αββ)	0.64	M	
C29 αββ/(ααα+αββ)	0.59	M	
C30 αββ/(ααα+αββ)		M	
C27 S/(S+R)	0.39	M	
C28 S/(S+R)	0.48	M	
C29 S/(S+R)	0.54	M	
C30 S/(S+R)		M	
Diasteranes/Steranes	0.66		
24-Nordiacholestane ratio (NDR)	0.28	A	
24-Norcholestane ratio (NCR)	0.31	A	
21-Norcholestane ratio	0.05	D/M	
Dinosterane ratio		A	
4-Methyl sterane ratio		A	
Terpane Ratios			
Oleanane Index (%)		A	
DesA Oleanane Index (%)	2.8	A	
Gammacerane Index (%)	0.3	D	
Bicadinane Index (%)		A/D	
DiaHopane Index (%)	6.8	D	
TPP	0.07	D	

[1]On response factored areas. Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Lab ID:**	**CP275212**
Top Depth:	**7202.5 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040411.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3–>217.2: Internal Standard					
ISTD	5β-Cholane	47.559	126456	100.0	100.0
358.3–>217.2: C26 Desmethylsteranes					
D26N24baS	13β,17α,24-nordiacholestane 20S	48.676	3292	2.6	2.6
D26N24baR	13β,17α,24-nordiacholestane 20R	49.739	2563	2.0	2.0
D26N27baS	13β,17α,27-nordiacholestane 20S	50.590	7632	6.0	6.0
D26N24abS	13α,17β,24-nordiacholestane 20S	50.802	1163	0.9	0.9
D26N24abR	13α,17β,24-nordiacholestane 20R	51.387	1010	0.8	0.8
D26N27baR	13β,17α,27-nordiacholestane 20R	51.626	7241	5.7	5.7
D26N27abS	13α,17β,27-nordiacholestane 20S	52.663	2440	1.9	1.9
D26N27abR	13α,17β,27-nordiacholestane 20R	53.221	2818	2.2	2.2
S26N24aaaS	5α,14α,17α,24-norcholestane 20S	54.258	1222	1.0	1.0
S26N24abbR	5α,14β,17β,24-norcholestane 20R	54.497	1940	1.5	1.5
S26N24abbS	5α,14β,17β,24-norcholestane 20S	54.870	877	0.7	0.7
S26N24aaaR	5α,14α,17α,24-norcholestane 20R	55.534	1405	1.1	1.1
S26N21	21-norcholestane	55.747	1014	0.8	0.8
S26N27baaR	5β,14α,17α,27-norcholestane 20S	55.880	359	0.3	0.3
S26N27aaaS	5α,14α,17α,27-norcholestane 20S	56.013	2991	2.4	2.4
S26N27abbR	5α,14β,17β,27-norcholestane 20R	56.199	2853	2.3	2.3
S26N27abbS	5α,14β,17β,27-norcholestane 20S	56.518	2868	2.3	?
S26N27aaaR	5α,14α,17α,27-norcholestane 20R	57.209	3482	2.8	.
372.3–>217.2: C27 Desmethylsteranes					
D27baS	13β,17α-diacholestane 20S	52.663	19236	15.2	13.7
D27baR	13β,17α-diacholestane 20R	53.992	12541	9.9	11.2
D27abS	13α,17β-diacholestane 20S	54.949	3994	3.2	2.4
D27abR	13α,17β-diacholestane 20R	55.614	5404	4.3	4.9
S27aaaS	5α,14α,17α-cholestane 20S	58.272	7126	5.6	4.7
S27abbR	5α,14β,17β-cholestane 20R	58.591	7400	5.9	8.2
S27abbS	5α,14β,17β-cholestane 20S	58.884	8627	6.8	10.4
S27aaaR	5α,14α,17α-cholestane 20R	59.655	9503	7.5	7.3
386.4–>217.2: C28 Desmethylsteranes					
D28baSA	13β,17α-diaergostane 20S (24S)	55.800	40997	32.4	31.3
D28baSB	13β,17α-diaergostane 20S (24S)	55.986	42869	33.9	31.5
D28baRA	13β,17α-diaergostane 20R (24R)	57.235	32225	25.5	23.0
D28baRB	13β,17α-diaergostane 20R (24R)	57.368	36508	28.9	31.5
D28abS	13α,17β-diaergostane 20S	58.139	23681	18.7	18.7
D28abRA	13α,17β-diaergostane 20R	59.043	18848	14.9	14.9
D28abRB	13α,17β-diaergostane 20R	59.149	13808	10.9	10.9
C28UNK9	C28 Unknown 9	59.920	21539	17.0	17.0
S28aaaSA	5α,14α,17α-ergostane 20S	61.595	17990	14.2	15.9
S28aaaSB	5α,14α,17α-ergostane 20S	61.728	19523	15.4	16.8
S28baaR	5β,14α,17α-ergostane 20R				
S28abbR	5α,14β,17β-ergostane 20R	62.074	51285	40.6	65.9
S28abbS	5α,14β,17β-ergostane 20S	62.393	43032	34.0	54.[illegible]
S28N21	21-norstigmastane	62.818	3997	3.2	3
S28aaaR	5α,14α,17α-ergostane 20R	63.350	40189	31.8	35.7

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Lab ID:**	**CP275212**
Top Depth:	**7202.5 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040411.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>217.2: C29 Desmethylsteranes					
D29baS	13β,17α-diastigmastane 20S	58.644	121146	95.8	87.9
D29baR	13β,17α-diastigmastane 20R	60.160	101467	80.2	87.5
D29abS	13α,17β-diastigmastane 20S	60.798	38698	30.6	30.6
D29abR	13α,17β-diastigmastane 20R	61.967	48059	38.0	38.0
C29UNK5	C29 Unknown 5	62.712	48322	38.2	38.2
S29aaaS	5α,14α,17α-stigmastane 20S	64.386	68701	54.3	56.2
S29abbR	5α,14β,17β-stigmastane 20R	64.998	78246	61.9	92.9
S29baaR	5β,14α,17α-stigmastane 20R				
S29abbS	5α,14β,17β-stigmastane 20S	65.184	61629	48.7	60.0
S29aaaR	5α,14α,17α-stigmastane 20R	66.380	69225	54.7	48.7
414.4–>217.2: C30 Desmethylsteranes					
D30nPbaSA	13β,17α-dia-24-n-propylcholestane 20S	60.851	510	0.4	0.4
D30nPbaSB	13β,17α-dia-24-n-propylcholestane 20S	60.984	903	0.7	0.8
D30nPbaR	13β,17α-dia-24-n-propylcholestane 20R	62.552	955	0.8	1.0
D30nPabSA	13α,17β-dia-24-n-propylcholestane 20S	62.924	931	0.7	0.7
D30nPabSB	13α,17β-dia-24-n-propylcholestane 20S	63.057	1045	0.8	0.8
D30nPabR	13α,17β-dia-24-n-propylcholestane 20R	64.360	445	0.4	0.4
DC30UNK7	dia-C30 Unknown 7				
DC30UNK8	dia-C30 Unknown 8				
DC30UNK8A	dia-C30 Unknown 8A				
S30nPaaaS	5α,14α,17α-24-n-propylcholestane 20S				
C30UNK10	C30 Unknown 10				
S30iPaaaS	5α,14α,17α-24-iso-propylcholestane 20S				
S30nPabbR	5α,14β,17β-24-n-propylcholestane 20R				
S30nPabbS	5α,14β,17β-24-n-propylcholestane 20S				
S30nPbaaR	5β,14α,17α-24-n-propylcholestane 20R				
S30iPabbR	5α,14β,17β-24-iso-propylcholestane 20R				
S30nPaaaR	5α,14α,17α-24-n-propylcholestane 20R				
C30UNK14	C30 Unknown 14				
S30iPaaaR	5α,14α,17α-24-iso-propylcholestane 20R				
C30UNK16	C30 Unknown 16				
386.4–>231.2: C28 Methylsteranes					
D283MbaS	3β-Methyl-13β,17α-diacholestane 20S	54.205	1458	1.2	1.2
DC28UNK16	dia-C28 Unknown 16				
D283MbaR	3β-Methyl-13β,17α-diacholestane 20R	55.534	1413	1.1	1.1
DC28UNK3	dia-C28 Unknown 3				
DC28UNK17	dia-C28 Unknown 17				
D284MbaS	4α-Methyl-13β,17α-diacholestane 20S	56.730	1539	1.2	1.2
D284MbaR	4α-Methyl-13β,17α-diacholestane 20R	58.033	746	0.6	0.6
S283MaaaS	3β-Methyl-5α,14α,17α-cholestane 20S	59.814	1809	1.4	1.4
S283MabbR	3β-Methyl-5α,14β,17β-cholestane 20R	60.186	1324	1.0	1.0
S283MabbS	3β-Methyl-5α,14β,17β-cholestane 20S	60.452	2367	1.9	1.9
S284MaaaS	4α-Methyl-5α,14α,17α-cholestane 20S	61.010	1313	1.0	1.0
S284MabbR	4α-Methyl-5α,14β,17β-cholestane 20R	61.196	1183	0.9	0.9
S283MaaaR	3β-Methyl-5α,14α,17α-cholestane 20R	61.223	742	0.6	0.6
S284MabbS	4α-Methyl-5α,14β,17β-cholestane 20S	61.409	667	0.5	0.5
S284MaaaR	4α-Methyl-5α,14α,17α-cholestane 20R	62.393	2257	1.8	1.8
XS28aaaR	5α,14α,17α-ergostane 20R	63.323	1743	1.4	1.4

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Lab ID:**	**CP275212**
Top Depth:	**7202.5 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040411.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
400.4–>231.2: C29 Methylsteranes					
D293MbaSA	3β-Methyl-13β,17α-diaergostane 20S	57.209	4302	3.4	3.4
D293MbaSB	3β-Methyl-13β,17α-diaergostane 20S	57.448	4074	3.2	3.2
DC29UNK27	dia-C29 Unknown 27				
DC29UNK28	dia-C29 Unknown 28				
D293MbaRA	3β-Methyl-13β,17α-diaergostane 20R	58.751	4173	3.3	3.3
D293MbaRB	3β-Methyl-13β,17α-diaergostane 20R	58.857	4201	3.3	3.3
D294MbaSA	4α-Methyl-13β,17α-diaergostane 20S	59.814	563	0.4	0.4
D294MbaSB	4α-Methyl-13β,17α-diaergostane 20S	59.974	708	0.6	0.6
D294MbaRA	4α-Methyl-13β,17α-diaergostane 20R	61.223	644	0.5	0.5
D294MbaRB	4α-Methyl-13β,17α-diaergostane 20R	61.356	807	0.6	0.6
D294MabS	4α-Methyl-13α,17β-diaergostane 20S	61.994	1483	1.2	1.2
D294MabRA	4α-Methyl-13α,17β-diaergostane 20R	62.977	1740	1.4	1.4
S293MaaaSA_4abRB	3β-Methyl-5α,14α,17α-ergostane 20S + 4a-methyl-13a,17b-diaergostane 20R	63.110	3193	2.5	2.5
S293MaaaSB	3β-Methyl-5α,14α,17α-ergostane 20S	63.243	5420	4.3	4.3
S293MabbR	3β-Methyl-5α,14β,17β-ergostane 20R	63.642	6034	4.8	4.8
S293MabbS	3β-Methyl-5α,14β,17β-ergostane 20S	63.908	6359	5.0	5.0
S294MaaaSA	4α-Methyl-5α,14α,17α-ergostane 20S	64.227	1104	0.9	0.9
S294MaaaSB	4α-Methyl-5α,14α,17α-ergostane 20S	64.386	3238	2.6	2.6
S294MabbR	4α-Methyl-5α,14β,17β-ergostane 20R	64.626	2450	1.9	
S294MabbS_3MaaaR	4α-Methyl-5α,14β,17β-ergostane 20S + 3b-Methyl-5a,14a,17a-ergostane 20R	64.812	8108	6.4	
S294MaaaR	4α-Methyl-5α,14α,17α-ergostane 20R	65.955	1483	1.2	1.2
XS29aaaR	5α,14α,17α-stigmastane 20R	66.380	2054	1.6	1.6
414.4–>231.2: C30 Methylsteranes					
S302MaaaS	2α-Methyl-5α,14α,17α-stigmastane 20S	65.396	1589	1.3	1.3
S303MaaaS	3β-Methyl-5α,14α,17α-stigmastane 20S + (coelution)	65.848	14726	11.6	11.6
S302MabbR	2α-Methyl-5α,14β,17β-stigmastane 20S + (coelution)	66.061	4640	3.7	3.7
S302MabbS	2α-Methyl-5α,14β,17β-stigmastane 20S	66.194	2826	2.2	2.2
S303MabbR	3β-Methyl-5α,14β,17β-stigmastane 20R	66.460	12937	10.2	10.2
BBDINO	ββ-dino (?)				
S303MabbS	3b-Methyl-5a,14b,17b-stigmastane 20S + (coelution)	66.672	11573	9.2	9.2
S304MaaaS	4α-Methyl-5α,14α,17α-stigmastane 20S				
S304MabbR	4α-Methyl-5α,14β,17β-stigmastane 20R				
S304MabbS_2MaaaR	4α-Methyl-5α,14β,17β-stigmastane 20S + 2α-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.629	5668	4.5	4.5
S303MaaaR	3β-Methyl-5α,14α,17α-stigmastane 20R + (coelution)	67.815	11996	9.5	9.5
DS4aSS20R	4α,23S,24S-trimethyl-20R-cholestane				
DS4aSR20R	4α,23S,24R-trimethyl-20R-cholestane				
S304MaaaR	4α-Methyl-5α,14α,17α-stigmastane 20R				
DS4aRR20R	4α,23R,24R-trimethyl-20R-cholestane				
DS4aRS20R	4α,23R,24S-trimethyl-20R-cholestane				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Lab ID:**	**CP275212**
Top Depth:	**7202.5 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040411.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
414.4–>259.2: Tetracyclic polyprenoids and C30 3βpropylsteranes					
S303PaaaS	3β-Propyl-5α,14α,17α-cholestane 20S				
PP1	Tetracyclic polyprenoid	67.842	941	0.7	0.7
PP2_S303PabbR	Tetracyclic polyprenoid+ 3β-propyl-5α,14β,17β-cholestane 20R	68.002	1298	1.0	1.0
S303PabbS	3β-Propyl-5α,14β,17β-cholestane 20S				
S303PaaaR	3β-Propyl-5α,14α,17α-cholestane 20R				
414.2–>191.2: Pentacyclic Triterpenoids					
REARNGHOP	Rearranged hopane	61.436	22064	17.4	17.4
OLEANOID13	5(4→3)abeo-3α(H), 5β-Oleanane				
TRITERP14	C30 unknown triterpane	64.865	6834	5.4	5.4
OLEANOID15A	Oleanoid				
OLEANOID15	Oleanoid				
OLEANOID16	Oleanoid				
C30UNKT2	5(4→3)abeo-3β(H)-Oleanane	66.008	51491	40.7	40.7
OLEANOID17	3β-methyl-24-nor-1(10→5)abeo-10β(H), 18α-oleanane				
TRITERP17A	C30 plant terpane				
DH30	Diahopane	66.991	81825	64.7	64.7
TRITERP18	C30 unknown triterpane				
OL18a	18α Oleanane				
OL18b	18β Oleanane				
H30ab	17α, 21β-Hopane	69.012	809858	640.4	883.1
H30N30	30-Norhomohopane	69.251	22323	17.7	17.7
H30TS	18α,17β-Neohopane	69.623	19786	15.6	15.6
H30aa	17α, 21α-Hopane	69.889	22655	17.9	17.9
H30ba	17β, 21α-Hopane (Moretane)	70.182	48161	38.1	74.2
GamA	Gammacerane-A	72.814	8682	6.9	2.1
GamB	Gammacerane-B	73.000	4945	3.9	1.0
414.2–>313.3: Bicadinanes					
B30W	Bicadinane W (*cis,cis,trans*)				
B30T	Bicadinane T (*trans, trans,trans*)				
B30T1	Bicadinane T1				
B30R	Bicadinane R				
274.3–>203.2: Norpregnanes					
NORPREG1	Norpregnane-1				
NORPREG2	Norpregnane-2				
NORPREG3_4	Norpregnane-3+Norpregnane-4				
NORPREG5	Norpregnane-5				
NORPREG6	Norpregnane-6				
NORPREG7	Norpregnane-7				
NORPREG8_9	Norpregnane-8+Norpregnane-9				
NORPREG10	Norpregnane-10				
NORPREG11	Norpregnane-11				
NORPREG12	Norpregnane-12				

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Lab ID:**	**CP275212**
Top Depth:	**7202.5 FT**	**Fraction:**	**SATURATE**
Bottom Depth:	**FT**	**File Name:**	**MS040411.D**
Acquisition Parameters:	**SAT 0.2UL 1000/1 RES 70EV 700UA 250C AR=4E-7MBAR CE=25**		

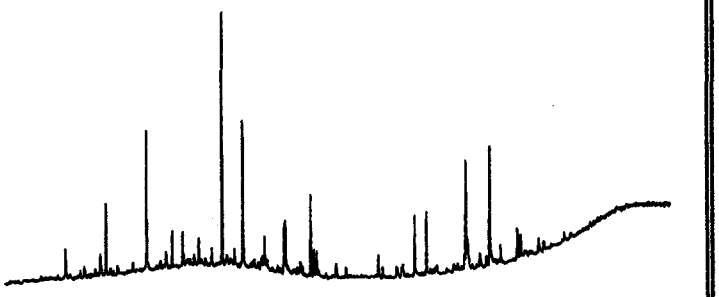
Peak Label	Compound	Retention Time	Area Count	Area ppm	Resp fact Area ppm
330.3->191.2: Tetracyclics					
DesAOL	Des-A-Oleanane	43.625	5618	4.4	4.4
DesALUP	Des-A-Lupane	43.731	4243	3.4	3.4
DesATARAX	Des-A-Taraxastane				
DesEHOP	Des-E-Hopane	48.357	198448	156.9	156.9
410.4->218.2: Monounsaturated C30 Pentacyclic Triterpenoids					
Bicadinene	Bicadinene				
OL1318ene	Olean-13(18)-ene				
OL12ene	Olean-12-ene				
OL18ene	Olean-18-ene				
OL12ene18a	18α-Olean-12-ene				
Unk_Peak1	Unknown peak 1				
426.4->205.2: C31 Pentacyclic Triterpenoids					
H312Mab	C31 2a-Methylhopane	69.251	20393	16.1	16.1
H31abS	C31 22S 2α-Methylhopane	72.229	78389	62.0	62.0
H31abR	C31 22R 2α-Methylhopane	72.574	51939	41.1	41.1
H313Mab	C31 3β-Methylhopane	73.000	26202	20.7	20.7

BASELINE DGSI
ANALYTICAL LABORATORIES

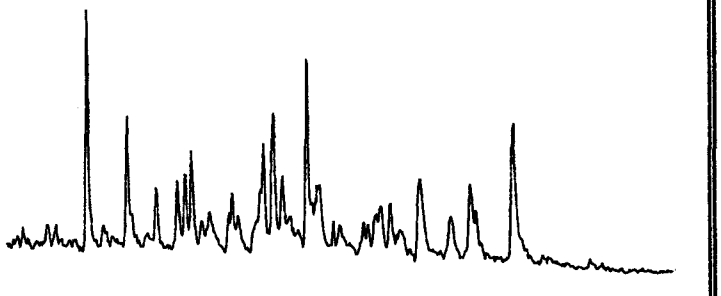
SATURATE GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135726
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275205
Lease:	IKPIKPUK #1	**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	IKPIKPUK #1	**Geologic Age:**	
Latitude:	69.8267	**Top Depth:**	11320 FT
Longitude:	-155.899	**Bottom Depth:**	11340 FT

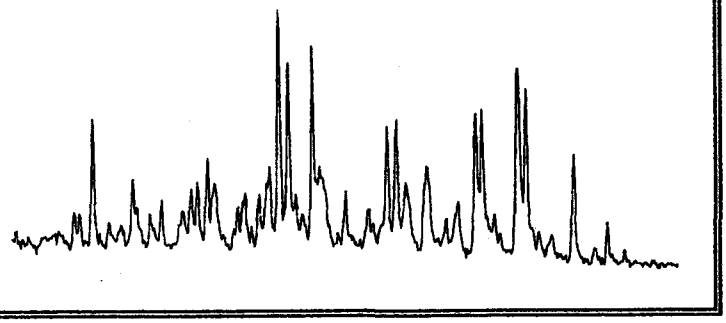
***m/z* 191: Tri- and Pentacyclics** M2041439.D



***m/z* 217: Steranes** M2041439.D



***m/z* 218: ββ Steranes** M2041439.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
%C_{27} αββS (218)	41.7	D	
%C_{28} αββS (218)	31.0	D	
%C_{29} αββS (218)	27.3	D	
%C_{27} αααR (217)	36.7	D	
%C_{28} αααR (217)	27.4	D	
%C_{29} αααR (217)	36.0	D	
S/(S+R) (C_{29} ααα) (217)	0.25	M	0.55 (0.8%)
ββS/(ββS+ααR) (C29) (217)	0.19	M	0.70 (0.9%)
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.58		
C_{27}/C_{29} (αββS) (218)	1.53	D	
C_{28}/C_{29} (αββS) (218)	1.13	D	
Diaster/ααα Ster (C_{27}) (217)	1.06	M/D	1.00 (1.4%)
C30 Sterane Index (218)		D	
Terpanes (*m/z* 191)			
Oleanane/Hopane	0.11	D/A	
Gammacerane/Hopane	0.06	D	
Norhopane/Hopane	0.86	D	
Bisnorhopane/Hopane	0.11		
Diahopane/Hopane	0.03	M/D	
Moretane/Hopane	0.14	M	0.05 (0.7%)
25-*nor*-hopane/hopane	0.07	B	
Ts/(Ts+Tm) trisnorhopanes	0.50	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.34	M	
H32 S/(R+S) Homohopanes	0.55	M	0.60 (0.6%)
H35/H34 Homohopanes	1.25	D	
C24 Tetracyclic/Hopane	0.55	D	
C24 Tetracyclic/C26 Tricyclics	1.35	D	
C23/C24 Tricyclic terpanes	1.68	D	
C19/C23 Tricyclic terpanes	0.16	D	
C26/C25 Tricyclic terpanes	0.56	D	
(C28+C29 Tricyclics)/Ts	1.02	A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.39	D	
Tricyclic terpanes/Hopanes	1.54	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	3.98	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M2041439.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*				0.0	0.0
125	H30_125	C30 17α(H)-hopane (125)	76.515	230	40		
125	GCAR	γ-carotane					
125	BCAR	β-carotane					
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.590	1038	190		
191	TR20	C20 tricyclic terpane	47.666	2066	471		
191	TR21	C21 tricyclic terpane	50.720	3374	899		
191	TR22	C22 tricyclic terpane	53.428	806	225		
191	TR23	C23 tricyclic terpane	56.429	6360	1629		
191	TR24	C24 tricyclic terpane	57.989	3782	944		
191	C24DEOL	C24 des-A-oleanane	59.593	1009	222		
191	C24DELUP	C24 des-A-lupane	59.809	237	73		
191	TR25A	C25 tricyclic terpane (a)	61.066	1338	331		
191	TR25B	C25 tricyclic terpane (b)	61.131	1279	341		
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.038	1985	535		
191	TR26A	C26 tricyclic terpane (a)	63.276	757	182		
191	TR26B	C26 tricyclic terpane (b)	63.449	711	170		
191	TR28A	C28 tricyclic terpane (a)	68.108	683	151		
191	TR28B	C28 tricyclic terpane (b)	68.433	371	73		
191	TR29A	C29 tricyclic terpane (a)	69.473	339	72		
191	TR29B	C29 tricyclic terpane (b)	69.863	334	64		
191	TS	Ts 18α(H)-trisnorhopane	70.881	1693	398		
191	TM	Tm 17α(H)-trisnorhopane	71.748	1687	413		
191	TR30A	C30 tricyclic terpane (a)	72.051	185	40		
191	TR30B	C30 tricyclic terpane (b)	72.528	329	55		
191	H28	C28 17α18α21β(H)-bisnorhopane	73.806	411	53		
191	NOR25H	C29 Nor-25-hopane	74.110	255	52		
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.716	3102	704		
191	C29TS	C29 Ts 18α(H)-norneohopane	74.846	1054	194		
191	DH30	C30 17α(H)-diahopane	75.193	124	31		
191	M29	C29 normoretane	75.756	516	97		
191	OL	oleanane	76.255	407	73		
191	H30	C30 17α(H)-hopane	76.515	3627	775		
191	M30	C30 moretane	77.316	519	123		
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.573	855	203		
191	H31R	C31 22R 17α(H) hopane	78.833	829	155		
191	GAM	gammacerane	79.136	222	48		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M2041439.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.198	525	103		
191	H32R	C32 22R 17α(H) hopane	80.523	438	76		
191	H33S	C33 22S 17α(H) hopane	82.040	285	67		
191	H33R	C33 22R 17α(H) hopane	82.538	187	43		
191	H34S	C34 22S 17α(H) hopane	83.990	172	44		
191	H34R	C34 22R 17α(H) hopane	84.575	108	34		
191	H35S	C35 22S 17α(H) hopane	86.005	209	35		
191	H35R	C35 22R 17α(H) hopane	86.720	142	27		
217	S21	C21 sterane	53.839	3483	707		
217	DIA27S	C27 βα 20S diasterane	65.703	1300	316		
217	C27R	C27 αα 20R sterane	70.318	1226	256		
217	C28R	C28 αα 20R sterane	72.701	915	104		
217	C29S	C29 αα 20S sterane	73.351	398	56		
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.763	646	98		
217	C29BBS	C29 ββ 20S sterane	73.893	283	64		
217	C29R	C29 αα 20R sterane	74.673	1203	180		
218	C27ABBR	C27 ββ 20R sterane	69.603	909	177		
218	C27ABBS	C27 ββ 20S sterane	69.819	736	139		
218	C28ABBR	C28 ββ 20R sterane	71.900	549	93		
218	C28ABBS	C28 ββ 20S sterane	72.095	547	98		
218	C29ABBR	C29 ββ 20R sterane	73.763	632	103		
218	C29ABBS	C29 ββ 20S sterane	73.893	482	106		
218	C30ABBR	C30 ββ 20R sterane					
218	C30ABBS	C30 ββ 20S sterane					
259	D27S	C27 βα 20S diasterane	65.703	832	187		
259	D27R	C27 βα 20R diasterane	66.548	480	106		
259	D28SA	C28 βα 20S diasterane a	67.783	315	65		
259	D28SB	C28 βα 20S diasterane b	67.913	360	69		
259	D28RA	C28 βα 20R diasterane a	68.693	204	48		
259	D28RB	C28 βα 20R diasterane b	68.779	180	40		
259	D29S	C29 βα 20S diasterane	69.624	494	85		
259	D29R	C29 βα 20R diasterane	70.578	276	49		
259	C30TP1	C30 tetracyclic polyprenoid	75.605	74	15		
259	C30TP2	C30 tetracyclic polyprenoid	75.691	62	17		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M2041439.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane					
135	2MAM	2-Methyladamantane					
135	1EAM	1-Ethyladamantane					
135	2EAM	2-Ethyladamantane					
136	AM	Adamantane					
149	13DMAM	1,3-Dimethyladamantane					
149	C14DMAM	1,4-Dimethyladamantane, cis					
149	T14DMAM	1,4-Dimethyladamantane, trans					
149	12DMAM	1,2-Dimethyladamantane					
149	1E3MAM	1-Ethyl-3-methyladamantane					
163	135TMAM	1,3,5-Trimethyladamantane					
163	136TMAM	1,3,6-Trimethyladamantane					
163	C134TMAM	1,3,4-Trimethyladamantane, cis					
163	T134TMAM	1,3,4-Trimethyladamantane, trans					
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane					
177	1357TMAM	1,3,5,7-Tetramethyladamantane					
177	1257TMAM	1,2,5,7-Tetramethyladamantane					
187	4MDI	4-Methyldiamantane	25.601	455	124		
187	1MDI	1-Methyldiamantane	27.084	345	90		
187	3MDI	3-Methyldiamantane	28.171	222	47		
188	DI	Diamantane	25.141	249	69		
201	49DMDI	4,9-Dimethyldiamantane	26.019	236	73		
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.189	340	89		
201	48DMDI	4,8-Dimethyldiamantane	27.419	382	99		
201	34DMDI	3,4-Dimethyldiamantane	28.672	293	70		
215	TMDI	Trimethyldiamantane	27.460	367	96		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M2041439.D**

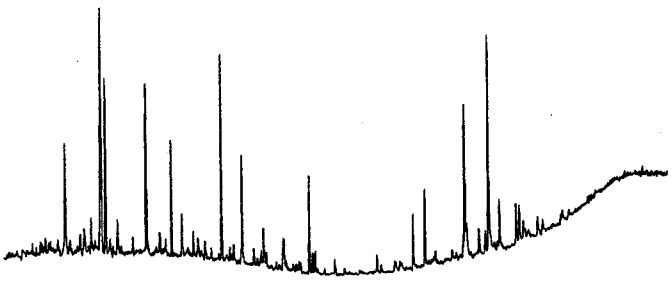
Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	41.7	40.5
%C_{28} αββS (218)	31.0	28.6
%C_{29} αββS (218)	27.3	30.9
C_{27}/C_{29} (αββS) (218)	1.53	1.31
C_{28}/C_{29} (αββS) (218)	1.13	0.92
C_{29}/C_{27} (αββS) (218)	0.65	0.76
%C_{27} αααR (217)	36.7	47.4
%C_{28} αααR (217)	27.4	19.3
%C_{29} αααR (217)	36.0	33.3
S/R (C_{29} ααα) (217)	0.33	0.31
S/(S+R) (C_{29} ααα) (217)	0.25	0.24
ββ/(αα+ββ) (C_{29}) (217)	0.37	0.41
αββS/αααR (C_{29}) (217)	0.24	
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.58	0.66
Diaster/ααα Ster (C_{27}) (217)	1.06	1.23
Terpenoids		
C19/C23 Tricyclic terpanes	0.16	0.12
C23/C24 Tricyclic terpanes	1.68	1.73
C26/C25 Tricyclic terpanes	0.56	0.52
C24 Tetracyclic/C26 Tricyclics	1.35	1.52
C24 Tetracyclic/Hopane	0.55	0.69
Ts/Tm trisnorhopanes	1.00	0.96
Ts/(Ts+Tm) trisnorhopanes	0.50	0.49
C29Ts/C29 Hopane	0.34	0.28
Bisnorhopane/Hopane	0.11	0.07
Norhopane/Hopane	0.86	0.91
Diahopane/Hopane	0.03	0.04
Oleanane/Hopane	0.11	0.09
Gammacerane/Hopane	0.06	0.06
Moretane/(Moretane+Hopane)	0.13	0.14
H32 S/(S+R) Homohopanes	0.55	0.58
H35/H34 Homohopanes	1.25	0.79
[Steranes]/[Hopanes]	0.39	0.32
[Tricyclic terpanes]/[Hopanes]	1.54	1.74
[Tricyclic terpanes]/[Steranes]	3.98	5.43
DIAMONDOID Ratios		
Methyl Adamantane Index		
Methyl Diamantane Index	0.45	0.48

BASELINE DGSI ANALYTICAL LABORATORIES

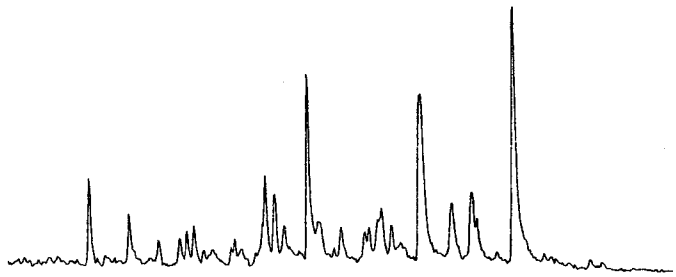
SATURATE GCMS

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275206**
Lease:	**INIGOK #1**	**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**INIGOK #1**	**Geologic Age:**	
Latitude:	**70.0003**	**Top Depth:**	**13690 FT**
Longitude:	**-153.095**	**Bottom Depth:**	**13710 FT**

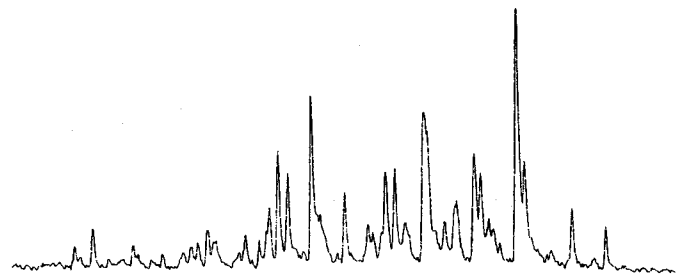
***m/z* 191: Tri- and Pentacyclics** M2041440.D



***m/z* 217: Steranes** M2041440.D



***m/z* 218: ββ Steranes** M2041440.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
$\%C_{27}$ αββS (218)	32.9	D	
$\%C_{28}$ αββS (218)	36.0	D	
$\%C_{29}$ αββS (218)	31.2	D	
$\%C_{27}$ αααR (217)	23.1	D	
$\%C_{28}$ αααR (217)	36.1	D	
$\%C_{29}$ αααR (217)	40.8	D	
S/(S+R) (C_{29} ααα) (217)	0.24	M	0.55 (0.8%)
ββS/(ββS+ααR) (C29) (217)	0.13	M	0.70 (0.9%)
$(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29})$ (217)	0.24		
C_{27}/C_{29} (αββS) (218)	1.05	D	
C_{28}/C_{29} (αββS) (218)	1.15	D	
Diaster/ααα Ster (C_{27}) (217)	0.40	M/D	1.00 (1.4%)
C30 Sterane Index (218)		D	
Terpanes (*m/z* 191)			
Oleanane/Hopane	0.13	D/A	
Gammacerane/Hopane	0.09	D	
Norhopane/Hopane	0.73	D	
Bisnorhopane/Hopane	0.07		
Diahopane/Hopane	0.03	M/D	
Moretane/Hopane	0.24	M	0.05 (0.7%)
25-*nor*-hopane/hopane	0.03	B	
Ts/(Ts+Tm) trisnorhopanes	0.42	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.26	M	
H32 S/(R+S) Homohopanes	0.49	M	0.60 (0.6%)
H35/H34 Homohopanes	1.24	D	
C24 Tetracyclic/Hopane	0.36	D	
C24 Tetracyclic/C26 Tricyclics	2.02	D	
C23/C24 Tricyclic terpanes	1.77	D	
C19/C23 Tricyclic terpanes	0.75	D	
C26/C25 Tricyclic terpanes	0.68	D	
(C28+C29 Tricyclics)/Ts	1.05	A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.65	D	
Tricyclic terpanes/Hopanes	1.19	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	1.82	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M2041440.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*				0.0	0.0
125	H30_125	C30 17α(H)-hopane (125)	76.513	212	44		
125	GCAR	γ-carotane					
125	BCAR	β-carotane	88.019	471	35		
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.612	2635	544		
191	TR20	C20 tricyclic terpane	47.666	4029	857		
191	TR21	C21 tricyclic terpane	50.742	3127	827		
191	TR22	C22 tricyclic terpane	53.428	829	210		
191	TR23	C23 tricyclic terpane	56.428	3519	1004		
191	TR24	C24 tricyclic terpane	57.988	1989	527		
191	C24DEOL	C24 des-A-oleanane	59.613	845	194		
191	C24DELUP	C24 des-A-lupane	59.808	283	76		
191	TR25A	C25 tricyclic terpane (a)	61.065	832	162		
191	TR25B	C25 tricyclic terpane (b)	61.130	501	155		
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.036	1823	483		
191	TR26A	C26 tricyclic terpane (a)	63.275	458	107		
191	TR26B	C26 tricyclic terpane (b)	63.470	446	115		
191	TR28A	C28 tricyclic terpane (a)	68.107	426	91		
191	TR28B	C28 tricyclic terpane (b)	68.453	185	44		
191	TR29A	C29 tricyclic terpane (a)	69.493	267	54		
191	TR29B	C29 tricyclic terpane (b)	69.883	272	50		
191	TS	Ts 18α(H)-trisnorhopane	70.880	1097	273		
191	TM	Tm 17α(H)-trisnorhopane	71.747	1539	377		
191	TR30A	C30 tricyclic terpane (a)	72.072	146	29		
191	TR30B	C30 tricyclic terpane (b)	72.527	358	71		
191	H28	C28 17α18α21β(H)-bisnorhopane	73.783	348	58		
191	NOR25H	C29 Nor-25-hopane	74.108	169	42		
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.715	3665	755		
191	C29TS	C29 Ts 18α(H)-norneohopane	74.845	941	172		
191	DH30	C30 17α(H)-diahopane	75.192	143	30		
191	M29	C29 normoretane	75.755	698	131		
191	OL	oleanane	76.253	670	113		
191	H30	C30 17α(H)-hopane	76.513	5048	1065		
191	M30	C30 moretane	77.315	1191	244		
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.572	943	201		
191	H31R	C31 22R 17α(H) hopane	78.832	868	181		
191	GAM	gammacerane	79.135	468	99		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M2041440.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.197	429	96		
191	H32R	C32 22R 17α(H) hopane	80.522	445	78		
191	H33S	C33 22S 17α(H) hopane	82.039	385	69		
191	H33R	C33 22R 17α(H) hopane	82.537	333	52		
191	H34S	C34 22S 17α(H) hopane	83.967	124	37		
191	H34R	C34 22R 17α(H) hopane	84.574	151	39		
191	H35S	C35 22S 17α(H) hopane	85.982	164	30		
191	H35R	C35 22R 17α(H) hopane	86.762	178	39		
217	S21	C21 sterane	53.840	2657	566		
217	DIA27S	C27 βα 20S diasterane	65.701	725	155		
217	C27R	C27 αα 20R sterane	70.317	1804	343		
217	C28R	C28 αα 20R sterane	72.722	2825	310		
217	C29S	C29 αα 20S sterane	73.350	1011	119		
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.783	953	138		
217	C29BBS	C29 ββ 20S sterane	73.892	485	92		
217	C29R	C29 αα 20R sterane	74.672	3194	466		
218	C27ABBR	C27 ββ 20R sterane	69.623	688	125		
218	C27ABBS	C27 ββ 20S sterane	69.818	549	102		
218	C28ABBR	C28 ββ 20R sterane	71.898	628	103		
218	C28ABBS	C28 ββ 20S sterane	72.093	601	106		
218	C29ABBR	C29 ββ 20R sterane	73.762	742	120		
218	C29ABBS	C29 ββ 20S sterane	73.892	521	100		
218	C30ABBR	C30 ββ 20R sterane					
218	C30ABBS	C30 ββ 20S sterane					
259	D27S	C27 βα 20S diasterane	65.701	420	91		
259	D27R	C27 βα 20R diasterane	66.546	293	59		
259	D28SA	C28 βα 20S diasterane a	67.782	221	42		
259	D28SB	C28 βα 20S diasterane b	67.912	190	39		
259	D28RA	C28 βα 20R diasterane a	68.692	122	28		
259	D28RB	C28 βα 20R diasterane b	68.778	109	26		
259	D29S	C29 βα 20S diasterane	69.645	296	48		
259	D29R	C29 βα 20R diasterane	70.577	226	29		
259	C30TP1	C30 tetracyclic polyprenoid	75.603	81	19		
259	C30TP2	C30 tetracyclic polyprenoid	75.690	92	22		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M2041440.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane					
135	2MAM	2-Methyladamantane					
135	1EAM	1-Ethyladamantane					
135	2EAM	2-Ethyladamantane					
136	AM	Adamantane					
149	13DMAM	1,3-Dimethyladamantane					
149	C14DMAM	1,4-Dimethyladamantane, cis					
149	T14DMAM	1,4-Dimethyladamantane, trans					
149	12DMAM	1,2-Dimethyladamantane					
149	1E3MAM	1-Ethyl-3-methyladamantane					
163	135TMAM	1,3,5-Trimethyladamantane					
163	136TMAM	1,3,6-Trimethyladamantane					
163	C134TMAM	1,3,4-Trimethyladamantane, cis					
163	T134TMAM	1,3,4-Trimethyladamantane, trans					
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane					
177	1357TMAM	1,3,5,7-Tetramethyladamantane					
177	1257TMAM	1,2,5,7-Tetramethyladamantane					
187	4MDI	4-Methyldiamantane	25.602	426	119		
187	1MDI	1-Methyldiamantane	27.107	287	77		
187	3MDI	3-Methyldiamantane	28.193	222	46		
188	DI	Diamantane	25.164	223	68		
201	49DMDI	4,9-Dimethyldiamantane	26.041	197	55		
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.211	301	81		
201	48DMDI	4,8-Dimethyldiamantane	27.441	353	91		
201	34DMDI	3,4-Dimethyldiamantane	28.694	307	70		
215	TMDI	Trimethyldiamantane	27.483	346	91		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M2041440.D**

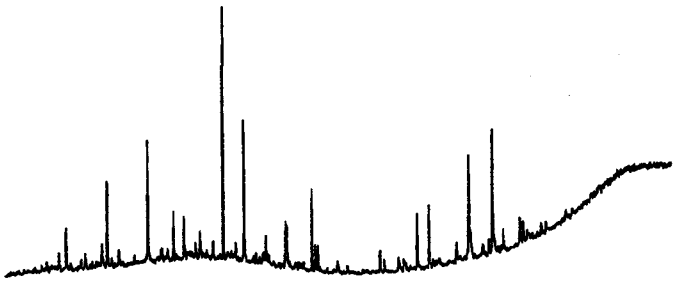
Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	32.9	33.1
%C_{28} αββS (218)	36.0	34.4
%C_{29} αββS (218)	31.2	32.5
C_{27}/C_{29} (αββS) (218)	1.05	1.02
C_{28}/C_{29} (αββS) (218)	1.15	1.06
C_{29}/C_{27} (αββS) (218)	0.95	0.98
%C_{27} αααR (217)	23.1	30.7
%C_{28} αααR (217)	36.1	27.7
%C_{29} αααR (217)	40.8	41.6
S/R (C_{29} ααα) (217)	0.32	0.26
S/(S+R) (C_{29} ααα) (217)	0.24	0.20
ββ/(αα+ββ) (C_{29}) (217)	0.25	0.28
αββS/αααR (C_{29}) (217)	0.15	
$(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29})$ (217)	0.24	0.35
Diaster/ααα Ster (C_{27}) (217)	0.40	0.45
Terpenoids		
C19/C23 Tricyclic terpanes	0.75	0.54
C23/C24 Tricyclic terpanes	1.77	1.91
C26/C25 Tricyclic terpanes	0.68	0.70
C24 Tetracyclic/C26 Tricyclics	2.02	2.18
C24 Tetracyclic/Hopane	0.36	0.45
Ts/Tm trisnorhopanes	0.71	0.72
Ts/(Ts+Tm) trisnorhopanes	0.42	0.42
C29Ts/C29 Hopane	0.26	0.23
Bisnorhopane/Hopane	0.07	0.05
Norhopane/Hopane	0.73	0.71
Diahopane/Hopane	0.03	0.03
Oleanane/Hopane	0.13	0.11
Gammacerane/Hopane	0.09	0.09
Moretane/(Moretane+Hopane)	0.19	0.19
H32 S/(S+R) Homohopanes	0.49	0.55
H35/H34 Homohopanes	1.24	0.91
[Steranes]/[Hopanes]	0.65	0.46
[Tricyclic terpanes]/[Hopanes]	1.19	1.36
[Tricyclic terpanes]/[Steranes]	1.82	2.99
DIAMONDOID Ratios		
Methyl Adamantane Index		
Methyl Diamantane Index	0.46	0.49

BASELINE DGSI
ANALYTICAL LABORATORIES

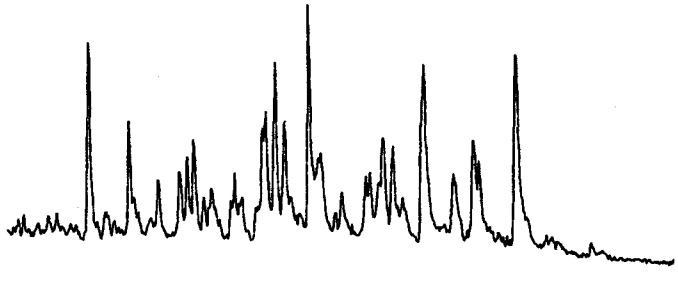
SATURATE GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135728
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275207
Lease:		**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST TESHEKPUK 1	**Geologic Age:**	
Latitude:	70.5694	**Top Depth:**	9620 FT
Longitude:	-152.943	**Bottom Depth:**	9640 FT

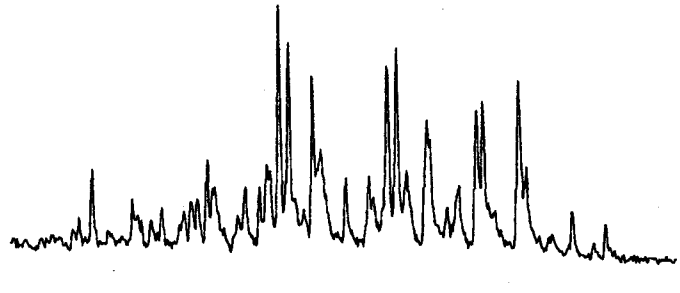
***m/z* 191: Tri- and Pentacyclics** M2041441.D



***m/z* 217: Steranes** M2041441.D



***m/z* 218: ββ Steranes** M2041441.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
%C_{27} αββS (218)	38.0	D	
%C_{28} αββS (218)	38.5	D	
%C_{29} αββS (218)	23.5	D	
%C_{27} αααR (217)	28.9	D	
%C_{28} αααR (217)	37.0	D	
%C_{29} αααR (217)	34.1	D	
S/(S+R) (C_{29} ααα) (217)	0.31	M	0.55 (0.8%)
ββS/(ββS+ααR) (C29) (217)	0.23	M	0.70 (0.9%)
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.33		
C_{27}/C_{29} (αββS) (218)	1.62	D	
C_{28}/C_{29} (αββS) (218)	1.64	D	
Diaster/ααα Ster (C_{27}) (217)	0.75	M/D	1.00 (1.4%)
C30 Sterane Index (218)		D	
Terpanes (*m/z* 191)			
Oleanane/Hopane	0.15	D/A	
Gammacerane/Hopane	0.10	D	
Norhopane/Hopane	0.75	D	
Bisnorhopane/Hopane	0.24		
Diahopane/Hopane		M/D	
Moretane/Hopane	0.16	M	0.05 (0.7%)
25-*nor*-hopane/hopane	0.05	B	
Ts/(Ts+Tm) trisnorhopanes	0.46	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.37	M	
H32 S/(R+S) Homohopanes	0.52	M	0.60 (0.6%)
H35/H34 Homohopanes		D	
C24 Tetracyclic/Hopane	0.47	D	
C24 Tetracyclic/C26 Tricyclics	1.33	D	
C23/C24 Tricyclic terpanes	1.72	D	
C19/C23 Tricyclic terpanes	0.23	D	
C26/C25 Tricyclic terpanes	0.62	D	
(C28+C29 Tricyclics)/Ts	1.40	A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.55	D	
Tricyclic terpanes/Hopanes	1.47	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	2.68	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M2041441.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*				0.0	0.0
125	H30_125	C30 17α(H)-hopane (125)	76.515	173	27		
125	GCAR	γ-carotane					
125	BCAR	β-carotane					
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.611	911	189		
191	TR20	C20 tricyclic terpane	47.665	1679	385		
191	TR21	C21 tricyclic terpane	50.719	2117	540		
191	TR22	C22 tricyclic terpane	53.427	712	193		
191	TR23	C23 tricyclic terpane	56.429	4017	1128		
191	TR24	C24 tricyclic terpane	57.989	2338	635		
191	C24DEOL	C24 des-A-oleanane	59.614	551	123		
191	C24DELUP	C24 des-A-lupane	59.809	137	44		
191	TR25A	C25 tricyclic terpane (a)	61.066	975	212		
191	TR25B	C25 tricyclic terpane (b)	61.131	671	195		
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.038	1368	372		
191	TR26A	C26 tricyclic terpane (a)	63.276	515	122		
191	TR26B	C26 tricyclic terpane (b)	63.471	511	116		
191	TR28A	C28 tricyclic terpane (a)	68.129	480	102		
191	TR28B	C28 tricyclic terpane (b)	68.454	264	60		
191	TR29A	C29 tricyclic terpane (a)	69.473	322	67		
191	TR29B	C29 tricyclic terpane (b)	69.863	335	58		
191	TS	Ts 18α(H)-trisnorhopane	70.881	1004	252		
191	TM	Tm 17α(H)-trisnorhopane	71.748	1173	285		
191	TR30A	C30 tricyclic terpane (a)	72.073	191	43		
191	TR30B	C30 tricyclic terpane (b)	72.528	244	36		
191	H28	C28 17α18α21β(H)-bisnorhopane	73.806	697	99		
191	NOR25H	C29 Nor-25-hopane	74.088	137	29		
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.716	2199	472		
191	C29TS	C29 Ts 18α(H)-nomeohopane	74.868	819	125		
191	DH30	C30 17α(H)-diahopane					
191	M29	C29 normoretane	75.756	315	57		
191	OL	oleanane	76.233	428	73		
191	H30	C30 17α(H)-hopane	76.515	2917	565		
191	M30	C30 moretane	77.316	467	104		
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.573	676	128		
191	H31R	C31 22R 17α(H) hopane	78.833	623	104		
191	GAM	gammacerane	79.136	280	57		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M2041441.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.176	278	60		
191	H32R	C32 22R 17α(H) hopane	80.523	257	53		
191	H33S	C33 22S 17α(H) hopane	82.061	276	52		
191	H33R	C33 22R 17α(H) hopane	82.538	169	43		
191	H34S	C34 22S 17α(H) hopane					
191	H34R	C34 22R 17α(H) hopane					
191	H35S	C35 22S 17α(H) hopane					
191	H35R	C35 22R 17α(H) hopane					
217	S21	C21 sterane	53.839	2022	423		
217	DIA27S	C27 βα 20S diasterane	65.703	794	170		
217	C27R	C27 αα 20R sterane	70.318	1063	209		
217	C28R	C28 αα 20R sterane	72.723	1361	161		
217	C29S	C29 αα 20S sterane	73.351	553	67		
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.763	686	98		
217	C29BBS	C29 ββ 20S sterane	73.893	373	80		
217	C29R	C29 αα 20R sterane	74.651	1256	173		
218	C27ABBR	C27 ββ 20R sterane	69.624	841	164		
218	C27ABBS	C27 ββ 20S sterane	69.819	787	139		
218	C28ABBR	C28 ββ 20R sterane	71.899	784	124		
218	C28ABBS	C28 ββ 20S sterane	72.094	798	136		
218	C29ABBR	C29 ββ 20R sterane	73.763	577	94		
218	C29ABBS	C29 ββ 20S sterane	73.893	486	100		
218	C30ABBR	C30 ββ 20R sterane					
218	C30ABBS	C30 ββ 20S sterane					
259	D27S	C27 βα 20S diasterane	65.724	482	106		
259	D27R	C27 βα 20R diasterane	66.548	311	62		
259	D28SA	C28 βα 20S diasterane a	67.783	198	46		
259	D28SB	C28 βα 20S diasterane b	67.934	237	44		
259	D28RA	C28 βα 20R diasterane a	68.693	129	29		
259	D28RB	C28 βα 20R diasterane b	68.779	111	28		
259	D29S	C29 βα 20S diasterane	69.624	342	51		
259	D29R	C29 βα 20R diasterane	70.578	211	27		
259	C30TP1	C30 tetracyclic polyprenoid	75.583	53	14		
259	C30TP2	C30 tetracyclic polyprenoid	75.670	90	18		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M2041441.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane					
135	2MAM	2-Methyladamantane					
135	1EAM	1-Ethyladamantane					
135	2EAM	2-Ethyladamantane					
136	AM	Adamantane					
149	13DMAM	1,3-Dimethyladamantane					
149	C14DMAM	1,4-Dimethyladamantane, cis					
149	T14DMAM	1,4-Dimethyladamantane, trans					
149	12DMAM	1,2-Dimethyladamantane	16.471	31	12		
149	1E3MAM	1-Ethyl-3-methyladamantane	17.494	76	32		
163	135TMAM	1,3,5-Trimethyladamantane					
163	136TMAM	1,3,6-Trimethyladamantane	15.906	15	5		
163	C134TMAM	1,3,4-Trimethyladamantane, cis	16.659	54	19		
163	T134TMAM	1,3,4-Trimethyladamantane, trans	16.805	43	19		
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane	17.724	93	35		
177	1357TMAM	1,3,5,7-Tetramethyladamantane					
177	1257TMAM	1,2,5,7-Tetramethyladamantane	16.909	81	30		
187	4MDI	4-Methyldiamantane	25.621	804	216		
187	1MDI	1-Methyldiamantane	27.104	643	166		
187	3MDI	3-Methyldiamantane	28.191	570	128		
188	DI	Diamantane	25.162	489	154		
201	49DMDI	4,9-Dimethyldiamantane	26.039	340	99		
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.209	508	133		
201	48DMDI	4,8-Dimethyldiamantane	27.439	627	155		
201	34DMDI	3,4-Dimethyldiamantane	28.692	920	227		
215	TMDI	Trimethyldiamantane	27.481	543	138		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M2041441.D**

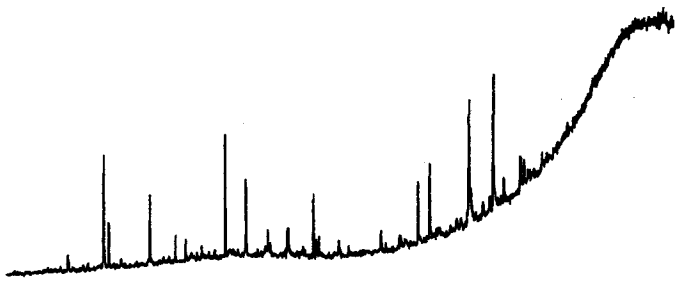
Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	38.0	37.1
%C_{28} αββS (218)	38.5	36.3
%C_{29} αββS (218)	23.5	26.7
C_{27}/C_{29} (αββS) (218)	1.62	1.39
C_{28}/C_{29} (αββS) (218)	1.64	1.36
C_{29}/C_{27} (αββS) (218)	0.62	0.72
%C_{27} αααR (217)	28.9	38.5
%C_{28} αααR (217)	37.0	29.7
%C_{29} αααR (217)	34.1	31.9
S/R (C_{29} ααα) (217)	0.44	0.39
S/(S+R) (C_{29} ααα) (217)	0.31	0.28
ββ/(αα+ββ) (C_{29}) (217)	0.37	0.43
αββS/αααR (C_{29}) (217)	0.30	
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.33	0.44
Diaster/ααα Ster (C_{27}) (217)	0.75	0.81
Terpenoids		
C19/C23 Tricyclic terpanes	0.23	0.17
C23/C24 Tricyclic terpanes	1.72	1.78
C26/C25 Tricyclic terpanes	0.62	0.58
C24 Tetracyclic/C26 Tricyclics	1.33	1.56
C24 Tetracyclic/Hopane	0.47	0.66
Ts/Tm trisnorhopanes	0.86	0.88
Ts/(Ts+Tm) trisnorhopanes	0.46	0.47
C29Ts/C29 Hopane	0.37	0.26
Bisnorhopane/Hopane	0.24	0.18
Norhopane/Hopane	0.75	0.84
Diahopane/Hopane		
Oleanane/Hopane	0.15	0.13
Gammacerane/Hopane	0.10	0.10
Moretane/(Moretane+Hopane)	0.14	0.16
H32 S/(S+R) Homohopanes	0.52	0.53
H35/H34 Homohopanes		
[Steranes]/[Hopanes]	0.55	0.43
[Tricyclic terpanes]/[Hopanes]	1.47	1.82
[Tricyclic terpanes]/[Steranes]	2.68	4.26
DIAMONDOID Ratios		
Methyl Adamantane Index		
Methyl Diamantane Index	0.40	0.42

BASELINE DGSI
ANALYTICAL LABORATORIES

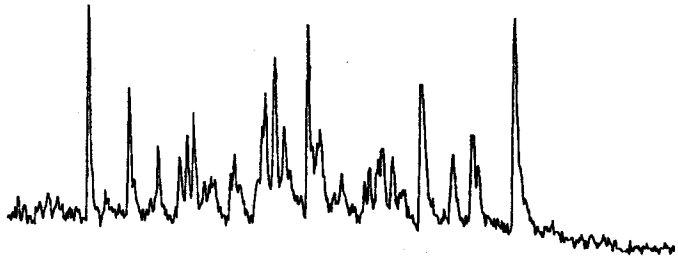
SATURATE GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135729
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275208
Lease:		**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST TESHEKPUK 1	**Geologic Age:**	
Latitude:	70.5694	**Top Depth:**	9660 FT
Longitude:	-152.943	**Bottom Depth:**	9680 FT

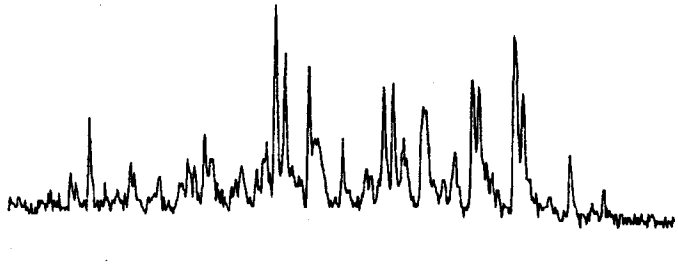
***m/z* 191: Tri- and Pentacyclics** M2041442.D



***m/z* 217: Steranes** M2041442.D



***m/z* 218: ββ Steranes** M2041442.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
%C_{27} αββS (218)	37.4	D	
%C_{28} αββS (218)	29.9	D	
%C_{29} αββS (218)	32.7	D	
%C_{27} αααR (217)	24.9	D	
%C_{28} αααR (217)	36.2	D	
%C_{29} αααR (217)	38.9	D	
S/(S+R) (C_{29} ααα) (217)	0.28	M	0.55 (0.6%)
ββS/(ββS+ααR) (C29) (217)	0.22	M	0.70 (0.9%)
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.23		
C_{27}/C_{29} (αββS) (218)	1.14	D	
C_{28}/C_{29} (αββS) (218)	0.92	D	
Diaster/ααα Ster (C_{27}) (217)	1.06	M/D	1.00 (1.4%)
C30 Sterane Index (218)		D	
Terpanes (*m/z* 191)			
Oleanane/Hopane	0.13	D/A	
Gammacerane/Hopane	0.09	D	
Norhopane/Hopane	0.84	D	
Bisnorhopane/Hopane	0.14		
Diahopane/Hopane		M/D	
Moretane/Hopane	0.21	M	0.05 (0.7%)
25-*nor*-hopane/hopane	0.10	B	
Ts/(Ts+Tm) trisnorhopanes	0.47	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.35	M	
H32 S/(R+S) Homohopanes	0.67	M	0.60 (0.6%)
H35/H34 Homohopanes		D	
C24 Tetracyclic/Hopane	0.42	D	
C24 Tetracyclic/C26 Tricyclics	1.19	D	
C23/C24 Tricyclic terpanes	1.59	D	
C19/C23 Tricyclic terpanes	0.21	D	
C26/C25 Tricyclic terpanes	0.93	D	
(C28+C29 Tricyclics)/Ts	0.86	A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.44	D	
Tricyclic terpanes/Hopanes	0.82	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	1.88	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M2041442.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*				0.0	0.0
125	H30_125	C30 17α(H)-hopane (125)	76.492	98	18		
125	GCAR	γ-carotane					
125	BCAR	β-carotane					
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.612	203	37		
191	TR20	C20 tricyclic terpane	47.666	438	98		
191	TR21	C21 tricyclic terpane	50.720	547	149		
191	TR22	C22 tricyclic terpane	53.428	200	48		
191	TR23	C23 tricyclic terpane	56.428	983	262		
191	TR24	C24 tricyclic terpane	57.988	620	164		
191	C24DEOL	C24 des-A-oleanane	59.591	260	58		
191	C24DELUP	C24 des-A-lupane	59.808	121	31		
191	TR25A	C25 tricyclic terpane (a)	61.065	309	60		
191	TR25B	C25 tricyclic terpane (b)	61.130	247	66		
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.036	616	141		
191	TR26A	C26 tricyclic terpane (a)	63.275	276	44		
191	TR26B	C26 tricyclic terpane (b)	63.470	243	50		
191	TR28A	C28 tricyclic terpane (a)	68.107	202	45		
191	TR28B	C28 tricyclic terpane (b)	68.453	85	21		
191	TR29A	C29 tricyclic terpane (a)	69.493	111	29		
191	TR29B	C29 tricyclic terpane (b)	69.862	99	18		
191	TS	Ts 18α(H)-trisnorhopane	70.880	576	134		
191	TM	Tm 17α(H)-trisnorhopane	71.747	641	165		
191	TR30A	C30 tricyclic terpane (a)					
191	TR30B	C30 tricyclic terpane (b)					
191	H28	C28 17α18α21β(H)-bisnorhopane	73.783	205	29		
191	NOR25H	C29 Nor-25-hopane	74.108	142	27		
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.715	1248	265		
191	C29TS	C29 Ts 18α(H)-norneohopane	74.845	435	77		
191	DH30	C30 17α(H)-diahopane					
191	M29	C29 normoretane	75.777	178	33		
191	OL	oleanane	76.253	196	38		
191	H30	C30 17α(H)-hopane	76.513	1480	292		
191	M30	C30 moretane	77.315	308	61		
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.572	415	78		
191	H31R	C31 22R 17α(H) hopane	78.832	306	63		
191	GAM	gammacerane	79.114	127	33		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M2041442.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.197	165	39		
191	H32R	C32 22R 17α(H) hopane	80.565	82	23		
191	H33S	C33 22S 17α(H) hopane					
191	H33R	C33 22R 17α(H) hopane					
191	H34S	C34 22S 17α(H) hopane					
191	H34R	C34 22R 17α(H) hopane					
191	H35S	C35 22S 17α(H) hopane					
191	H35R	C35 22R 17α(H) hopane					
217	S21	C21 sterane	53.840	567	115		
217	DIA27S	C27 βα 20S diasterane	65.702	376	79		
217	C27R	C27 αα 20R sterane	70.317	354	75		
217	C28R	C28 αα 20R sterane	72.678	514	55		
217	C29S	C29 αα 20S sterane	73.372	217	30		
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.762	264	38		
217	C29BBS	C29 ββ 20S sterane	73.892	155	27		
217	C29R	C29 αα 20R sterane	74.672	553	81		
218	C27ABBR	C27 ββ 20R sterane	69.623	312	60		
218	C27ABBS	C27 ββ 20S sterane	69.818	261	46		
218	C28ABBR	C28 ββ 20R sterane	71.898	231	37		
218	C28ABBS	C28 ββ 20S sterane	72.093	209	38		
218	C29ABBR	C29 ββ 20R sterane	73.762	225	39		
218	C29ABBS	C29 ββ 20S sterane	73.892	228	37		
218	C30ABBR	C30 ββ 20R sterane					
218	C30ABBS	C30 ββ 20S sterane					
259	D27S	C27 βα 20S diasterane	65.723	217	48		
259	D27R	C27 βα 20R diasterane	66.547	131	27		
259	D28SA	C28 βα 20S diasterane a	67.782	81	21		
259	D28SB	C28 βα 20S diasterane b	67.912	116	21		
259	D28RA	C28 βα 20R diasterane a	68.692	65	13		
259	D28RB	C28 βα 20R diasterane b	68.778	52	13		
259	D29S	C29 βα 20S diasterane	69.623	178	26		
259	D29R	C29 βα 20R diasterane	70.577	109	14		
259	C30TP1	C30 tetracyclic polyprenoid	75.625	20	5		
259	C30TP2	C30 tetracyclic polyprenoid	75.668	20	5		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M2041442.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane					
135	2MAM	2-Methyladamantane					
135	1EAM	1-Ethyladamantane					
135	2EAM	2-Ethyladamantane					
136	AM	Adamantane					
149	13DMAM	1,3-Dimethyladamantane					
149	C14DMAM	1,4-Dimethyladamantane, cis					
149	T14DMAM	1,4-Dimethyladamantane, trans					
149	12DMAM	1,2-Dimethyladamantane					
149	1E3MAM	1-Ethyl-3-methyladamantane					
163	135TMAM	1,3,5-Trimethyladamantane					
163	136TMAM	1,3,6-Trimethyladamantane					
163	C134TMAM	1,3,4-Trimethyladamantane, cis					
163	T134TMAM	1,3,4-Trimethyladamantane, trans					
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane					
177	1357TMAM	1,3,5,7-Tetramethyladamantane					
177	1257TMAM	1,2,5,7-Tetramethyladamantane					
187	4MDI	4-Methyldiamantane	25.622	39	10		
187	1MDI	1-Methyldiamantane	27.105	34	9		
187	3MDI	3-Methyldiamantane	28.192	41	9		
188	DI	Diamantane	25.162	23	7		
201	49DMDI	4,9-Dimethyldiamantane	26.040	18	4		
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.210	30	6		
201	48DMDI	4,8-Dimethyldiamantane	27.419	29	9		
201	34DMDI	3,4-Dimethyldiamantane	28.693	63	12		
215	TMDI	Trimethyldiamantane	27.481	44	11		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M2041442.D**

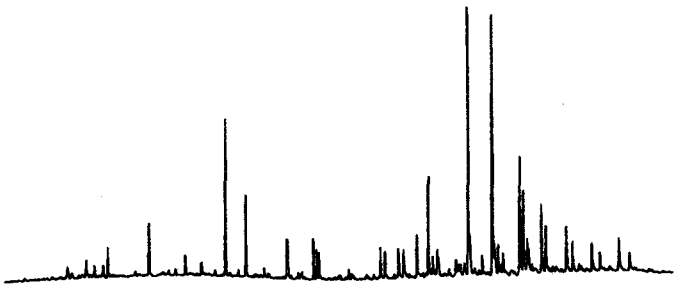
Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	37.4	38.0
%C_{28} αββS (218)	29.9	31.4
%C_{29} αββS (218)	32.7	30.6
C_{27}/C_{29} (αββS) (218)	1.14	1.24
C_{28}/C_{29} (αββS) (218)	0.92	1.03
C_{29}/C_{27} (αββS) (218)	0.87	0.80
%C_{27} αααR (217)	24.9	35.5
%C_{28} αααR (217)	36.2	26.1
%C_{29} αααR (217)	38.9	38.4
S/R (C_{29} ααα) (217)	0.39	0.37
S/(S+R) (C_{29} ααα) (217)	0.28	0.27
ββ/(αα+ββ) (C_{29}) (217)	0.35	0.37
αββS/αααR (C_{29}) (217)	0.28	
$(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29})$ (217)	0.23	0.30
Diaster/ααα Ster (C_{27}) (217)	1.06	1.05
Terpenoids		
C19/C23 Tricyclic terpanes	0.21	0.14
C23/C24 Tricyclic terpanes	1.59	1.60
C26/C25 Tricyclic terpanes	0.93	0.75
C24 Tetracyclic/C26 Tricyclics	1.19	1.50
C24 Tetracyclic/Hopane	0.42	0.48
Ts/Tm trisnorhopanes	0.90	0.81
Ts/(Ts+Tm) trisnorhopanes	0.47	0.45
C29Ts/C29 Hopane	0.35	0.29
Bisnorhopane/Hopane	0.14	0.10
Norhopane/Hopane	0.84	0.91
Diahopane/Hopane		
Oleanane/Hopane	0.13	0.13
Gammacerane/Hopane	0.09	0.11
Moretane/(Moretane+Hopane)	0.17	0.17
H32 S/(S+R) Homohopanes	0.67	0.63
H35/H34 Homohopanes		
[Steranes]/[Hopanes]	0.44	0.33
[Tricyclic terpanes]/[Hopanes]	0.82	0.94
[Tricyclic terpanes]/[Steranes]	1.88	2.83
DIAMONDOID Ratios		
Methyl Adamantane Index		
Methyl Diamantane Index	0.34	0.36

BASELINE DGSI
ANALYTICAL LABORATORIES

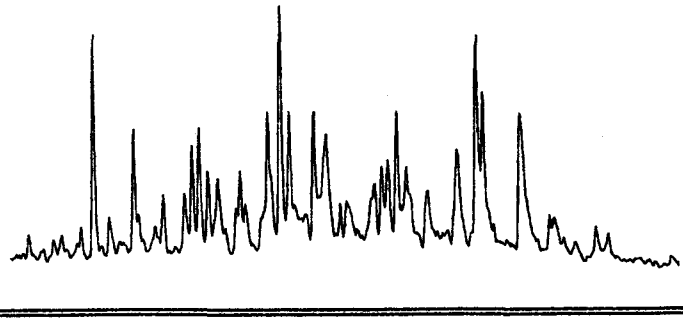
SATURATE GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135732
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275211
Lease:	PEARD #1	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	PEARD #1	**Geologic Age:**	
Latitude:	70.7156	**Top Depth:**	9507.2 FT
Longitude:	-159.001	**Bottom Depth:**	FT

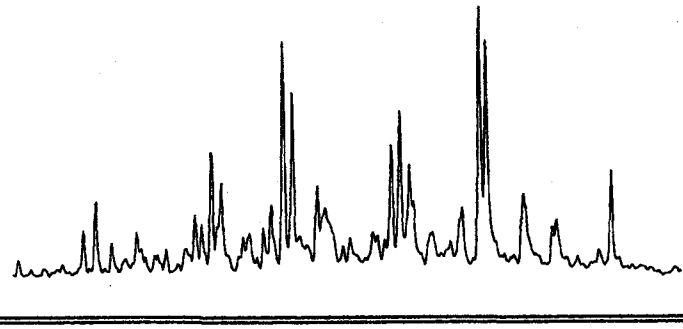
***m/z* 191: Tri- and Pentacyclics** M2041443.D



***m/z* 217: Steranes** M2041443.D



***m/z* 218: ββ Steranes** M2041443.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
%C_{27} αββS (218)	29.6	D	
%C_{28} αββS (218)	28.7	D	
%C_{29} αββS (218)	41.6	D	
%C_{27} αααR (217)	30.9	D	
%C_{28} αααR (217)	23.2	D	
%C_{29} αααR (217)	45.8	D	
S/(S+R) (C_{29} ααα) (217)	0.44	M	0.55 (0.8%)
ββS/(ββS+ααR) (C29) (217)	0.44	M	0.70 (0.9%)
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.45		
C_{27}/C_{29} (αββS) (218)	0.71	D	
C_{28}/C_{29} (αββS) (218)	0.69	D	
Diaster/ααα Ster (C_{27}) (217)	1.21	M/D	1.00 (1.4%)
C30 Sterane Index (218)	6.95	D	
Terpanes (*m/z* 191)			
Oleanane/Hopane		D/A	
Gammacerane/Hopane	0.15	D	
Norhopane/Hopane	0.98	D	
Bisnorhopane/Hopane	0.10		
Diahopane/Hopane	0.03	M/D	
Moretane/Hopane	0.09	M	0.05 (0.7%)
25-*nor*-hopane/hopane	0.04	B	
Ts/(Ts+Tm) trisnorhopanes	0.30	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.19	M	
H32 S/(R+S) Homohopanes	0.60	M	0.60 (0.6%)
H35/H34 Homohopanes	1.12	D	
C24 Tetracyclic/Hopane	0.14	D	
C24 Tetracyclic/C26 Tricyclics	0.65	D	
C23/C24 Tricyclic terpanes	1.77	D	
C19/C23 Tricyclic terpanes	0.14	D	
C26/C25 Tricyclic terpanes	0.77	D	
(C28+C29 Tricyclics)/Ts	2.99	A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.10	D	
Tricyclic terpanes/Hopanes	0.49	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	4.80	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M2041443.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*	62.366	45305	11470	100.0	100.0
125	H30_125	C30 17α(H)-hopane (125)	76.515	6811	1040	15.0	9.1
125	GCAR	γ-carotane					
125	BCAR	β-carotane					
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.719	5851	827	12.9	7.2
191	TR20	C20 tricyclic terpane	47.730	10602	2204	23.4	19.2
191	TR21	C21 tricyclic terpane	50.806	17489	3817	38.6	33.3
191	TR22	C22 tricyclic terpane	53.492	7484	1433	16.5	12.5
191	TR23	C23 tricyclic terpane	56.494	42952	11414	94.8	99.5
191	TR24	C24 tricyclic terpane	58.033	24225	5930	53.5	51.7
191	C24DEOL	C24 des-A-oleanane					
191	C24DELUP	C24 des-A-lupane					
191	TR25A	C25 tricyclic terpane (a)	61.109	13169	2899	29.1	25.3
191	TR25B	C25 tricyclic terpane (b)	61.174	10114	2846	22.3	24.8
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.081	11713	2979	25.9	26.0
191	TR26A	C26 tricyclic terpane (a)	63.319	9361	2205	20.7	19.2
191	TR26B	C26 tricyclic terpane (b)	63.493	8570	1999	18.9	17.4
191	TR28A	C28 tricyclic terpane (a)	68.151	9508	2234	21.0	19.5
191	TR28B	C28 tricyclic terpane (b)	68.476	8161	1942	18.0	16.9
191	TR29A	C29 tricyclic terpane (a)	69.516	9411	2087	20.8	18.2
191	TR29B	C29 tricyclic terpane (b)	69.906	9528	2003	21.0	17.5
191	TS	Ts 18α(H)-trisnorhopane	70.903	12259	3094	27.1	27.0
191	TM	Tm 17α(H)-trisnorhopane	71.791	28508	7221	62.9	63.0
191	TR30A	C30 tricyclic terpane (a)	72.095	6612	1397	14.6	12.2
191	TR30B	C30 tricyclic terpane (b)	72.506	6451	1406	14.2	12.3
191	H28	C28 17α18α21β(H)-bisnorhopane	73.828	7900	1187	17.4	10.3
191	NOR25H	C29 Nor-25-hopane	74.131	3604	827	8.0	7.2
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.738	78887	19456	174.1	169.6
191	C29TS	C29 Ts 18α(H)-norneohopane	74.890	15046	2875	33.2	25.1
191	DH30	C30 17α(H)-diahopane	75.215	2059	503	4.5	4.4
191	M29	C29 normoretane	75.778	6782	1396	15.0	12.2
191	OL	oleanane					
191	H30	C30 17α(H)-hopane	76.536	80868	18961	178.5	165.3
191	M30	C30 moretane	77.338	7349	1595	16.2	13.9
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.595	39004	8579	86.1	74.8
191	H31R	C31 22R 17α(H) hopane	78.855	31888	6102	70.4	53.2
191	GAM	gammacerane	79.158	11997	2546	26.5	22.2

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M2041443.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.198	25172	4955	55.6	43.2
191	H32R	C32 22R 17α(H) hopane	80.545	16973	3430	37.5	29.9
191	H33S	C33 22S 17α(H) hopane	82.062	17434	3301	38.5	28.8
191	H33R	C33 22R 17α(H) hopane	82.538	11645	2152	25.7	18.8
191	H34S	C34 22S 17α(H) hopane	83.990	12546	2114	27.7	18.4
191	H34R	C34 22R 17α(H) hopane	84.575	6939	1335	15.3	11.6
191	H35S	C35 22S 17α(H) hopane	85.983	13999	2352	30.9	20.5
191	H35R	C35 22R 17α(H) hopane	86.763	7843	1331	17.3	11.6
217	S21	C21 sterane	53.904	18538	3568	40.9	31.1
217	DIA27S	C27 βα 20S diasterane	65.746	5963	1438	13.2	12.5
217	C27R	C27 αα 20R sterane	70.361	4910	929	10.8	8.1
217	C28R	C28 αα 20R sterane	72.766	3686	431	8.1	3.8
217	C29S	C29 αα 20S sterane	73.373	5710	690	12.6	6.0
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.785	8406	1429	18.6	12.5
217	C29BBS	C29 ββ 20S sterane	73.915	5606	1061	12.4	9.3
217	C29R	C29 αα 20R sterane	74.695	7277	935	16.1	8.2
218	C27ABBR	C27 ββ 20R sterane	69.646	7248	1608	16.0	14.0
218	C27ABBS	C27 ββ 20S sterane	69.841	6261	1243	13.8	10.8
218	C28ABBR	C28 ββ 20R sterane	71.921	4620	853	10.2	7.4
218	C28ABBS	C28 ββ 20S sterane	72.116	6075	1094	13.4	9.5
218	C29ABBR	C29 ββ 20R sterane	73.785	8499	1824	18.8	15.9
218	C29ABBS	C29 ββ 20S sterane	73.915	8805	1587	19.4	13.8
218	C30ABBR	C30 ββ 20R sterane	75.301	1135	267	2.5	2.3
218	C30ABBS	C30 ββ 20S sterane	75.388	1578	314	3.5	2.7
259	D27S	C27 βα 20S diasterane	65.746	3385	847	7.5	7.4
259	D27R	C27 βα 20R diasterane	66.591	2223	495	4.9	4.3
259	D28SA	C28 βα 20S diasterane a	67.804	1557	349	3.4	3.0
259	D28SB	C28 βα 20S diasterane b	67.956	1642	346	3.6	3.0
259	D28RA	C28 βα 20R diasterane a	68.715	1257	262	2.8	2.3
259	D28RB	C28 βα 20R diasterane b	68.801	741	213	1.6	1.9
259	D29S	C29 βα 20S diasterane	69.668	3832	630	8.5	5.5
259	D29R	C29 βα 20R diasterane	70.621	2859	366	6.3	3.2
259	C30TP1	C30 tetracyclic polyprenoid	75.626	976	203	2.2	1.8
259	C30TP2	C30 tetracyclic polyprenoid	75.713	1154	270	2.5	2.4

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M2041443.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane	13.425	45137	18154	99.6	158.3
135	2MAM	2-Methyladamantane	15.305	33068	12655	73.0	110.3
135	1EAM	1-Ethyladamantane	17.206	46405	18018	102.4	157.1
135	2EAM	2-Ethyladamantane	18.021	43789	13692	96.7	119.4
136	AM	Adamantane	12.923	6140	2809	13.6	24.5
149	13DMAM	1,3-Dimethyladamantane	13.863	46812	19252	103.3	167.8
149	C14DMAM	1,4-Dimethyladamantane, cis	15.597	38370	14235	84.7	124.1
149	T14DMAM	1,4-Dimethyladamantane, trans	15.764	52862	17056	116.7	148.7
149	12DMAM	1,2-Dimethyladamantane	16.496	61751	22104	136.3	192.7
149	1E3MAM	1-Ethyl-3-methyladamantane	17.519	47187	16919	104.2	147.5
163	135TMAM	1,3,5-Trimethyladamantane	14.156	15975	6668	35.3	58.1
163	136TMAM	1,3,6-Trimethyladamantane	15.952	31026	10137	68.5	88.4
163	C134TMAM	1,3,4-Trimethyladamantane, cis	16.705	33964	10103	75.0	88.1
163	T134TMAM	1,3,4-Trimethyladamantane, trans	16.851	52164	14005	115.1	122.1
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane	17.770	28191	8131	62.2	70.9
177	1357TMAM	1,3,5,7-Tetramethyladamantane	14.386	1707	659	3.8	5.7
177	1257TMAM	1,2,5,7-Tetramethyladamantane	16.955	20833	7672	46.0	66.9
187	4MDI	4-Methyldiamantane	25.667	17765	4354	39.2	38.0
187	1MDI	1-Methyldiamantane	27.171	8624	1758	19.0	15.3
187	3MDI	3-Methyldiamantane	28.258	9354	1984	20.6	17.3
188	DI	Diamantane	25.207	10800	2672	23.8	23.3
201	49DMDI	4,9-Dimethyldiamantane	26.106	7361	1678	16.2	14.6
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.276	6497	1448	14.3	12.6
201	48DMDI	4,8-Dimethyldiamantane	27.506	7226	1549	16.0	13.5
201	34DMDI	3,4-Dimethyldiamantane	28.759	13572	2655	30.0	23.1
215	TMDI	Trimethyldiamantane	27.547	5834	1318	12.9	11.5

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M2041443.D**

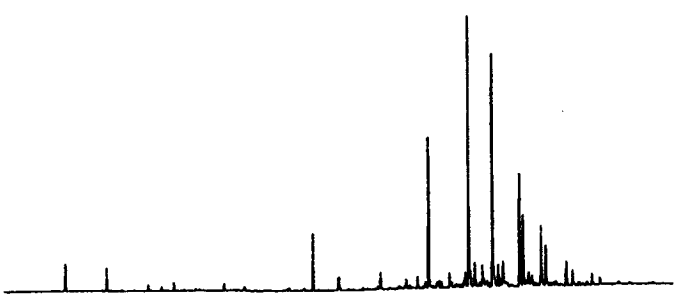
Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	29.6	31.7
%C_{28} αββS (218)	28.7	27.9
%C_{29} αββS (218)	41.6	40.4
C_{27}/C_{29} (αββS) (218)	0.71	0.78
C_{28}/C_{29} (αββS) (218)	0.69	0.69
C_{29}/C_{27} (αββS) (218)	1.41	1.28
%C_{27} αααR (217)	30.9	40.5
%C_{28} αααR (217)	23.2	18.8
%C_{29} αααR (217)	45.8	40.7
S/R (C_{29} ααα) (217)	0.78	0.74
S/(S+R) (C_{29} ααα) (217)	0.44	0.42
ββ/(αα+ββ) (C_{29}) (217)	0.52	0.61
αββS/αααR (C_{29}) (217)	0.77	
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.45	0.52
Diaster/ααα Ster (C_{27}) (217)	1.21	1.55
Terpenoids		
C19/C23 Tricyclic terpanes	0.14	0.07
C23/C24 Tricyclic terpanes	1.77	1.92
C26/C25 Tricyclic terpanes	0.77	0.73
C24 Tetracyclic/C26 Tricyclics	0.65	0.71
C24 Tetracyclic/Hopane	0.14	0.16
Ts/Tm trisnorhopanes	0.43	0.43
Ts/(Ts+Tm) trisnorhopanes	0.30	0.30
C29Ts/C29 Hopane	0.19	0.15
Bisnorhopane/Hopane	0.10	0.06
Norhopane/Hopane	0.98	1.03
Diahopane/Hopane	0.03	0.03
Oleanane/Hopane		
Gammacerane/Hopane	0.15	0.13
Moretane/(Moretane+Hopane)	0.08	0.08
H32 S/(S+R) Homohopanes	0.60	0.59
H35/H34 Homohopanes	1.12	1.07
[Steranes]/[Hopanes]	0.10	0.08
[Tricyclic terpanes]/[Hopanes]	0.49	0.52
[Tricyclic terpanes]/[Steranes]	4.80	6.75
DIAMONDOID Ratios		
Methyl Adamantane Index	0.58	0.59
Methyl Diamantane Index	0.50	0.54

BASELINE DGSI
ANALYTICAL LABORATORIES

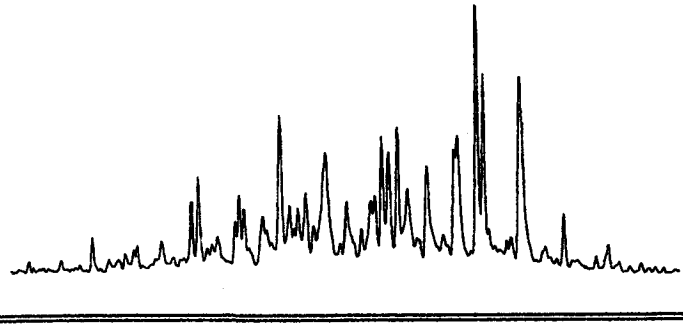
SATURATE GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135733
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275212
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST SIMPSON #2	**Geologic Age:**	
Latitude:	70.9785	**Top Depth:**	7202.5 FT
Longitude:	-154.674	**Bottom Depth:**	FT

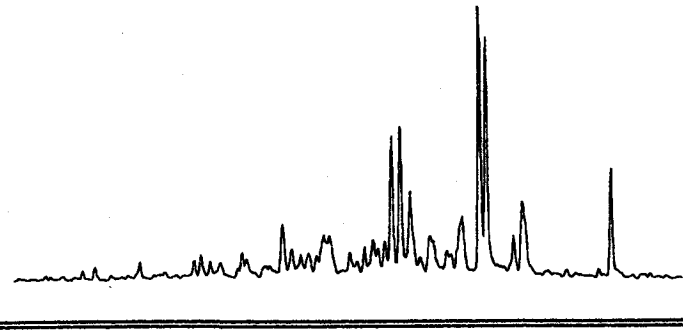
***m/z* 191: Tri- and Pentacyclics** M2041446.D



***m/z* 217: Steranes** M2041446.D



***m/z* 218: ββ Steranes** M2041446.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
%C_{27} αββS (218)	9.4	D	
%C_{28} αββS (218)	38.8	D	
%C_{29} αββS (218)	51.9	D	
%C_{27} αααR (217)	9.1	D	
%C_{28} αααR (217)	33.0	D	
%C_{29} αααR (217)	57.9	D	
S/(S+R) (C_{29} ααα) (217)	0.35	M	0.55 (0.8%)
ββS/(ββS+ααR) (C29) (217)	0.38	M	0.70 (0.9%)
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.08		
C_{27}/C_{29} (αββS) (218)	0.18	D	
C_{28}/C_{29} (αββS) (218)	0.75	D	
Diaster/ααα Ster (C_{27}) (217)	0.59	M/D	1.00 (1.4%)
C30 Sterane Index (218)		D	
Terpanes (*m/z* 191)			
Oleanane/Hopane		D/A	
Gammacerane/Hopane	0.04	D	
Norhopane/Hopane	1.01	D	
Bisnorhopane/Hopane			
Diahopane/Hopane	0.10	M/D	
Moretane/Hopane	0.11	M	0.05 (0.7%)
25-*nor*-hopane/hopane		B	
Ts/(Ts+Tm) trisnorhopanes	0.08	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.08	M	
H32 S/(R+S) Homohopanes	0.59	M	0.60 (0.6%)
H35/H34 Homohopanes	0.26	D	
C24 Tetracyclic/Hopane	0.21	D	
C24 Tetracyclic/C26 Tricyclics	19.66	D	
C23/C24 Tricyclic terpanes	1.84	D	
C19/C23 Tricyclic terpanes	4.11	D	
C26/C25 Tricyclic terpanes	1.00	D	
(C28+C29 Tricyclics)/Ts		A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.08	D	
Tricyclic terpanes/Hopanes	0.07	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	0.83	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M2041446.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*	62.322	8833	2364	100.0	100.0
125	H30_125	C30 17α(H)-hopane (125)	76.514	4459	1045	50.5	44.2
125	GCAR	γ-carotane					
125	BCAR	β-carotane					
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.632	11473	2962	129.9	125.3
191	TR20	C20 tricyclic terpane	47.708	10643	2561	120.5	108.3
191	TR21	C21 tricyclic terpane	50.741	2496	649	28.3	27.5
191	TR22	C22 tricyclic terpane	53.449	590	137	6.7	5.8
191	TR23	C23 tricyclic terpane	56.450	2790	734	31.6	31.0
191	TR24	C24 tricyclic terpane	58.011	1520	395	17.2	16.7
191	C24DEOL	C24 des-A-oleanane					
191	C24DELUP	C24 des-A-lupane					
191	TR25A	C25 tricyclic terpane (a)	61.087	724	133	8.2	5.6
191	TR25B	C25 tricyclic terpane (b)	61.152	406	146	4.6	6.2
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.059	22214	6278	251.5	265.6
191	TR26A	C26 tricyclic terpane (a)	63.297	546	102	6.2	4.3
191	TR26B	C26 tricyclic terpane (b)	63.471	584	122	6.6	5.2
191	TR28A	C28 tricyclic terpane (a)					
191	TR28B	C28 tricyclic terpane (b)					
191	TR29A	C29 tricyclic terpane (a)					
191	TR29B	C29 tricyclic terpane (b)					
191	TS	Ts 18α(H)-trisnorhopane	70.903	4896	1299	55.4	54.9
191	TM	Tm 17α(H)-trisnorhopane	71.769	58472	16435	662.0	695.2
191	TR30A	C30 tricyclic terpane (a)					
191	TR30B	C30 tricyclic terpane (b)					
191	H28	C28 17α18α21β(H)-bisnorhopane					
191	NOR25H	C29 Nor-25-hopane					
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.738	107223	29565	1213.9	1250.6
191	C29TS	C29 Ts 18α(H)-neohopane	74.868	8635	1878	97.8	79.4
191	DH30	C30 17α(H)-diahopane	75.214	10206	2735	115.5	115.7
191	M29	C29 normoretane	75.778	9881	2411	111.9	102.0
191	OL	oleanane					
191	H30	C30 17α(H)-hopane	76.536	106335	25457	1203.8	1076.9
191	M30	C30 moretane	77.338	11952	2871	135.3	121.4
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.594	49019	12366	555.0	523.1
191	H31R	C31 22R 17α(H) hopane	78.833	35263	7890	399.2	333.8
191	GAM	gammacerane	79.136	4618	709	52.3	30.0

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M2041446.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.198	26884	6637	304.4	280.8
191	H32R	C32 22R 17α(H) hopane	80.544	18314	4390	207.3	185.7
191	H33S	C33 22S 17α(H) hopane	82.061	11400	2715	129.1	114.8
191	H33R	C33 22R 17α(H) hopane	82.538	7335	1737	83.0	73.5
191	H34S	C34 22S 17α(H) hopane	83.990	5905	1288	66.9	54.5
191	H34R	C34 22R 17α(H) hopane	84.575	3547	809	40.2	34.2
191	H35S	C35 22S 17α(H) hopane	85.983	1421	310	16.1	13.1
191	H35R	C35 22R 17α(H) hopane	86.763	1053	239	11.9	10.1
217	S21	C21 sterane	53.860	2885	591	32.7	25.0
217	DIA27S	C27 βα 20S diasterane	65.724	930	242	10.5	10.2
217	C27R	C27 αα 20R sterane	70.339	1570	318	17.8	13.5
217	C28R	C28 αα 20R sterane	72.723	5678	736	64.3	31.1
217	C29S	C29 αα 20S sterane	73.373	5433	950	61.5	40.2
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.763	8751	1879	99.1	79.5
217	C29BBS	C29 ββ 20S sterane	73.914	6029	1386	68.3	58.6
217	C29R	C29 αα 20R sterane	74.694	9955	1363	112.7	57.7
218	C27ABBR	C27 ββ 20R sterane	69.646	2635	474	29.8	20.1
218	C27ABBS	C27 ββ 20S sterane	69.841	1630	256	18.5	10.8
218	C28ABBR	C28 ββ 20R sterane	71.921	5844	1249	66.2	52.8
218	C28ABBS	C28 ββ 20S sterane	72.094	6737	1334	76.3	56.4
218	C29ABBR	C29 ββ 20R sterane	73.763	10282	2406	116.4	101.8
218	C29ABBS	C29 ββ 20S sterane	73.914	9012	2134	102.0	90.3
218	C30ABBR	C30 ββ 20R sterane					
218	C30ABBS	C30 ββ 20S sterane					
259	D27S	C27 βα 20S diasterane	65.724	675	150	7.6	6.3
259	D27R	C27 βα 20R diasterane	66.569	503	95	5.7	4.0
259	D28SA	C28 βα 20S diasterane a	67.804	1188	298	13.5	12.6
259	D28SB	C28 βα 20S diasterane b	67.934	1490	321	16.9	13.6
259	D28RA	C28 βα 20R diasterane a	68.714	854	200	9.7	8.5
259	D28RB	C28 βα 20R diasterane b	68.801	770	239	8.7	10.1
259	D29S	C29 βα 20S diasterane	69.646	3510	648	39.7	27.4
259	D29R	C29 βα 20R diasterane	70.599	3292	432	37.3	18.3
259	C30TP1	C30 tetracyclic polyprenoid					
259	C30TP2	C30 tetracyclic polyprenoid					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M2041446.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane	15.283	262	113	3.0	4.8
135	2MAM	2-Methyladamantane	17.164	474	146	5.4	6.2
135	1EAM	1-Ethyladamantane	18.020	4786	1609	54.2	68.1
135	2EAM	2-Ethyladamantane					
136	AM	Adamantane					
149	13DMAM	1,3-Dimethyladamantane	15.576	296	119	3.4	5.0
149	C14DMAM	1,4-Dimethyladamantane, cis	15.743	347	126	3.9	5.3
149	T14DMAM	1,4-Dimethyladamantane, trans	16.474	723	332	8.2	14.0
149	12DMAM	1,2-Dimethyladamantane	17.498	855	346	9.7	14.6
149	1E3MAM	1-Ethyl-3-methyladamantane					
163	135TMAM	1,3,5-Trimethyladamantane	15.910	402	142	4.6	6.0
163	136TMAM	1,3,6-Trimethyladamantane	16.683	552	198	6.2	8.4
163	C134TMAM	1,3,4-Trimethyladamantane, cis	16.809	776	361	8.8	15.3
163	T134TMAM	1,3,4-Trimethyladamantane, trans	17.749	1079	295	12.2	12.5
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane	14.364	40	13	0.5	0.6
177	1357TMAM	1,3,5,7-Tetramethyladamantane	16.913	661	297	7.5	12.6
177	1257TMAM	1,2,5,7-Tetramethyladamantane	25.625	1852	523	21.0	22.1
187	4MDI	4-Methyldiamantane	27.129	2466	613	27.9	25.9
187	1MDI	1-Methyldiamantane	28.215	2477	612	28.0	25.9
187	3MDI	3-Methyldiamantane	25.165	2077	600	23.5	25.4
188	DI	Diamantane	26.064	453	120	5.1	5.1
201	49DMDI	4,9-Dimethyldiamantane	27.234	806	202	9.1	8.5
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.463	1067	249	12.1	10.5
201	48DMDI	4,8-Dimethyldiamantane	28.717	1871	406	21.2	17.2
201	34DMDI	3,4-Dimethyldiamantane	27.505	570	134	6.5	5.7
215	TMDI	Trimethyldiamantane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M2041446.D**

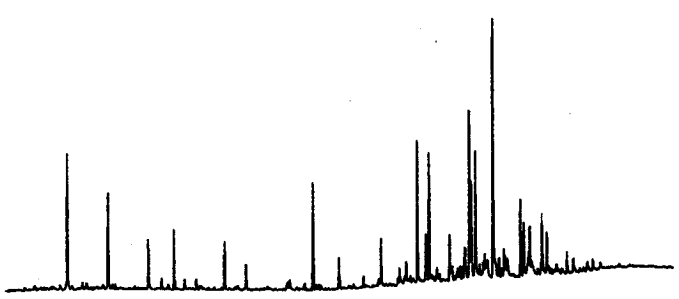
Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	9.4	6.9
%C_{28} αββS (218)	38.8	35.8
%C_{29} αββS (218)	51.9	57.3
C_{27}/C_{29} (αββS) (218)	0.18	0.12
C_{28}/C_{29} (αββS) (218)	0.75	0.63
C_{29}/C_{27} (αββS) (218)	5.53	8.34
%C_{27} αααR (217)	9.1	13.2
%C_{28} αααR (217)	33.0	30.5
%C_{29} αααR (217)	57.9	56.4
S/R (C_{29} ααα) (217)	0.55	0.70
S/(S+R) (C_{29} ααα) (217)	0.35	0.41
ββ/(αα+ββ) (C_{29}) (217)	0.49	0.59
αββS/αααR (C_{29}) (217)	0.61	
$(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29})$ (217)	0.08	0.09
Diaster/ααα Ster (C_{27}) (217)	0.59	0.76
Terpenoids		
C19/C23 Tricyclic terpanes	4.11	4.04
C23/C24 Tricyclic terpanes	1.84	1.86
C26/C25 Tricyclic terpanes	1.00	0.80
C24 Tetracyclic/C26 Tricyclics	19.66	28.03
C24 Tetracyclic/Hopane	0.21	0.25
Ts/Tm trisnorhopanes	0.08	0.08
Ts/(Ts+Tm) trisnorhopanes	0.08	0.07
C29Ts/C29 Hopane	0.08	0.06
Bisnorhopane/Hopane		
Norhopane/Hopane	1.01	1.16
Diahopane/Hopane	0.10	0.11
Oleanane/Hopane		
Gammacerane/Hopane	0.04	0.03
Moretane/(Moretane+Hopane)	0.10	0.10
H32 S/(S+R) Homohopanes	0.59	0.60
H35/H34 Homohopanes	0.26	0.26
[Steranes]/[Hopanes]	0.08	0.06
[Tricyclic terpanes]/[Hopanes]	0.07	0.07
[Tricyclic terpanes]/[Steranes]	0.83	1.16
DIAMONDOID Ratios		
Methyl Adamantane Index		
Methyl Diamantane Index	0.27	0.30

BASELINE DGSI
ANALYTICAL LABORATORIES

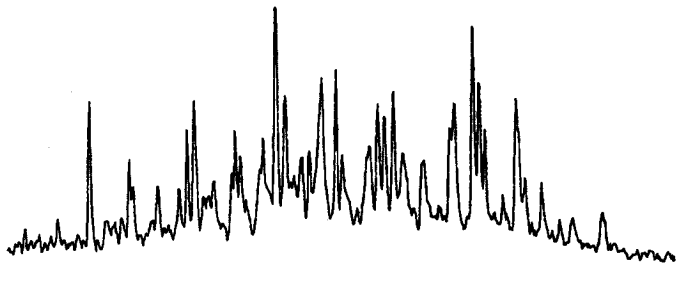
SATURATE GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135734
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275213
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST SIMPSON #2	**Geologic Age:**	
Latitude:	70.9785	**Top Depth:**	7295 FT
Longitude:	-154.674	**Bottom Depth:**	FT

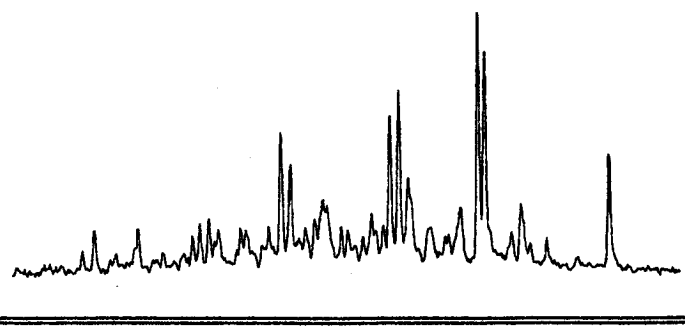
m/z 191: Tri- and Pentacyclics — M2041454.D



m/z 217: Steranes — M2041454.D



m/z 218: ββ Steranes — M2041454.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Steranes (*m/z* 217; 218)			
%C_{27} αββS (218)	24.1	D	
%C_{28} αββS (218)	35.7	D	
%C_{29} αββS (218)	40.2	D	
%C_{27} αααR (217)	24.8	D	
%C_{28} αααR (217)	30.1	D	
%C_{29} αααR (217)	45.0	D	
S/(S+R) (C_{29} ααα) (217)	0.44	M	0.55 (0.8%)
ββS/(ββS+ααR) (C29) (217)	0.43	M	0.70 (0.9%)
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.41		
C_{27}/C_{29} (αββS) (218)	0.60	D	
C_{28}/C_{29} (αββS) (218)	0.89	D	
Diaster/ααα Ster (C_{27}) (217)	1.03	M/D	1.00 (1.4%)
C30 Sterane Index (218)		D	
Terpanes (*m/z* 191)			
Oleanane/Hopane		D/A	
Gammacerane/Hopane	0.10	D	
Norhopane/Hopane	0.60	D	
Bisnorhopane/Hopane			
Diahopane/Hopane	0.48	M/D	
Moretane/Hopane	0.11	M	0.05 (0.7%)
25-*nor*-hopane/hopane		B	
Ts/(Ts+Tm) trisnorhopanes	0.56	M/D	1.00 (1.4%)
C29Ts/C29 Hopane	0.62	M	
H32 S/(R+S) Homohopanes	0.57	M	0.60 (0.6%)
H35/H34 Homohopanes	0.42	D	
C24 Tetracyclic/Hopane	0.38	D	
C24 Tetracyclic/C26 Tricyclics	7.56	D	
C23/C24 Tricyclic terpanes	1.95	D	
C19/C23 Tricyclic terpanes	2.95	D	
C26/C25 Tricyclic terpanes	0.95	D	
(C28+C29 Tricyclics)/Ts		A	
Various (*m/z* 191; 217)			
Steranes/Hopanes	0.08	D	
Tricyclic terpanes/Hopanes	0.31	M	1.00 (1.4%)
Tricyclic terpanes/Steranes	3.83	M/D	1.00 (1.4%)

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity; B=Possible Biodegradation

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M2041454.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
217	CHOL	*5β cholane (internal standard)*	62.321	14273	3757	100.0	100.0
125	H30_125	C30 17α(H)-hopane (125)	76.513	3064	458	21.5	12.2
125	GCAR	γ-carotane					
125	BCAR	β-carotane					
177	L24BNR1	24,28-bisnorlupane isomer					
177	LA24BNR	17α(H)24,28-bisnorlupane					
177	LB24BNR	17β(H)24,28-bisnorlupane					
177	L24BNR2	24,28-bisnorlupane isomer					
177	L24NOR	24-norlupane					
191	TR19	C19 tricyclic terpane	44.632	15190	3675	106.4	97.8
191	TR20	C20 tricyclic terpane	47.687	11520	2625	80.7	69.9
191	TR21	C21 tricyclic terpane	50.741	5240	1369	36.7	36.4
191	TR22	C22 tricyclic terpane	53.449	1244	279	8.7	7.4
191	TR23	C23 tricyclic terpane	56.428	5157	1323	36.1	35.2
191	TR24	C24 tricyclic terpane	57.988	2649	687	18.6	18.3
191	C24DEOL	C24 des-A-oleanane					
191	C24DELUP	C24 des-A-lupane					
191	TR25A	C25 tricyclic terpane (a)	61.086	839	188	5.9	5.0
191	TR25B	C25 tricyclic terpane (b)	61.151	758	221	5.3	5.9
191	C24DEURS	C24 des-A-ursane					
191	C24DEHOP	C24 des-E-hopane					
191	TET24	C24 tetracyclic terpane (TET)	63.058	11493	2947	80.5	78.4
191	TR26A	C26 tricyclic terpane (a)	63.296	720	153	5.0	4.1
191	TR26B	C26 tricyclic terpane (b)	63.470	801	163	5.6	4.3
191	TR28A	C28 tricyclic terpane (a)					
191	TR28B	C28 tricyclic terpane (b)					
191	TR29A	C29 tricyclic terpane (a)					
191	TR29B	C29 tricyclic terpane (b)					
191	TS	Ts 18α(H)-trisnorhopane	70.902	16127	3883	113.0	103.4
191	TM	Tm 17α(H)-trisnorhopane	71.768	12540	3465	87.9	92.2
191	TR30A	C30 tricyclic terpane (a)					
191	TR30B	C30 tricyclic terpane (b)					
191	H28	C28 17α18α21β(H)-bisnorhopane					
191	NOR25H	C29 Nor-25-hopane					
191	H29	C29 Tm 17α(H)21β(H)-norhopane	74.737	18309	4582	128.3	122.0
191	C29TS	C29 Ts 18α(H)-norneohopane	74.867	11266	2657	78.9	70.7
191	DH30	C30 17α(H)-diahopane	75.213	14530	3475	101.8	92.5
191	M29	C29 normoretane	75.777	1890	407	13.2	10.8
191	OL	oleanane					
191	H30	C30 17α(H)-hopane	76.513	30385	7041	212.9	187.4
191	M30	C30 moretane	77.337	3234	792	22.7	21.1
191	TARAX	Taraxerane					
191	H31S	C31 22S 17α(H) hopane	78.593	9363	2153	65.6	57.3
191	H31R	C31 22R 17α(H) hopane	78.832	6878	1513	48.2	40.3
191	GAM	gammacerane	79.135	3107	537	21.8	14.3

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M2041454.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
191	H32S	C32 22S 17α(H) hopane	80.197	7226	1692	50.6	45.0
191	H32R	C32 22R 17α(H) hopane	80.543	5381	1176	37.7	31.3
191	H33S	C33 22S 17α(H) hopane	82.060	2783	605	19.5	16.1
191	H33R	C33 22R 17α(H) hopane	82.537	2048	410	14.3	10.9
191	H34S	C34 22S 17α(H) hopane	83.989	1547	331	10.8	8.8
191	H34R	C34 22R 17α(H) hopane	84.574	880	175	6.2	4.7
191	H35S	C35 22S 17α(H) hopane	85.982	673	107	4.7	2.8
191	H35R	C35 22R 17α(H) hopane	86.762	347	80	2.4	2.1
217	S21	C21 sterane	53.860	4702	955	32.9	25.4
217	DIA27S	C27 βα 20S diasterane	65.723	1208	288	8.5	7.7
217	C27R	C27 αα 20R sterane	70.338	1168	187	8.2	5.0
217	C28R	C28 αα 20R sterane	72.743	1418	164	9.9	4.4
217	C29S	C29 αα 20S sterane	73.372	1651	273	11.6	7.3
217	C29BBR	C29 ββ 20R sterane(+5 βαα)	73.762	2323	420	16.3	11.2
217	C29BBS	C29 ββ 20S sterane	73.892	1629	311	11.4	8.3
217	C29R	C29 αα 20R sterane	74.672	2119	279	14.8	7.4
218	C27ABBR	C27 ββ 20R sterane	69.623	1639	297	11.5	7.9
218	C27ABBS	C27 ββ 20S sterane	69.840	1323	228	9.3	6.1
218	C28ABBR	C28 ββ 20R sterane	71.920	1829	333	12.8	8.9
218	C28ABBS	C28 ββ 20S sterane	72.093	1963	389	13.8	10.4
218	C29ABBR	C29 ββ 20R sterane	73.762	2600	558	18.2	14.9
218	C29ABBS	C29 ββ 20S sterane	73.913	2207	472	15.5	12.6
218	C30ABBR	C30 ββ 20R sterane					
218	C30ABBS	C30 ββ 20S sterane					
259	D27S	C27 βα 20S diasterane	65.723	746	175	5.2	4.7
259	D27R	C27 βα 20R diasterane	66.568	471	103	3.3	2.7
259	D28SA	C28 βα 20S diasterane a	67.781	594	140	4.2	3.7
259	D28SB	C28 βα 20S diasterane b	67.933	816	149	5.7	4.0
259	D28RA	C28 βα 20R diasterane a	68.713	563	102	3.9	2.7
259	D28RB	C28 βα 20R diasterane b	68.778	376	99	2.6	2.6
259	D29S	C29 βα 20S diasterane	69.645	1421	259	10.0	6.9
259	D29R	C29 βα 20R diasterane	70.598	1361	161	9.5	4.3
259	C30TP1	C30 tetracyclic polyprenoid	75.603	398	94	2.8	2.5
259	C30TP2	C30 tetracyclic polyprenoid	75.690	356	74	2.5	2.0

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M2041454.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
135	1MAM	1-Methyladamantane	13.404	68	27	0.5	0.7
135	2MAM	2-Methyladamantane	15.264	813	232	4.3	6.2
135	1EAM	1-Ethyladamantane	17.164	1008	326	7.1	8.7
135	2EAM	2-Ethyladamantane	18.000	8023	2600	56.2	69.2
136	AM	Adamantane					
149	13DMAM	1,3-Dimethyladamantane	13.821	117	46	0.8	1.2
149	C14DMAM	1,4-Dimethyladamantane, cis	15.555	671	232	4.7	6.2
149	T14DMAM	1,4-Dimethyladamantane, trans	15.723	728	346	5.1	9.2
149	12DMAM	1,2-Dimethyladamantane	16.475	1572	611	11.0	16.3
149	1E3MAM	1-Ethyl-3-methyladamantane	17.498	1591	579	11.1	15.4
163	135TMAM	1,3,5-Trimethyladamantane	14.135	75	36	0.5	1.0
163	136TMAM	1,3,6-Trimethyladamantane	15.911	796	373	5.6	9.9
163	C134TMAM	1,3,4-Trimethyladamantane, cis	16.663	1151	520	8.1	13.8
163	T134TMAM	1,3,4-Trimethyladamantane, trans	16.788	1538	534	10.8	14.2
163	1E35DMAM	1-Ethyl-3,5-dimethyladamantane	17.728	1708	486	12.0	12.9
177	1357TMAM	1,3,5,7-Tetramethyladamantane	14.344	41	14	0.3	0.4
177	1257TMAM	1,2,5,7-Tetramethyladamantane	16.893	949	413	6.6	11.0
187	4MDI	4-Methyldiamantane	25.625	1454	382	10.2	10.2
187	1MDI	1-Methyldiamantane	27.129	1795	401	12.6	10.7
187	3MDI	3-Methyldiamantane	28.195	1746	401	12.2	10.7
188	DI	Diamantane	25.166	1623	470	11.4	12.5
201	49DMDI	4,9-Dimethyldiamantane	26.043	387	104	2.7	2.8
201	1424DMDI	1,4 and 2,4-dimethyldiamantane	27.213	603	135	4.2	3.6
201	48DMDI	4,8-Dimethyldiamantane	27.443	825	192	5.8	5.1
201	34DMDI	3,4-Dimethyldiamantane	28.696	1399	304	9.8	8.1
215	TMDI	Trimethyldiamantane	27.485	407	98	2.9	2.6

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M2041454.D**

Miscellaneous Ratios	By Areas	By Heights
Steroids		
%C_{27} αββS (218)	24.1	20.9
%C_{28} αββS (218)	35.7	35.7
%C_{29} αββS (218)	40.2	43.3
C_{27}/C_{29} (αββS) (218)	0.60	0.48
C_{28}/C_{29} (αββS) (218)	0.89	0.82
C_{28}/C_{27} (αββS) (218)	1.67	2.07
%C_{27} αααR (217)	24.8	29.7
%C_{28} αααR (217)	30.1	26.0
%C_{29} αααR (217)	45.0	44.3
S/R (C_{29} ααα) (217)	0.78	0.98
S/(S+R) (C_{29} ααα) (217)	0.44	0.49
ββ/(αα+ββ) (C_{29}) (217)	0.51	0.57
αββS/αααR (C_{29}) (217)	0.77	
(C_{21}+C_{22})/(C_{27}+C_{28}+C_{29}) (217)	0.41	0.50
Diaster/ααα Ster (C_{27}) (217)	1.03	1.54
Terpenoids		
C19/C23 Tricyclic terpanes	2.95	2.78
C23/C24 Tricyclic terpanes	1.95	1.93
C26/C25 Tricyclic terpanes	0.95	0.77
C24 Tetracyclic/C26 Tricyclics	7.56	9.33
C24 Tetracyclic/Hopane	0.38	0.42
Ts/Tm trisnorhopanes	1.29	1.12
Ts/(Ts+Tm) trisnorhopanes	0.56	0.53
C29Ts/C29 Hopane	0.62	0.58
Bisnorhopane/Hopane		
Norhopane/Hopane	0.60	0.65
Diahopane/Hopane	0.48	0.49
Oleanane/Hopane		
Gammacerane/Hopane	0.10	0.08
Moretane/(Moretane+Hopane)	0.10	0.10
H32 S/(S+R) Homohopanes	0.57	0.59
H35/H34 Homohopanes	0.42	0.37
[Steranes]/[Hopanes]	0.08	0.06
[Tricyclic terpanes]/[Hopanes]	0.31	0.32
[Tricyclic terpanes]/[Steranes]	3.83	5.56
DIAMONDOID Ratios		
Methyl Adamantane Index	0.10	0.10
Methyl Diamantane Index	0.29	0.32

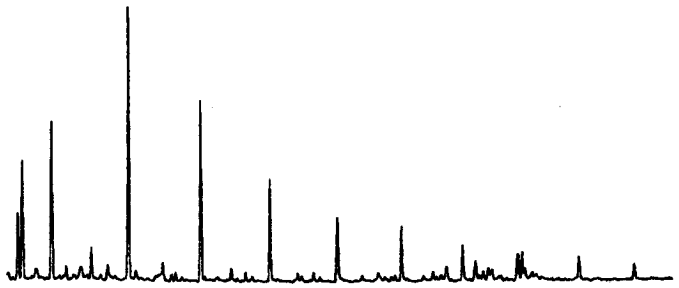
6

BASELINE DGSI
ANALYTICAL LABORATORIES

AROMATIC GCMS

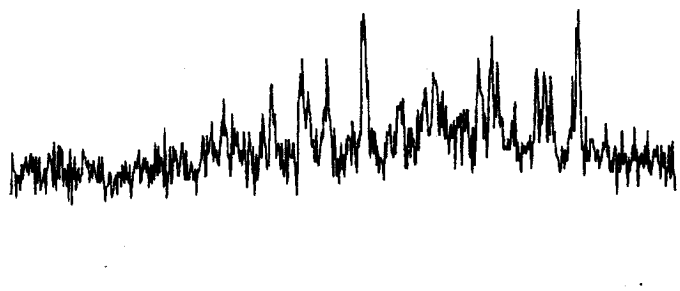
Company:	CONOCOPHILLIPS	**Client ID:**	US135726
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275205
Lease:	IKPIKPUK #1	**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	IKPIKPUK #1	**Geologic Age:**	
Latitude:	69.8267	**Top Depth:**	11320 FT
Longitude:	-155.899	**Bottom Depth:**	11340 FT

***m/z* 253: Monoaromatic steroids** M1041348.D



***m/z* 231: Triaromatic steroids** M1041348.D

***m/z* 245 Triaromatic Methylsteroids** M1041348.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.21	M	1.0 (1.3%)
TAS #1 20/20+27	0.45	M	
TAS #2 21/21+28	0.44	M	
%26 TAS	25.3	D	
%27 TAS	46.2	D	
%28 TAS	28.5	D	
%29 TAS		D	
C28/C26 20S TAS	1.64		
C28/C27 20R TAS	0.62		
Dia/Regular C27 MAS	1.23		
%27 MAS	24.6	D	
%28 MAS	43.9	D	
%29 MAS	31.5	D	
(C21+C22)/Σ MAS	0.11	M	1.0 (1.3%)
TAS/(MAS+TAS)	0.28	M	
TA28/(TA28+MA29)	0.25	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index	0.33	A	
C4/C3+C4 Mester	0.62	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	0.86	M	
Rc(a) if Ro < 1.3 (Ro%)	0.89	M	
Rc(b) if Ro > 1.3 (Ro%)	1.78	M	
MPI-2	1.01	M	
DNR-1	6.50	M	
DNR-2	1.58	M	
TNR1	1.43	M	
TDE-1	7.54	M	
TDE-2	0.30	M	
MDR	4.70	M	
Rm (Ro%)	0.88	M	
MDR23	0.73	M	
MDR1	0.31	M	
DBT/Phenanthrene	0.19	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M1041348.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)				0.0	0.0
92	16AB	C16 Alkyl Benzene	66.804	2290	481		
92	17AB	C17 Alkyl Benzene	71.650	1383	290		
92	18AB	C18 Alkyl Benzene	75.840	3701	836		
92	1THIO92	Dimethyl dibenzothiophene 1					
92	2THIO92	Dimethyl dibenzothiophene 2					
92	19AB	C19 Alkyl Benzene	79.587	657	159		
92	20AB	C20 Alkyl Benzene	83.038	1394	327		
92	21AB	C21 Alkyl Benzene	86.244	491	115		
92	22AB	C22 Alkyl Benzene	89.263	417	96		
92	23AB	C23 Alkyl Benzene	92.121	277	56		
92	PHYBz	Phytanyl Benzene					
92	24AB	C24 Alkyl Benzene	94.840	150	40		
92	25AB	C25 Alkyl Benzene	97.420	178	36		
92	26AB	C26 Alkyl Benzene					
106	16ATM	C16 Alkyl Toluene (meta)	66.055	1008	196		
106	16ATO	C16 Alkyl Toluene (ortho)	66.996	701	123		
106	17ATM	C17 Alkyl Toluene (meta)	70.953	1606	340		
106	17ATO	C17 Alkyl Toluene (ortho)	71.807	911	192		
106	18ATM	C18 Alkyl Toluene (meta)	75.196	1097	249		
106	18ATO	C18 Alkyl Toluene (ortho)	75.980	962	197		
106	1THIO106	Dimethyl dibenzothiophene 1					
106	2THIO106	Dimethyl dibenzothiophene 2					
106	19ATM	C19 Alkyl Toluene (meta)	78.960	706	160		
106	19ATO	C19 Alkyl Toluene (ortho)	79.727	628	123		
106	20ATM	C20 Alkyl Toluene (meta)	82.428	538	119		
106	20ATO	C20 Alkyl Toluene (ortho)	83.177	439	109		
106	21ATM	C21 Alkyl Toluene (meta)	85.652	302	71		
106	21ATO	C21 Alkyl Toluene (ortho)	86.366	303	66		
106	22ATM	C22 Alkyl Toluene (meta)	88.653	258	56		
106	22ATO	C22 Alkyl Toluene (ortho)	89.367	276	68		
106	23ATM	C23 Alkyl Toluene (meta)	91.529	215	37		
106	23ATO	C23 Alkyl Toluene (ortho)	92.243	174	44		
106	24ATM	C24 Alkyl Toluene (meta)	94.265	220	39		
106	24ATO	C24 Alkyl Toluene (ortho)	94.945	201	50		
106	PHYTL	Phytanyl Toluene	95.956	813	101		
106	25ATM	C25 Alkyl Toluene (meta)					
106	25ATO	C25 Alkyl Toluene (ortho)					
106	26ATM	C26 Alkyl Toluene (meta)					
106	26ATO	C26 Alkyl Toluene (ortho)					
134	15AI	C15 Aryl Isoprenoids					
134	16AI	C16 Aryl Isoprenoids					
134	17AI	C17 Aryl Isoprenoids					
134	18AI	C18 Aryl Isoprenoids	74.934	533	114		
134	19AI	C19 Aryl Isoprenoids	77.235	741	136		
134	20AI	C20 Aryl Isoprenoids	81.051	635	120		
134	21AI	C21 Aryl Isoprenoids	83.874	330	70		
134	22AI	C22 Aryl Isoprenoids	86.784	289	74		
134	ISOR	Isorenieratane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M1041348.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene					
142	1MN	1-Methylnaphthalene					
149	MTTC578	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene					
156	1EN	1-Ethylnaphthalene					
156	26DMN	2,6-Dimethylnaphthalene	47.125	285	41		
156	27DMN	2,7-Dimethylnaphthalene	47.264	313	48		
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.257	603	74		
156	16DMN	1,6-Dimethylnaphthalene	48.484	635	95		
156	23DMN	2,3-Dimethylnaphthalene	49.704	108	25		
156	14DMN	1,4-Dimethylnaphthalene	49.773	271	34		
156	15DMN	1,5-Dimethylnaphthalene	49.913	92	23		
156	12DMN	1,2-Dimethylnaphthalene	50.871	196	35		
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl					
168	DPM	Diphenylmethane	48.937	441	67		
168	3MBP	3-Methylbiphenyl	53.346	1716	257		
168	4MBP	4-Methylbiphenyl	54.008	7556	1161		
168	DBF	Dibenzofuran	55.437	300	39		
170	BB_EMN	Ethyl-methyl-Naphthalene	55.193	832	106		
170	AB_EMN	Ethyl-methyl-Naphthalene	56.396	387	50		
170	137TMN	1,3,7-Trimethylnaphthalene	56.849	1178	173		
170	136TMN	1,3,6-Trimethylnaphthalene	57.232	3501	423		
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.295	1290	175		
170	236TMN	2,3,6-Trimethylnaphthalene	58.574	1841	255		
170	127TMN	1,2,7-Trimethylnaphthalene	59.306	520	74		
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.480	1728	245		
170	124TMN	1,2,4-Trimethylnaphthalene	60.391	169	34		
170	125TMN	1,2,5-Trimethylnaphthalene	60.844	1275	152		
178	PHEN	Phenanthrene	70.343	25720	4538		
184	1357	1,3,5,7-Tetramethylnaphthalene	64.818	930	144		
184	1367	1,3,6,7-Tetramethylnaphthalene	65.950	1410	259		
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.717	945	164		
184	1257	1,2,5,7-Tetramethylnaphthalene	66.891	728	113		
184	2367	2,3,6,7-Tetramethylnaphthalene	67.257	325	63		
184	1267	1,2,6,7-Tetramethylnaphthalene	67.676	454	87		
184	1237	1,2,3,7-Tetramethylnaphthalene	67.902	128	28		
184	1236	1,2,3,6-Tetramethylnaphthalene	68.147	593	80		
184	1256	1,2,5,6-Tetramethylnaphthalene	68.879	1924	373		
184	DBT	Dibenzothiophene	69.071	5007	887		
191	BH32	C32 Benzohopane					
191	BH33	C33 Benzohopane					
191	BH34	C34 Benzohopane					
191	BH35	C35 Benzohopane					
192	3MP	3-Methylphenanthrene	75.283	9230	1879		
192	2MP	2-Methylphenanthrene	75.457	13030	2583		
192	9MP	9-Methylphenanthrene	76.154	7381	1423		
192	1MP	1-Methylphenanthrene	76.328	5736	1103		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M1041348.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene	66.299	684	113		
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene	73.226	983	187		
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene	73.470	182	42		
198	4MDBT	4 Methyl Dibenzothiophene	73.610	7287	1350		
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.394	3676	682		
198	1MDBT	1 Methyl Dibenzothiophene	75.213	1550	280		
206	36DMP	3,6-Dimethylphenanthrene	79.535	1166	227		
206	26DMP	2,6-Dimethylphenanthrene	79.761	3068	578		
206	27DMP	2,7-Dimethylphenanthrene	79.883	2042	433		
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.389	7775	1391		
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.563	4375	679		
206	17DMP	1,7-Dimethylphenanthrene	80.737	2794	602		
206	23DMP	2,3-Dimethylphenanthrene	80.999	1398	272		
206	19DMP	1,9-Dimethylphenanthrene	81.121	1102	227		
206	18DMP	1,8-Dimethylphenanthrene	81.556	530	125		
206	12DMP	1,2-Dimethylphenanthrene	82.062	373	77		
206	9_10DMP	9,10-Dimethylphenanthrene					
212	DMDBT	Dimethyldibenzothiophene	78.367	19001	685		
219	RET	Retene	86.331	3358	715		
226	TMDBT	Trimethyldibenzothiophene	83.770	13973	698		
231	231A20	C20 Triaromatic Steroid	92.365	338	74		
231	231B21	C21 Triaromatic	94.875	206	43		
231	231C26	C26 20S Triaromatic	104.051	229	46		
231	231D26	C27 20S & C26 20R Triaromatic	105.655	790	154		
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.945	376	70		
231	231F27	C27 20R Triaromatic	107.607	418	81		
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic					
231	C29TA2	C29 Triaromatic					
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.211	258	55		
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic					
245	C3S	C27 20S 3-Methyl Triaromatic Steroid	106.718	81	17		
245	C4S	C27 20S 4-Methyl Triaromatic Steroid	107.346	152	29		
245	E2S	C28 20S 2-Methyl Triaromatic Steroid					
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.252	197	35		
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.862	291	46		
245	S2S	C29 20S 2-Methyl Triaromatic Steroid	108.984	86	15		
245	DA	Triaromatic Dinosteroid a	109.298	68	16		
245	S3S	C29 20S 3-Methyl Triaromatic Steroid	109.507	163	23		
245	DB	Triaromatic Dinosteroid b	109.891	138	25		
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS	110.013	220	29		
245	E3R	C28 20R 3-Methyl Triaromatic Steroid	110.170	89	24		
245	E4R	C28 20R 4-Methyl Triaromatic Steroid	110.763	234	32		
245	DC	Triaromatic Dinosteroid c	110.989	175	38		
245	DD	Triaromatic Dinosteroid d	111.076	135	31		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M1041348.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid	111.477	39	9		
245	S3R	C29 20R 3-Methyl Triaromatic Steroid	111.721	130	29		
245	DE	Triaromatic Dinosteroid e	111.843	153	28		
245	S4R	C29 20R 4-Methyl Triaromatic Steroid	112.314	102	27		
245	DF	Triaromatic Dinosteroid f	112.419	205	45		
253	S253A	C21 Ring-C Monoaromatic Steroid	84.641	217	47		
253	S253B	C22 Monoaromatic steroid	87.081	528	92		
253	S253C	C27 Reg 5β(H),10β(CH3) 20S	97.071	261	55		
253	S253D	C27 Dia 10β(H),5β(CH3) 20S	97.211	321	70		
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R	98.692	406	95		
253	S253F	C27 Reg 5α(H),10β(CH3) 20S	98.831	182	47		
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S	99.215	923	150		
253	S253H	C27 Reg 5α(H),10β(CH3) 20R	100.495	282	57		
253	S253I	C28 Reg 5α(H),10β(CH3) 20S	100.652	476	96		
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R	100.844	690	130		
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S	100.983	638	112		
253	S253L	C29 Reg 5α(H),10β(CH3) 20S	102.273	699	129		
253	S253M	C28 Reg 5α(H),10β(CH3) 20R	102.569	496	86		
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R	102.691	426	64		
253	S253O	C29 Reg 5α(H),10β(CH3) 20R	104.278	94	30		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135726**
Well Name:	**IKPIKPUK #1**	**Project #:**	**04-501-A**
Depth:	**11320 - 11340 FT**	**Lab ID:**	**CP275205**
Sampling Point:		**File Name:**	**M1041348.D**

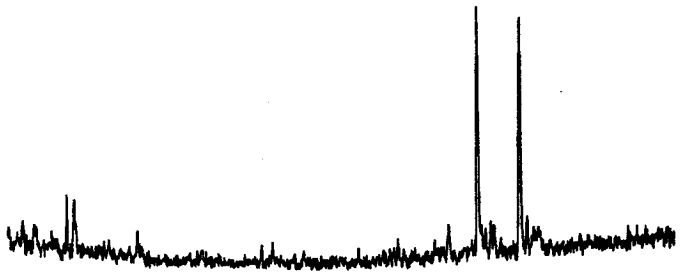
Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.21	0.22
TAS #1 20/20+27	0.45	0.48
TAS #2 21/21+28	0.44	0.44
%26TAS	25.3	25.3
%27TAS	46.2	44.5
%28TAS	28.5	30.2
%29TAS		
C28/C26 20S TAS	1.64	1.52
C28/C27 20R TAS	0.62	0.68
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	1.23	1.27
%27 MAS	24.6	28.9
%28 MAS	43.9	41.2
%29 MAS	31.5	29.9
(C21+C22)/Σ MAS	0.11	0.11
TAS/(MAS+TAS)	0.28	0.29
TA28/(TA28+MA29)	0.25	0.27
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.33	0.37
C4/C3+C4 Mester	0.62	0.56
Phenanthrenes and Naphthalenes		
MPI-1	0.86	0.95
MPI-2	1.01	1.10
Rc(a) if Ro < 1.3 (Ro%)	0.89	0.94
Rc(b) if Ro > 1.3 (Ro%)	1.78	1.73
DNR-1	6.50	3.87
DNR-2	1.58	1.51
TNR1	1.43	1.46
TDE-1	7.54	4.47
TDE-2	0.30	0.30
MDR	4.70	4.82
Rm (Ro%)	0.88	0.89
MDR23	0.73	0.77
MDR1	0.31	0.32
DBT/Phenanthrene	0.19	0.20

BASELINE DGSI
ANALYTICAL LABORATORIES

AROMATIC GCMS

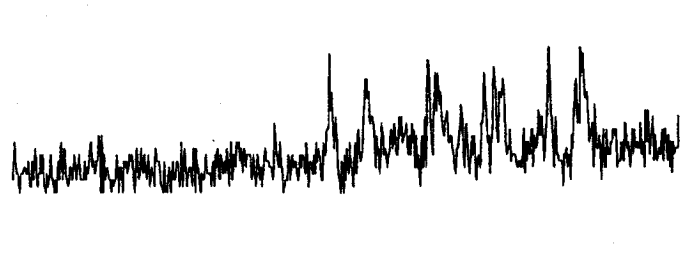
Company:	CONOCOPHILLIPS	**Client ID:**	US135727
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275206
Lease:	INIGOK #1	**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	INIGOK #1	**Geologic Age:**	
Latitude:	70.0003	**Top Depth:**	13690 FT
Longitude:	-153.095	**Bottom Depth:**	13710 FT

***m/z* 253: Monoaromatic steroids** M1041349.D



***m/z* 231: Triaromatic steroids** M1041349.D

***m/z* 245 Triaromatic Methylsteroids** M1041349.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.27	M	1.0 (1.3%)
TAS #1 20/20+27	0.47	M	
TAS #2 21/21+28	0.49	M	
%26 TAS	15.7	D	
%27 TAS	53.9	D	
%28 TAS	30.4	D	
%29 TAS		D	
C28/C26 20S TAS	2.48		
C28/C27 20R TAS	0.56		
Dia/Regular C27 MAS	1.60		
%27 MAS	27.2	D	
%28 MAS	38.8	D	
%29 MAS	34.0	D	
(C21+C22)/Σ MAS	0.19	M	1.0 (1.3%)
TAS/(MAS+TAS)	0.42	M	
TA28/(TA28+MA29)	0.39	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index	0.41	A	
C4/C3+C4 Mester	0.57	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	0.74	M	
Rc(a) if Ro < 1.3 (Ro%)	0.81	M	
Rc(b) if Ro > 1.3 (Ro%)	1.86	M	
MPI-2	0.83	M	
DNR-1	2.13	M	
DNR-2	1.14	M	
TNR1	0.96	M	
TDE-1	5.16	M	
TDE-2	0.26	M	
MDR	3.05	M	
Rm (Ro%)	0.75	M	
MDR23	1.00	M	
MDR1	0.56	M	
DBT/Phenanthrene	0.08	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M1041349.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)				0.0	0.0
92	16AB	C16 Alkyl Benzene	66.804	1817	391		
92	17AB	C17 Alkyl Benzene	71.631	620	127		
92	18AB	C18 Alkyl Benzene	75.842	2363	543		
92	1THIO92	Dimethyl dibenzothiophene 1	77.584	357	52		
92	2THIO92	Dimethyl dibenzothiophene 2	78.351	222	36		
92	19AB	C19 Alkyl Benzene	79.588	345	86		
92	20AB	C20 Alkyl Benzene	83.039	801	183		
92	21AB	C21 Alkyl Benzene	86.228	327	85		
92	22AB	C22 Alkyl Benzene	89.245	341	62		
92	23AB	C23 Alkyl Benzene	92.103	158	32		
92	PHYBz	Phytanyl Benzene					
92	24AB	C24 Alkyl Benzene	94.822	205	53		
92	25AB	C25 Alkyl Benzene					
92	26AB	C26 Alkyl Benzene					
106	16ATM	C16 Alkyl Toluene (meta)	66.037	582	122		
106	16ATO	C16 Alkyl Toluene (ortho)	66.995	516	106		
106	17ATM	C17 Alkyl Toluene (meta)	70.952	1000	207		
106	17ATO	C17 Alkyl Toluene (ortho)	71.806	568	131		
106	18ATM	C18 Alkyl Toluene (meta)	75.179	587	132		
106	18ATO	C18 Alkyl Toluene (ortho)	75.981	554	130		
106	1THIO106	Dimethyl dibenzothiophene 1	77.637	311	51		
106	2THIO106	Dimethyl dibenzothiophene 2	78.525	254	40		
106	19ATM	C19 Alkyl Toluene (meta)	78.978	370	88		
106	19ATO	C19 Alkyl Toluene (ortho)	79.728	460	99		
106	20ATM	C20 Alkyl Toluene (meta)	82.411	292	58		
106	20ATO	C20 Alkyl Toluene (ortho)	83.161	318	83		
106	21ATM	C21 Alkyl Toluene (meta)	85.653	199	42		
106	21ATO	C21 Alkyl Toluene (ortho)	86.367	276	67		
106	22ATM	C22 Alkyl Toluene (meta)	88.670	289	49		
106	22ATO	C22 Alkyl Toluene (ortho)	89.384	189	44		
106	23ATM	C23 Alkyl Toluene (meta)	91.545	190	42		
106	23ATO	C23 Alkyl Toluene (ortho)	92.208	130	26		
106	24ATM	C24 Alkyl Toluene (meta)	94.264	95	22		
106	24ATO	C24 Alkyl Toluene (ortho)	94.962	101	22		
106	PHYTL	Phytanyl Toluene	95.955	389	53		
106	25ATM	C25 Alkyl Toluene (meta)					
106	25ATO	C25 Alkyl Toluene (ortho)					
106	26ATM	C26 Alkyl Toluene (meta)					
106	26ATO	C26 Alkyl Toluene (ortho)					
134	15AI	C15 Aryl Isoprenoids	60.913	140	27		
134	16AI	C16 Aryl Isoprenoids	66.089	247	47		
134	17AI	C17 Aryl Isoprenoids	70.778	179	32		
134	18AI	C18 Aryl Isoprenoids	74.918	453	88		
134	19AI	C19 Aryl Isoprenoids	77.218	739	135		
134	20AI	C20 Aryl Isoprenoids	81.035	642	111		
134	21AI	C21 Aryl Isoprenoids	83.858	281	51		
134	22AI	C22 Aryl Isoprenoids					
134	ISOR	Isorenieratane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M1041349.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene	37.943	73	13		
142	1MN	1-Methylnaphthalene	39.198	51	8		
149	MTTC578	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene					
156	1EN	1-Ethylnaphthalene					
156	26DMN	2,6-Dimethylnaphthalene	47.092	140	25		
156	27DMN	2,7-Dimethylnaphthalene	47.232	163	23		
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.225	451	58		
156	16DMN	1,6-Dimethylnaphthalene	48.452	412	54		
156	23DMN	2,3-Dimethylnaphthalene	49.671	72	19		
156	14DMN	1,4-Dimethylnaphthalene	49.741	194	29		
156	15DMN	1,5-Dimethylnaphthalene	49.846	142	26		
156	12DMN	1,2-Dimethylnaphthalene	50.856	151	24		
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl					
168	DPM	Diphenylmethane					
168	3MBP	3-Methylbiphenyl	53.331	1475	229		
168	4MBP	4-Methylbiphenyl	53.993	643	92		
168	DBF	Dibenzofuran	55.440	603	79		
170	BB_EMN	Ethyl-methyl-Naphthalene	55.161	702	89		
170	AB_EMN	Ethyl-methyl-Naphthalene	56.381	428	61		
170	137TMN	1,3,7-Trimethylnaphthalene	56.834	1844	274		
170	136TMN	1,3,6-Trimethylnaphthalene	57.217	3120	482		
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.280	2507	343		
170	236TMN	2,3,6-Trimethylnaphthalene	58.542	2419	369		
170	127TMN	1,2,7-Trimethylnaphthalene	59.274	757	126		
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.448	2905	404		
170	124TMN	1,2,4-Trimethylnaphthalene	60.391	299	54		
170	125TMN	1,2,5-Trimethylnaphthalene	60.809	1543	252		
178	PHEN	Phenanthrene	70.324	40441	7573		
184	1357	1,3,5,7-Tetramethylnaphthalene	64.782	1234	219		
184	1367	1,3,6,7-Tetramethylnaphthalene	65.950	1853	339		
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.699	1470	243		
184	1257	1,2,5,7-Tetramethylnaphthalene	66.891	938	168		
184	2367	2,3,6,7-Tetramethylnaphthalene	67.257	502	100		
184	1267	1,2,6,7-Tetramethylnaphthalene	67.675	753	139		
184	1237	1,2,3,7-Tetramethylnaphthalene	67.867	314	63		
184	1236	1,2,3,6-Tetramethylnaphthalene	68.129	832	118		
184	1256	1,2,5,6-Tetramethylnaphthalene	68.861	1575	291		
184	DBT	Dibenzothiophene	69.052	3423	617		
191	BH32	C32 Benzohopane					
191	BH33	C33 Benzohopane					
191	BH34	C34 Benzohopane					
191	BH35	C35 Benzohopane					
192	3MP	3-Methylphenanthrene	75.266	14188	2888		
192	2MP	2-Methylphenanthrene	75.441	18222	3546		
192	9MP	9-Methylphenanthrene	76.138	12778	2481		
192	1MP	1-Methylphenanthrene	76.330	12528	2487		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M1041349.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene	66.298	1139	211		
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene	73.158	203	40		
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene	73.489	181	37		
198	4MDBT	4 Methyl Dibenzothiophene	73.611	5829	1161		
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.395	3427	618		
198	1MDBT	1 Methyl Dibenzothiophene	75.197	1910	363		
206	36DMP	3,6-Dimethylphenanthrene	79.519	1405	297		
206	26DMP	2,6-Dimethylphenanthrene	79.763	3208	672		
206	27DMP	2,7-Dimethylphenanthrene	79.867	1917	434		
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.373	9767	1825		
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.582	5025	835		
206	17DMP	1,7-Dimethylphenanthrene	80.721	3828	805		
206	23DMP	2,3-Dimethylphenanthrene	81.000	1636	322		
206	19DMP	1,9-Dimethylphenanthrene	81.122	1878	375		
206	18DMP	1,8-Dimethylphenanthrene	81.540	937	174		
206	12DMP	1,2-Dimethylphenanthrene	82.045	777	169		
206	9_10DMP	9,10-Dimethylphenanthrene					
212	DMDBT	Dimethyldibenzothiophene	78.351	17023	719		
219	RET	Retene	86.332	2375	516		
226	TMDBT	Trimethyldibenzothiophene	81.697	13300	351		
231	231A20	C20 Triaromatic Steroid	92.382	229	48		
231	231B21	C21 Triaromatic	94.857	137	25		
231	231C26	C26 20S Triaromatic	104.069	75	19		
231	231D26	C27 20S & C26 20R Triaromatic	105.638	344	65		
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.963	186	32		
231	231F27	C27 20R Triaromatic	107.590	257	44		
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic					
231	C29TA2	C29 Triaromatic					
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.194	145	28		
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic					
245	C3S	C27 20S 3-Methyl Triaromatic Steroid	106.701	25	7		
245	C4S	C27 20S 4-Methyl Triaromatic Steroid	107.329	26	9		
245	E2S	C28 20S 2-Methyl Triaromatic Steroid					
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.235	89	20		
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.828	113	17		
245	S2S	C29 20S 2-Methyl Triaromatic Steroid					
245	DA	Triaromatic Dinosteroid a	109.299	48	9		
245	S3S	C29 20S 3-Methyl Triaromatic Steroid	109.386	84	10		
245	DB	Triaromatic Dinosteroid b	109.874	82	20		
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS	109.996	153	18		
245	E3R	C28 20R 3-Methyl Triaromatic Steroid	110.188	83	12		
245	E4R	C28 20R 4-Methyl Triaromatic Steroid	110.798	87	17		
245	DC	Triaromatic Dinosteroid c	110.955	91	18		
245	DD	Triaromatic Dinosteroid d	111.112	98	16		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M1041349.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid					
245	S3R	C29 20R 3-Methyl Triaromatic Steroid	111.687	62	12		
245	DE	Triaromatic Dinosteroid e	111.861	107	22		
245	S4R	C29 20R 4-Methyl Triaromatic Steroid	112.315	108	17		
245	DF	Triaromatic Dinosteroid f	112.384	144	22		
253	S253A	C21 Ring-C Monoaromatic Steroid	84.642	242	46		
253	S253B	C22 Monoaromatic steroid	87.082	114	24		
253	S253C	C27 Reg 5β(H),10β(CH3) 20S	97.053	58	15		
253	S253D	C27 Dia 10β(H),5β(CH3) 20S	97.210	93	22		
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R	98.674	82	18		
253	S253F	C27 Reg 5α(H),10β(CH3) 20S	98.814	60	12		
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S	99.214	177	29		
253	S253H	C27 Reg 5α(H),10β(CH3) 20R	100.495	119	27		
253	S253I	C28 Reg 5α(H),10β(CH3) 20S	100.652	123	24		
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R	100.844	159	30		
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S	100.966	147	27		
253	S253L	C29 Reg 5α(H),10β(CH3) 20S	102.274	182	32		
253	S253M	C28 Reg 5α(H),10β(CH3) 20R	102.535	129	22		
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R	102.692	140	22		
253	S253O	C29 Reg 5α(H),10β(CH3) 20R	104.331	46	17		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135727**
Well Name:	**INIGOK #1**	**Project #:**	**04-501-A**
Depth:	**13690 - 13710 FT**	**Lab ID:**	**CP275206**
Sampling Point:		**File Name:**	**M1041349.D**

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.27	0.28
TAS #1 20/20+27	0.47	0.52
TAS #2 21/21+28	0.49	0.47
%26TAS	15.7	20.9
%27TAS	53.9	48.4
%28TAS	30.4	30.8
%29TAS		
C28/C26 20S TAS	2.48	1.68
C28/C27 20R TAS	0.56	0.64
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	1.60	1.47
%27 MAS	27.2	31.6
%28 MAS	38.8	35.4
%29 MAS	34.0	33.0
(C21+C22)/Σ MAS	0.19	0.19
TAS/(MAS+TAS)	0.42	0.42
TA28/(TA28+MA29)	0.39	0.38
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.41	0.43
C4/C3+C4 Mester	0.57	0.58
Phenanthrenes and Naphthalenes		
MPI-1	0.74	0.77
MPI-2	0.83	0.85
Rc(a) if Ro < 1.3 (Ro%)	0.81	0.83
Rc(b) if Ro > 1.3 (Ro%)	1.86	1.84
DNR-1	2.13	1.85
DNR-2	1.14	1.00
TNR1	0.96	1.08
TDE-1	5.16	4.67
TDE-2	0.26	0.31
MDR	3.05	3.20
Rm (Ro%)	0.75	0.76
MDR23	1.00	1.00
MDR1	0.56	0.59
DBT/Phenanthrene	0.08	0.08

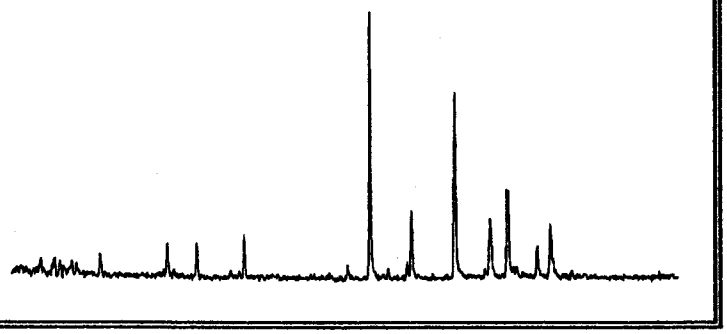
BASELINE DGSI
ANALYTICAL LABORATORIES

AROMATIC GCMS

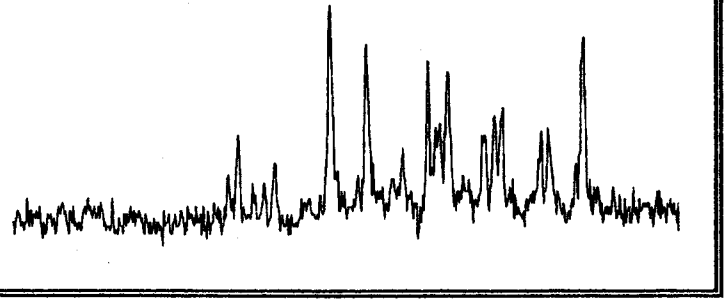
Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Country:	**UNITED STATES**	**Project #:**	**04-501-A**
Basin:		**Lab ID:**	**CP275207**
Lease:		**Sample Type:**	**CUTTINGS**
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	**EAST TESHEKPUK 1**	**Geologic Age:**	
Latitude:	**70.5694**	**Top Depth:**	**9620 FT**
Longitude:	**-152.943**	**Bottom Depth:**	**9640 FT**

m/z 253: Monoaromatic steroids M1041350.D

m/z 231: Triaromatic steroids M1041350.D



m/z 245 Triaromatic Methylsteroids M1041350.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.11	M	1.0 (1.3%)
TAS #1 20/20+27	0.19	M	
TAS #2 21/21+28	0.39	M	
%26 TAS	28.5	D	
%27 TAS	47.1	D	
%28 TAS	24.4	D	
%29 TAS		D	
C28/C26 20S TAS	1.05		
C28/C27 20R TAS	0.52		
Dia/Regular C27 MAS	0.93		
%27 MAS	31.7	D	
%28 MAS	44.8	D	
%29 MAS	23.5	D	
(C21+C22)/Σ MAS	0.11	M	1.0 (1.3%)
TAS/(MAS+TAS)	0.53	M	
TA28/(TA28+MA29)	0.55	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index	0.36	A	
C4/C3+C4 Mester	0.39	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	1.13	M	
Rc(a) if Ro < 1.3 (Ro%)	1.05	M	
Rc(b) if Ro > 1.3 (Ro%)	1.62	M	
MPI-2	1.32	M	
DNR-1	4.67	M	
DNR-2	2.87	M	
TNR1	1.57	M	
TDE-1	6.31	M	
TDE-2	0.27	M	
MDR	7.23	M	
Rm (Ro%)	1.81	M	
MDR23	0.93	M	
MDR1	0.25	M	
DBT/Phenanthrene	0.14	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M1041350.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)				0.0	0.0
92	16AB	C16 Alkyl Benzene	66.786	1716	341		
92	17AB	C17 Alkyl Benzene	71.649	1094	231		
92	18AB	C18 Alkyl Benzene	75.842	2549	603		
92	1THIO92	Dimethyl dibenzothiophene 1	77.550	588	95		
92	2THIO92	Dimethyl dibenzothiophene 2	78.351	219	33		
92	19AB	C19 Alkyl Benzene	79.588	386	96		
92	20AB	C20 Alkyl Benzene	83.022	887	215		
92	21AB	C21 Alkyl Benzene	86.228	274	67		
92	22AB	C22 Alkyl Benzene	89.245	270	50		
92	23AB	C23 Alkyl Benzene	92.086	97	25		
92	PHYBz	Phytanyl Benzene	94.003	91	15		
92	24AB	C24 Alkyl Benzene	94.822	146	31		
92	25AB	C25 Alkyl Benzene					
92	26AB	C26 Alkyl Benzene					
106	16ATM	C16 Alkyl Toluene (meta)	66.055	818	156		
106	16ATO	C16 Alkyl Toluene (ortho)	66.996	580	111		
106	17ATM	C17 Alkyl Toluene (meta)	70.935	1366	278		
106	17ATO	C17 Alkyl Toluene (ortho)	71.806	748	171		
106	18ATM	C18 Alkyl Toluene (meta)	75.180	896	191		
106	18ATO	C18 Alkyl Toluene (ortho)	75.981	530	129		
106	1THIO106	Dimethyl dibenzothiophene 1	77.550	553	81		
106	2THIO106	Dimethyl dibenzothiophene 2	78.403	188	27		
106	19ATM	C19 Alkyl Toluene (meta)	78.961	457	105		
106	19ATO	C19 Alkyl Toluene (ortho)	79.728	376	92		
106	20ATM	C20 Alkyl Toluene (meta)	82.429	225	63		
106	20ATO	C20 Alkyl Toluene (ortho)	83.161	219	53		
106	21ATM	C21 Alkyl Toluene (meta)	85.653	215	40		
106	21ATO	C21 Alkyl Toluene (ortho)	86.350	192	53		
106	22ATM	C22 Alkyl Toluene (meta)	88.670	170	44		
106	22ATO	C22 Alkyl Toluene (ortho)	89.367	153	36		
106	23ATM	C23 Alkyl Toluene (meta)	91.546	111	24		
106	23ATO	C23 Alkyl Toluene (ortho)	92.225	100	27		
106	24ATM	C24 Alkyl Toluene (meta)					
106	24ATO	C24 Alkyl Toluene (ortho)					
106	PHYTL	Phytanyl Toluene	95.851	711	61		
106	25ATM	C25 Alkyl Toluene (meta)					
106	25ATO	C25 Alkyl Toluene (ortho)					
106	26ATM	C26 Alkyl Toluene (meta)					
106	26ATO	C26 Alkyl Toluene (ortho)					
134	15AI	C15 Aryl Isoprenoids					
134	16AI	C16 Aryl Isoprenoids	66.089	144	24		
134	17AI	C17 Aryl Isoprenoids					
134	18AI	C18 Aryl Isoprenoids	74.918	487	92		
134	19AI	C19 Aryl Isoprenoids	77.218	573	107		
134	20AI	C20 Aryl Isoprenoids	81.035	466	94		
134	21AI	C21 Aryl Isoprenoids	83.858	171	40		
134	22AI	C22 Aryl Isoprenoids	86.786	130	35		
134	ISOR	Isorenieratane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M1041350.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene	37.940	117	18		
142	1MN	1-Methylnaphthalene	39.213	67	12		
149	MTTC5?8	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene					
156	1EN	1-Ethylnaphthalene					
156	26DMN	2,6-Dimethylnaphthalene	47.107	56	9		
156	27DMN	2,7-Dimethylnaphthalene	47.229	56	10		
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.222	105	14		
156	16DMN	1,6-Dimethylnaphthalene	48.466	119	18		
156	23DMN	2,3-Dimethylnaphthalene	49.669	16	5		
156	14DMN	1,4-Dimethylnaphthalene	49.756	23	7		
156	15DMN	1,5-Dimethylnaphthalene	49.878	24	6		
156	12DMN	1,2-Dimethylnaphthalene	50.819	27	5		
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl					
168	DPM	Diphenylmethane					
168	3MBP	3-Methylbiphenyl	53.346	183	27		
168	4MBP	4-Methylbiphenyl	53.990	94	13		
168	DBF	Dibenzofuran	55.419	74	11		
170	BB_EMN	Ethyl-methyl-Naphthalene	55.175	120	16		
170	AB_EMN	Ethyl-methyl-Naphthalene	56.413	71	12		
170	137TMN	1,3,7-Trimethylnaphthalene	56.814	313	45		
170	136TMN	1,3,6-Trimethylnaphthalene	57.197	621	87		
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.277	368	51		
170	236TMN	2,3,6-Trimethylnaphthalene	58.539	579	96		
170	127TMN	1,2,7-Trimethylnaphthalene	59.306	185	30		
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.445	682	94		
170	124TMN	1,2,4-Trimethylnaphthalene	60.356	71	14		
170	125TMN	1,2,5-Trimethylnaphthalene	60.827	448	77		
178	PHEN	Phenanthrene	70.325	24948	4688		
184	1357	1,3,5,7-Tetramethylnaphthalene	64.782	655	104		
184	1367	1,3,6,7-Tetramethylnaphthalene	65.950	1106	211		
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.699	801	130		
184	1257	1,2,5,7-Tetramethylnaphthalene	66.874	518	97		
184	2367	2,3,6,7-Tetramethylnaphthalene	67.240	375	74		
184	1267	1,2,6,7-Tetramethylnaphthalene	67.675	464	98		
184	1237	1,2,3,7-Tetramethylnaphthalene	67.884	145	30		
184	1236	1,2,3,6-Tetramethylnaphthalene	68.129	548	77		
184	1256	1,2,5,6-Tetramethylnaphthalene	68.843	885	161		
184	DBT	Dibenzothiophene	69.052	3368	629		
191	BH32	C32 Benzohopane					
191	BH33	C33 Benzohopane					
191	BH34	C34 Benzohopane					
191	BH35	C35 Benzohopane					
192	3MP	3-Methylphenanthrene	75.267	11504	2379		
192	2MP	2-Methylphenanthrene	75.441	16226	3276		
192	9MP	9-Methylphenanthrene	76.138	6788	1383		
192	1MP	1-Methylphenanthrene	76.330	5195	995		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M1041350.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene	66.299	530	98		
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene	73.141	92	21		
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene	73.507	90	21		
198	4MDBT	4 Methyl Dibenzothiophene	73.594	6203	1189		
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.378	3145	581		
198	1MDBT	1 Methyl Dibenzothiophene	75.197	858	170		
206	36DMP	3,6-Dimethylphenanthrene	79.501	1520	324		
206	26DMP	2,6-Dimethylphenanthrene	79.763	3980	846		
206	27DMP	2,7-Dimethylphenanthrene	79.867	2430	543		
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.373	6465	1237		
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.564	3518	572		
206	17DMP	1,7-Dimethylphenanthrene	80.721	2592	561		
206	23DMP	2,3-Dimethylphenanthrene	81.000	1560	295		
206	19DMP	1,9-Dimethylphenanthrene	81.105	743	167		
206	18DMP	1,8-Dimethylphenanthrene	81.523	403	82		
206	12DMP	1,2-Dimethylphenanthrene	82.046	228	51		
206	9_10DMP	9,10-Dimethylphenanthrene					
212	DMDBT	Dimethyldibenzothiophene	77.584	12136	663		
219	RET	Retene	86.315	1675	359		
226	TMDBT	Trimethyldibenzothiophene	81.697	6411	298		
231	231A20	C20 Triaromatic Steroid	92.365	218	40		
231	231B21	C21 Triaromatic	94.892	303	58		
231	231C26	C26 20S Triaromatic	104.051	555	116		
231	231D26	C27 20S & C26 20R Triaromatic	105.655	1624	312		
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.963	585	99		
231	231F27	C27 20R Triaromatic	107.573	916	147		
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic					
231	C29TA2	C29 Triaromatic					
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.194	475	92		
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic					
245	C3S	C27 20S 3-Methyl Triaromatic Steroid	106.736	113	24		
245	C4S	C27 20S 4-Methyl Triaromatic Steroid	107.346	91	17		
245	E2S	C28 20S 2-Methyl Triaromatic Steroid					
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.253	304	54		
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.845	238	43		
245	S2S	C29 20S 2-Methyl Triaromatic Steroid					
245	DA	Triaromatic Dinosteroid a	109.264	59	9		
245	S3S	C29 20S 3-Methyl Triaromatic Steroid	109.455	69	17		
245	DB	Triaromatic Dinosteroid b	109.874	142	39		
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS	110.066	199	23		
245	E3R	C28 20R 3-Methyl Triaromatic Steroid	110.188	214	36		
245	E4R	C28 20R 4-Methyl Triaromatic Steroid	110.745	133	20		
245	DC	Triaromatic Dinosteroid c	110.955	133	25		
245	DD	Triaromatic Dinosteroid d	111.094	132	27		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M1041350.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid					
245	S3R	C29 20R 3-Methyl Triaromatic Steroid	111.722	102	21		
245	DE	Triaromatic Dinosteroid e	111.826	127	22		
245	S4R	C29 20R 4-Methyl Triaromatic Steroid	112.297	45	13		
245	DF	Triaromatic Dinosteroid f	112.419	241	45		
253	S253A	C21 Ring-C Monoaromatic Steroid	84.607	249	53		
253	S253B	C22 Monoaromatic steroid	87.082	188	29		
253	S253C	C27 Reg 5β(H),10β(CH3) 20S	97.071	226	43		
253	S253D	C27 Dia 10β(H),5β(CH3) 20S	97.210	210	45		
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R	98.674	232	51		
253	S253F	C27 Reg 5α(H),10β(CH3) 20S	98.814	300	44		
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S	99.197	539	89		
253	S253H	C27 Reg 5α(H),10β(CH3) 20R	100.495	190	39		
253	S253I	C28 Reg 5α(H),10β(CH3) 20S	100.652	288	59		
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R	100.861	424	77		
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S	101.001	278	55		
253	S253L	C29 Reg 5α(H),10β(CH3) 20S	102.256	325	52		
253	S253M	C28 Reg 5α(H),10β(CH3) 20R	102.535	387	59		
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R	102.692	254	40		
253	S253O	C29 Reg 5α(H),10β(CH3) 20R					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135728**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9620 - 9640 FT**	**Lab ID:**	**CP275207**
Sampling Point:		**File Name:**	**M1041350.D**

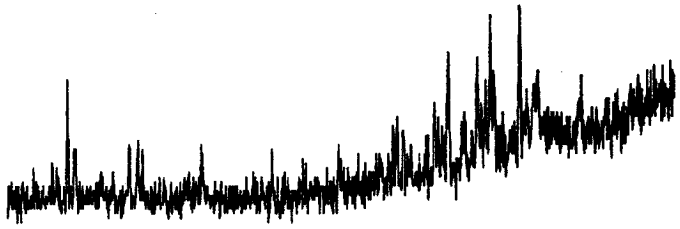
Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.11	0.11
TAS #1 20/20+27	0.19	0.21
TAS #2 21/21+28	0.39	0.39
%26TAS	28.5	32.7
%27TAS	47.1	41.4
%28TAS	24.4	25.9
%29TAS		
C28/C26 20S TAS	1.05	0.85
C28/C27 20R TAS	0.52	0.63
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	0.93	1.05
%27 MAS	31.7	34.0
%28 MAS	44.8	43.5
%29 MAS	23.5	22.5
(C21+C22)/Σ MAS	0.11	0.11
TAS/(MAS+TAS)	0.53	0.54
TA28/(TA28+MA29)	0.55	0.57
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.36	0.38
C4/C3+C4 Mester	0.39	0.38
Phenanthrenes and Naphthalenes		
MPI-1	1.13	1.20
MPI-2	1.32	1.39
Rc(a) if Ro < 1.3 (Ro%)	1.05	1.09
Rc(b) if Ro > 1.3 (Ro%)	1.62	1.58
DNR-1	4.67	3.17
DNR-2	2.87	1.58
TNR1	1.57	1.88
TDE-1	6.31	5.50
TDE-2	0.27	0.32
MDR	7.23	6.99
Rm (Ro%)	1.81	1.66
MDR23	0.93	0.92
MDR1	0.25	0.27
DBT/Phenanthrene	0.14	0.13

BASELINE DGSI
ANALYTICAL LABORATORIES

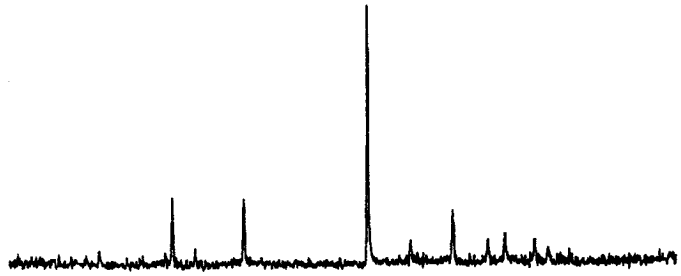
AROMATIC GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135729
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275208
Lease:		**Sample Type:**	CUTTINGS
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST TESHEKPUK 1	**Geologic Age:**	
Latitude:	70.5694	**Top Depth:**	9660 FT
Longitude:	-152.943	**Bottom Depth:**	9680 FT

***m/z* 253: Monoaromatic steroids** M1041351.D



***m/z* 231: Triaromatic steroids** M1041351.D



***m/z* 245 Triaromatic Methylsteroids** M1041351.D

RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.14	M	1.0 (1.3%)
TAS #1 20/20+27	0.28	M	
TAS #2 21/21+28	0.44	M	
%26 TAS	36.1	D	
%27 TAS	41.5	D	
%28 TAS	22.4	D	
%29 TAS		D	
C28/C26 20S TAS	0.83		
C28/C27 20R TAS	0.54		
Dia/Regular C27 MAS	1.23		
%27 MAS	25.9	D	
%28 MAS	44.0	D	
%29 MAS	30.1	D	
(C21+C22)/Σ MAS	0.11	M	1.0 (1.3%)
TAS/(MAS+TAS)	0.30	M	
TA28/(TA28+MA29)	0.26	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index		A	
C4/C3+C4 Mester		A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	1.35	M	
Rc(a) if Ro < 1.3 (Ro%)	1.18	M	
Rc(b) if Ro > 1.3 (Ro%)	1.49	M	
MPI-2	1.60	M	
DNR-1		M	
DNR-2		M	
TNR1	1.00	M	
TDE-1		M	
TDE-2	0.55	M	
MDR	8.34	M	
Rm (Ro%)	2.74	M	
MDR23	1.33	M	
MDR1	0.30	M	
DBT/Phenanthrene	0.22	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M1041351.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)				0.0	0.0
92	16AB	C16 Alkyl Benzene	66.786	197	39		
92	17AB	C17 Alkyl Benzene	71.649	161	37		
92	18AB	C18 Alkyl Benzene	75.823	587	132		
92	1THIO92	Dimethyl dibenzothiophene 1					
92	2THIO92	Dimethyl dibenzothiophene 2					
92	19AB	C19 Alkyl Benzene	79.569	124	32		
92	20AB	C20 Alkyl Benzene	83.020	315	72		
92	21AB	C21 Alkyl Benzene	86.244	115	26		
92	22AB	C22 Alkyl Benzene	89.280	193	30		
92	23AB	C23 Alkyl Benzene	92.086	61	13		
92	PHYBz	Phytanyl Benzene					
92	24AB	C24 Alkyl Benzene	94.822	123	22		
92	25AB	C25 Alkyl Benzene	97.419	67	10		
92	26AB	C26 Alkyl Benzene					
106	16ATM	C16 Alkyl Toluene (meta)	66.054	72	15		
106	16ATO	C16 Alkyl Toluene (ortho)	66.995	50	11		
106	17ATM	C17 Alkyl Toluene (meta)	70.935	204	42		
106	17ATO	C17 Alkyl Toluene (ortho)	71.806	119	24		
106	18ATM	C18 Alkyl Toluene (meta)	75.178	182	42		
106	18ATO	C18 Alkyl Toluene (ortho)	75.979	106	28		
106	1THIO106	Dimethyl dibenzothiophene 1					
106	2THIO106	Dimethyl dibenzothiophene 2					
106	19ATM	C19 Alkyl Toluene (meta)	78.959	115	36		
106	19ATO	C19 Alkyl Toluene (ortho)	79.744	99	21		
106	20ATM	C20 Alkyl Toluene (meta)	82.410	92	22		
106	20ATO	C20 Alkyl Toluene (ortho)	83.159	71	22		
106	21ATM	C21 Alkyl Toluene (meta)	85.651	90	22		
106	21ATO	C21 Alkyl Toluene (ortho)	86.348	78	22		
106	22ATM	C22 Alkyl Toluene (meta)	88.670	100	22		
106	22ATO	C22 Alkyl Toluene (ortho)	89.367	109	22		
106	23ATM	C23 Alkyl Toluene (meta)					
106	23ATO	C23 Alkyl Toluene (ortho)					
106	24ATM	C24 Alkyl Toluene (meta)					
106	24ATO	C24 Alkyl Toluene (ortho)					
106	PHYTL	Phytanyl Toluene	95.938	248	37		
106	25ATM	C25 Alkyl Toluene (meta)					
106	25ATO	C25 Alkyl Toluene (ortho)					
106	26ATM	C26 Alkyl Toluene (meta)					
106	26ATO	C26 Alkyl Toluene (ortho)					
134	15AI	C15 Aryl Isoprenoids					
134	16AI	C16 Aryl Isoprenoids					
134	17AI	C17 Aryl Isoprenoids					
134	18AI	C18 Aryl Isoprenoids	74.899	81	19		
134	19AI	C19 Aryl Isoprenoids	77.217	138	24		
134	20AI	C20 Aryl Isoprenoids	81.033	139	26		
134	21AI	C21 Aryl Isoprenoids					
134	22AI	C22 Aryl Isoprenoids					
134	ISOR	Isorenieratane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M1041351.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene	37.943	97	14		
142	1MN	1-Methylnaphthalene	39.181	54	13		
149	MTTC578	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene					
156	1EN	1-Ethylnaphthalene					
156	26DMN	2,6-Dimethylnaphthalene	47.058	41	6		
156	27DMN	2,7-Dimethylnaphthalene	47.249	50	12		
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.260	65	9		
156	16DMN	1,6-Dimethylnaphthalene	48.469	105	15		
156	23DMN	2,3-Dimethylnaphthalene					
156	14DMN	1,4-Dimethylnaphthalene					
156	15DMN	1,5-Dimethylnaphthalene					
156	12DMN	1,2-Dimethylnaphthalene					
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl					
168	DPM	Diphenylmethane					
168	3MBP	3-Methylbiphenyl					
168	4MBP	4-Methylbiphenyl					
168	DBF	Dibenzofuran					
170	BB_EMN	Ethyl-methyl-Naphthalene	55.126	29	5		
170	AB_EMN	Ethyl-methyl-Naphthalene	56.381	14	4		
170	137TMN	1,3,7-Trimethylnaphthalene	56.817	40	8		
170	136TMN	1,3,6-Trimethylnaphthalene	57.183	71	13		
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.263	64	10		
170	236TMN	2,3,6-Trimethylnaphthalene	58.507	64	11		
170	127TMN	1,2,7-Trimethylnaphthalene	59.256	42	8		
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.448	76	13		
170	124TMN	1,2,4-Trimethylnaphthalene					
170	125TMN	1,2,5-Trimethylnaphthalene	60.791	48	8		
178	PHEN	Phenanthrene	70.325	1789	327		
184	1357	1,3,5,7-Tetramethylnaphthalene	64.764	50	8		
184	1367	1,3,6,7-Tetramethylnaphthalene	65.914	94	20		
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.716	180	37		
184	1257	1,2,5,7-Tetramethylnaphthalene	66.873	42	9		
184	2367	2,3,6,7-Tetramethylnaphthalene					
184	1267	1,2,6,7-Tetramethylnaphthalene	67.675	28	9		
184	1237	1,2,3,7-Tetramethylnaphthalene	67.866	13	4		
184	1236	1,2,3,6-Tetramethylnaphthalene	68.111	60	8		
184	1256	1,2,5,6-Tetramethylnaphthalene	68.826	70	12		
184	DBT	Dibenzothiophene	69.035	394	69		
191	BH32	C32 Benzohopane					
191	BH33	C33 Benzohopane					
191	BH34	C34 Benzohopane					
191	BH35	C35 Benzohopane					
192	3MP	3-Methylphenanthrene	75.265	1147	239		
192	2MP	2-Methylphenanthrene	75.439	1685	335		
192	9MP	9-Methylphenanthrene	76.136	749	155		
192	1MP	1-Methylphenanthrene	76.311	620	111		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M1041351.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene	66.280	161	27		
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene					
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene					
198	4MDBT	4 Methyl Dibenzothiophene	73.592	984	179		
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.394	523	92		
198	1MDBT	1 Methyl Dibenzothiophene	75.178	118	23		
206	36DMP	3,6-Dimethylphenanthrene	79.517	176	44		
206	26DMP	2,6-Dimethylphenanthrene	79.761	526	104		
206	27DMP	2,7-Dimethylphenanthrene	79.848	328	68		
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.354	921	157		
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.563	525	96		
206	17DMP	1,7-Dimethylphenanthrene	80.720	409	98		
206	23DMP	2,3-Dimethylphenanthrene	80.998	189	40		
206	19DMP	1,9-Dimethylphenanthrene	81.103	121	25		
206	18DMP	1,8-Dimethylphenanthrene	81.521	48	17		
206	12DMP	1,2-Dimethylphenanthrene	82.044	39	9		
206	9_10DMP	9,10-Dimethylphenanthrene					
212	DMDBT	Dimethyldibenzothiophene	77.600	2598	138		
219	RET	Retene	86.314	353	85		
226	TMDBT	Trimethyldibenzothiophene	81.695	1886	64		
231	231A20	C20 Triaromatic Steroid	92.365	48	12		
231	231B21	C21 Triaromatic	94.875	51	11		
231	231C26	C26 20S Triaromatic	104.068	106	19		
231	231D26	C27 20S & C26 20R Triaromatic	105.637	218	39		
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.962	88	19		
231	231F27	C27 20R Triaromatic	107.589	122	22		
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic					
231	C29TA2	C29 Triaromatic					
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.193	66	14		
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic					
245	C3S	C27 20S 3-Methyl Triaromatic Steroid					
245	C4S	C27 20S 4-Methyl Triaromatic Steroid					
245	E2S	C28 20S 2-Methyl Triaromatic Steroid					
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.234	53	17		
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.827	51	11		
245	S2S	C29 20S 2-Methyl Triaromatic Steroid					
245	DA	Triaromatic Dinosteroid a					
245	S3S	C29 20S 3-Methyl Triaromatic Steroid					
245	DB	Triaromatic Dinosteroid b					
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS					
245	E3R	C28 20R 3-Methyl Triaromatic Steroid					
245	E4R	C28 20R 4-Methyl Triaromatic Steroid					
245	DC	Triaromatic Dinosteroid c					
245	DD	Triaromatic Dinosteroid d					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M1041351.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid					
245	S3R	C29 20R 3-Methyl Triaromatic Steroid					
245	DE	Triaromatic Dinosteroid e					
245	S4R	C29 20R 4-Methyl Triaromatic Steroid					
245	DF	Triaromatic Dinosteroid f					
253	S253A	C21 Ring-C Monoaromatic Steroid	84.606	92	14		
253	S253B	C22 Monoaromatic steroid	87.115	87	15		
253	S253C	C27 Reg 5β(H),10β(CH3) 20S	97.053	81	15		
253	S253D	C27 Dia 10β(H),5β(CH3) 20S	97.228	75	17		
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R	98.674	100	18		
253	S253F	C27 Reg 5α(H),10β(CH3) 20S	98.831	73	15		
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S	99.215	214	29		
253	S253H	C27 Reg 5α(H),10β(CH3) 20R	100.477	63	15		
253	S253I	C28 Reg 5α(H),10β(CH3) 20S	100.669	114	20		
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R	100.843	164	34		
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S	100.965	131	22		
253	S253L	C29 Reg 5α(H),10β(CH3) 20S	102.255	92	16		
253	S253M	C28 Reg 5α(H),10β(CH3) 20R	102.534	139	17		
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R	102.691	142	20		
253	S253O	C29 Reg 5α(H),10β(CH3) 20R	104.295	66	11		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135729**
Well Name:	**EAST TESHEKPUK 1**	**Project #:**	**04-501-A**
Depth:	**9660 - 9680 FT**	**Lab ID:**	**CP275208**
Sampling Point:		**File Name:**	**M1041351.D**

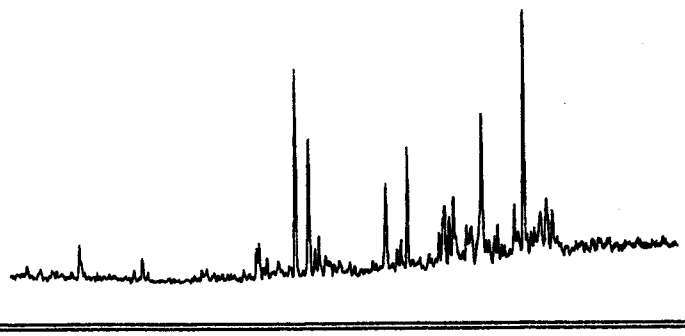
Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.14	0.17
TAS #1 20/20+27	0.28	0.35
TAS #2 21/21+28	0.44	0.44
%26TAS	36.1	34.5
%27TAS	41.5	40.0
%28TAS	22.4	25.5
%29TAS		
C28/C26 20S TAS	0.83	1.00
C28/C27 20R TAS	0.54	0.64
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	1.23	1.13
%27 MAS	25.9	32.1
%28 MAS	44.0	40.2
%29 MAS	30.1	27.7
(C21+C22)/Σ MAS	0.11	0.10
TAS/(MAS+TAS)	0.30	0.33
TA28/(TA28+MA29)	0.26	0.32
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index		
C4/C3+C4 Mester		
Phenanthrenes and Naphthalenes		
MPI-1	1.35	1.45
MPI-2	1.60	1.69
Rc(a) if Ro < 1.3 (Ro%)	1.18	1.24
Rc(b) if Ro > 1.3 (Ro%)	1.49	1.43
DNR-1		
DNR-2		
TNR1	1.00	1.10
TDE-1		
TDE-2	0.55	0.62
MDR	8.34	7.78
Rm (Ro%)	2.74	2.23
MDR23	1.33	1.33
MDR1	0.30	0.33
DBT/Phenanthrene	0.22	0.21

BASELINE DGSI
ANALYTICAL LABORATORIES

AROMATIC GCMS

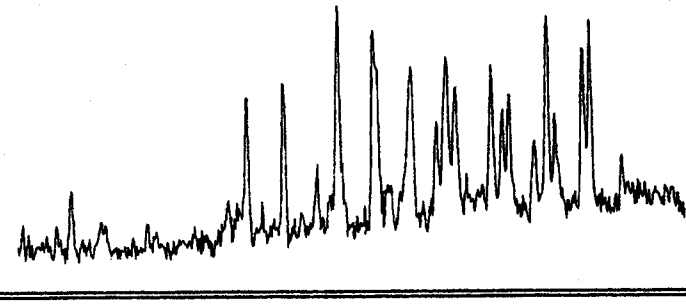
Company:	CONOCOPHILLIPS	**Client ID:**	US135732
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275211
Lease:	PEARD #1	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	PEARD #1	**Geologic Age:**	
Latitude:	70.7156	**Top Depth:**	9507.2 FT
Longitude:	-159.001	**Bottom Depth:**	FT

***m/z* 253: Monoaromatic steroids** M1041353.D



***m/z* 231: Triaromatic steroids** M1041353.D

***m/z* 245 Triaromatic Methylsteroids** M1041353.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.18	M	1.0 (1.3%)
TAS #1 20/20+27	0.37	M	
TAS #2 21/21+28	0.44	M	
%26 TAS	32.1	D	
%27 TAS	26.9	D	
%28 TAS	34.0	D	
%29 TAS	7.0	D	
C28/C26 20S TAS	1.06		
C28/C27 20R TAS	1.26		
Dia/Regular C27 MAS	1.05		
%27 MAS	37.7	D	
%28 MAS	35.3	D	
%29 MAS	27.0	D	
(C21+C22)/Σ MAS	0.11	M	1.0 (1.3%)
TAS/(MAS+TAS)	0.76	M	
TA28/(TA28+MA29)	0.80	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index	0.21	A	
C4/C3+C4 Mester	0.48	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	1.79	M	
Rc(a) if Ro < 1.3 (Ro%)	1.44	M	
Rc(b) if Ro > 1.3 (Ro%)	1.23	M	
MPI-2	2.19	M	
DNR-1	15.49	M	
DNR-2	4.24	M	
TNR1	1.62	M	
TDE-1	5.67	M	
TDE-2	0.21	M	
MDR	41.39	M	
Rm (Ro%)	631.88	M	
MDR23	1.36	M	
MDR1	0.06	M	
DBT/Phenanthrene	0.21	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M1041353.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)				0.0	0.0
92	16AB	C16 Alkyl Benzene	66.837	11103	2457		
92	17AB	C17 Alkyl Benzene	71.684	6414	1489		
92	18AB	C18 Alkyl Benzene	75.875	5185	1316		
92	1THIO92	Dimethyl dibenzothiophene 1	77.670	7530	1479		
92	2THIO92	Dimethyl dibenzothiophene 2	78.402	9979	1521		
92	19AB	C19 Alkyl Benzene	79.622	3715	895		
92	20AB	C20 Alkyl Benzene	83.055	2762	735		
92	21AB	C21 Alkyl Benzene	86.261	2401	657		
92	22AB	C22 Alkyl Benzene	89.280	1874	458		
92	23AB	C23 Alkyl Benzene	92.121	1700	416		
92	PHYBz	Phytanyl Benzene					
92	24AB	C24 Alkyl Benzene	94.858	1390	315		
92	25AB	C25 Alkyl Benzene	97.455	1147	286		
92	26AB	C26 Alkyl Benzene	99.947	855	215		
106	16ATM	C16 Alkyl Toluene (meta)	66.088	13288	3033		
106	16ATO	C16 Alkyl Toluene (ortho)	67.046	6133	1270		
106	17ATM	C17 Alkyl Toluene (meta)	70.987	13249	3201		
106	17ATO	C17 Alkyl Toluene (ortho)	71.841	4589	1187		
106	18ATM	C18 Alkyl Toluene (meta)	75.230	8728	1866		
106	18ATO	C18 Alkyl Toluene (ortho)	76.014	3080	744		
106	1THIO106	Dimethyl dibenzothiophene 1	77.670	6643	1313		
106	2THIO106	Dimethyl dibenzothiophene 2	78.402	6106	1020		
106	19ATM	C19 Alkyl Toluene (meta)	78.994	6805	1629		
106	19ATO	C19 Alkyl Toluene (ortho)	79.761	2899	608		
106	20ATM	C20 Alkyl Toluene (meta)	82.462	4381	1169		
106	20ATO	C20 Alkyl Toluene (ortho)	83.177	1845	490		
106	21ATM	C21 Alkyl Toluene (meta)	85.669	4048	1002		
106	21ATO	C21 Alkyl Toluene (ortho)	86.383	1832	398		
106	22ATM	C22 Alkyl Toluene (meta)	88.705	3302	797		
106	22ATO	C22 Alkyl Toluene (ortho)	89.402	1357	352		
106	23ATM	C23 Alkyl Toluene (meta)	91.564	3183	760		
106	23ATO	C23 Alkyl Toluene (ortho)	92.261	1060	275		
106	24ATM	C24 Alkyl Toluene (meta)	94.300	2266	564		
106	24ATO	C24 Alkyl Toluene (ortho)	94.980	812	213		
106	PHYTL	Phytanyl Toluene	95.904	4596	731		
106	25ATM	C25 Alkyl Toluene (meta)	96.897	2127	520		
106	25ATO	C25 Alkyl Toluene (ortho)	97.577	669	180		
106	26ATM	C26 Alkyl Toluene (meta)	99.407	1828	411		
106	26ATO	C26 Alkyl Toluene (ortho)	100.094	510	115		
134	15AI	C15 Aryl Isoprenoids	60.965	1686	267		
134	16AI	C16 Aryl Isoprenoids	66.140	1682	275		
134	17AI	C17 Aryl Isoprenoids					
134	18AI	C18 Aryl Isoprenoids	74.969	1718	364		
134	19AI	C19 Aryl Isoprenoids	77.252	2521	452		
134	20AI	C20 Aryl Isoprenoids	81.068	2078	396		
134	21AI	C21 Aryl Isoprenoids					
134	22AI	C22 Aryl Isoprenoids					
134	ISOR	Isorenieratane	125.232	1105	73		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M1041353.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene	38.031	280105	45653		
142	1MN	1-Methylnaphthalene	39.251	126321	20422		
149	MTTC578	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene	46.222	50250	7463		
156	1EN	1-Ethylnaphthalene	46.309	7951	2649		
156	26DMN	2,6-Dimethylnaphthalene	47.163	300975	40988		
156	27DMN	2,7-Dimethylnaphthalene	47.320	267846	47124		
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.331	355374	44926		
156	16DMN	1,6-Dimethylnaphthalene	48.575	327646	52198		
156	23DMN	2,3-Dimethylnaphthalene	49.742	20392	4806		
156	14DMN	1,4-Dimethylnaphthalene	49.847	113844	15127		
156	15DMN	1,5-Dimethylnaphthalene	49.934	36713	9020		
156	12DMN	1,2-Dimethylnaphthalene	50.892	37146	5663		
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl	46.710	9613	1534		
168	DPM	Diphenylmethane	48.941	7528	1200		
168	3MBP	3-Methylbiphenyl	53.454	818129	120372		
168	4MBP	4-Methylbiphenyl	54.081	361239	56065		
168	DBF	Dibenzofuran	55.493	16052	2463		
170	BB_EMN	Ethyl-methyl-Naphthalene	55.249	107150	14345		
170	AB_EMN	Ethyl-methyl-Naphthalene	56.451	38446	5971		
170	137TMN	1,3,7-Trimethylnaphthalene	56.905	148103	23928		
170	136TMN	1,3,6-Trimethylnaphthalene	57.288	213249	34631		
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.351	113260	16715		
170	236TMN	2,3,6-Trimethylnaphthalene	58.612	183879	31192		
170	127TMN	1,2,7-Trimethylnaphthalene	59.344	30085	5181		
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.519	145164	22705		
170	124TMN	1,2,4-Trimethylnaphthalene	60.424	6876	1181		
170	125TMN	1,2,5-Trimethylnaphthalene	60.877	38955	6875		
178	PHEN	Phenanthrene	70.412	984349	187024		
184	1357	1,3,5,7-Tetramethylnaphthalene	64.851	28729	4766		
184	1367	1,3,6,7-Tetramethylnaphthalene	65.983	38467	7862		
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.750	16794	3074		
184	1257	1,2,5,7-Tetramethylnaphthalene	66.924	10081	1878		
184	2367	2,3,6,7-Tetramethylnaphthalene	67.290	9957	1982		
184	1267	1,2,6,7-Tetramethylnaphthalene	67.726	9530	1953		
184	1237	1,2,3,7-Tetramethylnaphthalene	67.918	3284	694		
184	1236	1,2,3,6-Tetramethylnaphthalene	68.182	6284	1228		
184	1256	1,2,5,6-Tetramethylnaphthalene	68.896	10607	2222		
184	DBT	Dibenzothiophene	69.105	211410	41150		
191	BH32	C32 Benzohopane	115.783	2140	712		
191	BH33	C33 Benzohopane	116.690	2441	728		
191	BH34	C34 Benzohopane	117.492	824	255		
191	BH35	C35 Benzohopane	118.503	1210	309		
192	3MP	3-Methylphenanthrene	75.352	635576	118670		
192	2MP	2-Methylphenanthrene	75.561	1001109	210294		
192	9MP	9-Methylphenanthrene	76.206	195002	42938		
192	1MP	1-Methylphenanthrene	76.380	191794	42730		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M1041353.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene					
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene					
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene					
198	4MDBT	4 Methyl Dibenzothiophene	73.679	539967	108322		
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.446	286885	60048		
198	1MDBT	1 Methyl Dibenzothiophene	75.265	13045	2720		
206	36DMP	3,6-Dimethylphenanthrene	79.569	80462	18019		
206	26DMP	2,6-Dimethylphenanthrene	79.831	291383	63208		
206	27DMP	2,7-Dimethylphenanthrene	79.935	216968	58667		
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.441	209915	40514		
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.632	125494	21900		
206	17DMP	1,7-Dimethylphenanthrene	80.772	96299	22325		
206	23DMP	2,3-Dimethylphenanthrene	81.051	62747	14238		
206	19DMP	1,9-Dimethylphenanthrene	81.155	13853	3486		
206	18DMP	1,8-Dimethylphenanthrene	81.573	10562	2421		
206	12DMP	1,2-Dimethylphenanthrene	82.096	6067	1394		
206	9_10DMP	9,10-Dimethylphenanthrene					
212	DMDBT	Dimethyldibenzothiophene	77.670	910899	57290		
219	RET	Retene	86.366	9175	2082		
226	TMDBT	Trimethyldibenzothiophene	81.748	387523	35207		
231	231A20	C20 Triaromatic Steroid	92.418	3000	747		
231	231B21	C21 Triaromatic	94.893	5117	899		
231	231C26	C26 20S Triaromatic	104.086	6028	1517		
231	231D26	C27 20S & C26 20R Triaromatic	105.673	11202	2275		
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.980	6407	1066		
231	231F27	C27 20R Triaromatic	107.625	5050	931		
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic	107.991	905	189		
231	C29TA2	C29 Triaromatic	108.183	794	198		
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.229	6387	1397		
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic	110.536	1314	336		
245	C3S	C27 20S 3-Methyl Triaromatic Steroid	106.771	1170	237		
245	C4S	C27 20S 4-Methyl Triaromatic Steroid	107.364	1200	262		
245	E2S	C28 20S 2-Methyl Triaromatic Steroid	107.939	509	116		
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.287	2027	366		
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.863	2290	322		
245	S2S	C29 20S 2-Methyl Triaromatic Steroid	109.107	518	74		
245	DA	Triaromatic Dinosteroid a	109.316	240	62		
245	S3S	C29 20S 3-Methyl Triaromatic Steroid	109.490	2149	262		
245	DB	Triaromatic Dinosteroid b	109.909	815	166		
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS	110.066	1937	269		
245	E3R	C28 20R 3-Methyl Triaromatic Steroid	110.222	1331	218		
245	E4R	C28 20R 4-Methyl Triaromatic Steroid	110.815	1225	243		
245	DC	Triaromatic Dinosteroid c	111.007	847	170		
245	DD	Triaromatic Dinosteroid d	111.111	957	193		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M1041353.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid	111.530	769	132		
245	S3R	C29 20R 3-Methyl Triaromatic Steroid	111.739	1566	313		
245	DE	Triaromatic Dinosteroid e	111.861	747	154		
245	S4R	C29 20R 4-Methyl Triaromatic Steroid	112.314	1282	258		
245	DF	Triaromatic Dinosteroid f	112.436	1256	303		
253	S253A	C21 Ring-C Monoaromatic Steroid	84.658	819	202		
253	S253B	C22 Monoaromatic steroid	87.115	640	129		
253	S253C	C27 Reg 5β(H),10β(CH3) 20S	97.089	720	130		
253	S253D	C27 Dia 10β(H),5β(CH3) 20S	97.246	759	184		
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R	98.710	876	202		
253	S253F	C27 Reg 5α(H),10β(CH3) 20S	98.884	1552	283		
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S	99.267	2275	396		
253	S253H	C27 Reg 5α(H),10β(CH3) 20R	100.565	707	133		
253	S253I	C28 Reg 5α(H),10β(CH3) 20S	100.670	653	134		
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R	100.861	828	154		
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S	101.001	979	221		
253	S253L	C29 Reg 5α(H),10β(CH3) 20S	102.326	694	129		
253	S253M	C28 Reg 5α(H),10β(CH3) 20R	102.622	569	168		
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R	102.674	1232	234		
253	S253O	C29 Reg 5α(H),10β(CH3) 20R	104.278	393	68		

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135732**
Well Name:	**PEARD #1**	**Project #:**	**04-501-A**
Depth:	**9507.2 - FT**	**Lab ID:**	**CP275211**
Sampling Point:		**File Name:**	**M1041353.D**

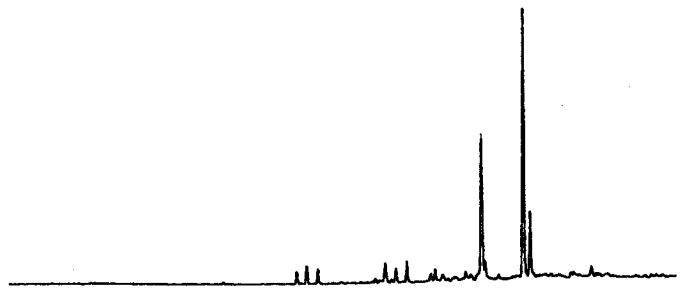
Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.18	0.18
TAS #1 20/20+27	0.37	0.45
TAS #2 21/21+28	0.44	0.39
%26TAS	32.1	36.3
%27TAS	26.9	22.3
%28TAS	34.0	33.4
%29TAS	7.0	8.0
C28/C26 20S TAS	1.06	0.70
C28/C27 20R TAS	1.26	1.50
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS	1.05	1.42
%27 MAS	37.7	38.3
%28 MAS	35.3	35.0
%29 MAS	27.0	26.8
(C21+C22)/Σ MAS	0.11	0.12
TAS/(MAS+TAS)	0.76	0.77
TA28/(TA28+MA29)	0.80	0.79
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index	0.21	0.25
C4/C3+C4 Mester	0.48	0.50
Phenanthrenes and Naphthalenes		
MPI-1	1.79	1.81
MPI-2	2.19	2.31
Rc(a) if Ro < 1.3 (Ro%)	1.44	1.46
Rc(b) if Ro > 1.3 (Ro%)	1.23	1.21
DNR-1	15.49	9.77
DNR-2	4.24	4.42
TNR1	1.62	1.87
TDE-1	5.67	5.82
TDE-2	0.21	0.23
MDR	41.39	39.82
Rm (Ro%)	631.88	558.03
MDR23	1.36	1.46
MDR1	0.06	0.07
DBT/Phenanthrene	0.21	0.22

BASELINE DGSI
ANALYTICAL LABORATORIES

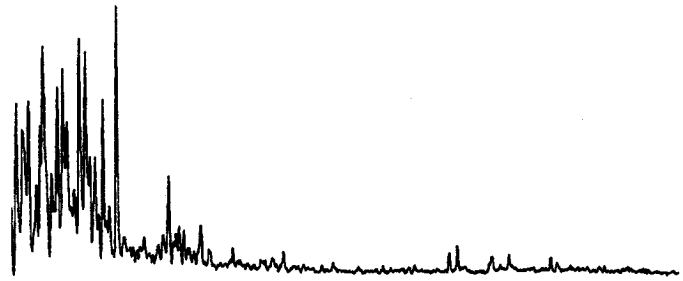
AROMATIC GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135733
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275212
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST SIMPSON #2	**Geologic Age:**	
Latitude:	70.9785	**Top Depth:**	7202.5 FT
Longitude:	-154.674	**Bottom Depth:**	FT

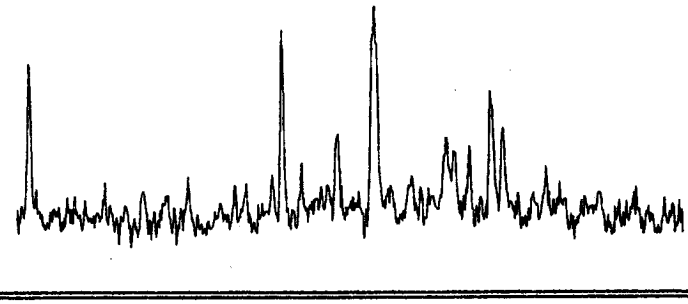
***m/z* 253: Monoaromatic steroids** M1041355.D



***m/z* 231: Triaromatic steroids** M1041355.D



***m/z* 245 Triaromatic Methylsteroids** M1041355.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.76	M	1.0 (1.3%)
TAS #1 20/20+27	0.91	M	
TAS #2 21/21+28	0.88	M	
%26 TAS	21.8	D	
%27 TAS	41.5	D	
%28 TAS	36.7	D	
%29 TAS		D	
C28/C26 20S TAS	2.40		
C28/C27 20R TAS	0.89		
Dia/Regular C27 MAS			
%27 MAS		D	
%28 MAS		D	
%29 MAS		D	
(C21+C22)/Σ MAS		M	1.0 (1.3%)
TAS/(MAS+TAS)	1.00	M	
TA28/(TA28+MA29)	1.00	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index		A	
C4/C3+C4 Mester	0.67	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	0.52	M	
Rc(a) if Ro < 1.3 (Ro%)	0.68	M	
Rc(b) if Ro > 1.3 (Ro%)	1.99	M	
MPI-2	0.58	M	
DNR-1	10.07	M	
DNR-2	1.52	M	
TNR1	1.53	M	
TDE-1	8.82	M	
TDE-2	0.15	M	
MDR	1.09	M	
Rm (Ro%)	0.63	M	
MDR23	0.54	M	
MDR1	0.42	M	
DBT/Phenanthrene	0.03	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M1041355.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)	75.110	4294	984	300.0	300.0
92	16AB	C16 Alkyl Benzene	66.821	13042	2981	911.2	908.8
92	17AB	C17 Alkyl Benzene	71.666	6041	1513	422.1	461.3
92	18AB	C18 Alkyl Benzene	75.859	4299	1166	300.3	355.5
92	1THIO92	Dimethyl dibenzothiophene 1					
92	2THIO92	Dimethyl dibenzothiophene 2					
92	19AB	C19 Alkyl Benzene	79.606	3082	809	215.3	246.6
92	20AB	C20 Alkyl Benzene	83.056	2520	659	176.1	200.9
92	21AB	C21 Alkyl Benzene	86.263	2178	592	152.2	180.5
92	22AB	C22 Alkyl Benzene	89.262	1906	486	133.2	148.2
92	23AB	C23 Alkyl Benzene	92.121	1729	449	120.8	136.9
92	PHYBz	Phytanyl Benzene					
92	24AB	C24 Alkyl Benzene	94.857	1631	393	114.0	119.8
92	25AB	C25 Alkyl Benzene	97.454	1462	344	102.1	104.9
92	26AB	C26 Alkyl Benzene	99.947	1113	260	77.8	79.3
106	16ATM	C16 Alkyl Toluene (meta)	66.072	3960	937	276.7	285.7
106	16ATO	C16 Alkyl Toluene (ortho)	67.030	2939	611	205.3	186.3
106	17ATM	C17 Alkyl Toluene (meta)	70.969	3548	872	247.9	265.9
106	17ATO	C17 Alkyl Toluene (ortho)	71.823	2289	590	159.9	179.9
106	18ATM	C18 Alkyl Toluene (meta)	75.214	2870	733	200.5	223.5
106	18ATO	C18 Alkyl Toluene (ortho)	75.999	1736	444	121.3	135.4
106	1THIO106	Dimethyl dibenzothiophene 1					
106	2THIO106	Dimethyl dibenzothiophene 2					
106	19ATM	C19 Alkyl Toluene (meta)	78.996	2114	564	147.7	172.0
106	19ATO	C19 Alkyl Toluene (ortho)	79.745	1268	319	88.6	97.3
106	20ATM	C20 Alkyl Toluene (meta)	82.446	1888	527	131.9	160.7
106	20ATO	C20 Alkyl Toluene (ortho)	83.178	1012	284	70.7	86.6
106	21ATM	C21 Alkyl Toluene (meta)	85.670	2247	490	157.0	149.4
106	21ATO	C21 Alkyl Toluene (ortho)	86.385	1823	427	127.4	130.2
106	22ATM	C22 Alkyl Toluene (meta)	88.687	1420	361	99.2	110.1
106	22ATO	C22 Alkyl Toluene (ortho)	89.402	1553	353	108.5	107.6
106	23ATM	C23 Alkyl Toluene (meta)	91.563	2024	373	141.4	113.7
106	23ATO	C23 Alkyl Toluene (ortho)	92.260	911	238	63.6	72.6
106	24ATM	C24 Alkyl Toluene (meta)	94.282	1818	400	127.0	122.0
106	24ATO	C24 Alkyl Toluene (ortho)	94.979	755	198	52.7	60.4
106	PHYTL	Phytanyl Toluene	95.903	4012	764	280.3	232.9
106	25ATM	C25 Alkyl Toluene (meta)	96.896	896	214	62.6	65.2
106	25ATO	C25 Alkyl Toluene (ortho)	97.576	725	187	50.7	57.0
106	26ATM	C26 Alkyl Toluene (meta)	99.406	1212	240	84.7	73.2
106	26ATO	C26 Alkyl Toluene (ortho)	100.094	385	95	26.9	29.0
134	15AI	C15 Aryl Isoprenoids	60.948	627	109	43.8	33.2
134	16AI	C16 Aryl Isoprenoids	66.124	350	53	24.5	16.2
134	17AI	C17 Aryl Isoprenoids					
134	18AI	C18 Aryl Isoprenoids	74.953	187	34	13.1	10.4
134	19AI	C19 Aryl Isoprenoids	77.253	362	59	25.3	18.0
134	20AI	C20 Aryl Isoprenoids	81.070	946	194	66.1	59.1
134	21AI	C21 Aryl Isoprenoids					
134	22AI	C22 Aryl Isoprenoids					
134	ISOR	Isorenieratane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M1041355.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene	38.062	793817	120164	55460.0	36635.4
142	1MN	1-Methylnaphthalene	39.265	428734	67713	29953.5	20644.2
149	MTTC578	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene	46.218	44127	6284	3082.9	1915.9
156	1EN	1-Ethylnaphthalene	46.305	14728	3679	1029.0	1121.6
156	26DMN	2,6-Dimethylnaphthalene	47.142	181362	27666	12670.8	8434.8
156	27DMN	2,7-Dimethylnaphthalene	47.299	162912	27402	11381.8	8354.3
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.292	319691	42504	22335.2	12958.5
156	16DMN	1,6-Dimethylnaphthalene	48.553	256698	41662	17934.2	12701.8
156	23DMN	2,3-Dimethylnaphthalene	49.738	36256	7941	2533.0	2421.0
156	14DMN	1,4-Dimethylnaphthalene	49.825	190226	27343	13290.1	8336.3
156	15DMN	1,5-Dimethylnaphthalene	49.913	34195	10664	2389.0	3251.2
156	12DMN	1,2-Dimethylnaphthalene	50.871	60022	9684	4193.4	2952.4
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl	46.689	5636	960	393.8	292.7
168	DPM	Diphenylmethane	48.919	16339	2680	1141.5	817.1
168	3MBP	3-Methylbiphenyl	53.380	193589	31935	13525.1	9736.3
168	4MBP	4-Methylbiphenyl	54.043	71410	11502	4989.1	3506.7
168	DBF	Dibenzofuran	55.489	395979	59184	27665.0	18043.9
170	BB_EMN	Ethyl-methyl-Naphthalene	55.228	47730	6166	3334.7	1879.9
170	AB_EMN	Ethyl-methyl-Naphthalene	56.430	18402	2792	1285.7	851.2
170	137TMN	1,3,7-Trimethylnaphthalene	56.866	70297	11173	4911.3	3406.4
170	136TMN	1,3,6-Trimethylnaphthalene	57.249	115860	19218	8094.6	5859.1
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.312	77509	11785	5415.2	3593.0
170	236TMN	2,3,6-Trimethylnaphthalene	58.591	118573	19974	8284.1	6089.6
170	127TMN	1,2,7-Trimethylnaphthalene	59.323	24362	4104	1702.0	1251.2
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.497	158336	23611	11062.1	7198.5
170	124TMN	1,2,4-Trimethylnaphthalene	60.408	9271	1674	647.7	510.4
170	125TMN	1,2,5-Trimethylnaphthalene	60.861	81776	14908	5713.3	4545.1
178	PHEN	Phenanthrene	70.412	1383936	254124	96688.6	77476.8
184	1357	1,3,5,7-Tetramethylnaphthalene	64.834	18831	3148	1315.6	959.8
184	1367	1,3,6,7-Tetramethylnaphthalene	65.967	34648	7209	2420.7	2197.9
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.734	23147	4329	1617.2	1319.8
184	1257	1,2,5,7-Tetramethylnaphthalene	66.908	21093	4438	1473.7	1353.0
184	2367	2,3,6,7-Tetramethylnaphthalene	67.274	8471	1762	591.8	537.2
184	1267	1,2,6,7-Tetramethylnaphthalene	67.710	18318	3903	1279.8	1189.9
184	1237	1,2,3,7-Tetramethylnaphthalene	67.901	4722	1034	329.9	315.2
184	1236	1,2,3,6-Tetramethylnaphthalene	68.164	11194	2401	782.1	732.0
184	1256	1,2,5,6-Tetramethylnaphthalene	68.896	48818	9873	3410.7	3010.1
184	DBT	Dibenzothiophene	69.087	45538	8996	3181.5	2742.7
191	BH32	C32 Benzohopane					
191	BH33	C33 Benzohopane					
191	BH34	C34 Benzohopane					
191	BH35	C35 Benzohopane					
192	3MP	3-Methylphenanthrene	75.319	321402	68354	22454.7	20839.6
192	2MP	2-Methylphenanthrene	75.511	405832	94118	28353.4	28694.5
192	9MP	9-Methylphenanthrene	76.190	398381	82963	27832.9	25293.6
192	1MP	1-Methylphenanthrene	76.382	315311	69788	22029.2	21276.8

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M1041355.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene	66.368	537	113	37.5	34.5
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene	73.175	3262	767	227.9	233.8
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene	73.507	2944	657	205.7	200.3
198	4MDBT	4 Methyl Dibenzothiophene	73.646	21057	4598	1471.1	1401.8
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.430	24637	4759	1721.3	1450.9
198	1MDBT	1 Methyl Dibenzothiophene	75.232	19348	4358	1351.7	1328.7
206	36DMP	3,6-Dimethylphenanthrene	79.554	21281	5209	1486.8	1588.1
206	26DMP	2,6-Dimethylphenanthrene	79.798	52692	12512	3681.3	3814.6
206	27DMP	2,7-Dimethylphenanthrene	79.902	34735	8244	2426.8	2513.4
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.425	184899	35911	12918.0	10948.5
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.617	113023	17261	7896.3	5262.5
206	17DMP	1,7-Dimethylphenanthrene	80.773	76560	17445	5348.9	5318.6
206	23DMP	2,3-Dimethylphenanthrene	81.035	60871	12921	4252.7	3939.3
206	19DMP	1,9-Dimethylphenanthrene	81.157	43110	10761	3011.9	3280.8
206	18DMP	1,8-Dimethylphenanthrene	81.575	23610	5465	1649.5	1666.2
206	12DMP	1,2-Dimethylphenanthrene	82.081	26798	6211	1872.2	1893.6
206	9_10DMP	9,10-Dimethylphenanthrene	82.725	3393	787	237.1	239.9
212	DMDBT	Dimethyldibenzothiophene	78.369	43603	1162	3046.3	354.3
219	RET	Retene	86.350	6692	1379	467.5	420.4
226	TMDBT	Trimethyldibenzothiophene	83.161	23520	350	1643.2	106.7
231	231A20	C20 Triaromatic Steroid	92.417	8913	1812	622.7	552.4
231	231B21	C21 Triaromatic	94.909	5547	998	387.5	304.3
231	231C26	C26 20S Triaromatic	104.086	459	92	32.1	28.0
231	231D26	C27 20S & C26 20R Triaromatic	105.673	1411	303	98.6	92.4
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.980	1101	180	76.9	54.9
231	231F27	C27 20R Triaromatic	107.643	873	188	61.0	57.3
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic					
231	C29TA2	C29 Triaromatic					
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.229	773	163	54.0	49.7
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic					
245	C3S	C27 20S 3-Methyl Triaromatic Steroid	106.788	238	61	16.6	18.6
245	C4S	C27 20S 4-Methyl Triaromatic Steroid	107.381	1129	269	78.9	82.0
245	E2S	C28 20S 2-Methyl Triaromatic Steroid					
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.305	802	128	56.0	39.0
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.898	2350	302	164.2	92.1
245	S2S	C29 20S 2-Methyl Triaromatic Steroid	109.159	397	60	27.7	18.3
245	DA	Triaromatic Dinosteroid a					
245	S3S	C29 20S 3-Methyl Triaromatic Steroid	109.508	628	73	43.9	22.3
245	DB	Triaromatic Dinosteroid b					
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS	110.066	878	125	61.3	38.1
245	E3R	C28 20R 3-Methyl Triaromatic Steroid	110.188	605	107	42.3	32.6
245	E4R	C28 20R 4-Methyl Triaromatic Steroid	110.798	1170	189	81.7	57.6
245	DC	Triaromatic Dinosteroid c					
245	DD	Triaromatic Dinosteroid d					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M1041355.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid	111.530	288	52	20.1	15.9
245	S3R	C29 20R 3-Methyl Triaromatic Steroid	111.739	457	87	31.9	26.5
245	DE	Triaromatic Dinosteroid e					
245	S4R	C29 20R 4-Methyl Triaromatic Steroid	112.384	318	50	22.2	15.2
245	DF	Triaromatic Dinosteroid f					
253	S253A	C21 Ring-C Monoaromatic Steroid					
253	S253B	C22 Monoaromatic steroid					
253	S253C	C27 Reg 5β(H),10β(CH3) 20S					
253	S253D	C27 Dia 10β(H),5β(CH3) 20S					
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R					
253	S253F	C27 Reg 5α(H),10β(CH3) 20S					
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S					
253	S253H	C27 Reg 5α(H),10β(CH3) 20R					
253	S253I	C28 Reg 5α(H),10β(CH3) 20S					
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R					
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S					
253	S253L	C29 Reg 5α(H),10β(CH3) 20S					
253	S253M	C28 Reg 5α(H),10β(CH3) 20R					
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R					
253	S253O	C29 Reg 5α(H),10β(CH3) 20R					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135733**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7202.5 - FT**	**Lab ID:**	**CP275212**
Sampling Point:		**File Name:**	**M1041355.D**

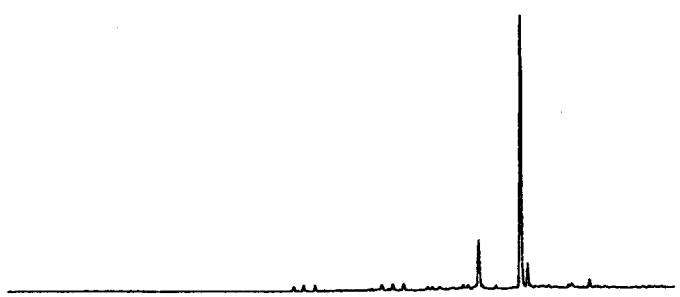
Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.76	0.75
TAS #1 20/20+27	0.91	0.91
TAS #2 21/21+28	0.88	0.86
%26TAS	21.8	20.8
%27TAS	41.5	42.4
%28TAS	36.7	36.8
%29TAS		
C28/C26 20S TAS	2.40	1.96
C28/C27 20R TAS	0.89	0.87
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS		
%27 MAS		
%28 MAS		
%29 MAS		
(C21+C22)/Σ MAS		
TAS/(MAS+TAS)	1.00	1.00
TA28/(TA28+MA29)	1.00	1.00
Triaromatic Methylsteroids m/z 245		
Dinosteroid Index		
C4/C3+C4 Mester	0.67	0.67
Phenanthrenes and Naphthalenes		
MPI-1	0.52	0.60
MPI-2	0.58	0.69
Rc(a) if Ro < 1.3 (Ro%)	0.68	0.73
Rc(b) if Ro > 1.3 (Ro%)	1.99	1.94
DNR-1	10.07	5.16
DNR-2	1.52	1.56
TNR1	1.53	1.69
TDE-1	8.82	8.91
TDE-2	0.15	0.17
MDR	1.09	1.06
Rm (Ro%)	0.63	0.62
MDR23	0.54	0.53
MDR1	0.42	0.48
DBT/Phenanthrene	0.03	0.04

BASELINE DGSI
ANALYTICAL LABORATORIES

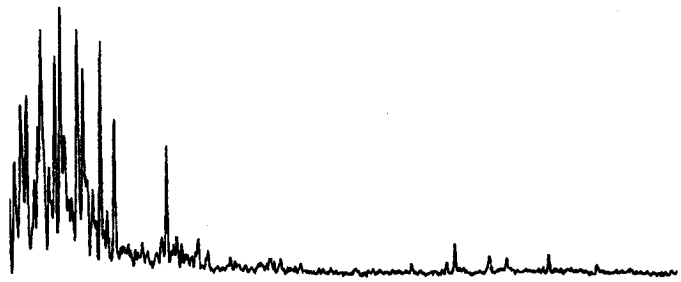
AROMATIC GCMS

Company:	CONOCOPHILLIPS	**Client ID:**	US135734
Country:	UNITED STATES	**Project #:**	04-501-A
Basin:		**Lab ID:**	CP275213
Lease:	EAST SIMPSON #2	**Sample Type:**	CORE
Block:		**Sampling Point:**	
Field:		**Formation:**	
Well Name:	EAST SIMPSON #2	**Geologic Age:**	
Latitude:	70.9785	**Top Depth:**	7295 FT
Longitude:	-154.674	**Bottom Depth:**	FT

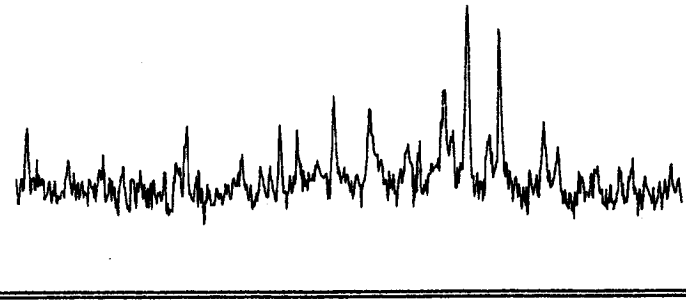
***m/z* 253: Monoaromatic steroids** M1041356.D



***m/z* 231: Triaromatic steroids** M1041356.D



***m/z* 245 Triaromatic Methylsteroids** M1041356.D



RATIOS (on Areas)[1]		Appl[2]	TEV[3]
Mono- (MAS) and Triaromatic Steroids (TAS)			
(C20+C21)/Σ TAS	0.77	M	1.0 (1.3%)
TAS #1 20/20+27	0.92	M	
TAS #2 21/21+28	0.87	M	
%26 TAS	23.0	D	
%27 TAS	34.9	D	
%28 TAS	42.1	D	
%29 TAS		D	
C28/C26 20S TAS	1.97		
C28/C27 20R TAS	1.21		
Dia/Regular C27 MAS			
%27 MAS		D	
%28 MAS		D	
%29 MAS		D	
(C21+C22)/Σ MAS		M	1.0 (1.3%)
TAS/(MAS+TAS)	1.00	M	
TA28/(TA28+MA29)	1.00	M	1.0 (0.8%)
Triaromatic Methylsteroids			
Dinosteroid Index		A	
C4/C3+C4 Mester	0.47	A	
Phenanthrenes, Naphthalenes, and Dibenzothiophenes			
MPI-1	0.51	M	
Rc(a) if Ro < 1.3 (Ro%)	0.68	M	
Rc(b) if Ro > 1.3 (Ro%)	1.99	M	
MPI-2	0.57	M	
DNR-1	7.55	M	
DNR-2	1.59	M	
TNR1	1.16	M	
TDE-1	9.98	M	
TDE-2	0.18	M	
MDR	0.91	M	
Rm (Ro%)	0.60	M	
MDR23	0.54	M	
MDR1	0.62	M	
DBT/Phenanthrene	0.03	D	

[1]Definition and utility of the ratios can be found on our website www.BaselineDGSI.com

[2]A=Source Age; D=Depositional environment; M= Maturity

[3]Thermal equilibrium value of the biomarker ratio and in brackets the approximate VR value at which this value is reached

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M1041356.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
230	OTP	*Ortho-terphenyl* (internal standard)	75.092	4822	1157	300.0	300.0
92	16AB	C16 Alkyl Benzene	66.821	9713	2223	604.3	576.4
92	17AB	C17 Alkyl Benzene	71.667	7682	1902	477.9	493.2
92	18AB	C18 Alkyl Benzene	75.859	5072	1349	315.6	349.8
92	1THIO92	Dimethyl dibenzothiophene 1					
92	2THIO92	Dimethyl dibenzothiophene 2					
92	19AB	C19 Alkyl Benzene	79.606	3511	999	218.4	259.0
92	20AB	C20 Alkyl Benzene	83.056	2817	761	175.3	197.3
92	21AB	C21 Alkyl Benzene	86.245	2433	635	151.4	164.7
92	22AB	C22 Alkyl Benzene	89.262	1766	472	109.9	122.4
92	23AB	C23 Alkyl Benzene	92.121	1582	422	98.4	109.4
92	PHYBz	Phytanyl Benzene					
92	24AB	C24 Alkyl Benzene	94.840	1145	271	71.2	70.3
92	25AB	C25 Alkyl Benzene	97.454	870	212	54.1	55.0
92	26AB	C26 Alkyl Benzene	99.946	686	163	42.7	42.3
106	16ATM	C16 Alkyl Toluene (meta)	66.072	5718	1363	355.7	353.4
106	16ATO	C16 Alkyl Toluene (ortho)	67.013	4615	1023	287.1	265.3
106	17ATM	C17 Alkyl Toluene (meta)	70.970	4986	1205	310.2	312.4
106	17ATO	C17 Alkyl Toluene (ortho)	71.823	3804	954	236.7	247.4
106	18ATM	C18 Alkyl Toluene (meta)	75.197	4086	1039	254.2	269.4
106	18ATO	C18 Alkyl Toluene (ortho)	75.998	2958	802	184.0	208.0
106	1THIO106	Dimethyl dibenzothiophene 1					
106	2THIO106	Dimethyl dibenzothiophene 2					
106	19ATM	C19 Alkyl Toluene (meta)	78.978	3075	799	191.3	207.2
106	19ATO	C19 Alkyl Toluene (ortho)	79.745	2129	604	132.5	156.6
106	20ATM	C20 Alkyl Toluene (meta)	82.446	2543	706	158.2	183.1
106	20ATO	C20 Alkyl Toluene (ortho)	83.178	1620	433	100.8	112.3
106	21ATM	C21 Alkyl Toluene (meta)	85.670	2640	604	164.2	156.6
106	21ATO	C21 Alkyl Toluene (ortho)	86.385	1987	444	123.6	115.1
106	22ATM	C22 Alkyl Toluene (meta)	88.687	1694	487	105.4	126.3
106	22ATO	C22 Alkyl Toluene (ortho)	89.402	1633	362	101.6	93.9
106	23ATM	C23 Alkyl Toluene (meta)	91.563	1852	383	115.2	99.3
106	23ATO	C23 Alkyl Toluene (ortho)	92.243	875	230	54.4	59.6
106	24ATM	C24 Alkyl Toluene (meta)	94.282	1594	357	99.2	92.6
106	24ATO	C24 Alkyl Toluene (ortho)	94.979	690	169	42.9	43.8
106	PHYTL	Phytanyl Toluene	95.885	4336	876	269.8	227.1
106	25ATM	C25 Alkyl Toluene (meta)	96.896	927	224	57.7	58.1
106	25ATO	C25 Alkyl Toluene (ortho)	97.559	549	134	34.2	34.7
106	26ATM	C26 Alkyl Toluene (meta)	99.389	982	193	61.1	50.0
106	26ATO	C26 Alkyl Toluene (ortho)	99.929	488	68	30.4	17.6
134	15AI	C15 Aryl Isoprenoids	60.931	1055	192	65.6	49.8
134	16AI	C16 Aryl Isoprenoids	66.142	706	117	43.9	30.3
134	17AI	C17 Aryl Isoprenoids					
134	18AI	C18 Aryl Isoprenoids	74.953	336	68	20.9	17.6
134	19AI	C19 Aryl Isoprenoids	77.218	580	98	36.1	25.4
134	20AI	C20 Aryl Isoprenoids	81.070	831	166	51.7	43.0
134	21AI	C21 Aryl Isoprenoids					
134	22AI	C22 Aryl Isoprenoids					
134	ISOR	Isorenieratane					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M1041356.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
142	2MN	2-Methylnaphthalene	38.048	722800	111546	44968.9	28922.9
142	1MN	1-Methylnaphthalene	39.250	456866	72748	28423.9	18862.9
149	MTTC578	5,7,8,-triMe-MTTChroman					
156	2EN	2-Ethylnaphthalene	46.203	39911	5266	2483.1	1365.4
156	1EN	1-Ethylnaphthalene	46.308	10684	3200	664.7	829.7
156	26DMN	2,6-Dimethylnaphthalene	47.127	169012	25875	10515.1	6709.2
156	27DMN	2,7-Dimethylnaphthalene	47.284	167129	27697	10397.9	7181.6
156	1317DMN	1,3 & 1,7-Dimethylnaphthalenes	48.295	359984	46903	22396.4	12161.5
156	16DMN	1,6-Dimethylnaphthalene	48.539	291409	47493	18130.0	12314.5
156	23DMN	2,3-Dimethylnaphthalene	49.724	35904	7515	2233.8	1948.6
156	14DMN	1,4-Dimethylnaphthalene	49.811	175091	24134	10893.3	6257.7
156	15DMN	1,5-Dimethylnaphthalene	49.915	44523	12546	2770.0	3253.1
156	12DMN	1,2-Dimethylnaphthalene	50.856	65316	10510	4063.6	2725.2
161	MTTC8	8-Me-MTTChroman					
168	2MBP	2-Methylbiphenyl	46.674	9090	1502	565.5	389.5
168	DPM	Diphenylmethane	48.922	7058	1188	439.1	308.0
168	3MBP	3-Methylbiphenyl	53.383	202158	32430	12577.2	8408.8
168	4MBP	4-Methylbiphenyl	54.028	61180	9773	3806.3	2534.1
168	DBF	Dibenzofuran	55.475	270322	40461	16818.0	10491.2
170	BB_EMN	Ethyl-methyl-Naphthalene	55.213	40767	5318	2536.3	1378.9
170	AB_EMN	Ethyl-methyl-Naphthalene	56.416	17481	2676	1087.6	693.9
170	137TMN	1,3,7-Trimethylnaphthalene	56.869	72409	11755	4504.9	3048.0
170	136TMN	1,3,6-Trimethylnaphthalene	57.252	124683	20417	7757.1	5294.0
170	146135T	(1,4,6+1,3,5)-Trimethylnaphthalenes	58.315	91675	13554	5703.5	3514.4
170	236TMN	2,3,6-Trimethylnaphthalene	58.576	105944	18418	6591.3	4775.6
170	127TMN	1,2,7-Trimethylnaphthalene	59.308	26381	4538	1641.3	1176.7
170	167126T	(1,6,7+1,2,6)-Trimethylnaphthalenes	59.500	149852	22576	9323.0	5853.8
170	124TMN	1,2,4-Trimethylnaphthalene	60.408	10144	1761	631.1	456.6
170	125TMN	1,2,5-Trimethylnaphthalene	60.861	101274	18628	6300.7	4830.1
178	PHEN	Phenanthrene	70.394	1103778	202710	68671.4	52560.9
184	1357	1,3,5,7-Tetramethylnaphthalene	64.817	17227	2924	1071.8	758.2
184	1367	1,3,6,7-Tetramethylnaphthalene	65.967	32416	6820	2016.8	1768.4
184	1247	(1,2,4,7+1,2,4,6+1,4,6,7)-Tetramethylnaphthalenes	66.717	24807	4725	1543.4	1225.2
184	1257	1,2,5,7-Tetramethylnaphthalene	66.908	26235	5556	1632.2	1440.6
184	2367	2,3,6,7-Tetramethylnaphthalene	67.274	7621	1627	474.1	421.9
184	1267	1,2,6,7-Tetramethylnaphthalene	67.710	19451	3988	1210.1	1034.1
184	1237	1,2,3,7-Tetramethylnaphthalene	67.884	5006	1077	311.4	279.3
184	1236	1,2,3,6-Tetramethylnaphthalene	68.164	11420	2522	710.5	653.9
184	1256	1,2,5,6-Tetramethylnaphthalene	68.878	57954	12173	3605.6	3156.4
184	DBT	Dibenzothiophene	69.087	35636	7078	2217.1	1835.3
191	BH32	C32 Benzohopane					
191	BH33	C33 Benzohopane					
191	BH34	C34 Benzohopane					
191	BH35	C35 Benzohopane					
192	3MP	3-Methylphenanthrene	75.319	278524	57480	17328.3	14904.1
192	2MP	2-Methylphenanthrene	75.493	344002	78941	21402.0	20468.7
192	9MP	9-Methylphenanthrene	76.190	397196	86263	24711.5	22367.2
192	1MP	1-Methylphenanthrene	76.382	314581	70072	19571.6	18169.1

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M1041356.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
198	CAD	Cadalene	66.316	1624	272	101.0	70.5
198	12467PMN	1,2,4,6,7-Pentamethylnaphthalene	73.175	3889	875	242.0	226.9
198	12357PMN	1,2,3,5,7-Pentamethylnaphthalene	73.489	3192	710	198.6	184.1
198	4MDBT	4 Methyl Dibenzothiophene	73.628	20081	4251	1249.3	1102.2
198	23MDBT	2 & 3 Methyl Dibenzothiophenes	74.413	19245	3548	1197.3	920.0
198	1MDBT	1 Methyl Dibenzothiophene	75.214	22069	4704	1373.0	1219.7
206	36DMP	3,6-Dimethylphenanthrene	79.536	18714	5019	1164.3	1301.4
206	26DMP	2,6-Dimethylphenanthrene	79.797	50313	11210	3130.2	2906.7
206	27DMP	2,7-Dimethylphenanthrene	79.902	32142	7907	1999.7	2050.2
206	39DMP	(3,9+3,10+2,10+1,3)-Dimethylphenanthrenes	80.407	205216	40009	12767.5	10374.0
206	29DMP	(2,9+1,6)-Dimethylphenanthrenes	80.616	110145	17989	6852.7	4664.4
206	17DMP	1,7-Dimethylphenanthrene	80.756	93577	21483	5821.9	5570.4
206	23DMP	2,3-Dimethylphenanthrene	81.035	51102	11781	3179.3	3054.7
206	19DMP	1,9-Dimethylphenanthrene	81.139	54817	12896	3410.4	3343.8
206	18DMP	1,8-Dimethylphenanthrene	81.575	31870	7203	1982.8	1867.7
206	12DMP	1,2-Dimethylphenanthrene	82.063	30801	7169	1916.3	1858.9
206	9_10DMP	9,10-Dimethylphenanthrene	82.708	3107	760	193.3	197.1
212	DMDBT	Dimethyldibenzothiophene	78.368	46627	1330	2900.9	344.9
219	RET	Retene	86.350	5545	1167	345.0	302.6
226	TMDBT	Trimethyldibenzothiophene	82.760	26896	538	1673.3	139.5
231	231A20	C20 Triaromatic Steroid	92.417	7301	1729	454.2	448.3
231	231B21	C21 Triaromatic	94.909	5000	967	311.1	250.7
231	231C26	C26 20S Triaromatic	104.069	394	91	24.5	23.6
231	231D26	C27 20S & C26 20R Triaromatic	105.673	1149	238	71.5	61.7
231	TADMD1	C28 23,24-Cholestane Triaromatic					
231	TADMD2	C28 23,24-Cholestane Triaromatic					
231	231E28	C28 20S Triaromatic	106.980	775	135	48.2	35.0
231	231F27	C27 20R Triaromatic	107.643	597	110	37.1	28.5
231	TADMD3	C28 23,24-Cholestane Triaromatic					
231	C29TA1	C29 Triaromatic					
231	C29TA2	C29 Triaromatic					
231	TADMD4	C28 23,24-Cholestane Triaromatic					
231	231G28	C28 20R Triaromatic	109.229	721	150	44.9	38.9
231	TADMD5	C28 23,24-Cholestane Triaromatic					
231	C29TA3	C29 Triaromatic					
245	C3S	C27 20S 3-Methyl Triaromatic Steroid	106.754	190	47	11.8	12.2
245	C4S	C27 20S 4-Methyl Triaromatic Steroid	107.381	282	74	17.5	19.2
245	E2S	C28 20S 2-Methyl Triaromatic Steroid					
245	E3SC3R	C28 20S 3-Methyl & C27 20R 3-Methyl TAS	108.270	484	102	30.1	26.4
245	E4SC4R	C28 20S 4-Methyl & C27 20R 4-Methyl TAS	108.863	642	88	39.9	22.8
245	S2S	C29 20S 2-Methyl Triaromatic Steroid					
245	DA	Triaromatic Dinosteroid a					
245	S3S	C29 20S 3-Methyl Triaromatic Steroid	109.491	428	56	26.6	14.5
245	DB	Triaromatic Dinosteroid b					
245	S4SE2R	C29 20S 4-Methyl & C28 20R 2-Methyl TAS	110.083	713	108	44.4	28.0
245	E3R	C28 20R 3-Methyl Triaromatic Steroid	110.223	326	69	20.3	17.9
245	E4R	C28 20R 4-Methyl Triaromatic Steroid	110.833	432	65	26.9	16.9
245	DC	Triaromatic Dinosteroid c					
245	DD	Triaromatic Dinosteroid d					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M1041356.D**

Ion	Peak Label	Compound Name	Ret. Time	Area	Height	ppm (Area)	ppm (Hght)
245	S2R	C29 20R 2-Methyl Triaromatic Steroid					
245	S3R	C29 20R 3-Methyl Triaromatic Steroid	111.739	495	84	30.8	21.8
245	DE	Triaromatic Dinosteroid e					
245	S4R	C29 20R 4-Methyl Triaromatic Steroid	112.315	179	37	11.1	9.6
245	DF	Triaromatic Dinosteroid f					
253	S253A	C21 Ring-C Monoaromatic Steroid					
253	S253B	C22 Monoaromatic steroid					
253	S253C	C27 Reg 5β(H),10β(CH3) 20S					
253	S253D	C27 Dia 10β(H),5β(CH3) 20S					
253	S253E	C27 Dia10βH,5βCH3 20R+Reg5βH,10βCH3 20R					
253	S253F	C27 Reg 5α(H),10β(CH3) 20S					
253	S253G	C28 Dia 10αH,5αCH3 20s+Reg5βH,10βCH3 20S					
253	S253H	C27 Reg 5α(H),10β(CH3) 20R					
253	S253I	C28 Reg 5α(H),10β(CH3) 20S					
253	S253J	C28 Dia 10αH,5αCH3 20R+Reg5βH,10βCH3 20R					
253	S253K	C29 Dia 10βH,5βCH3 20S+Reg5βH,10βCH3 20S					
253	S253L	C29 Reg 5α(H),10β(CH3) 20S					
253	S253M	C28 Reg 5α(H),10β(CH3) 20R					
253	S253N	C29 Dia 10βH,5βCH3 20R+Reg5βH,10βCH3 20R					
253	S253O	C29 Reg 5α(H),10β(CH3) 20R					

Company:	**CONOCOPHILLIPS**	**Client ID:**	**US135734**
Well Name:	**EAST SIMPSON #2**	**Project #:**	**04-501-A**
Depth:	**7295 - FT**	**Lab ID:**	**CP275213**
Sampling Point:		**File Name:**	**M1041356.D**

Miscellaneous Ratios	By Areas	By Heights
Triaromatic Steroids m/z 231		
(C20+C21)/Σ TAS	0.77	0.79
TAS #1 20/20+27	0.92	0.94
TAS #2 21/21+28	0.87	0.87
%26TAS	23.0	25.9
%27TAS	34.9	31.3
%28TAS	42.1	42.7
%29TAS		
C28/C26 20S TAS	1.97	1.48
C28/C27 20R TAS	1.21	1.36
Monoaromatic Steroids m/z 253		
Dia/Regular C27 MAS		
%27 MAS		
%28 MAS		
%29 MAS		
(C21+C22)/Σ MAS		
TAS/(MAS+TAS)	1.00	1.00
TA28/(TA28+MA29)	1.00	1.00
Triaromatic Methylsterolds m/z 245		
Dinosteroid Index		
C4/C3+C4 Mester	0.47	0.47
Phenanthrenes and Naphthalenes		
MPI-1	0.51	0.57
MPI-2	0.57	0.66
Rc(a) if Ro < 1.3 (Ro%)	0.68	0.71
Rc(b) if Ro > 1.3 (Ro%)	1.99	1.96
DNR-1	7.55	4.27
DNR-2	1.59	1.69
TNR1	1.16	1.36
TDE-1	9.98	10.58
TDE-2	0.18	0.20
MDR	0.91	0.90
Rm (Ro%)	0.60	0.60
MDR23	0.54	0.50
MDR1	0.62	0.66
DBT/Phenanthrene	0.03	0.03