

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1848

Sample..... : 25/5-2 B23290. ST NO  
Well Depth..... : 3196.00 to 3201.00 (Meters)  
Particularities II. : /  
Acquisition File Name : /  
Submitted by..... : KT Mag tape /  
Particularities I... : HT DST2 november 3. , 1989.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21	Sterane.....	6278.	C23	tricyclic.....	7576.
C22	4-Methyl Sterane	ns	C24	tetracyclic.....	5578.
C22	Sterane.....	2862.	Ts.....		19504.
C27	S Diasterane.....	23085.	Tm.....		17553.
C27	aa S Sterane.....	9603.	29	ab Hopane.....	34132.
C27	bb R Sterane.....	14084.	30	ab Hopane.....	77045.
C27	bb S Sterane.....	14084.	30	ba Hopane.....	13652.
C27	aa R Sterane.....	11844.	31	ab S Homohopane..	39983.
C29	aa S Sterane.....	8555.	31	ab R Homohopane..	30231.
C29	bb R Sterane.....	14664.	32	ab S Homohopane..	32181.
C29	bb S Sterane.....	12525.	32	ab R Homohopane..	24380.
C29	aa R Sterane.....	9166.	TOTAL	TERPANES.....	803037.
TOTAL STERANES.....		365883.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30	tricyclic, 22 S..	ns	C35	ab S Homohopane.	16578.
C30	tricyclic, 22 R..	ns	C35	ab R Homohopane.	12677.
29	Desmethyl Hopane.	ns	"X"		19504.
C28	Bisnorhopane.....	13652.	nC31		622381.
C29/5	(RT. > 29 ab)..	24380.	C27bb		34728.
18	a(H) Oleanane.....	ns	C28bb		23871.
Gammacerane.....		ns	C29bb		34068.
C33	ab S Homohopane.	23404.			
C33	ab R Homohopane.	19504.			
C35	Hexacyclic.....	ns			

## RESULTS :

27	bb S / 27	aa R ..	1.18	C29	DHop / C29	Hop	v. low.
27	aa S / 27	aa R --	0.81	C28	BNHop / C29	Hop-	0.39
27	S dia / 27	aa R .	1.94	C29/5	/ C29	Hop.....	0.71
22	4-Me st / 27	aa R	v. low.	18	aH Olean/C30	Hop.	v. low.
%	20 S C27		47.74	Gammacerane	/C30	Hop.	v. low.
%	bb C27		56.77	30/3(R&S)	/ C29	Hop-	v. low.
29	bb S / 29	aa R...	1.36	30/3(R&S)	/ 23/3		v. low.
29	aa S / 29	aa R...	0.93	2.35Hex	/C35Hop	(R&S).	v. low.
27	S dia / 29	aa R..	2.51	C35H(R&S)	/C33H	(R&S).	0.68
22	4-Me st / 29	aa R	v. low.	29+30Hop	/C35	H(R&S).	3.80
%	20 S C29		46.93	X/29H			0.57
%	bb C29		60.54	nC31/C30H			8.07
21	st / 22	st.....	2.19	%nC31/100			0.34
22	4-Me st / 22	st--	v. low.	%ST/100			0.20
29	H / C30	H.....	0.44	%TT/100			0.44
Tm	/ Ts		0.89	%27bb/100			0.37
23/3	/ 24/4		1.35	%28bb/100			0.25
%	22 S C31		56.94	%29bb/100			0.36
%	22 S C32		56.89	27-30H/29ST			3.30
ba	/ ab	X 100 -	17.71	29bbR/29aaR			1.59
23/3	/ 21	st.....	1.20				
TT	/ ST		2.19				

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1908

Sample..... : 25/5-2                      B22512.      ST      NO  
Well Depth..... : 3070.                      to 3070.                      (Meters)  
Particularities II.. : /  
Acquisition File Name : /  
Submitted by..... : KT                      Mag tape /  
Particularities I... : ND                      february 1. , 1990.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21	Sterane.....	13788.	C23	tricyclic.....	6481.
C22	4-Methyl Sterane	2911.	C24	tetracyclic.....	2830.
C22	Sterane.....	9654.	Ts.....		22287.
C27	S Diasterane.....	34793.	Tm.....		30644.
C27	aa S Sterane.....	19141.	29	ab Hopane.....	38306.
C27	bb R Sterane.....	23272.	30	ab Hopane.....	104464.
C27	bb S Sterane.....	23272.	30	ba Hopane.....	14625.
C27	aa R Sterane.....	20446.	31	ab S Homohopane.....	63376.
C29	aa S Sterane.....	20732.	31	ab R Homohopane.....	38304.
C29	bb R Sterane.....	28540.	32	ab S Homohopane.....	36215.
C29	bb S Sterane.....	23963.	32	ab R Homohopane.....	29250.
C29	aa R Sterane.....	22079.	TOTAL	TERPANES .....	877728.
TOTAL STERANES .....		878976.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30	tricyclic, 22 S..	nd	C35	ab S Homohopane.	nd
C30	tricyclic, 22 R..	nd	C35	ab R Homohopane.	nd
29	Desmethyl Hopane.	ns			
C28	Bisnorhopane....	32631.			
C29/5	(RT. > 29 ab)...	26465.			
18	a(H) Oleanane....	ns	X(30/5)		9931.
Gammacerane.....		ns	nC31		120003.
C33	ab S Homohopane.	nd	C27bbST		3400.
C33	ab R Homohopane.	nd	C28bbST		2700.
C35	Hexacyclic.....	ns	C29bbST		3700.

## RESULTS :

27	bb S / 27 aa R ..	1.13	C29	DHop / C29 Hop	v. low.
27	aa S / 27 aa R --	0.93	C28	BNHop / C29 Hop-	0.85
27	S dia / 27 aa R ..	1.70	C29/5	/ C29 Hop.....	0.69
22	4-Me st / 27 aa R	0.14	18	aH Olean/C30 Hop.	v. low.
%	20 S C27 .....	49.24	Gammacerane/C30	Hop.	v. low.
%	bb C27 .....	54.03	30/3(R&S) / C29	Hop-	N / A
29	bb S / 29 aa R...	1.08	30/3(R&S) / 23/3		N / A
29	aa S / 29 aa R...	0.93	2.	35Hex/C35Hop(R&S).	N / A
27	S dia / 29 aa R..	1.57	C35H(R&S)/C33H(R&S).		N / A
22	4-Me st / 29 aa R	0.13	29+30Hop/C35	H(R&S).	N / A
%	20 S C29 .....	46.89			
%	bb C29 .....	55.08			
21	st / 22 st .....	1.42	X/29H		0.25
22	4-Me st / 22 st--	0.30	nC31/C30H		1.14
29	H / C30 H .....	0.36	%nC31/100		0.06
Tm	/ Ts .....	1.37	%ST/100		0.46
23/3	/ 24/4 .....	2.28	%TT/100		0.46
%	22 S C31 .....	62.32	%27bb/100		0.34
%	22 S C32 .....	55.31	%C28ST/100		0.27
ba	/ ab ----- X 100 -	14.00	%C29st/100		0.37
23/3	/ 21 st .....	0.47	27-30H/29ST		2.05
TT	/ ST .....	0.99	29bbR/29aaR		1.29

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1909

Sample..... : 25/5-2 B22520. ST NO  
Well Depth..... : 3150. to 3150. (Meters)  
Particularities II... : /  
Acquisition File Name : /  
Submitted by..... : KT Mag tape /  
Particularities I... : ND february 1. , 1990.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21 Sterane.....		14562.	C23 tricyclic.....		13802.
C22 4-Methyl Sterane		4659.	C24 tetracyclic.....		20782.
C22 Sterane.....		9319.	Ts.....		11371.
C27 S Diasterane.....		42928.	Tm.....		102337.
C27 aa S Sterane.....		35434.	29 ab Hopane.....		150665.
C27 bb R Sterane.....		31004.	30 ab Hopane.....		196150.
C27 bb S Sterane.....		31004.	30 ba Hopane.....		56856.
C27 aa R Sterane.....		36911.	31 ab S Homohopane..		144979.
C29 aa S Sterane.....		35127.	31 ab R Homohopane..		103759.
C29 bb R Sterane.....		33871.	32 ab S Homohopane..		68227.
C29 bb S Sterane.....		28853.	32 ab R Homohopane..		42642.
C29 aa R Sterane.....		50182.	TOTAL TERPANES.....		2356560.
TOTAL STERANES.....		1307710.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30 tricyclic, 22 S..		ns	C35 ab S Homohopane.		nd
C30 tricyclic, 22 R..		ns	C35 ab R Homohopane.		nd
29 Desmethyl Hopane.		ns			
C28 Bishorhopane....		113658.			
C29/5 (RT. > 29 ab)..		14214.	X(30/5)		17056.
18 a(H) Oleanane.....		ns	nC31		345023.
Gammacerane.....		ns	C27bbST		3300.
C33 ab S Homohopane.		nd	C28bbST		2100.
C33 ab R Homohopane.		nd	C29bbST		4500.
C35 Hexacyclic.....		ns			

## RESULTS :

27 bb S / 27 aa R ..	0.83	C29 DHop / C29 Hop .	v. low.
27 aa S / 27 aa R --	0.95	C28 BNHop / C29 Hop-	0.75
27 S dia / 27 aa R .	1.16	C29/5 / C29 Hop.....	0.09
22 4-Me st / 27 aa R	0.12	18 aH Olean/C30 Hop.	v. low.
% 20 S C27 .....	49.45	Gammacerane/C30 Hop.	v. low.
% bb C27 .....	46.15	30/3(R&S) / C29 Hop-	v. low.
		30/3(R&S) / 23/3....	v. low.
29 bb S / 29 aa R...	0.57	2. 35Hex/C35Hop(R&S).	N / A
29 aa S / 29 aa R...	0.69	C35H(R&S)/C33H(R&S).	N / A
27 S dia / 29 aa R..	0.85	29+30Hop/C35 H(R&S).	N / A
22 4-Me st / 29 aa R	0.09		
% 20 S C29 .....	43.22		
% bb C29 .....	42.37		
21 st / 22 st .....	1.56		
22 4-Me st / 22 st--	0.49		
		X/29H	0.11
29 H / C30 H .....	0.76	nC31/C30H	1.75
Tm / Ts .....	8.99	%nC31/100	0.08
23/3 / 24/4 .....	0.66	%ST/100	0.32
% 22 S C31 .....	58.28	%TT/100	0.58
% 22 S C32 .....	61.53	%27bb/100	0.33
ba / ab ----- X 100 -	28.98	%C28ST/100	0.21
		%C29st/100	0.45
23/3 / 21 st .....	0.94	27-30H/29ST	3.11
TT / ST .....	1.80	29bbR/29aaR	0.67

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1910

Sample..... : 25/5-2                      B22521.    ST    NO  
Well Depth ..... : 3160.                      to 3160.                      (Meters)  
Particularities II. : /  
Acquisition File Name : /  
Submitted by..... : KT                      Mag tape /  
Particularities I... : ND                      february 1. , 1990.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21 Sterane.....		7978.	C23 tricyclic.....		15130.
C22 4-Methyl Sterane		4363.	C24 tetracyclic.....		9781.
C22 Sterane.....		5983.	Ts.....		18291.
C27 S Diasterane....		42818.	Tm.....		26243.
C27 aa S Sterane....		41546.	29 ab Hopane.....		64418.
C27 bb R Sterane....		34759.	30 ab Hopane.....		119284.
C27 bb S Sterane....		34759.	30 ba Hopane.....		23857.
C27 aa R Sterane....		43242.	31 ab S Homohopane..		68391.
C29 aa S Sterane....		34945.	31 ab R Homohopane..		38172.
C29 bb R Sterane....		32667.	32 ab S Homohopane..		30219.
C29 bb S Sterane....		27349.	32 ab R Homohopane..		23857.
C29 aa R Sterane....		40643.	TOTAL TERPANES .....		1201710.
TOTAL STERANES .....		1150870.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30 tricyclic, 22 S..		nd	C35 ab S Homohopane.		nd
C30 tricyclic, 22 R..		nd	C35 ab R Homohopane.		nd
29 Desmethyl Hopane.		ns			
C28 Bishomohopane....		9543.			
C29/5 (RT. > 29 ab)..		23062.	X(30/5) .....		15109.
18 a(H) Oleanane....		ns	nC31 .....		161730.
Gammacerane.....		ns	C27bbST .....		3800.
C33 ab S Homohopane.		nd	C28bbST .....		2500.
C33 ab R Homohopane.		nd	C29bbST .....		3600.
C35 Hexacyclic.....		ns			

## RESULTS :

27 bb S / 27 aa R ..	0.80	C29 DHop / C29 Hop .	v. low.
27 aa S / 27 aa R --	0.96	C28 BNHop / C29 Hop-	0.14
27 S dia / 27 aa R .	0.99	C29/5 / C29 Hop.....	0.35
22 4-Me st / 27 aa R	0.10	18 aH Olean/C30 Hop.	v. low.
% 20 S C27 .....	49.45	Gammacerane/C30 Hop.	v. low.
% bb C27 .....	45.05	30/3(R&S) / C29 Hop-	N / A
		30/3(R&S) / 23/3.....	N / A
29 bb S / 29 aa R...	0.67	2.35Hex/C35Hop(R&S).	N / A
29 aa S / 29 aa R...	0.85	C35H(R&S)/C33H(R&S).	N / A
27 S dia / 29 aa R..	1.05	29+30Hop/C35 H(R&S).	N / A
22 4-Me st / 29 aa R	0.10		
% 20 S C29 .....	45.93	X/29H .....	0.23
% bb C29 .....	44.25	nC31/C30H .....	1.35
21 st / 22 st .....	1.33	%nC31/100 .....	0.06
22 4-Me st / 22 st--	0.72	%ST/100 .....	0.45
		%TT/100 .....	0.47
29 H / C30 H .....	0.54	%27bb/100 .....	0.38
Tm / Ts .....	1.43	%C28ST/100 .....	0.25
23/3 / 24/4 .....	1.54	%C29st/100 .....	0.36
% 22 S C31 .....	64.17	27-30H/29ST .....	1.68
% 22 S C32 .....	55.88	29bbR/29aaR .....	0.80
ba / ab ----- X 100 -	20.00		
23/3 / 21 st .....	1.89		
TT / ST .....	1.04		

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1911

Sample..... : 25/5-2                      B22522.    ST    NO  
Well Depth..... : 3170.                      to 3170.                      (Meters)  
Particularities II.. : /  
Acquisition File Name : /  
Submitted by..... : KT                      Mag tape /  
Particularities I... : ND                      february 1. , 1990.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21	Sterane.....	12294.	C23	tricyclic.....	15172.
C22	4-Methyl Sterane	6042.	C24	tetracyclic.....	8806.
C22	Sterane.....	10414.	Ts.....		16431.
C27	S Diasterane.....	46421.	Tm.....		22859.
C27	aa S Sterane.....	35682.	29	ab Hopane.....	52865.
C27	bb R Sterane.....	28458.	30	ab Hopane.....	104299.
C27	bb S Sterane.....	28458.	30	ba Hopane.....	19288.
C27	aa R Sterane.....	38656.	31	ab S Homohopane..	55723.
C29	aa S Sterane.....	34428.	31	ab R Homohopane..	32889.
C29	bb R Sterane.....	32350.	32	ab S Homohopane..	24289.
C29	bb S Sterane.....	29032.	32	ab R Homohopane..	18574.
C29	aa R Sterane.....	42724.	TOTAL	TERPANES.....	1112830.
TOTAL	STERANES.....	1195200.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30	tricyclic, 22 S..	nd	C35	ab S Homohopane.	nd
C30	tricyclic, 22 R..	nd	C35	ab R Homohopane.	nd
29	Desmethyl Hopane.	ns			
C28	Bisnorhopane....	7143.			
C29/5	(RT. > 29 ab)..	20003.	X(30/5)		12859.
18	a(H) Oleanane....	ns	nC31		182252.
Gammacerane.....		ns	C27bbST		3600.
C33	ab S Homohopane.	nd	C28bbST		2400.
C33	ab R Homohopane.	nd	C29bbST		3900.
C35	Hexacyclic.....	ns			

## RESULTS :

27	bb S / 27 aa R ..	0.73	C29	DHop / C29 Hop .	v. low.
27	aa S / 27 aa R --	0.92	C28	BNHop / C29 Hop-	0.13
27	S dia / 27 aa R .	1.20	C29/5	/ C29 Hop.....	0.37
22	4-Me st / 27 aa R	0.15	18	aH Olean/C30 Hop.	v. low.
%	20 S C27 .....	48.86	Gammacerane/C30	Hop.	v. low.
%	bb C27-----	43.36	30/3(R&S) / C29	Hop-	N / A
29	bb S / 29 aa R...	0.67	30/3(R&S) / 23/3...		N / A
29	aa S / 29 aa R...	0.80	2.	35Hex/C35Hop(R&S).	N / A
27	S dia / 29 aa R..	1.08	C35H(R&S)/C33H(R&S).		N / A
22	4-Me st / 29 aa R	0.14	29+30Hop/C35 H(R&S).		N / A
%	20 S C29 .....	45.80			
%	bb C29-----	44.30	X/29H		0.24
21	st / 22 st .....	1.18	nC31/C30H		1.74
22	4-Me st / 22 st--	0.58	%nC31/100		0.07
29	H / C30 H .....	0.50	%ST/100		0.47
Tm	/ Ts .....	1.39	%TT/100		0.44
23/3	/ 24/4 .....	1.72	%27bb/100		0.36
%	22 S C31 .....	62.88	%C28ST/100		0.24
%	22 S C32 .....	56.66	%C29st/100		0.39
ba	/ ab ----- X 100 -	18.49	27-30H/29ST		1.41
23/3	/ 21 st .....	1.23	29bbR/29aaR		0.75
TT	/ ST .....	0.93			

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1912

Sample..... : 25/5-2 B22531. ST NO  
Well Depth..... : 3180.40 to 3180.40 (Meters)  
Particularities II. :  
Acquisition File Name :  
Submitted by..... : KT Mag tape  
Particularities I... : CA K1 february 5. , 1990.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21 Sterane.....		1665.	C23 tricyclic.....		1640.
C22 4-Methyl Sterane		832.	C24 tetracyclic.....		6360.
C22 Sterane.....		999.	Ts.....		14831.
C27 S Diasterane.....		16715.	Tm.....		33155.
C27 aa S Sterane.....		8433.	29 ab Hopane.....		62817.
C27 bb R Sterane.....		6925.	30 ab Hopane.....		125637.
C27 bb S Sterane.....		6925.	30 ba Hopane.....		29665.
C27 aa R Sterane.....		10391.	31 ab S Homohopane..		95975.
C29 aa S Sterane.....		11822.	31 ab R Homohopane..		61075.
C29 bb R Sterane.....		10083.	32 ab S Homohopane..		40135.
C29 bb S Sterane.....		7301.	32 ab R Homohopane..		32282.
C29 aa R Sterane.....		16343.	TOTAL TERPANES.....		984998.
TOTAL STERANES.....		361811.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30 tricyclic, 22 S..		nd	C35 ab S Homohopane.		nd
C30 tricyclic, 22 R..		nd	C35 ab R Homohopane.		nd
29 Desmethyl Hopane.		ns			
C28 Bisanthracene.....		13960.			
C29/5 (RT. > 29 ab)..		24430.	X(30/5)		20940.
18 a(H) Oleanane.....		ns	nC31		207599.
Gammacerane.....		21812.	C27bbST		3300.
C33 ab S Homohopane.		nd	C28bbST		2000.
C33 ab R Homohopane.		nd	C29bbST		5100.
C35 Hexacyclic.....		ns			

## RESULTS :

27 bb S / 27 aa R ..	0.66	C29 DHop / C29 Hop .	v. low.
27 aa S / 27 aa R --	0.81	C28 BNHop / C29 Hop-	0.22
27 S dia / 27 aa R .	1.60	C29/5 / C29 Hop.....	0.38
22 4-Me st / 27 aa R	0.08	18 aH Olean/C30 Hop.	v. low.
% 20 S C27 .....	47.00	Gammacerane/C30 Hop.	0.17
% bb C27-----	42.38	30/3(R&S) / C29 Hop-	N / A
		30/3(R&S) / 23/3.....	N / A
29 bb S / 29 aa R... .	0.44	2.35Hex/C35Hop(R&S).	N / A
29 aa S / 29 aa R... .	0.72	C35H(R&S)/C33H(R&S).	N / A
27 S dia / 29 aa R.. .	1.02	29+30Hop/C35 H(R&S).	N / A
22 4-Me st / 29 aa R	0.05		
% 20 S C29 .....	41.98	X/29H	0.33
% bb C29 .....	38.16	nC31/C30H	1.65
21 st / 22 st .....	1.66	%nC31/100	0.13
22 4-Me st / 22 st--	0.83	%ST/100	0.23
		%TT/100	0.63
29 H / C30 H .....	0.49	%27bb/100	0.31
Tm / Ts .....	2.23	%C28ST/100	0.19
23/3 / 24/4 .....	0.25	%C29st/100	0.49
% 22 S C31 .....	61.11	27-30H/29ST	5.19
% 22 S C32 .....	55.42	29bbR/29aaR	0.61
ba / ab ----- X 100 --	23.61		
23/3 / 21 st .....	0.98		
TT / ST .....	2.72		

S N E A (P) Organic Geochemistry  
Computerized GC/MS Analytical Report on Steranes and Terpanes nr. 1914

Sample..... : 25/5-2 B24959. ST NO  
Well Depth..... : 3185.00 to 3185.00 (Meters)  
Particularities II. : /  
Acquisition File Name : /  
Submitted by..... : KT Mag tape /  
Particularities I... : CA K1 february 5. , 1990.

S T E R A N E S		Areas	T E R P A N E S		Areas
C21	Sterane.....	2943.	C23	tricyclic.....	ns
C22	4-Methyl Sterane	500.	C24	tetracyclic.....	ns
C22	Sterane.....	1377.	Ts.....		5793.
C27	S Diasterane.....	7331.	Tm.....		5183.
C27	aa S Sterane.....	2393.	29	ab Hopane.....	14086.
C27	bb R Sterane.....	3430.	30	ab Hopane.....	21343.
C27	bb S Sterane.....	3430.	30	ba Hopane.....	2896.
C27	aa R Sterane.....	2233.	31	ab S Homohopane..	15854.
C29	aa S Sterane.....	2488.	31	ab R Homohopane..	11281.
C29	bb R Sterane.....	4909.	32	ab S Homohopane..	10976.
C29	bb S Sterane.....	3577.	32	ab R Homohopane..	7622.
C29	aa R Sterane.....	2488.	TOTAL	TERPANES.....	262699.
TOTAL	STERANES.....	122232.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30	tricyclic, 22 S..	nd	C35	ab S Homohopane.	nd
C30	tricyclic, 22 R..	nd	C35	ab R Homohopane.	nd
29	Desmethyl Hopane.	ns			
C28	Bisnorhopane....	3049.			
C29/5	(RT. > 29 ab)..	10142.	X(30/5)		8169.
18	a(H) Oleanane....	ns	nC31		118324.
Gammacerane.....		nd	C27bbST		3900.
C33	ab S Homohopane.	nd	C28bbST		1600.
C33	ab R Homohopane.	nd	C29bbST		4400.
C35	Hexacyclic.....	ns			

## RESULTS :

27	bb S / 27 aa R ..	1.53	C29	DHop / C29 Hop .	v. low.
27	aa S / 27 aa R --	1.07	C28	BNHop / C29 Hop-	0.21
27	S dia / 27 aa R	3.28	C29/5	/ C29 Hop.....	0.72
22	4-Me st / 27 aa R	0.22	18	aH Olean/C30 Hop.	v. low.
%	20 S C27 .....	50.69	Gammacerane/C30	Hop.	N / A
%	bb C27 .....	59.72	30/3(R&S) / C29	Hop-	N / A
29	bb S / 29 aa R...	1.43	30/3(R&S) / 23/3...		N / A
29	aa S / 29 aa R...	0.99	2.	35Hex/C35Hop(R&S).	N / A
27	S dia / 29 aa R..	2.94	C35H(R&S)/C33H(R&S).		N / A
22	4-Me st / 29 aa R	0.20	29+30Hop/C35 H(R&S).		N / A
%	20 S C29 .....	45.05			
%	bb C29 .....	63.03	X/29H		0.57
21	st / 22 st .....	2.13	nC31/C30H		5.54
22	4-Me st / 22 st--	0.36	%nC31/100		0.23
29	H / C30 H .....	0.65	%ST/100		0.24
Tm / Ts .....		0.89	%TT/100		0.52
23/3	/ 24/4 .....	N / A	%27bb/100		0.39
%	22 S C31 .....	58.42	%C28ST/100		0.16
%	22 S C32 .....	59.01	%C29st/100		0.44
ba / ab .....	X 100 -	13.57	27-30H/29ST		3.44
23/3	/ 21 st .....	v. low.	29bbR/29aaR		1.97
TT / ST .....		2.14			

S N E A (P) Organic Geochemistry  
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Sample..... : 25/5-2                      B24960.      ST      NO  
Well Depth..... : 3193.00                      to 3193.00      (Meters)  
Particularities II. : /  
Acquisition File Name : /                      Mag tape /  
Submitted by..... : KT                                      february 5. , 1990.  
Particularities I... : CA K1

S T E R A N E S		Areas	T E R P A N E S		Areas
C21	Sterane.....	646.	C23	tricyclic.....	699.
C22	4-Methyl Sterane	226.	C24	tetracyclic.....	779.
C22	Sterane.....	452.	Ts.....		7386.
C27	S Diasterane.....	8169.	Tm.....		6564.
C27	aa S Sterane.....	2355.	29	ab Hopane.....	15921.
C27	bb R Sterane.....	3475.	30	ab Hopane.....	23958.
C27	bb S Sterane.....	3475.	30	ba Hopane.....	5579.
C27	aa R Sterane.....	2075.	31	ab S Homohopane..	18871.
C29	aa S Sterane.....	4392.	31	ab R Homohopane..	13784.
C29	bb R Sterane.....	7576.	32	ab S Homohopane..	14769.
C29	bb S Sterane.....	6113.	32	ab R Homohopane..	11487.
C29	aa R Sterane.....	4134.	TOTAL	TERPANES.....	306161.
TOTAL STERANES.....		153415.			

OPTIONAL ANALYSIS		Areas	OPTIONAL ANALYSIS		Areas
C30	tricyclic, 22 S..	nd	C35	ab S Homohopane.	nd
C30	tricyclic, 22 R..	nd	C35	ab R Homohopane.	nd
29	Bismethyl Hopane.	ns			
C28	Bisnorhopane....	4102.			
C29/S	(RT. > 29 ab)..	11323.			
18	a(H) Oleanane....	ns	X(30/5)		7876.
Gammacerane.....		nd	nC31		174222.
C33	ab S Homohopane.	nd	C27bbST		2500.
C33	ab R Homohopane.	nd	C28bbST		2300.
C35	Hexacyclic.....	ns	C29bbST		5100.

## RESULTS :

27	bb S / 27	aa R ..	1.67	C29	DHop / C29 Hop	v. low.
27	aa S / 27	aa R --	1.13	C28	BNHop / C29 Hop-	0.25
27	S dia / 27	aa R	3.93	C29/S	/ C29 Hop.....	0.71
22	4-Me st / 27	aa R	0.10	18	aH Olean/C30 Hop.	v. low.
%	20 S C27		51.23	Gammacerane/C30	Hop.	N / A
%	bb C27		61.07	30/3(R&S)	/ C29 Hop-	N / A
29	bb S / 29	aa R...	1.47	30/3(R&S)	/ 23/3.....	N / A
29	aa S / 29	aa R...	1.06	2.	35Hex/C35Hop(R&S).	N / A
27	S dia / 29	aa R...	1.97	C35H(R&S)/C33H(R&S).		N / A
22	4-Me st / 29	aa R	0.05	29+30Hop/C35	H(R&S).	N / A
%	20 S C29		47.28			
%	bb C29		61.61			
21	st / 22	st	1.42	X/29H		0.49
22	4-Me st / 22	st--	0.50	nC31/C30H		7.27
29	H / C30	H	0.66	%nC31/100		0.27
Tm	/ Ts		0.88	%ST/100		0.24
23/3	/ 24/4		0.89	%TT/100		0.48
%	22 S C31		57.78	%27bb/100		0.25
%	22 S C32		56.24	%C28ST/100		0.23
ba	/ ab	X 100 -	23.28	%C29st/100		0.51
23/3	/ 21	st	1.08	27-30H/29ST		2.42
TT	/ ST		1.99	29bbR/29aaR		1.83



SNEA(P) ORGANIC GEOCHEMISTRY  
Computerized GC / MS Analytical Report on Steranes and Terpanes

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SIMPLIFIED MOLECULAR PARAMETERS EXPLANATION CHART  
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Parameter	Developped formulation	
27 bb S / 27 aa R	5 ALPHA(H), 14 BETA(H), 17 BETA(H)-20S- CHOLESTANE / 5 ALPHA(H), 14 ALPHA(H), 17 ALPHA(H)-20R- CHOLESTANE	+
27 aa S / 27 aa R	5 ALPHA(H), 14 ALPHA(H), 17 ALPHA(H)-20S- CHOLESTANE / 5 ALPHA(H), 14 ALPHA(H), 17 ALPHA(H)-20R- CHOLESTANE	+
27 S dia/ 27 aa R	C 27 (20 S) Rearranged Sterane ( Diasterane ) / 5 ALPHA(H), 14 ALPHA(H), 17 ALPHA(H)-20R- CHOLESTANE	+
22 4 Me / 27 aa R	5 ALPHA(H), 14 BETA(H)-methyl-4 ALPHA PREGNANE / 5 ALPHA(H), 14 ALPHA(H), 17 ALPHA(H)-20R- CHOLESTANE	+
% 20 S C 27	% [ 14 ALPHA(H), 17 ALPHA(H)-20S + 14 BETA(H), 17 BETA(H)-20S ] / 14 ALPHA(H), 17 ALPHA(H)(20S+R)+14 BETA(H), 17 BETA(H)(20S+R) - CHOLESTANE	+
% bb C 27	% [ 14 BETA(H), 17 BETA(H)(20S + 20R)- CHOLESTANE ] / 14 ALPHA(H), 17 ALPHA(H)(20S+R)+14 BETA(H), 17 BETA(H)(20S+R) - CHOLESTANE	+
21 st / 22 st	5 ALPHA(H), 14 BETA(H), 17 BETA(H) PREGNANE / 5 ALPHA(H), 14 BETA(H), 17 BETA(H)-methyl 20 PREGNANE	+
22 4 Me / 22 st	5 ALPHA(H), 14 BETA(H), 17 BETA(H)-methyl-4 ALPHA PREGNANE / 5 ALPHA(H), 14 BETA(H), 17 BETA(H)-methyl 20 PREGNANE	+
C 29 H / C 30 H	17 ALPHA(H), 21 BETA(H) NORHOPANE ( C 29 ) / 17 ALPHA(H), 21 BETA(H) HOPANE ( C 30 )	+
Tm / Ts	18 ALPHA(H)-22, 29, 30 TRISNORNEOHOPANE ( C 27, "maturable" ) / 17 ALPHA(H)-22, 29, 30 TRISNORHOPANE ( C 27, "stable" )	-
23/3 / 24/4	Tricyclic Triterpane ( C 23 ) / Tetracyclic Triterpane ( C 24 )	!
% 22 S C 31	% 17 ALPHA(H), 21 BETA(H)-22S-30 HOMOHOPEANE / 17 ALPHA(H), 21 BETA(H)-(22R+22S)-30 HOMOHOPEANE	+
% 22 S C 32	% 17 ALPHA(H), 21 BETA(H)-22S-30, 31 BISHOMOHOPEANE / 17 ALPHA(H), 21 BETA(H)-(22R+22S)-30, 31 BISHOMOHOPEANE	+
ba / ab C 30	17 BETA(H), 21 ALPHA(H) MORETANE ( C 30 ) / 17 ALPHA(H), 21 BETA(H) HOPANE ( C 30 )	-
23/3 / 21st	Tricyclic Triterpane ( C 23 ) / 5 ALPHA(H), 14 BETA(H), 17 BETA(H) PREGNANE	!
TT / ST	Integration of m/z 191 between Ts and C35(22R) HOPANE / Integration of m/z 217 between 27S dia and C29aaR STERANE	!

(+) Value increasing with maturity . (-) Value decreasing with maturity.  
Some parameters are source-dependant