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**SECTOR FOR PETROLEUM TECHNOLOGY**  
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Grading
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<b>Title</b> GEOCHEMICAL EVALUATION OF WELL 6608/10-2		
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TABLE 1. WELL 6608/10-2: GEOCHEMICAL SAMPLES AND ANALYSES. Gas analyses (headspace and occluded, 44 samples, Table 9) and vitrinite reflectance measurements (21 samples, Table 8) have been performed on separate samples.

Depth mRBK	Sample nr.	Sample type	TOC	Rock Eval	Ker descr	PyGC	Extract anal.
1553	S5721	SWC	X	X		X	X
1682	S5722	SWC	X	X			
1728	S5731	CUTT	X	X			
1860	S5723	SWC	X	X			
1890	S5733	CUTT	X	X			
1957	S5724	SWC	X	X			
1985	S5725	SWC	X	X			
2100	S5734	CUTT	X	X			
2262	S5735	CUTT	X	X			
2271	S5736	CUTT	X	X	X	X	X
2283	S5737	CUTT	X	X			
2298	S5738	CUTT	X	X		X	X <sup>1</sup>
2313	S5739	CUTT	X	X			
2328	S5740	CUTT	X	X			
2343	S5741	CUTT	X	X			
2352	S5726	SWC	X	X	X	X	X
2352	S5742	CUTT	X	X			
2358	S5743	CUTT	X	X	X	X	X
2358	S5757	CUTT	X	X			
2360	S5727	SWC	X	X		X	X
2368	S5728	SWC	X	X			
2444	S5729	SWC	X	X	X	X	X
2460	S5744	CUTT	X	X			
2514	S5745	CUTT	X	X		X	X <sup>1</sup>
2592	S5677	CORE					X <sup>2</sup>
2604	S5678	CORE					X <sup>2</sup>
2623	S5679	CORE					X <sup>2</sup>
2624	S5680	CORE					X <sup>2</sup>
2646.10	S5681	CORE					X <sup>2</sup>
2672	S5682	CORE					X <sup>2</sup>
2690.32	S5759	CORE		X			X
2712.10	S5760	CORE		X			X
2724.20	S5761	CORE				X	
2736	S5762	CORE		X			X
2914	S5747	CUTT	X	X	X	X	X
2998	S5748	CUTT	X	X			
3054	S5749	CUTT	X	X	X	X	X
3107	S5730	SWC		X			X
3123	S5750	CUTT	X	X			
3210	S5751	CUTT	X	X	X	X	X
3351	S5752	CUTT	X	X			
3459	S5753	CUTT	X	X	X	X	X
3495	S5754	CUTT		X			X
3624	S5755	CUTT		X			X
3657	S5756	CUTT	X	X			
2695	S5763	DST-2	oil		:		X
			gas		:	full gas analysis	
2612	S5764	DST-3A	condensate		:		X
			gas		:	full gas analysis	
2602	S5765	DST-3B	condensate		:		X
			gas		:	full gas analysis	

<sup>1</sup> only thermal extraction-GC

<sup>2</sup> mini-extraction + EOM-GC

TABLE 2. WELL 6608/10-2: SOURCE ROCK SCREENING DATA

DEPTH (mRKB)	SAMPLE NR.	S1 mg HC/g	S2 rock	TOC %	HI	PP	PI	TMAX °C
1553.00	S5721#	0.4	1.9	2.1	90	2.3	0.2	426
1682.00	S5722	0.0	0.0	0.1	0	0.0	0.0	542
1728.00	S5731	0.3	2.2	2.3	96	2.5	0.1	409
1860.00	S5723	0.0	0.3	0.7	43	0.3	0.0	421
1890.00	S5733	0.1	0.8	1.1	73	0.9	0.1	416
1957.00	S5724	0.0	0.1	0.7	14	0.1	0.0	412
1985.00	S5725	0.0	0.0	0.4	0	0.0	0.0	408
2100.00	S5734	0.1	0.6	1.2	50	0.7	0.1	419
2262.00	S5735	0.2	0.6	1.1	55	0.8	0.3	414
2271.00	S5736#	0.3	0.7	0.9	78	1.0	0.3	427
2283.00	S5737	0.7	0.8	1.0	80	1.5	0.5	415
2298.00	S5738	0.6	1.3	1.3	100	1.9	0.3	426
2313.00	S5739	0.2	1.1	2.1	52	1.3	0.2	427
2328.00	S5740	0.1	0.7	0.9	78	0.8	0.1	426
2343.00	S5741	1.6	2.0	1.6	128	3.6	0.4	341
2352.00	S5726#	0.6	9.6	3.5	274	10.2	0.1	419
2352.00	S5742	24.2	33.5	14.4	233	57.7	0.4	341
2358.00	S5743#	5.9	53.7	11.1	484	59.6	0.1	411
2358.00	S5757	0.8	12.2	3.9	315	13.0	0.1	418
2360.00	S5727#	1.6	25.9	6.9	375	27.5	0.2	415
2368.00	S5728	1.4	3.5	4.4	80	4.9	0.3	427
2444.00	S5729#	1.3	2.9	2.5	116	4.2	0.3	432
2460.00	S5744	5.0	7.8	4.8	163	12.8	0.4	416
2514.00	S5745	3.3	3.1	2.9	107	6.4	0.5	424
2690.32	S5759#	21.2	1.2		0	22.4	1.0	321
2712.10	S5760#	11.3	0.5		0	11.8	1.0	321
2736.00	S5762#	0.0	0.1		0	0.1	0.0	416
2914.00	S5747#	11.9	261.0	58.7	445	272.9	0.0	431
2998.00	S5748	9.2	195.9	56.4	347	205.1	0.0	433
3054.00	S5749#	7.4	190.1	52.0	366	197.5	0.0	429
3107.00	S5730#	0.1	0.1		0	0.2	0.5	419
3123.00	S5750	7.0	192.9	67.5	286	199.9	0.0	433
3210.00	S5751#	13.2	224.4	69.2	324	237.6	0.0	437
3351.00	S5752	17.1	206.5	57.9	357	223.6	0.1	438
3459.00	S5753#	15.8	177.5	55.9	318	193.3	0.1	439
3495.00	S5754#	1.5	0.5		0	2.0	0.8	438
3624.00	S5755#	0.2	0.1		0	0.3	0.7	432
3657.00	S5756	0.1	0.7	1.1	62	0.8	0.1	446

HI: (S2/TOC)\*100      PP: S1+S2      PI: S1/S1+S2  
# : sample selected for follow-up analyses

TABLE 3. WELL 6608/10-2: VISUAL KEROGEN COMPOSITION

DEPTH (mRKB)	SAMPLE NO.	VISUAL KEROGEN COMPOSITION (%)		
		LIPTINITE	INERTINITE	VITRINITE
2271	S5736	50	20	30
2352	S5726	80	10	10
2358	S5743	85	10	5
2444	S5729	45	15	40
2914	S5747	25	5	70
3054	S5749	35	5	60
3210	S5751	20	10	70
3459	S5753	15	10	75

TABLE 4a. WELL 6608/10-2: CONCENTRATION OF EXTRACTABLE ORGANIC MATTER (EOM) AND FRACTIONS (IN PPM)

DEPTH (mRKB)	SAMPLE NO.	TOT EOM	HYDROCARBONS			NON-HYDROCARBONS		
			SAT	ARO	TOTAL	NSO	ASPH	TOTAL
1553.00	S5721	6567*			0			0
2271.00	S5736	931*			0	165		165
2352.00	S5726	824*			0			0
2358.00	S5743	5256	343	800	1143	1686	2426	4112
2360.00	S5727	3918	333	440	773	1021	2124	3145
2444.00	S5729	1396	367	375	742	284	370	654
2592.00	S5677#	1308						
2604.00	S5678#	1614						
2623.00	S5679#	15574						
2624.00	S5680#	21359						
2646.10	S5681#	14725						
2672.00	S5682#	30450						
2690.32	S5759	239*			0			0
2712.10	S5760	17177	11413	3839	15252	1303	622	1925
2736.00	S5762	10502	5748	3209	8957	1270	275	1545
2914.00	S5747	51784	1386	7588	8974	8182	34628	42810
3054.00	S5749	70524	2302	9208	11510	11876	47138	59014
3107.00	S5730	1512	273	224	497	385	631	1016
3210.00	S5751	61923	1823	1823	3646	9895	48382	58277
3459.00	S5753	101818	2894	14468	17362	14846	69610	84456
3495.00	S5754	1554	78	306	384	321	848	1169
3624.00	S5755	540*			0		285	285

\* insufficient extract amount for MPLC separation

# mini-extraction of core samples

TABLE 4b. WELL 6608/10-2: NORMALISED GROSS COMPOSITION (%) OF EXTRACTED ORGANIC MATTER AND DST OILS

DEPTH (mRKB)	SAMPLE NO.	TOT EOM	HYDROCARBONS			NON-HYDROCARBONS		
			SAT	ARO	TOTAL	NSO	ASPH	TOTAL
EXTRACTS:								
2271.00	S5736	931	-	-	-	-	17.7	-
2358.00	S5743	5256	6.5	15.2	21.7	32.1	46.2	78.2
2360.00	S5727	3918	8.5	11.2	19.7	26.1	54.2	80.3
2444.00	S5729	1396	26.3	26.9	53.1	20.3	26.5	46.8
2712.10	S5760	17177	66.4	22.3	88.8	7.6	3.6	11.2
2736.00	S5762	10502	54.7	30.6	85.3	12.1	2.6	14.7
2914.00	S5747	51784	2.7	14.6	17.3	15.8	66.9	82.7
3054.00	S5749	70524	3.3	13.1	16.3	16.8	66.8	83.7
3107.00	S5730	1512	18.1	14.8	32.9	25.5	41.7	67.2
3210.00	S5751	61923	2.9	2.9	5.9	16.0	78.1	94.1
3459.00	S5753	101818	2.8	14.2	17.0	14.6	68.4	82.9
3495.00	S5754	1554	5.0	19.7	24.7	20.7	54.7	75.2
3624.00	S5755	540	-	-	-	-	52.8	-
OILS:								
2602.00	S5765	DST3B	65.1	26.7	91.8	6.9	1.3	8.2
2612.00	S5764	DST3A	67.1	26.7	93.8	5.5	0.7	6.2
2695.00	S5763	DST2	62.7	31.9	94.6	3.2	2.2	5.4

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EOM in mg/kg rock // SAT/ARO/NSO/ASPH as % of EOM

TABLE 5. WELL 6608/10-2: PARAMETERS FROM GC ANALYSIS

DEPTH (mRKB)	SAMPLE NR.	$\frac{PR}{PH}$	$\frac{PR}{NC17}$ (A)	$\frac{PH}{NC18}$ (B)	$\frac{A}{B}$	CPI	MPI	$R_c$ (%)
EXTRACTS:								
1553	S5721	0.70	2.11	3.68	0.58	1.02	-	-
2271	S5736	1.91	0.59	0.37	1.61	1.09	-	-
2298	S5738*	4.46	0.23	0.10	2.27	-	-	-
2352	S5726	1.25	0.94	0.74	1.27	1.13	-	-
2358	S5743	0.61	1.30	2.94	0.61	1.00	-	-
2360	S5727	1.03	1.43	2.15	0.67	1.26	0.21	0.53
2444	S5729	2.15	0.63	0.37	1.73	1.00	0.77	0.86
2514	S5745*	1.73	0.61	0.36	1.72	-	-	-
2592	S5677#	1.90	0.72	0.41	1.73			
2604	S5678#	1.84	0.72	0.43	1.67			
2623	S5679#	2.03	0.63	0.33	1.88			
2624	S5680#	1.94	0.61	0.33	1.86			
2646.10	S5681#	1.92	0.64	0.35	1.84			
2672	S5682#	2.00	0.59	0.31	1.90			
2690.32	S5759	1.41	0.67	0.38	1.76	1.04	-	-
2712.10	S5760	1.96	0.70	0.36	1.96	1.10	0.70	0.82
2736	S5762	1.90	0.68	0.35	1.95	1.06	1.25	1.15
2914	S5747	6.22	3.39	0.53	6.37	1.80	0.55	0.73
3054	S5749	6.85	6.53	0.89	7.37	1.46	0.39	0.63
3107	S5730	1.72	0.67	0.41	1.72	1.08	0.77	0.86
3210	S5751	6.10	2.47	0.42	5.83	1.50	-	-
3459	S5753	5.47	5.34	0.85	6.28	1.43	0.71	0.83
3495	S5754	3.23	1.38	0.50	2.74	1.33	0.60	0.76
3624	S5755	1.30	0.42	0.44	0.94	1.00	-	-
OILS:								
2602	S5765@	2.80	0.77	0.37	2.08	1.00	0.86	0.92
2612	S5764#	2.62	0.78	0.37	2.10	1.00	1.13	1.08
2695	S5763\$	1.99	0.69	0.35	1.99	1.07	0.97	0.98

\* Gc-data from thermal extraction

# mini-extraction followed by GC of total EOM

\$ DST2      @DST3A      @DST3B

TABLE 6A. WELL 6608/10-2: BIOMARKER PARAMETERS

SAMPLE NR	DEPTH m	<----->		m/z 191			<-----> m/z217 <----->				
		C30 $\alpha$ (a)	22S (b)	C30d (c)	Ts (d)	C32S (e)	C29 $\beta\beta$ (f)	C29S (g)	C27d (h)	27/29 $\alpha\alpha$ (i)	
EXTRACTS:											
S5721	1553	78	29	24	29	29	38	15	0.4	1.4	
S5736	2271	80	51	27	37	50	49	35	0.7	0.8	
S5726	2352	85	44	29	38	48	38	24	0.7	0.9	
S5743	2358	79	29	18	28	26	35	11	0.5	1.2	
S5727	2360	86	41	24	32	37	33	16	0.8	1.0	
S5729	2440	87	53	36	43	53	50	38	1.6	0.8	
S5759	2690	90	59	47	36	58	57	54	1.7	0.5	
S5760	2712	89	57	57	47	58	57	58	2.5	0.8	
S5762	2736	90	59	57	44	60	57	57	2.0	0.7	
S5747	2914	72	59	20	3	58	32	28	0.8	0.2	
S5749	3054	72	55	26	3	54	40	30	0.6	0.3	
S5730	3107	84	59	28	29	59	51	47	2.0	1.0	
S5751	3210	69	57	14	3	58	27	35	0.5	0.2	
S5753	3459	71	57	29	2	57	27	45	0.5	0.2	
S5754	3495	76	59	24	9	59	36	44	1.0	0.3	
S5755	3624	80	59	38	21	62	46	45	0.8	0.4	
OILS:											
S5765	2602	90	60	56	49	61	58	53	2.2	1.0	
S5764	2612	91	60	56	52	58	57	55	2.5	1.2	
S5763	2695	89	60	55	45	60	58	55	1.9	0.8	

- (a)  $100 \times C30\alpha / (C30\alpha + C30\beta)$  hopanes  
(b)  $100 \times ( C31\alpha S / (C31\alpha S + C31\alpha R) + C32\alpha S / (C32\alpha S + C32\alpha R) + C33\alpha S / (C33\alpha S + C33\alpha R) ) / 3$  hopanes  
(c)  $100 \times C30\text{-diahopane} / (C30\text{-diahopane} + C29\beta\text{-hopane})$   
(d)  $100 \times Ts / (Ts + Tm)$   
(e)  $100 \times 22S / (22S + 22R)$  C32 $\alpha$ -hopanes  
(f)  $100 \times \beta\beta / (\beta\beta + \alpha\alpha)$  C29-steranes (20R+20S)  
(g)  $100 \times 20S / (20R + 20S)$  C29 $\alpha\alpha$ -steranes  
(h) C27-diasterane/C27 $\alpha\alpha$ -sterane (20R+20S)  
(i) C27 $\alpha\alpha R$ /C29 $\alpha\alpha R$  steranes



TABLE 6A (contd.) WELL 6608/10-2: BIOMARKER PARAMETERS

SAMPLE NR	DEPTH m	m/z 191				m/z 218			m/z 191 29nor	HOP STER
		28 $\alpha$ (j)	29/30 $\alpha$ (k)	34/35 $\alpha$ (l)	$\delta$ 22S (m)	27 $\beta\beta$ (n)	28 $\beta\beta$ (n)	29 $\beta\beta$ (n)		
EXTRACTS:										
S5721	1553	0.0	0.3	0.5	2.3	33	42	25	0	0.8
S5736	2271	0.1	0.7	1.3	1.7	34	30	37	37	0.7
S5726	2352	0.1	0.5	0.9	2.0	32	31	37	9	1.4
S5743	2358	0.0	0.3	0.6	2.0	28	44	28	0	1.9
S5727	2360	0.0	0.3	0.7	1.8	31	38	31	0	1.6
S5729	2440	0.1	0.6	1.2	1.8	35	31	35	12	1.3
S5759	2690	0.1	0.5	1.4	1.7	27	23	50	13	2.1
S5760	2712	0.1	0.5	1.3	1.3	35	26	39	13	1.2
S5762	2736	0.1	0.5	1.6	1.4	34	29	38	14	1.1
S5747	2914	0.1	0.7	2.3	2.4	21	20	59	8	6.8
S5749	3054	0.1	0.6	2.0	2.6	25	20	54	11	6.9
S5730	3107	0.1	0.8	1.6	1.8	37	29	34	8	1.2
S5751	3210	0.0	1.0	2.2	2.2	22	23	55	4	12.8
S5753	3459	0.1	0.8	2.1	1.5	18	26	56	5	11.1
S5754	3495	0.1	0.8	1.7	1.6	23	27	50	5	4.5
S5755	3624	0.1	0.7	1.3	1.7	28	24	48	9	1.8
OILS:										
S5765	2602	0.1	0.5	1.1	1.7	33	29	38	14	1.6
S5764	2612	0.1	0.6	1.1	1.7	36	29	35	13	1.2
S5763	2695	0.1	0.4	1.6	1.3	33	28	39	15	1.3

(j) C28 $\alpha$ /C30 $\alpha$  hopane(k) C29 $\alpha$ /C30 $\alpha$  hopane(l) C34 $\alpha$ /C35 $\alpha$  hopane (22R+22S)(m) (C31 $\alpha$ S/C32 $\alpha$ S+C32 $\alpha$ S/C33 $\alpha$ S+C33 $\alpha$ S/C34 $\alpha$ S)/3 hopanes(n) 100\* C27 $\beta\beta$ /(C27 $\beta\beta$ +C28 $\beta\beta$ +C29 $\beta\beta$ ) steranes (20R+20S)  
(etc. for C28 og C29)(o) 100\* 25-nor-hopane/(25-nor-hopane + C29 $\alpha$ -hopane)(p) C30 $\alpha$ -hopane/(C27+C28+C29- $\beta\beta$ -steranes)

TABLE 6B. WELL 6608/10-2: BIOMARKER PEAK INTENSITIES

SAMPLE	DEPTH	M/Z 191:	Ts	Tm	28 $\alpha$	29nor	29 $\alpha$	30d	29 $\beta$
NR	m	counts	<----- peak height in mm ----->						
EXTRACTS:									
S5721	1553	114	12	30	3	0	39	10	31
S5736	2271	196	23	40	16	46	79	8	22
S5726	2352	94	18	30	10	7	69	7	17
S5743	2358	2199552	9	23	0	0	35	5	23
S5727	2360	2221056	8	17	4	0	36	5	16
S5729	2440	971776	20	27	13	9	64	8	14
S5759	2690	86	12	21	10	10	67	8	9
S5760	2712	332	24	27	12	10	65	12	9
S5762	2736	1352	22	28	14	10	59	12	9
S5747	2914	3904512	2	76	7	6	73	9	37
S5749	3054	2650112	2	66	13	8	64	11	32
S5730	3107	1197824	17	42	11	7	83	7	18
S5751	3210	2685952	2	77	4	4	107	7	43
S5753	3459	4368384	1	41	11	5	92	11	27
S5754	3495	697600	5	50	7	5	86	7	22
S5755	3624	235	13	48	9	9	95	12	20
OILS:									
S5765	2602	176064	19	20	11	9	55	10	8
S5764	2612	153920	24	22	12	9	58	10	8
S5763	2695	2514	20	24	12	9	51	11	9

TABLE 6B (contd.) WELL 6608/10-2: BIOMARKER PEAK INTENSITIES

SAMPLE	DEPTH	30 $\alpha$	30 $\beta$	31 $\alpha$ S	31 $\alpha$ R	32 $\alpha$ S	32 $\alpha$ R	33 $\alpha$ S	33 $\alpha$ R	34 $\alpha$ S
NR	m	<----- peak height in mm ----->								
EXTRACTS:										
S5721	1553	128	36	19	50	6	15	5	11	2
S5736	2271	117	29	46	57	26	26	17	12	10
S5726	2352	128	22	37	61	19	21	9	10	5
S5743	2358	108	28	21	55	6	17	7	14	4
S5727	2360	106	17	23	41	10	17	11	11	5
S5729	2440	103	15	34	33	17	15	11	9	6
S5759	2690	129	15	41	30	25	18	16	10	9
S5760	2712	125	16	44	33	31	22	21	16	20
S5762	2736	127	14	38	27	25	17	17	12	15
S5747	2914	108	43	68	48	26	19	11	7	5
S5749	3054	108	41	65	47	21	18	9	8	4
S5730	3107	103	20	47	34	26	18	15	10	8
S5751	3210	109	48	75	57	38	27	13	10	8
S5753	3459	109	44	67	56	54	41	28	19	23
S5754	3495	105	34	64	47	44	31	22	15	16
S5755	3624	127	31	55	48	44	27	21	13	13
OILS:										
S5765	2602	101	11	34	23	20	13	12	8	7
S5764	2612	101	10	32	22	18	13	14	8	7
S5763	2695	126	15	44	28	33	22	22	16	19

TABLE 6B (contd.) WELL 6608/10-2: BIOMARKER PEAK INTENSITIES

SAMPLE NR	DEPTH m	34 $\alpha$ R < height in mm >	35 $\alpha$ S < height in mm >	35 $\alpha$ R < height in mm >	M/Z 217: counts	27dS <-- peak height in mm ->	27dR <-- peak height in mm ->	27 $\alpha$ $\alpha$ S <-- peak height in mm ->	27 $\alpha$ $\alpha$ R <-- peak height in mm ->
EXTRACTS:									
S5721	1553	4	4	9	140	37	36	54	128
S5736	2271	7	8	5	75	49	37	57	71
S5726	2352	5	5	6	27	70	50	50	111
S5743	2358	7	6	14	1038080	42	37	47	105
S5727	2360	7	6	12	769792	68	55	46	101
S5729	2440	5	5	4	208192	95	66	45	56
S5759	2690	5	6	4	10	60	40	29	30
S5760	2712	13	15	10	98	103	70	40	28
S5762	2736	10	10	6	394	82	55	38	29
S5747	2914	4	2	2	428544	18	8	16	17
S5749	3054	4	2	2	279936	15	8	19	18
S5730	3107	6	5	4	323072	96	66	41	42
S5751	3210	5	3	3	193024	10	7	18	16
S5753	3459	16	10	9	326848	9	6	17	16
S5754	3495	11	9	7	76048	34	23	28	31
S5755	3624	8	10	6	42	37	28	42	35
OILS:									
S5765	2602	4	5	5	41088	93	62	37	32
S5764	2612	4	6	4	50624	93	70	35	29
S5763	2695	12	12	7	619	81	54	41	31

TABLE 6B (contd.) WELL 6608/10-2: BIOMARKER PEAK INTENSITIES

SAMPLE NR	DEPTH m	$29\alpha\alpha R$ -< peak height in mm ->	$29\beta\beta R$	$29\beta\beta S$	$29\alpha\alpha R$	M/Z 218: counts	$27\beta\beta R$ peak height in mm	$27\beta\beta S$	$28\beta\beta R$
EXTRACTS:									
S5721	1553	16	33	33	93	69	43	46	67
S5736	2271	50	64	74	93	59	105	88	78
S5726	2352	38	41	55	121	14	119	73	96
S5743	2358	11	27	27	90	524288	39	29	58
S5727	2360	20	25	35	102	360832	72	57	86
S5729	2440	41	55	51	66	153600	97	78	75
S5759	2690	71	85	91	60	11	81	48	47
S5760	2712	52	57	60	37	59	124	84	71
S5762	2736	51	60	60	39	255	123	83	73
S5747	2914	40	35	33	105	220480	49	11	35
S5749	3054	29	33	31	67	121280	74	13	46
S5730	3107	39	44	42	44	223872	97	76	67
S5751	3210	57	30	29	105	96464	45	8	32
S5753	3459	82	33	35	101	147456	43	9	45
S5754	3495	74	46	47	93	44800	50	36	51
S5755	3624	78	71	75	95	85	36	18	23
OILS:									
S5765	2602	36	50	43	32	23980	86	68	65
S5764	2612	31	40	35	25	27768	89	74	64
S5763	2695	51	63	64	41	412	117	84	73

TABLE 6B (contd.) WELL 6608/10-2: BIOMARKER PEAK INTENSITIES

SAMPLE NR	DEPTH m	28 $\beta$ $\beta$ S peak height	29 $\beta$ $\beta$ R peak height	29 $\beta$ $\beta$ S peak height
EXTRACTS:				
S5721	1553	44	29	38
S5736	2271	92	100	112
S5726	2352	92	101	119
S5743	2358	46	30	37
S5727	2360	69	62	65
S5729	2440	78	87	86
S5759	2690	63	117	119
S5760	2712	85	112	120
S5762	2736	100	112	116
S5747	2914	21	84	80
S5749	3054	24	99	87
S5730	3107	69	79	78
S5751	3210	22	68	63
S5753	3459	31	80	83
S5754	3495	47	90	92
S5755	3624	24	47	46
OILS:				
S5765	2602	68	91	83
S5764	2612	67	79	77
S5763	2695	97	119	123

TABLE 7. WELL 6608/10-2: CARBON ISOTOPE RATIOS

DEPTH (mRKB)	SAMPLE NR	$\delta^{13}\text{C}$ (ppm vs PDB)					
		EOM/OIL	SAT	ARO	NSO	ASPH	KEROGEN
EOM/KEROGEN:							
1553	S5721	-27.65	-	-	-	-	-28.32
2271	S5736	-27.04	-	-	-	-24.84	-24.88
2352	S5726	-27.54	-	-	-	-	-25.79
2358	S5743	-29.49	-30.66	-30.92	-29.82	-28.48	-28.34
2360	S5727	-28.12	-28.61	-29.45	-28.93	-27.55	-26.84
2444	S5729	-26.30	-28.02	-26.83	-26.02	-25.18	-25.45
2690.32	S5759	-27.67	-	-	-	-	-
2712.10	S5760	-27.94	-28.33	-27.17	-27.61	-27.93	-
2736	S5762	-27.93	-28.16	-27.10	-27.55	-27.76	-
2914	S5747	-25.30	-28.16	-26.40	-25.49	-24.96	-24.66
3054	S5749	-25.94	-29.15	-26.75	-26.05	-25.27	-24.83
3107	S5730	-26.61	-28.29	-26.83	-26.73	-25.68	-25.45
3210	S5751	-25.20	-28.40	-26.76	-25.40	-24.95	-24.46
3459	S5753	-27.97	-31.57	-28.52	-27.95	-27.72	-27.21
3495	S5754	-25.81	-28.41	-26.27	-25.96	-25.71	-25.34
3624	S5755	-25.72	-	-	-	-25.93	-26.98
OILS:							
2602	S5765@	-26.93	-27.65	-26.26	-28.07	-27.60	-
2612	S5764\$	-26.68	-26.33	-26.45	-28.41	-27.67	-
2695	S5763&	-27.56	-28.24	-27.08	-27.63	-28.36	-

&amp; DST 2

\$ DST 3A

@ DST 3B

TABLE 8. WELL 6608/10-2: VITRINITE REFLECTANCE AND SPORE COLOUR INDEX

DEPTH (mRKB)	SAMPLE NO.	VITRINITE REFLECTANCE (%)	NR OF READINGS	STANDARD DEVIATION	SPORE COLOUR INDEX
902	S5906	0.32	3	0.01	-
1198	S5907	NDP	-	-	-
1420	S5908	0.24	3	0.03	-
1553	S5909	NDP			-
1682	S5910	NDP			-
1800	S5920	NDP			-
1957	S5911	NDP			-
2100	S5921	0.42	3	0.02	-
2262	S5922	0.55	1	-	-
2271	S5736	-	-	-	5.5 (?)
2332	S5912	0.23	2	0.01	-
2352	S5742	-	-	-	6.0-6.5
2358	S5926	0.57	3	0.09	6.0
2444	S5729	0.69	5	0.05	6.5
2615.8	S5923	0.54	8	0.04	-
2724.2	S5924	0.71	10	0.05	-
2914	S5913	0.47	18	0.04	6.5-7.0 (?)
2998	S5914	0.42	8	0.04	-
3054	S5915	0.52	19	0.04	7.0 (?)
3123	S5916	0.57	17	0.04	-
3210	S5751	-	-	-	7.0 (?)
3213	S5917	0.54	20	0.04	-
3351	S5918	0.49	17	0.04	-
3459	S5919	0.58	17	0.05	-

NDP: no determination possible



TABLE 9a. WELL 6608/10-2: HEADSPACE GAS

DEPTH (m)	SAMPLE NR.	C1 <-----	C2 -----	C3 ul gas/kg	iC4 rock	nC4 -----	C5+ ----->	iC4 nC4	WET- NESS
1700	S5770	130885	497	307	125	55	154	2.27	0.8
1750	S5771	25720	146	33	21	7	20	3.00	0.8
1800	S5772	17900	107	15	7	0	20	0.00	0.7
1850	S5773	23609	279	42	28	27	96	1.04	1.6
1900	S5774	39432	908	58	9	0	22	0.00	2.4
1950	S5775	19581	618	150	50	38	58	1.32	4.2
2000	S5776	34641	672	382	133	225	1317	0.59	3.9
2050	S5777	58384	1509	1479	668	1181	5172	0.57	7.7
2100	S5778	51656	2065	2180	875	1644	7844	0.53	11.6
2150	S5779	48672	6369	9821	3967	6878	24519	0.58	35.7
2200	S5780	46686	6774	9955	3744	6420	19963	0.58	36.6
2250	S5781	71247	10557	17253	7308	12762	40662	0.57	40.2
2300	S5782	201591	69693	84722	20950	37084	79225	0.56	51.3
2350	S5783	70199	12444	8223	2199	3903	11820	0.56	27.6
2400	S5784	221953	41423	14928	2051	2795	3232	0.73	21.6
2450	S5785	453006	94900	72917	14014	21763	33879	0.64	31.0
2500	S5786	556254	156085	150879	34256	56197	95689	0.61	41.7
2576	S5787	91025	26331	23458	5104	7899	13004	0.65	40.8
2745	S5788	620	205	175	34	124	430	0.27	46.5
2775	S5789	371	59	49	10	25	198	0.40	27.8
2805	S5790	219	95	71	11	23	80	0.48	47.7
2835	S5791	14831	1794	532	59	70	52	0.84	14.2
2865	S5792	9448	2167	1472	261	335	297	0.78	31.0
2895	S5793	47515	4278	1234	140	159	117	0.88	10.9
2925	S5794	100925	8695	2401	243	255	142	0.95	10.3
2955	S5795	67387	4039	968	97	78	36	1.24	7.1
2985	S5796	150956	9400	2328	224	177	83	1.27	7.4
3020	S5797	35338	2301	786	58	41	26	1.41	8.3
3060	S5798	126631	7152	1887	205	161	123	1.27	6.9
3090	S5799	10314	471	177	21	17	11	1.24	6.2
3210	S5800	55859	3518	1273	120	80	35	1.50	8.2
3240	S5801	36602	2060	760	75	53	29	1.42	7.5
3270	S5802	34785	2114	755	68	55	28	1.24	7.9
3300	S5803	28323	1500	566	53	35	14	1.51	7.1
3330	S5804	17667	5363	4103	458	337	115	1.36	36.7
3360	S5805	26956	1667	718	84	59	26	1.42	8.6
3390	S5806	39149	3849	1741	193	162	98	1.19	13.2
3420	S5807	5964	697	409	54	49	38	1.10	16.9
3450	S5808	7894	809	430	43	45	36	0.96	14.4
3480	S5809	6412	991	580	59	66	52	0.89	20.9
3510	S5810	1670	294	169	16	18	11	0.89	22.9
3540	S5811	3601	532	281	23	25	19	0.92	19.3
3570	S5812	7705	884	333	20	23	14	0.87	14.1
3600	S5813	2380	319	145	12	14	14	0.86	17.1
3630	S5814	1086	162	90	7	9	7	0.78	19.8
3660	S5815	1009	136	80	7	9	9	0.78	18.7
3690	S5816	1725	532	471	44	68	104	0.65	39.3

Wetness =  $\text{Sum}(C2-C4) / \text{Sum}(C1-C4) * 100$

TABLE 9b. WELL 6608/10-2: OCCLUDED GAS

DEPTH (m)	SAMPLE NR.	C1 <-----	C2 -----	C3 ul gas/kg	iC4 rock	nC4 -----	C5+ ----->	iC4 nC4	WET- NESS
1700	S5770	235	76	49	34	35	97	0.97	45.2
1750	S5771	8	0	0	0	0	1	0.00	0.0
1800	S5772	164	24	14	6	0	56	0.00	21.2
1850	S5773	113	29	11	5	0	42	0.00	28.5
1900	S5774	6	0	4	0	0	0	0.00	40.0
1950	S5775	22	9	8	3	5	21	0.60	53.2
2000	S5776	48	17	14	8	23	322	0.35	56.4
2050	S5777	84	22	32	21	66	963	0.32	62.7
2100	S5778	187	25	78	64	202	6523	0.32	66.4
2150	S5779	14	8	0	4	0	477	0.00	46.2
2200	S5780	399	68	285	270	721	17711	0.37	77.1
2250	S5781	19	6	0	3	17	1601	0.18	57.8
2300	S5782	7	3	4	2	6	261	0.33	68.2
2350	S5783	67	112	177	45	115	651	0.39	87.0
2400	S5784	6	1	4	3	0	112	0.00	57.1
2450	S5785	5	0	0	1	0	49	0.00	16.7
2500	S5786	787	868	2905	1510	3576	26292	0.42	91.8
2576	S5787	466	350	1136	530	1399	9779	0.38	88.0
2745	S5788	1007	149	184	39	160	1482	0.24	34.6
2775	S5789	663	50	31	6	25	461	0.24	14.5
2805	S5790	492	35	69	14	60	394	0.23	26.6
2835	S5791	17	14	11	3	7	40	0.43	67.3
2865	S5792	3	2	2	0	0	5	0.00	57.1
2895	S5793	5318	7751	6504	894	1662	1235	0.54	76.0
2925	S5794	8814	10959	8077	1024	1658	974	0.62	71.1
2955	S5795	88134	38988	18114	2184	2157	807	1.01	41.1
2985	S5796	53267	37939	22199	2865	2607	1043	1.10	55.2
3020	S5797	42901	29278	16380	1514	976	304	1.55	52.9
3060	S5798	15822	14944	10112	1351	1446	702	0.93	63.8
3090	S5799	4292	3674	2622	280	338	171	0.83	61.7
3210	S5800	84711	34605	22300	2475	2107	787	1.17	42.1
3240	S5801	17	13	9	1	2	5	0.50	59.5
3270	S5802	52182	21158	15669	1902	1983	900	0.96	43.8
3300	S5803	43	24	19	2	3	5	0.67	52.8
3330	S5804	7	1	2	0	0	0	0.00	30.0
3360	S5805	42101	26234	19617	2485	2390	951	1.04	54.7
3390	S5806	7584	10394	10692	1425	2042	1178	0.70	76.4
3420	S5807	7010	6846	7105	974	1551	1044	0.63	70.2
3450	S5808	12301	11712	11120	1396	1992	1053	0.70	68.1
3480	S5809	8	11	12	1	3	10	0.33	77.1
3510	S5810	278	474	773	112	214	164	0.52	85.0
3540	S5811	25	23	22	4	4	6	1.00	68.0
3570	S5812	3	2	0	0	0	0	0.00	40.0
3630	S5814	617	705	821	81	182	175	0.45	74.4

Wetness =  $\text{Sum}(C2-C4) / \text{Sum}(C1-C4) * 100$

TABLE 9c. WELL 6608/10-2: SUM OF HEADSPACE AND OCCLUDED GAS

DEPTH (m)	SAMPLE NR.	C1 <-----	C2 -----	C3 μl gas/kg	iC4 rock	nC4 -----	C5+ ----->	iC4 nC4	WET- NESS
1700	S5770	131120	573	356	159	90	251	1.8	0.9
1750	S5771	25728	146	33	21	7	20	3.0	0.8
1800	S5772	18065	131	29	14	0	76	0.0	1.0
1850	S5773	23722	309	53	33	27	138	1.2	1.8
1900	S5774	39437	908	62	9	0	22	0.0	2.4
1950	S5775	19604	626	157	53	43	78	1.2	4.3
2000	S5776	34689	688	396	140	249	1639	0.6	4.1
2050	S5777	58468	1530	1511	690	1248	6136	0.6	7.9
2100	S5778	51843	2091	2258	939	1847	14367	0.5	12.1
2150	S5779	48686	6377	9821	3971	6878	24996	0.6	35.7
2200	S5780	47086	6842	10239	4014	7141	37674	0.6	37.5
2250	S5781	71266	10563	17253	7311	12778	42263	0.6	40.2
2300	S5782	201597	69696	84726	20952	37091	79486	0.6	51.3
2350	S5783	70266	12556	8400	2244	4018	12471	0.6	27.9
2400	S5784	221959	41423	14932	2053	2795	3344	0.7	21.6
2450	S5785	453011	94900	72917	14015	21763	33927	0.6	31.0
2500	S5786	557040	156953	153784	35767	59772	121981	0.6	42.2
2576	S5787	91491	26681	24594	5633	9297	22783	0.6	42.0
2745	S5788	1627	354	358	73	284	1912	0.3	39.7
2775	S5789	1034	108	81	17	50	660	0.3	19.8
2805	S5790	711	131	140	24	83	474	0.3	34.7
2835	S5791	14848	1808	543	62	77	92	0.8	14.4
2865	S5792	9451	2169	1474	261	335	302	0.8	31.0
2895	S5793	52833	12028	7738	1034	1821	1352	0.6	30.0
2925	S5794	109738	19654	10478	1268	1913	1116	0.7	23.3
2955	S5795	155521	43027	19082	2282	2235	843	1.0	30.0
2985	S5796	204223	47339	24527	3090	2784	1126	1.1	27.6
3020	S5797	78239	31579	17166	1572	1018	329	1.5	39.6
3060	S5798	142453	22097	11999	1555	1607	825	1.0	20.7
3090	S5799	14606	4145	2799	302	356	182	0.9	34.2
3210	S5800	140569	38123	23572	2595	2187	822	1.2	32.1
3240	S5801	36619	2073	769	76	55	34	1.4	7.5
3270	S5802	86967	23271	16424	1969	2038	928	1.0	33.4
3300	S5803	28366	1525	585	55	38	19	1.5	7.2
3330	S5804	17673	5364	4105	458	337	115	1.4	36.7
3360	S5805	69057	27902	20335	2568	2449	977	1.1	43.5
3390	S5806	46733	14243	12433	1618	2204	1277	0.7	39.5
3420	S5807	12974	7542	7513	1028	1600	1081	0.6	57.7
3450	S5808	20195	12521	11549	1439	2037	1090	0.7	57.7
3480	S5809	6420	1002	592	60	69	62	0.9	21.2
3510	S5810	1948	768	942	127	232	175	0.6	51.5
3540	S5811	3626	556	303	26	29	25	0.9	20.1
3570	S5812	7708	887	333	20	23	14	0.9	14.1
3600	S5813	2380	319	145	12	14	14	0.9	17.1
3630	S5814	1703	867	912	88	190	182	0.5	54.7
3660	S5815	1009	136	80	7	9	9	0.8	18.7
3690	S5816	1725	532	471	44	68	104	0.7	39.3

Wetness =  $\text{Sum}(C2-C4) / \text{Sum}(C1-C4) * 100$