

# DATA REPORT

## GEOLAB NOR AS

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CLIENT:

## Brian Horsefield

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REF(S)  
BH97, 1 to 48

TITLE

GHM of samples  
BH97

AUTHOR(S)

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GEOLAB PROJECT NO.

62362

DATE

09.06.97

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REPORT NO./FILE

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Table 1 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well BH-97

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
1.00	n/a	bulk	4.38	27.51	43.43	24.68	-	0001-0B
2.00	n/a	bulk	6.48	29.52	44.67	19.33	-	0002-0B
3.00	n/a	bulk	7.11	28.95	41.00	22.94	-	0003-0B
4.00	n/a	bulk	16.50	32.63	39.29	11.58	-	0004-0B
5.00	n/a	bulk	6.34	23.63	46.26	23.77	-	0005-0B
6.00	n/a	bulk	5.58	23.78	47.14	23.49	-	0006-0B
7.00	n/a	bulk	5.59	24.12	43.05	27.24	-	0007-0B
8.00	n/a	bulk	5.44	24.04	50.77	19.74	-	0008-0B
9.00	n/a	bulk	3.27	21.90	42.52	32.30	-	0009-0B
10.00	n/a	bulk	7.06	30.47	41.78	20.69	-	0048-0B
11.00	n/a	bulk	2.86	34.29	40.58	22.27	-	0010-0B
12.00	n/a	bulk	7.58	41.14	41.66	9.62	-	0011-0B
13.00	n/a	bulk	4.74	26.90	43.84	24.52	-	0012-0B
14.00	n/a	bulk	5.34	22.64	47.10	24.92	-	0013-0B
15.00	n/a	bulk	3.99	18.88	42.92	34.21	-	0014-0B
16.00	n/a	bulk	6.08	33.50	37.87	22.55	-	0015-0B

Table 1 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well BH-97

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
17.00	n/a	bulk	5.03	33.58	44.09	17.30	-	0016-0B
18.00	n/a	bulk	7.54	27.60	46.45	18.41	-	0017-0B
19.00	n/a	bulk	1.51	21.37	46.75	30.37	-	0018-0B
20.00	n/a	bulk	24.87	33.08	35.27	6.78	-	0019-0B
21.00	n/a	bulk	25.67	32.95	35.40	5.98	-	0020-0B
22.00	n/a	bulk	15.70	26.47	42.93	14.89	-	0021-0B
23.00	n/a	bulk	31.53	33.63	26.31	8.54	-	0022-0B
24.00	n/a	bulk	10.24	34.20	39.37	16.19	-	0023-0B
25.00	n/a	bulk	9.47	21.15	40.75	28.62	-	0024-0B
26.00	n/a	bulk	9.43	22.61	41.60	26.36	-	0025-0B
27.00	n/a	bulk	9.98	24.77	45.23	20.02	-	0026-0B
28.00	n/a	bulk	9.40	28.71	47.36	14.52	-	0027-0B
29.00	n/a	bulk	10.17	27.49	43.08	19.26	-	0028-0B
30.00	n/a	bulk	10.61	24.74	47.37	17.27	-	0029-0B
31.00	n/a	bulk	10.38	23.69	47.13	18.80	-	0030-0B
32.00	n/a	bulk	8.51	26.58	44.09	20.82	-	0031-0B

Table 1 : Pyrolysis GC Data (S2 peak) as Percentage of Total Area for Well BH-97

Depth unit of measure: m

Depth	Typ	Lithology	C1	C2-C5	C6-C14	C15+	S2 from Rock-Eval	Sample
33.00	n/a	bulk	8.46	25.17	43.91	22.47	-	0032-0B
34.00	n/a	bulk	12.84	33.65	44.64	8.88	-	0033-0B
35.00	n/a	bulk	19.43	35.19	35.77	9.60	-	0034-0B
36.00	n/a	bulk	10.18	29.29	40.17	20.36	-	0035-0B
37.00	n/a	bulk	11.46	24.90	37.98	25.66	-	0036-0B
38.00	n/a	bulk	13.84	26.14	40.57	19.45	-	0037-0B
39.00	n/a	bulk	17.15	35.91	40.82	6.12	-	0038-0B
40.00	n/a	bulk	14.56	31.41	47.40	6.63	-	0039-0B
41.00	n/a	bulk	14.46	29.44	41.25	14.86	-	0040-0B
42.00	n/a	bulk	6.67	23.93	50.10	19.30	-	0041-0B
43.00	n/a	bulk	5.95	22.64	52.44	18.96	-	0042-0B
44.00	n/a	bulk	5.97	22.42	50.41	21.20	-	0043-0B
45.00	n/a	bulk	7.18	32.80	50.51	9.51	-	0044-0B
46.00	n/a	bulk	6.13	22.55	49.98	21.34	-	0045-0B
47.00	n/a	bulk	9.43	39.23	30.97	20.37	-	0046-0B
48.00	n/a	bulk	6.06	22.74	52.08	19.12	-	0047-0B

### **Appendix 3: Isotope data report (GeoLab Nor)**

Table 1A: Tabulation of carbon isotope data for BH-97, BH-97A, BH-97C, E35212

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Well	Descript.	Whole oil	Topped oil	Saturated	Aromatic	NSO	Kerogen	Sample
BH-97-21		-	-	-	-	-	-35.58	P30/0060
BH-97-21		-	-	-	-	-	-35.47	P30/0061
BH-97-22		-	-	-	-	-	-32.92	P30/0063
BH-97-22		-	-	-	-	-	-32.84	P30/0062
BH-97-23		-	-	-	-	-	-26.02	P30/0065
BH-97-23		-	-	-	-	-	-25.95	P30/0064
BH-97-35		-	-	-	-	-	-28.26	P30/0066
BH-97-35		-	-	-	-	-	-28.18	P30/0067
BH-97-37		-	-	-	-	-	-38.22	P30/0068
BH-97-37		-	-	-	-	-	-38.10	P30/0069
BH-97-4		-	-	-	-	-	-35.95	P30/0059
BH-97-4		-	-	-	-	-	-35.90	P30/0058
BH-97-A		-	-	-28.20	-28.35	-28.55	-	P30/0071
BH-97-A		-	-	-27.91	-28.33	-28.40	-	P30/0070
BH-97-B	0.7/440C-1	-	-	-28.23	-28.48	-27.94	-	P30/0075
BH-97-B	0.7/440C-1	-	-	-28.14	-28.42	-27.93	-	P30/0074

Table 1A: Tabulation of carbon isotope data on oils for BH-97, BH-97A, BH-97C, E35212

Well	Descript.	Whole oil	Topped oil	Saturated	Aromatic	NSO	Kerogen	Sample
BH-97-B	0.7/450C-1	-	-	-26.08	-26.75	-26.55	-	P30/0081
BH-97-B	0.7/450C-1	-	-	-26.00	-26.82	-26.50	-	P30/0080
BH-97-B-HETS	0.7/440CS1	-	-	-	-	-	-27.97	P30/0086
BH-97-B-HETS	0.7/440CS1	-	-	-	-	-	-27.88	P30/0087
BH-97-B-HETS	0.7/450CS1	-	-	-	-	-	-28.07	P30/0089
BH-97-B-HETS	0.7/450CS1	-	-	-	-	-	-27.90	P30/0088
BH-97-C		-	-	-29.80	-27.78	-	-	P30/0072
BH-97-C		-	-	-29.61	-27.78	-	-	P30/0073
E35212		-	-	-29.39	-28.38	-28.78	-	P30/0090
E35212		-	-	-29.43	-28.59	-28.77	-	P30/0091
E35212	0.7/440C-1	-	-	-26.35	-26.71	-26.40	-	P30/0093
E35212	0.7/440C-1	-	-	-26.34	-26.64	-26.36	-	P30/0092
E35212	0.7/450C-1	-	-	-27.30	-28.12	-27.53	-	P30/0098
E35212	0.7/450C-1	-	-	-27.27	-28.11	-27.55	-	P30/0099
E35212-HETS	0.7/440CS1	-	-	-	-	-	-28.40	P30/0104
E35212-HETS	0.7/440CS1	-	-	-	-	-	-28.40	P30/0105

Table 1B: Tabulation of cv values from carbon isotope data for BH-97, BH-97A, BH-97C, E35212

<u>Well</u>	<u>Descript.</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
BH-97-21		-	-	-	P30/0060
BH-97-21		-	-	-	P30/0061
BH-97-22		-	-	-	P30/0062
BH-97-22		-	-	-	P30/0063
BH-97-23		-	-	-	P30/0064
BH-97-23		-	-	-	P30/0065
BH-97-35		-	-	-	P30/0066
BH-97-35		-	-	-	P30/0067
BH-97-37		-	-	-	P30/0068
BH-97-37		-	-	-	P30/0069
BH-97-4		-	-	-	P30/0058
BH-97-4		-	-	-	P30/0059
BH-97-A		-28.20	-28.35	-3.24	P30/0071
BH-97-A		-27.91	-28.33	-3.93	P30/0070
BH-97-B	0.7/440C-1	-28.23	-28.48	-3.45	P30/0075
BH-97-B	0.7/440C-1	-28.14	-28.42	-3.55	P30/0074



Table 1B: Tabulation of cv values from carbon isotope data for BH-97, BH-97A, BH-97C, E35212

<u>Well</u>	<u>Descript.</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
BH-97-B	0.7/450C-1	-26.00	-26.82	-5.41	P30/0080
BH-97-B	0.7/450C-1	-26.08	-26.75	-5.05	P30/0081
BH-97-B-HETS	0.7/440CS1	-	-	-	P30/0086
BH-97-B-HETS	0.7/440CS1	-	-	-	P30/0087
BH-97-B-HETS	0.7/450CS1	-	-	-	P30/0088
BH-97-B-HETS	0.7/450CS1	-	-	-	P30/0089
BH-97-C		-29.80	-27.78	2.07	P30/0072
BH-97-C		-29.61	-27.78	1.59	P30/0073
E35212		-29.43	-28.59	-0.66	P30/0091
E35212		-29.39	-28.38	-0.30	P30/0090
E35212	0.7/440C-1	-26.35	-26.71	-4.28	P30/0093
E35212	0.7/440C-1	-26.34	-26.64	-4.15	P30/0092
E35212	0.7/450C-1	-27.30	-28.12	-5.01	P30/0098
E35212	0.7/450C-1	-27.27	-28.11	-5.06	P30/0099
E35212-HETS	0.7/440CS1	-	-	-	P30/0104
E35212-HETS	0.7/440CS1	-	-	-	P30/0105

## **Appendix 6: Compilation of light isotopic compositions**

Detailed Data summarised by Well

NOR:6506/12-3										
End Depth mRKB(log)	End Depth m (IRKB)	Type	EOM	Sat	Aro ( $\delta^{13}C\text{‰}$ , PDB)	Pol	Asph	Ker	Name	Lithology
2630.00	2630.00	CUT	-28.7	-29.1	-28.0					
2870.00	2870.00	CUT	-28.3	-28.9	-27.9					MDST
3020.00	3020.00	CUT	-27.7	-27.7	-27.5					MDST
3170.00	3170.00	CUT	-27.5	-28.8	-26.9					MDST
3173.00	3173.00	OIL		-29.5	-28.1	-28.5	-29.0		DST6	
3173.00	3173.00	OIL		-29.5	-28.1	-28.5	-29.0			DST6
3290.00	3290.00	CUT	-27.9	0.0	0.0					MDST
3714.00	3714.00	SWC	-31.0	-31.6	-30.9					MDST
3716.00	3716.00	SWC	-31.0	-31.6	-30.7					MDST
3726.00	3726.00	SWC	-27.5	-27.9	-27.2					MDST
3750.00	3750.00	CUT	-26.5	0.0	0.0					MDST
3810.00	3810.00	CUT	-25.2	-27.4	-25.0					MDST
3830.00	3830.00	CUT	-28.4	-28.2	-27.4					SST
3860.00	3860.00	CUT	-28.1	-28.1	0.0					
3869.60	3869.60	COCH		-29.6	-28.7					BULK SAMPLE
3869.60	3869.60	COCH		-29.6	-28.7					BULK SAMPLE
3890.00	3890.00	CUT	-28.0	-28.2	-28.2					SST
3890.00	3890.00	OIL		-29.5	-27.7	-28.5	-28.9		DST4	
3890.00	3890.00	OIL		-29.5	-27.7	-28.5	-28.9			DST4
3921.99	3921.99	COCH	-26.7	-30.7	-27.4					BULK SAMPLE
3956.45	3956.45	COCH		-29.7	-29.1					BULK FRACTION
3980.00	3980.00	COND	-29.1	-29.6	-28.5	-28.4	-28.2			DST5
4000.00	4000.00	CUT	-28.0	-28.2	-27.3					SST
4070.00	4070.00	CUT	-27.8	-27.8	0.0					SST
4116.00	4116.00	COCH	-28.3	-29.1	-27.5					BULK SAMPLE
4120.00	4120.00	CUT	-27.7	-27.8	0.0					
4129.00	4129.00	COCH	-27.9	-28.5	-27.1					BULK SAMPLE

*Bo no.5*

**Detailed Data summarised by Well**

<b>NOR:6507/11-3</b>										
End Depth mRKB(log)	End Depth m (IRKB)	Type	EOM	Sat	Aro	Pol ( $\delta^{13}C\%$ PDB)	Asph	Ker	Name	Lithology
2362.50	2362.50	CUT		-31.2	-30.6					CLST
2419.70	2419.70	COND		-28.3	-25.9					DST3
2419.70	2419.70	COND		-28.3	-25.9					DST3
2508.70	2508.70	COND		-28.3	-25.9					DST2
2508.70	2508.70	COND		-28.3	-25.9					DST2
2520.50	2520.50	OIL		-27.9	-27.4	-26.4	-27.5		DST1	
2520.50	2520.50	OIL		-28.2	-26.2	-26.5	-27.6		DST1	
2520.50	2520.50	OIL		-27.9	-27.4	-26.4	-27.5			DST1
2520.50	2520.50	OIL		-28.2	-26.2	-26.5	-27.6			DST1
2522.00	2522.00	COCH		-28.5	-26.5					SST
2523.00	2523.00	COCH		-28.5	-26.5					BULK SAMPLE
2525.15	2525.15	COCH		-28.2	-26.9					SST
2526.15	2526.15	COCH		-28.2	-26.9					SST
<b>Avg(NOR:6507/11-3):</b>				<b>-28.46</b>	<b>-26.78</b>	<b>-26.44</b>	<b>-28</b>			
<b>Standard Deviations:</b>				<b>0.84</b>	<b>1.27</b>	<b>0.08</b>	<b>0</b>			<b>n: 13</b>

*No Ro data*

>>> End of NOR:6507/11-3 <<<

Detailed Data summarised by Well

NOR:6507/6-1										
End Depth mRKB(log)	End Depth m (IRKB)	Type	EOM	Sat	Aro ( $\delta^{13}C\%$ PDB)	Pol	Asph	Ker	Name	Lithology
1037.25	1037.25	COCH	-27.9		-28.1	-29.3	-27.9			BULK SAMPLE
1047.75	1047.75	COCH	-32.8		-30.5	-34.2	-31.5			BULK SAMPLE
1048.85	1048.85	COCH	-31.5		-30.5	-32.2	-30.8			BULK SAMPLE
1049.05	1049.05	COCH	-31.2		-30.1	-32.2	-30.5			BULK SAMPLE
1055.25	1055.25	COCH	-31.2		-30.3	-32.3	-30.5			BULK SAMPLE
Avg(NOR:6507/6-1):			-30.92		-29.89	-32.04	-30			
Standard Deviations:			1.80		1.02	1.75	1			n: 5
>>> End of NOR:6507/6-1 <<<										

Row 3

Detailed Data summarised by Well

NOR:6507/8-4										
End Depth mRKB(log)	End Depth m (IRKB)	Type	EOM	Sat	Aro ( $\delta^{13}C\text{‰}$ PDB)	Pol	Asph	Ker	Name	Lithology
2135.00	2135.00	OIL	-27.9	-29.1	-27.2	-34.4	-30.9		DST4	BULK SAMPLE
2140.00	2140.00	COCH		-29.5	-28.0					BULK SAMPLE
2140.00	2140.00	COCH		-29.5	-28.0					SST
2140.50	2140.50	COCH		-29.6	-28.6					BULK SAMPLE
2160.06	2160.06	COCH		-29.1	-27.9					BULK SAMPLE
2167.50	2167.50	COCH		-29.5	-29.0					BULK SAMPLE
2167.50	2167.50	COCH		-29.5	-29.0					SST
2168.00	2168.00	OIL		-29.0	-28.1	-29.4	-29.3			DST3
2168.00	2168.00	OIL	-28.7	-29.0	-28.1	-29.4	-29.3		DST3	BULK SAMPLE
2181.02	2181.02	COCH		-31.7	-26.6					BULK SAMPLE
2207.97	2207.97	COCH		-29.7	-27.6					BULK SAMPLE
2208.00	2208.00	OIL	-28.7	-29.3	-28.2	-29.2	-29.4		DST2	BULK SAMPLE
2208.50	2208.50	OIL		-29.3	-28.2	-29.2	-29.4		DST2	
2208.50	2208.50	OIL		-29.3	-28.2	-29.2	-29.4			DST2
2208.90	2208.90	COCH		-29.5	-28.6					SST
2216.50	2216.50	COCH		-30.2	-27.4					BULK SAMPLE
2219.93	2219.93	COCH		-29.1	-28.0					BULK SAMPLE
2219.93	2219.93	COCH		-29.2	-28.0					SST
2244.62	2244.62	COCH		-31.5	-27.8					COAL
2244.62	2244.62	COCH		-31.5	-27.8					BULK SAMPLE
2255.55	2255.55	COCH		-30.0	-28.2					SST
2255.55	2255.55	COCH		-30.0	-28.2					BULK SAMPLE
Avg(NOR:6507/8-4):			-28.41	-29.73	-28.04	-30.13	-30			
Standard Deviations:			0.49	0.81	0.54	2.11	1			n: 22

49° API

>>> End of NOR:6507/8-4 <<<

Detailed Data summarised by Well

NOR:6407/10-3										
End Depth mRKB(log)	End Depth m (IRKB)	Type	EOM	Sat	Aro ( $\delta^{13}C\text{‰}$ , PDB)	Pol	Asph	Ker	Name	Lithology
1805.00	1805.00	CUT		-27.7	-27.6	-30.2	-29.1			SH/CLST
1805.00	1805.00	SWC		-27.7	-27.6	-30.2	-29.1			SH/CLST
1805.00	1805.00	SWC		-28.9	-26.4	-29.5	-28.7			SH/CLST
1805.00	1805.00	SWC		-27.7	-27.6	-30.2	-29.1			EX
1805.00	1805.00	SWC		-28.9	-26.4	-29.5	-28.7			EX
1807.00	1807.00	SWC		-29.2	-31.2	-30.9	-29.1			SH/CLST
1807.00	1807.00	SWC		-29.2	-31.2	-30.9	-29.1			EXT
1809.00	1809.00	SWC		-29.3	-31.1	-30.7	-29.3			SH/CLST
1809.00	1809.00	SWC		-29.3	-31.1	-30.7	-29.3			EXT
1811.00	1811.00	SWC		-29.2	-29.8	-30.8	-29.0			SH/CLST
1811.00	1811.00	SWC		-29.2	-29.8	-30.8	-29.0			EXT
1813.00	1813.00	SWC		-28.9	-31.2	-30.7	-29.1			SH/CLST
1813.00	1813.00	SWC		-28.9	-31.2	-30.7	-29.1			EXT
1815.00	1815.00	SWC		-30.1	-31.5	-31.1	-29.0			SH/CLST
1815.00	1815.00	SWC		-30.1	-31.5	-31.1	-29.0			EXT
1817.00	1817.00	SWC		-29.3	-31.1	-31.0	-29.1			SH/CLST
1819.00	1819.00	SWC		-29.1	-30.8	-30.7	-28.9			SH/CLST
1819.00	1819.00	SWC		-29.1	-30.8	-30.7	-28.9			EXT
1821.00	1821.00	SWC		-29.0	-31.4	-31.1	-29.1			SH/CLST
1821.00	1821.00	SWC		-29.0	-31.4	-31.1	-29.1			EXT
1827.00	1827.00	SWC		-29.5	-28.7	-29.0	-28.1			SH/CLST
1829.00	1829.00	SWC		-29.0	-28.2	-30.6	-29.5			SH/CLST
1831.00	1831.00	SWC		-28.0	-27.6	-30.4	-30.2			SH/CLST
1832.80	1832.80	COCH		-28.2	-27.8	-28.3	-28.0			S/SST
1833.00	1833.00	SWC		-28.6	-27.7	-28.6	-28.8			S/SST

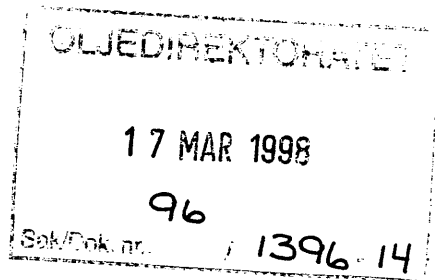
No  
P data

Detailed Data summarised by Well

			<b>NOR:6407/1-3</b>							
<b>End Depth mRKB(log)</b>	<b>End Depth m (IRKB)</b>	<b>Type</b>	<b>EOM</b>	<b>Sat</b>	<b>Aro</b>	<b>Poi</b>	<b>Asph</b>	<b>Ker</b>	<b>Name</b>	<b>Lithology</b>
3535.00	3535.00	CUT		-31.5	-30.1					CLST
3689.75	3689.75	COCH		-30.5	-29.3					SST
3700.65	3700.65	COCH		-30.7	-29.1					SST
<b>Avg(NOR:6407/1-3):</b>				<b>-30.90</b>	<b>-29.50</b>					
<b>Standard Deviations:</b>				<b>0.53</b>	<b>0.53</b>					n: 3
>>> End of NOR:6407/1-3 <<<										
<b>Averages all wells/sample sites:</b>			<b>-27.47</b>	<b>-28.39</b>	<b>-26.95</b>	<b>-27.23</b>	<b>-27</b>	<b>-26</b>		n: 445

↖  
R020.6

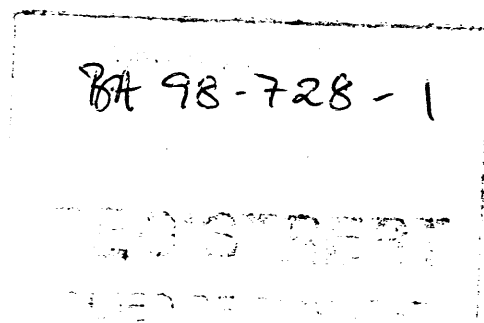




**On the occurrence and  
composition of reservoir bitumen  
in well 6406/2-3T3**

**Main Report**

Brian Horsfield



Beulardsteiner Feld 9, 52072 Aachen, Germany

October 1997

Depth (m)	Sample
4633.2	BH97-1
4635.2	BH97-2
4637.2	BH97-3
4642.3	BH97-4
4643.7	BH97-5
4645.5	BH97-6
4647.5	BH97-7
4649.5	BH97-8
4661.5	BH97-9
4665.5	BH97-10
4675.4	BH97-11
4681.5	BH97-12
4683.1	BH97-13
4685.6	BH97-14
4687.7	BH97-15
4695.5	BH97-16
4699.4	BH97-17
4701.1	BH97-18
4702.3	BH97-19
4711.5	BH97-20
4726.5	BH97-21
4754.1	BH97-22
4755.2	BH97-23
4759.7	BH97-24
4761.5	BH97-25
4765.7	BH97-26
4767.5	BH97-27
4770.7	BH97-28
4772.1	BH97-29
4774.5	BH97-30
4776.3	BH97-31
4779.6	BH97-32
4779.7	BH97-33
4780.4	BH97-34
4784.7	BH97-35
4786.7	BH97-36
4787.4	BH97-37
4793.6	BH97-38
4799.4	BH97-39
4801.5	BH97-40
4803.6	BH97-41
4805.4	BH97-42
4899.5	BH97-43
4902.5	BH97-44
4906.5	BH97-45
4908.5	BH97-46
4911.5	BH97-47
4925.1	BH97-48



DST-2



DST-1

Tab 1

Sample	Depth	TOC	S1	S2	S3	T max	PI	HI	OI
BH97-01	4633.17	0.55	25.47	0.44	0.36	427	0.98	80	65
BH97-02	4635.15	0.36	15.78	0.17	0.14	430	0.99	47	39
BH97-03	4637.21	0.46	18.23	0.01	0.27	429	1.00	2	59
BH97-04	4642.25	1.10	17.73	0.30	0.27	456	0.98	27	25
BH97-05	4643.70	0.33	14.92	0.07	0.15	429	1.00	21	45
BH97-06	4645.50	0.31	15.48	0.02	0.14	427	1.00	6	45
BH97-07	4647.51	0.27	13.50	0.00	0.05		1.00	0	19
BH97-08	4649.45	0.25	9.42	0.00	0.04		1.00	0	16
BH97-09	4661.48	0.44	23.91	0.06	0.29	432	1.00	14	66
BH97-10	4665.54	0.42	17.20	0.01	0.23	430	1.00	2	55
BH97-11	4675.43	0.30	11.82	0.00	0.11		1.00	0	37
BH97-12	4681.54	0.29	11.92	0.07	0.08		0.99	24	28
BH97-13	4683.10	0.33	17.20	0.00	0.09		1.00	0	27
BH97-14	4685.58	0.26	9.11	0.00	0.07		1.00	0	27
BH97-15	4687.72	0.26	11.40	0.13	0.14	427	0.99	50	54
BH97-16	4695.45	0.24	11.68	0.05	0.10	429	1.00	21	42
BH97-17	4699.40	0.25	13.32	0.21	0.12	422	0.98	84	48
BH97-18	4701.10	0.29	13.74	0.01	0.05	427	1.00	3	17
BH97-19	4702.25	0.48	18.99	0.90	0.39	423	0.95	188	81
BH97-20	4711.54	0.64	3.30	0.52	0.06	456	0.86	81	9
BH97-21	4726.50	1.03	3.74	0.72	0.08	461	0.84	70	8
BH97-22	4754.10	0.97	19.16	0.20	0.41	432	0.99	21	42
BH97-23	4755.20	12.40	18.25	15.19	0.54	470	0.00	123	4
BH97-24	4759.65	0.39	10.13	0.02	0.29	422	1.00	5	74
BH97-25	4761.53	0.41	14.16	0.02	0.27	429	1.00	5	66
BH97-26	4765.70	0.42	13.98	0.07	0.22	430	1.00	17	52
BH97-27	4767.50	0.31	9.99	0.00	0.08		1.00	0	26
BH97-28	4770.65	0.43	13.90	0.06	0.18	430	1.00	14	42
BH97-29	4772.14	0.56	16.43	0.02	0.20	421	1.00	4	36
BH97-30	4774.48	0.29	7.27	0.03	0.08	423	1.00	10	28
BH97-31	4776.30	0.32	10.25	0.00	0.09		1.00	0	28
BH97-32	4779.60	0.54	13.06	0.27	0.26	432	0.98	50	48
BH97-33	4779.70	0.46	14.98	0.11	0.18	421	0.99	24	39
BH97-34	4780.40	0.51	10.13	0.06	0.33	411	0.99	12	65
BH97-35	4784.65	3.22	23.96	0.33	0.32	467	0.99	10	10
BH97-36	4786.65	0.55	19.01	0.00	0.14		1.00	0	25
BH97-37	4787.40	1.06	34.12	0.00	0.36		1.00	0	34
BH97-38	4793.55	0.61	13.98	0.12	0.17	438	0.99	20	28
BH97-39	4799.38	0.32	6.62	0.08	0.08	452	0.99	25	25
BH97-40	4801.47	0.42	13.62	0.00	0.11		1.00	0	26
BH97-41	4803.55	0.74	17.44	0.08	0.17	431	1.00	11	23
BH97-42	4805.40	0.20	9.24	0.01	0.05	420	1.00	5	25
BH97-43	4899.50	0.19	9.73	0.03	0.04	495	1.00	16	21
BH97-44	4902.50	0.24	14.06	0.00	0.05		1.00	0	21
BH97-45	4906.50	0.22	14.25	0.03	0.08	423	1.00	14	36
BH97-46	4908.48	0.18	10.34	0.01	0.07	420	1.00	6	39
BH97-47	4911.45	0.16	7.14	0.04	0.06	435	0.99	25	38
BH97-48	4925.10	0.29	16.50	0.03	0.05	417	1.00	10	17

Table 2a

Sample	Depth	TOC	S1	S2	S3	T max	PI	HI	OI
BH97-49	3967.5	0.28	2.73	0.46	0.07	414	0.86	164	25
BH97-50	3971.6	0.24	1.76	0.39	0.06	420	0.83	163	25
BH97-51	3972.5	0.26	2.50	0.53	0.06	419	0.83	204	23
BH97-52	3976.5	0.65	1.08	1.29	0.03	447	0.46	198	5

Table 2b

Sample	Depth	TOC	TS	S1	S2	S3	T max	PI	HI	OI
BH97-04	4642.25	6.82	0.44	1.61	23.15	0.00	526	0.07	339	0
BH97-21	4726.50	19.90	16.00	3.89	66.27	0.05	520	0.06	333	0
BH97-22	4754.10	27.60	2.37	8.97	57.04	0.99	509	0.14	207	4
BH97-23	4755.20	62.90	10.40	14.71	67.34	2.13	502	0.18	107	3
BH97-35	4784.65	13.70	14.60	3.62	14.09	0.38	526	0.20	103	3
BH97-37	4787.40	1.68	1.09	0.16	10.83	0.05	526	0.01	645	3

Table 3

<i>Well</i>	<i>Sample</i>	<i>Depth (m)</i>	<i>del. <sup>13</sup> C</i>
6406/2-3T3	BH-97-4	4642.25	-35.95
	BH-97-4		-35.90
	BH-97-21	4726.5	-35.58
	BH-97-21		-35.47
	BH-97-22	4754.1	-32.92
	BH-97-22		-32.84
	BH-97-23	4755.2	-26.02
	BH-97-23		-25.95
	BH-97-35	4784.65	-28.26
	BH-97-35		-28.18
	BH-97-37	4787.4	-38.22
	BH-97-37		-38.10

Tab.4a

<i>Well</i>	<i>Sample</i>	<i>Depth (m)</i>	<i>del. <sup>13</sup> C</i>
6406/2-3T3	BH-97-4	4642.25	-34.62
	BH-97-4		-34.79
	BH-97-4		-33.83
	BH-97-4		-35.92
	BH-97-21	4726.5	-36.56
	BH-97-21		-36.82
	BH-97-21		-35.45
	BH-97-21		-35.53
	BH-97-22	4754.1	-32.01
	BH-97-22		-31.76
	BH-97-22		-30.82
	BH-97-22		-31.62
	BH-97-23	4755.2	-26.01
	BH-97-23		-26.01
	BH-97-23		-26.00
	BH-97-23		-26.03
	BH-97-35	4784.65	-28.44
	BH-97-35		-28.40
	BH-97-35		-28.41
	BH-97-35		-28.35
	BH-97-37	4787.4	-45.86
	BH-97-37		-45.64
	BH-97-37		-46.55
	BH-97-37		-45.80

Tab. 4b

## Occurrences of light del <sup>13</sup> C

Well	Type	Approx. Ro	Depth (m)
6610/3-1	SWC	0.35	1554
6506/12-3	SWC	0.5	3714;16
6506/12-5	CUT	0.6	3790
6507/11-3	CUT	?	2362
6507/2-3	CUT	0.9	3870
6507/6-1	COCH	0.3	1037-55
6507/7-10	SWC	0.45	2052
6507/8-4	OIL (DST4)	49 API	2135
6407/1-2	OIL (DST1)	-	3669
6407/10-3	SWC	?	1807-21
6407/8-2	CUT	0.35	1716
6407/1-3	CUT	0.6	3535
6407/1-3	COCH	0.6	3700

Tab. 5

<i>Well</i>	<i>Sample</i>	<i>Description</i>	<i>sats</i>	<i>aros</i>	<i>hets</i>	<i>insoluble bitumen</i>
6406/3-2 DST-2 Whole Oil	BH-97-A	original	-28.20	-28.35	-28.55	-
	BH-97-A	original	-27.91	-28.33	-28.40	-
	BH-97-B	0.7/440C-1	-28.23	-28.48	-27.94	-
	BH-97-B	0.7/440C-1	-28.14	-28.42	-27.93	-
	BH-97-B	0.7/450C-1	-26.08	-26.75	-26.55	-
	BH-97-B	0.7/450C-1	-26.00	-26.82	-26.50	-
6406/3-2 DST-2 Heteros	BH-97-B-Hets	0.7/440CS1	-	-	-	-27.97
	BH-97-B-Hets	0.7/440CS1	-	-	-	-27.88
	BH-97-B-Hets	0.7/440CS1	-	-	-	-28.07
	BH-97-B-Hets	0.7/440CS1	-	-	-	-27.90
6406/2-3 T3 DST-2 Whole Oil	BH-97-C	original	-29.80	-27.78	-	-
	BH-97-C	original	-29.61	-27.78	-	-
6507/7-3 DST-2 Whole Oil	E35212	original	29.39	-28.38	-28.78	-
	E35212	original	29.43	-28.59	-28.77	-
	E35212	0.7/440C-1	-26.35	-26.71	-26.40	-
	E35212	0.7/440C-1	-26.34	-26.64	-26.36	-
	E35212	0.7/450-C1	-27.30	-28.12	-27.53	-
	E35212	0.7/450-C1	-27.27	-28.11	-27.55	-
6507/7-3 DST-2 Heteros	E35212-Hets	0.7/440CS1	-	-	-	-28.40
	E35212-Hets	0.7/440CS1	-	-	-	-28.40

Tab. 6