



4.1.2. FLUID SAMPLES

4.1.2.1. MDT FLUID SAMPLES

Fluid samples were taken with MDT logging tool both in the 12 1/4" and 8 1/2" hole sections.

MDT samples were sent to Oilphase Petroleum Laboratory for flash composition of hydrocarbon samples and chemical composition of water samples. Details are to found in their report. MDT samples proved to be variably contaminated by oil based mud filtrate invasion and quality PVT fluid samples were subsequently collected during DST tests.

Table 4-3 summarises MDT samples and analysis.



Table 4-3 MDT Samples and Analysis Summary

Depth m MD		Chamber No	Size	Shut in degC	Shut in psi	Cleanup time mins	Fill Time mins	Cleanup indic on analyzer	Sample indic from analyzer	Mud Contamin	Grav of flashed gas	Api	GOR scf/stb	density flashed oil
2997.5	OIL	MPSR 709	450cc	107.9	2974.5	165	1			mainly water	-	-	-	-
		MPSR 711	450cc				1			-	-	-	-	
2997.7	OIL	MPSR 712	450cc	106.8	2974.7	53				dissolved	0.744	37.4	1241	0.838
		MPSR 753	450cc							solids <5%				
		BB 131	1 gall								0.756	38	938	0.835
3406	GAS	MPSR 711	450cc	120.7	5286.0	80	10	oil filtrate & gas	Oil filtrate & good gas signal	25-30%	0.72	43	25,600	0.81
		MPSR 753	450cc	120.8	5285.7		5		Oil filtrate & good gas signal	empty	-	-	-	-
		MRSC GA48	1 gall	120.8	5286.1		5		Oil filtrate & stronger gas signal		0.717		31,382	0.827
3503	GAS	MPSR 166	450cc	125.2	5321.22	40	7 for both	gas	Gas	30-40%	0.732	45.6	7,635	0.815
		MPSR 85	450cc	125.2	5321.27				Oil filtrate & gas?	15-20%	0.740		19,929	0.799



Depth m MD		Chamber No	Size	Shut in degC	Shut in psi	Cleanup time mins	Fill Time mins	Cleanup indic on analyzer	Sample indic from analyzer	Mud Contamin	Grav of flashed gas	Api	GOR scf/stb	density flashed oil
3577.5	GAS	MPSR 147	450c c	126.7	5354.61	50	20 for both	oil filtrate then gas flag	Oil filtrate and gas flags	mud filtrate	-	-	-	-
		MPSR 36	450c c	126.6	5353.29				Oil filtrate then little gas flag then water? then gas flag	15-20%	0.751	37.6	19,615	0.837
3612	OIL	MRSC BB67	1 gall	128.4	5376.0	30	5	oil	Oil (no condensate flash)	45-55%	0.776	36.8	674	0.841
3642	OIL	MPSR 86	450c c	127.8	5407.1	55	15 for both	oil filtrate	Oil	60-70%	0.756		359	0.832
		MPSR 710	450c c	127.9	5407.3				Oil	?	0.761	38	382	0.834
3700.3	OIL	MPSR 755	450c c	130.1	5473.3	53	1	oil filtrate	Oil	90-98%	0.703	39	133	0.829
		MPSR 756	450c c	130.2	5473.4		5		Oil	90-98%	0.706		133	0.829
3969	WATER	MPSR 144	450c c	137.4	6085.33	66	140 for both	oil filtrate	Water	82600 ppm equiv NaCl	Formation water			
		MPSR 190	450c c	137.5	6085.94				Water	30-40%	0.728		9010	0.807



Kill well: closed in well 06.30hrs 29 April to begin kill well.

8.2. DST FLOW RATES

Table 8-1 SUMMARY OF DST FLOW RATES

	Units	DST 1	DST 2a	Dst 2b	DST 3
Interval		Oil Zone	Gas Zone	combined	Oil Zone
Date		31 Mar-4 Apr 98	11-15 Apr 98	15-17 Apr 98	24-29 Apr 98
Perfs	m MD	3607-3653	3430-3442	3430-3442 & 3494-3514	2993-3001
Guns		TCP 3 3/8" 6spf	Enerjet 2 1/8" 6spf	Enerjet 2 1/8" 6 spf	TCP 7"12 spf
Data from		Main flow	3rd isochronal test	Cleanup flow	Main flow
Choke	ins	40/64	40/64	32/64	36/64
	mm	15.9	15.9	12.7	14.3
FWHP	bar	86.7	191.7	228	183.9
	psi	1257	2780	3305	2667
FWHT	degC	23.4	23.4	20.2	31.7
	degF	74.1	74.0	68.3	89
Gas	m3/d	109,804	741,460	580,560	222,155
	mmscfd	3.88	26.2	20.5	7.85
Oil	m3/d	628	178	148	925
	bopd	3952	1120	930	5820
GOR	m3/m3	175	4164	3926	240
	scf/stb	980	23,400	22,000	1340
Oil Grav	sg	0.857 at 15degc	0.759 at 15degc	0.767 at 15degc	0.829 at 15degc
	api	33.6	55	53	39
Gas Grav	sg	0.7	0.67	0.675	0.67
CO2	%	4 to 5	3	3	2
H2S	ppm	<1	trace	trace	1
BSW	%	0	5 to 10	5 to 10	trace

8.3. DST FLUID ANALYSIS

Many fluid samples were taken during the DST tests and details can be found in the Field Operations Report by Schlumberger-Oilphase.

Flash composition, Constant Mass Expansion, Thompson Indices and H2S content were measured by Schlumberger-Oilphase on two fluid samples from each DST test. Details of analysis and results can be found in their reports of PVT fluid analysis of DST samples.

Anchor / M-I Drilling Fluids													Anchor / M-I Drilling Fluids		
TOTAL MATERIAL COST and CONSUMPTION															
OPERATOR: AMOCO		Well No: 6507/5-1				WORK SHEET.									
Product	Unit size	Unit price NOK	36" sect.	Cost NOK	26" sect.	Cost NOK	12 1/4" sect.	Cost NOK	8 1/2" sect.	Cost NOK	Testing	Cost NOK	Total Consumed	Total cost NOK	
BASE OIL	bbl	795,00					1654	1 314 930,00	1299	1 032 705,00	113	89 835,00	3066	2 437 470,00	
Anco Vert F	ltr	25,40					4000	101 600,00	8500	215 900,00			12500	317 500,00	
Anco Vert M	ltr	48,41					1300	62 933,00	1000	48 410,00			2300	111 343,00	
Anco Vert P	ltr	29,28					8950	262 056,00	9000	263 520,00			17950	525 576,00	
Anco Vert S	ltr	29,50					4500	132 750,00	4700	138 650,00			9200	271 400,00	
Bentonite 38	kg	37,06					8700	322 422,00	1875	69 487,50			10575	391 909,50	
Barite	mt	650,96	116	75 511,36	232	151 022,72	446	290 328,16	217	141 258,32	11	7 160,56	1022	665 281,12	
Bentonite	mt	1934,38	115	222 453,70	121	234 059,98							236	456 513,68	
CaCl2	kg	2,43					9100	22 113,00	11500	27 945,00	1050	2 551,50	21650	52 609,50	
Lime AFOS	kg	1,56					8000	12 480,00	5500	8 580,00			13500	21 060,00	
Lime	kg	1,56													
Versatrol	kg	12,09							4350	52 591,50			4350	52 591,50	
Soda Ash	kg	2,36	900	2 124,00	925	2 183,00			50	118,00	125	295,00	2000	4 720,00	
Mica Fine	kg	3,46							175	605,50			175	605,50	
Mica Coarse	kg	3,46							125	432,50			125	432,50	
Tetra Clean 105	it	38,50					200	7 700,00			800	30 800,00	1000	38 500,00	
Tetra Clean 106	it	26,00					400	10 400,00	400	10 400,00	200	5 200,00	1000	26 000,00	
Renax 100	it	32,19									1600	51 504,00	1600	51 504,00	
Rhodopol 23 P	kg	69,10			275	19 002,50			50	3 455,00	725	50 097,50	1050	72 555,00	
Flowzan	kg	80,16									50	4 008,00	50	4 008,00	
FL7-Plus	kg	38,35									225	8 628,75	225	8 628,75	
CaCo3 Medium	kg	1,63									1100	1 793,00	1100	1 793,00	
CaCo3 fine	kg	1,63									1125	1 833,75	1125	1 833,75	
Anco Superwash	kgs	27,34									2016	55 117,44	2016	55 117,44	
CaCl2 Brine	bbbls	145,40									2150	312 610,00	2150	312 610,00	
CaBr2 Brine	bbbls	1910,00									1 007	1 923 370,00	1007	1 923 370,00	
Amm. Bisulphite	it	19,14									50	957,00			
Ancocide	it	30,74									100	3 074,00			
KD - 40	it	75,17									400	30 068,00			
Anco Vert Received	bbl	398,00					1840	732 320,00	1750	696 500,00			3590	1 428 820,00	
Anco Vert Backload	bbl	-398,00					619	-246 362,00	1975	-786 050,00			2594	-1 032 412,00	
Anco Vert to 8 1/2"	bbl	-398,00					1750	-696 500,00					1750	-696 500,00	
Total cost	NOK			300 089,06		406 268,20		2 329 170,16		1 924 508,32		2 578 903,50		7 538 939,24	
	m			146		569		2171		988				3874	
Cost per metre	NOK			2 055,40		714,00		1 072,86		1 947,88				1 946,03	
Total days				7		8		27		52		36		130	
Cost per day	NOK			42 869,87		50 783,53		86 265,56		37 009,78		71 636,21		57 991,84	
Mud mixed	bbl			890		1 170		2 622		1 771		3 694		10147,24	
Cost per m3	NOK			337,18		347,17		888,32		1 086,68		698,13		742,95	

Daily Mud Properties Report

6507/5-1

Well Name: Donnatello No. 1 (6507/5-1)

Day	Date	Depth (m)	Mud Type	Mwt ppg	Vis	PV	Gels		Ph	WL		FC	YP	PF	MF	CL	CA	Dri Slid ppb	Total Solids	% Oil	MBT	COMMENTS	
							10s	10m		API	HTHP												
4	24 12 97	350	SPUD MUD	13,35	0	50	35	85	0	0	0	0	49	0	0	0	0	0	0	0	0	0	PIT STANDBY KILL MUD
4	24 12 97	350	SPUD MUD	8,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SPUD MUD - FRESH WATER / GEL
5	25 12 97	350	SPUD MUD	8,6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Spud mud for sweeps
5	25 12 97	350	SPUD MUD	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	25 12 97	350	KILL MUD	14	0	50	35	85	0	0	0	0	49	0	0	0	0	0	0	0	0	0	CONTINGENCY RESERVE KILL MUD IN PITS
6	26 12 97	350	SPUD MUD	8,6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Gel Spud Mud for Sweeps
6	26 12 97	350	KILL MUD	14	0	50	35	85	0	0	0	0	49	0	0	0	0	0	0	0	0	0	CONTINGENCY KILL MUD
6	26 12 97	350	SPUD MUD	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10 ppg, High Vis Disp mud
7	27 12 97	442	KILL MUD	14	0	50	35	85	0	0	0	0	49	0	0	0	0	0	0	0	0	0	
7	27 12 97	442	SPUD MUD	8,6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	27 12 97	442	SPUD MUD	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	28 12 97	496	SPUD MUD	8,6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	28 12 97	496	SPUD MUD	10	0	18	42	65	0	0	0	0	40	0	0	0	0	0	0	0	0	0	
8	28 12 97	496	KILL MUD	14	0	50	35	85	0	0	0	0	49	0	0	0	0	0	0	0	0	0	
9	29 12 97	496	SPUD MUD	8,6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CONTINGENCY 13,3 PPG MUD VOL PIT #4 PIT#1 - 380 BBLs 10 0 PPG
10	30 12 97	571	KILL MUD	13,3	70	39	19	32	0	0	0	0	39	0	0	0	0	0	0	0	0	0	CONTINGENCY KILL MUD FOR PILOT HOLE
10	30 12 97	571	SPUD MUD	8,6	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	SPUD MUD FOR SWEEPS
10	30 12 97	571	SPUD MUD	10	62	22	13	25	0	0	0	0	26	0	0	0	0	0	0	0	0	0	DISPLACEMENT MUD FOR PILOT HOLE
11	31 12 97	1053	SPUD MUD	10	62	22	13	25	0	0	0	0	26	0	0	0	0	0	0	0	0	0	10,0 PPG HI VIS DISPLACEMENT MUD
11	31 12 97	1053	KILL MUD	13,3	70	39	19	32	0	0	0	0	30	0	0	0	0	0	0	0	0	0	13,3 PPG CONTINGENCY KILL MUD
11	31 12 97	1053	SPUD MUD	8,6	100	8	54	79	0	0	0	0	70	0	0	0	0	0	0	0	0	0	8,6 PPG HI VIS MUD FOR SWEEPS
12	01 01 98	1065	KILL MUD	13,3	70	39	19	32	0	0	0	0	30	0	0	0	0	0	0	0	0	0	PREHYDRATED BENTONITE 13,3 CONTINGENCY KILL MUD
12	01 01 98	1065	SPUD MUD	11,5	65	13	40	44	0	0	0	0	54	0	0	0	0	0	0	0	0	0	PREHYDRATED BENTONITE 11,5 SPUD MUD FOR DISPLACEMENT
12	01 01 98	1065	SPUD MUD	8,5	120	13	50	70	0	0	0	0	59	0	0	0	0	0	0	0	0	0	PREHYDRATED BENTONITE SPUD MUD
13	02 01 98	1065	KILL MUD	13,3	70	39	19	32	0	0	0	0	30	0	0	0	0	0	0	0	0	0	13,3 CONTINGENCY KILL MUD
13	02 01 98	1065	SPUD MUD	11,5	65	13	40	44	0	0	0	0	54	0	0	0	0	0	0	0	0	0	PRE-HYDRATED BENTONITE DISPLACEMENT MUD 11 5
13	02 01 98	1065	SPUD MUD	8,5	120	13	52	70	0	0	0	0	57	0	0	0	0	0	0	0	0	0	PRE-HYDRATED BENTONITE HI VIS SWEEP MUD 8,5 PPG
14	03 01 98	1065	SPUD MUD	13,1	70	38	19	30	0	0	0	0	30	0	0	0	0	0	0	0	0	0	PRE-HYDRATED BENTONITE KILL MUD - WILL USE AS FINAL DISPLA
14	03 01 98	1065	SPUD MUD	8,5	120	13	52	68	0	0	0	0	57	0	0	0	0	0	0	0	0	0	PRE-HYDRATED BENTONITE SPUD MUD
14	03 01 98	1065	SPUD MUD	11,5	63	13	40	43	0	0	0	0	54	0	0	0	0	0	0	0	0	0	PRE-HYDRATED BENTONITE SPUD MUD
15	04 01 98	1065	SPUD MUD	10	59	28	19	26	0	0	0	0	22	0	0	0	0	0	0	0	0	0	PRE-HYDRATED BENTONITE DISPLACEMENT MUD FOR 26 HOLE
16	05 01 98	1065	SEA WATER	8,6	59	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	SEA WATER IN USE PREPARE TANKS FOR ARRIVAL OF OBM QTE
17	06 01 98	1065	ANCOVERT	12	82	37	11	22	0	0	5,6	0	14	0	0	98	0	0	0	0	0	0	MUD JUST BROUGHT ON BOARD, CONTINUE TO MIX AND CONDITIO
18	07 01 98	1053	ANCOVERT	12	84	37	11	23	0	0	3,8	0	15	0	0	137	0	0	0	75	0	0	
19	08 01 98	1069	ANCOVERT	12	91	35	12	24	0	0	3,6	0	19	0	0	0	0	0	20	60	0	0	Finishing mixing new mud volume
19	08 01 98	1069	ANCOVERT	12	86	35	12	24	0	0	3,6	0	19	0	0	137	0	0	0	75	0	0	
20	09 01 98	1305	ANCOVERT	12	97	35	11	24	0	0	3,7	0	20	0	0	0	0	0	20	60	0	0	
20	09 01 98	1605	ANCOVERT	12	125	38	13	24	0	0	3,8	0	19	0	0	0	0	0	0	60	0	0	
21	10 01 98	2489	ANCOVERT	12	85	33	12	23	0	0	3	0	20	0	0	0	0	0	0	63	0	0	
21	10 01 98	2300	ANCOVERT	12	82	33	13	23	0	0	3,6	0	23	0	0	0	0	0	20	60	0	0	Mixed new premix to face daily volume drilled Treated active system for
21	10 01 98	2622	ANCOVERT	12	82	31	12	23	0	0	0	0	19	0	0	0	0	0	0	0	0	0	
21	10 01 98	2742	ANCOVERT	12	81	30	110	23	0	0	3,4	0	20	0	0	0	0	0	0	62	0	0	
22	11 01 98	2489	ANCOVERT	12	85	33	12	23	0	0	3	0	20	0	0	0	0	0	0	63	0	0	Mixed new premix volume, treat active system for low end rheology, alkalinit

Daily Mud Properties Report

6507/5-1

Well Name: Donnatello No. 1 (6507/5-1)

Day	Date	Depth (m)	Mud Type	Mwt ppg	Vis	PV	Gels			WL			Drt Sld						Total Solids	% Oil	MBT	COMMENTS	
							10s	10m	Ph	API	HTHP	FC	YP	PF	MF	CL	CA	ppb					
22	11 01 98	2742	ANCOVERT	12	81	30	11	23	0	0	3,4	0	20	0	0	0	0	0	0	0	62	0	
23	12 01 98	2740	ANCOVERT	12	78	27	12	23	0	0	3,5	0	28	0	0	0	0	0	0	0	60	0	Treated system for low end rheology, alkalinity, chlorides Cut back mud
23	12 01 98	2875	ANCOVERT	12	73	32	12	25	0	0	0	0	20	0	0	0	0	0	0	0	63,5	0	
23	12 01 98	3052	ANCOVERT	12	73	32	13	25	0	0	3,2	0	19	0	0	0	0	0	0	0	63	0	
24	13 01 98	2996	ANCOVERT	12	71	35	14	28	0	0	3,4	0	20	0	0	0	0	0	0	0	62,5	0	Treated low end rheology by addition of Ancovert M, slowly in the active s
24	13 01 98	3173	ANCOVERT	12	73	32	15	30	0	0	3	0	20	0	0	0	0	0	0	0	63	0	
24	13 01 98	3235	ANCOVERT	12	72	31	15	34	0	0	3,2	0	19	0	0	0	0	0	0	0	63,5	0	
25	14 01 98	3236	ANCOVERT	12	71	35	14	28	0	0	3,4	0	20	0	0	0	0	0	0	0	62,5	0	Weight up active system to 12,20 ppg for gas Took onboard 155 mt of ban
25	14 01 98	3236	ANCOVERT	12	76	32	15	30	0	0	2,8	0	20	0	0	0	0	0	0	0	63	0	
25	14 01 98	3236	ANCOVERT	12,2	67	32	15	31	0	0	3	0	20	0	0	0	0	0	0	0	62	0	
26	15 01 98	3236	ANCOVERT	12,2	0	32	13	29	0	0	3	0	20	0	0	0	0	0	0	0	63	0	No treatment or make up today Received Ancovert chemicals from Far
27	16 01 98	3235	ANCOVERT	12,2	0	31	13	30	0	0	3	0	20	0	0	0	0	0	0	22	63	0	Mud losses incurred during pit cleaning operations, volume accounted for a
28	17 01 98	3235	ANCOVERT	12,3	0	30	13	31	0	0	2,7	0	19	0	0	0	0	0	0	21	64	0	
28	17 01 98	3235	ANCOVERT	12,3	0	32	13	31	0	0	2,6	0	19	0	0	0	0	0	0	21	64	0	used 100 liters of Ancovert M to make oil base Hivisc as a contingency to c
29	18 01 98	3235	ANCOVERT	12,3	0	32	13	31	0	0	2,6	0	20	0	0	0	0	0	0	21	64	0	
29	18 01 98	3235	ANCOVERT	12,3	0	30	15	31	0	0	2,6	0	20	0	0	0	0	0	0	21	64	0	
30	19 01 98	3235	ANCOVERT	12,3	0	31	12	28	0	0	2,6	0	18	0	0	0	0	0	0	21	64	0	
30	19 01 98	3235	ANCOVERT	12,3	0	33	13	29	0	0	2,4	0	18	0	0	0	0	0	0	21	64	0	9 bbls of mud lost to slops pit while flushing line from cement unit
31	20 01 98	3235	ANCOVERT	12,3	0	34	14	35	0	0	2,4	0	19	0	0	0	0	0	0	21	64	0	
31	20 01 98	3235	ANCOVERT	12,3	0	33	15	35	0	0	2	0	22	0	0	0	0	0	0	21	62	0	
31	20 01 98	3235	ANCOVERT	12,3	0	33	15	38	0	0	2,2	0	21	0	0	0	0	0	0	21	62	0	300 kg Bentone 38 used for testing of AFOS system
32	21 01 98	3235	ANCOVERT	12,2	0	37	17	35	0	0	3,4	0	25	0	0	0	0	0	0	20	60	0	The mud properties in Pit#1 and Pit#4 was affected due to water got into s
32	21 01 98	3235	ANCOVERT	12,7	0	75	24	53	0	0	4,2	0	45	0	0	0	0	0	0	19	42	0	
32	21 01 98	3235	ANCOVERT	12,3	0	34	160	35	0	0	3,6	0	21	0	0	0	0	0	0	21	63	0	
33	22 01 98	3235	ANCOVERT	12,3	0	34	16	34	0	0	3	0	22	0	0	0	0	0	0	21	63	0	
33	22 01 98	3235	ANCOVERT	12,3	0	34	16	35	0	0	2,8	0	21	0	0	0	0	0	0	21	63	0	
34	23 01 98	3235	ANCOVERT	12,3	0	34	16	35	0	0	2,8	0	21	0	0	0	0	0	0	21	63	0	
34	23 01 98	3235	ANCOVERT	12,3	0	33	15	34	0	0	2,8	0	19	0	0	0	0	0	0	21	63	0	
35	24 01 98	3235	ANCOVERT	12,3	0	34	15	34	0	0	2,6	0	20	0	0	0	0	0	0	21	63	0	
35	24 01 98	3235	ANCOVERT	12,3	0	34	15	35	0	0	2,6	0	17	0	0	0	0	0	0	21	63	0	
36	25 01 98	3235	ANCOVERT	12,4	155	38	15	34	0	0	2,6	0	21	0	0	0	0	0	0	22	62,5	0	
36	25 01 98	3235	ANCOVERT	12,3	115	34	13	28	0	0	2,8	0	20	0	0	0	0	0	0	23	57	0	
36	25 01 98	3235	ANCOVERT	12,3	85	33	12	28	0	0	2,4	0	16	0	0	0	0	0	0	21,6	59,4	0	(Lost in hole) 25 bbls is a gain in the hole due to 50 m fill of cuttings from 3
37	26 01 98	3235	ANCOVERT	12,3	0	34	12	28	0	0	2,4	0	14	0	0	0	0	0	0	21,4	59,4	0	19 bbls lost to slops pit while flushing choke and kill line
37	26 01 98	3235	ANCOVERT	12,3	0	34	13	30	0	0	2,2	0	16	0	0	0	0	0	0	21	60	0	
38	27 01 98	3236	ANCOVERT	12,3	0	35	13	30	0	0	2,2	0	14	0	0	0	0	0	0	21	60	0	
38	27 01 98	3236	ANCOVERT	12,3	0	34	13	31	0	0	2,2	0	16	0	0	0	0	0	0	21	64	0	
39	28 01 98	3236	ANCOVERT	12,6	85	34	12	31	0	0	2,6	0	18	0	0	0	0	0	0	22	60	0	
39	28 01 98	3236	ANCOVERT	12,6	84	350	13	30	0	0	2,4	0	17	0	0	0	0	0	0	22,3	59,7	0	
40	29 01 98	3236	ANCOVERT	12,6	97	37	13	32	0	0	2,4	0	18	0	0	0	0	0	0	23	59	0	
40	29 01 98	3236	ANCOVERT	13	100	37	13	31	0	0	2,6	0	21	0	0	0	0	0	0	25	58,5	0	
40	29 01 98	3236	ANCOVERT	13	102	37	13	32	0	0	2,4	0	21	0	0	0	0	0	0	25	58,5	0	
41	30 01 98	3236	ANCOVERT	13	0	37	13	32	0	0	2,4	0	21	0	0	0	0	0	0	25	58,5	0	

Daily Mud Properties Report

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Well Name: Donnatello No. 1 (6507/5-1)

Day	Date	Depth (m)	Mud Type	Mwt ppg	Vis	PV	Gels		Ph	WL		FC	YP	PF	MF	CL	CA	Dri Slid ppb	Total Solids	% Oil	MBT	COMMENTS
							10s	10m		API	HTHP											
41	30 01 98	3236	ANCOVERT	13	0	36	13	32	0	0	2,4	0	21	0	0	0	0	0	25	58,5	0	
42	31 01 98	3236	ANCOVERT	13,1	0	38	13	32	0	0	2,4	0	21	0	0	0	0	0	25	58,5	0	
42	31 01 98	3236	ANCOVERT	13,1	0	40	13	32	0	0	2,4	0	21	0	0	0	0	0	25	58,5	0	Total down hole loss while displacing cement was 250 bbls of mud and 65
43	01 02 98	3236	ANCOVERT	13	85	40	13	33	0	0	2,4	0	20	0	0	0	0	0	24,5	59	0	
43	01 02 98	3236	ANCOVERT	12,6	0	35	13	34	0	0	2,4	0	19	0	0	0	0	0	22	61	0	
44	02 02 98	3236	ANCOVERT	13	0	40	13	33	0	0	2,4	0	19	0	0	0	0	0	24,5	59	0	
44	02 02 98	3236	ANCOVERT	12,4	0	34	13	33	0	0	2,4	0	18	0	0	0	0	0	21	62	0	
45	03 02 98	3199	ANCOVERT	12	135	30	16	34	0	0	2,4	0	19	0	0	0	0	0	21	60	0	
45	03 02 98	3241	ANCOVERT	11,7	110	33	16	34	0	0	2,6	0	20	0	0	0	0	19,5	0	61,5	0	
46	04 02 98	3275	ANCOVERT	11,7	128	38	17	37	0	0	2,8	0	23	0	0	0	0	0	20	60	0	
46	04 02 98	3384	ANCOVERT	11,7	110	36	15	31	0	0	2,6	0	23	0	0	0	0	0	19,5	61,5	0	
46	04 02 98	3394	ANCOVERT	11,7	105	36	15	31	0	0	2,6	0	21	0	0	0	0	0	20	61	0	
46	04 02 98	3395	ANCOVERT	11,7	100	37	15	32	0	0	2,6	0	21	0	0	0	0	0	20	61	0	
47	05 02 98	3395	ANCOVERT	11,7	115	37	15	32	0	0	2,6	0	20	0	0	0	0	0	20	61	0	
47	05 02 98	3398	ANCOVERT	11,7	100	36	16	32	0	0	2,4	0	21	0	0	0	0	0	19,3	60,7	0	
47	05 02 98	3398	ANCOVERT	11,7	110	36	15	32	0	0	2,4	0	21	0	0	0	0	0	19,5	60,5	0	
48	06 02 98	3395	ANCOVERT	11,7	110	37	13	33	0	0	2	0	22	0	0	0	0	0	19	61	0	
48	06 02 98	3395	ANCOVERT	11,7	110	36	15	32	0	0	2,4	0	21	0	0	0	0	0	19,5	60,5	0	
49	07 02 98	3449	ANCOVERT	11,7	100	36	13	32	0	0	2	0	22	0	0	0	0	0	19	62	0	0 Maintaining mud weight in active system by diluting No further treatment n
49	07 02 98	3421	ANCOVERT	11,7	120	34	14	34	0	0	1,9	0	24	0	0	0	0	0	19	62	0	
49	07 02 98	3421	ANCOVERT	11,7	110	37	13	32	0	0	0	0	25	0	0	0	0	0	19	62	0	
50	08 02 98	3460	ANCOVERT	11,7	100	37	13	33	0	0	1,9	0	21	0	0	0	0	0	19	62	0	0 Kept mud weight in the active with premix dilution Mixed slug (Barte)
50	08 02 98	3472	ANCOVERT	11,7	100	37	13	33	0	0	1,8	0	21	0	0	0	0	0	19	62	0	
51	09 02 98	3472	ANCOVERT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
51	09 02 98	3472	ANCOVERT	11,7	100	38	14	33	0	0	2	0	19	0	0	0	0	0	19	62	0	0 Increased mud weight in the active system in order to be prepared for a po
51	09 02 98	3472	ANCOVERT	12,1	166	40	16	34	0	0	2,1	0	22	0	0	0	0	0	20,5	60,5	0	
52	10 02 98	3472	ANCOVERT	12,1	170	40	16	35	0	0	2,1	0	22	0	0	0	0	0	20,5	60,5	0	
52	10 02 98	3472	ANCOVERT	12,1	170	41	16	35	0	0	2,1	0	21	0	0	0	0	0	20,5	60,5	0	
53	11 02 98	3472	ANCOVERT	12,1	0	38	15	34	0	0	2,2	0	22	0	0	0	0	0	20	61	0	0 Centrifuged pit#4 down to 12,1ppg -Made spacer in chemical pit- Complet
53	11 02 98	3472	ANCOVERT	11,7	125	38	15	32	0	0	2,1	0	19	0	0	0	0	0	0	61,5	0	
54	12 02 98	3494	ANCOVERT	11,7	140	39	14	36	0	0	2,2	0	23	0	0	0	0	0	19,5	61,5	0	0 Ran centrifuge on returns f/hole until even mud weight in/out Kept slight pr
54	12 02 98	3497	ANCOVERT	11,7	140	40	15	32	0	0	2,2	0	22	0	0	0	0	0	19	61,5	0	
55	13 02 98	3542	ANCOVERT	11,7	0	41	13	28	0	0	1,8	0	22	0	0	0	0	46	19	61	0	0 Continue keep mud weight in the active system, and diluted from premix p
55	13 02 98	3542	ANCOVERT	11,7	0	42	14	30	0	0	1,8	0	20	0	0	0	0	44	19	62	0	
56	14 02 98	3542	ANCOVERT	12,1	0	40	12	27	0	0	2,4	0	21	0	0	0	0	38	20	60	0	
56	14 02 98	3542	ANCOVERT	12,1	0	40	12	27	0	0	2,4	0	21	0	0	0	0	44	20	60	0	0 Added baryte to increase mud weight to 12,1 ppg Mixed spacer for OBM /
57	15 02 98	3542	ANCOVERT	12,1	0	41	12	28	0	0	2	0	21	0	0	0	0	39	20	59	0	
57	15 02 98	3542	ANCOVERT	12,1	0	42	13	28	0	0	2	0	21	0	0	0	0	39	20	59	0	0 No treatment or make up today Note Temperature drop of 6 deg celcius
58	16 02 98	3542	ANCOVERT	12,1	0	42	13	28	0	0	2	0	20	0	0	0	0	39	20	59	0	0 No treatment or make up today
58	16 02 98	3542	ANCOVERT	12,1	0	44	13	28	0	0	2	0	18	0	0	0	0	39	20	0	0	
59	17 02 98	3542	ANCOVERT	12,1	0	42	13	28	0	0	2	0	20	0	0	0	0	0	20	59	0	0 54 bbls recorded as lost to slops pit due to pits no#3 and no #4 over spillin
59	17 02 98	3542	ANCOVERT	12,1	0	42	14	30	0	0	2	0	22	0	0	0	0	0	20	59	0	
60	18 02 98	3553	ANCOVERT	11,7	135	44	13	32	0	0	2,2	0	19	0	0	0	0	0	21	58	0	

Daily Mud Properties Report

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Well Name: Donnatello No. 1 (6507/5-1)

Day	Date	Depth (m)	Mud Type	Mwt ppg	Vis	PV	Gels		Ph	WL		Dri Sid							Total Solids	%	MBT	COMMENTS			
							10s	10m		API	HTHP	FC	YP	PF	MF	CL	CA	ppb					Oil		
60	18 02 98	3542	ANCOVERT	12,1	0	42	14	30	0	0	2,2	0	22	0	0	0	0	0	0	0	0	21	57	0	55 bbls recorded lost to slops pit due to riser displacement
60	18 02 98	3542	ANCOVERT	11,7	130	40	13	31	0	0	2,2	0	22	0	0	0	0	0	0	0	0	21	57	0	
61	19 02 98	3563	ANCOVERT	11,7	119	36	15	25	0	0	2,4	0	14	0	0	0	0	0	0	0	0	19	60,5	0	
61	19 02 98	3563	ANCOVERT	11,7	0	38	11	24	0	0	2,4	0	15	0	0	0	0	0	0	0	0	21	59	0	
61	19 02 98	3560	ANCOVERT	11,7	135	45	16	32	0	0	2,4	0	20	0	0	0	0	0	0	0	0	21	58	0	
62	20 02 98	3616	ANCOVERT	11,7	125	39	13	27	0	0	2,6	0	16	0	0	0	0	0	0	0	0	0	59,5	0	
62	20 02 98	3603	ANCOVERT	11,7	130	39	13	28	0	0	2,6	0	15	0	0	0	0	0	0	0	0	19,3	59,7	0	
62	20 02 98	3616	ANCOVERT	11,7	130	39	13	28	0	0	2,6	0	17	0	0	0	0	0	0	0	0	0	59,5	0	
63	21 02 98	3645	ANCOVERT	12,1	195	37	12	24	0	0	2,6	0	14	0	0	0	0	0	0	0	0	21	58,5	0	
63	21 02 98	3645	ANCOVERT	12,1	215	38	12	32	0	0	2,8	0	18	0	0	0	0	0	0	0	0	0	58,5	0	
63	21 02 98	3616	ANCOVERT	11,7	0	38	13	27	0	0	2,4	0	16	0	0	0	0	0	0	0	0	0	59,5	0	
64	22 02 98	3700	ANCOVERT	11,7	128	35	11	25	0	0	2,6	0	14	0	0	0	0	0	0	0	0	20	60	0	
64	22 02 98	3645	ANCOVERT	12,1	160	38	12	32	0	0	2,8	0	18	0	0	0	0	0	0	0	0	21	58,5	0	
64	22 02 98	3665	ANCOVERT	11,7	131	35	10	25	0	0	2,4	0	14	0	0	0	0	0	0	0	0	21	59	0	
65	23 02 98	3708	ANCOVERT	11,7	160	35	13	30	0	0	2,6	0	19	0	0	0	0	0	0	0	0	20,5	58,5	0	
65	23 02 98	3700	ANCOVERT	11,7	154	35	9	28	0	0	2,6	0	18	0	0	0	0	0	0	0	0	20,5	59	0	
65	23 02 98	3700	ANCOVERT	11,7	128	35	11	25	0	0	2,6	0	14	0	0	0	0	0	0	0	0	20	60	0	
66	24 02 98	3720	ANCOVERT	11,7	130	36	12	26	0	0	3	0	20	0	0	0	0	0	0	0	0	20	60	0	
66	24 02 98	3749	ANCOVERT	11,7	127	44	19	37	0	0	3	0	26	0	0	0	0	0	0	0	0	20	60	0	
66	24 02 98	3803	ANCOVERT	11,7	109	39	13	29	0	0	2,8	0	20	0	0	0	0	0	0	0	0	20	60	0	
66	24 02 98	3853	ANCOVERT	11,7	115	41	13	29	0	0	2,8	0	23	0	0	0	0	0	0	0	0	20,5	59,5	0	
67	25 02 98	3881	ANCOVERT	11,7	120	40	13	29	0	0	2,8	0	25	0	0	0	0	0	0	0	0	21	59	0	
67	25 02 98	3932	ANCOVERT	11,7	140	35	12	34	0	0	2,8	0	25	0	0	0	0	0	0	0	0	20,5	60	0	
67	25 02 98	3932	ANCOVERT	12,1	145	46	16	32	0	0	2,8	0	25	0	0	0	0	0	0	0	0	21	59,5	0	
68	26 02 98	3932	ANCOVERT	11,6	200	53	16	37	0	0	4,2	0	24	0	0	0	0	0	0	0	0	18	56	0	
68	26 02 98	3932	ANCOVERT	11,7	200	52	17	37	0	0	3,4	0	26	0	0	0	0	0	0	0	0	21	59	0	
68	26 02 98	3932	ANCOVERT	11,7	195	51	16	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	
69	27 02 98	3932	ANCOVERT	11,7	195	51	16	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	
69	27 02 98	3932	ANCOVERT	11,7	193	49	16	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	
70	28 02 98	3932	ANCOVERT	11,7	195	50	16	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	
70	28 02 98	3932	ANCOVERT	11,7	195	51	15	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	
71	01 03 98	3932	ANCOVERT	11,7	193	49	15	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	0 27 bbls recorded as lost to slops pit while riser displacement
71	01 03 98	3932	ANCOVERT	11,7	195	50	16	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	59	0	
72	02 03 98	3932	ANCOVERT	11,8	195	47	16	37	0	0	3,4	0	25	0	0	0	0	0	0	0	0	21	56	0	
72	02 03 98	3932	ANCOVERT	11,8	190	47	15	37	0	0	3,4	0	26	0	0	0	0	0	0	0	0	21	56	0	
73	03 03 98	3955	ANCOVERT	11,75	173	49	12	34	0	0	2,6	0	22	0	0	0	0	0	0	0	92	21,5	59	0	0 Added treatment to raise Oil/Water ratio Added emulsifier and fluid loss a
73	03 03 98	3992	ANCOVERT	11,7	125	40	12	34	0	0	2,2	0	22	0	0	0	0	0	0	0	92	0	59	0	
74	04 03 98	4058	ANCOVERT	11,7	127	46	15	36	0	0	2,6	0	22	0	0	0	0	0	0	0	105	0	58,5	0	0 Made treatment for alkalinity, filtration, and rheology by premix dilution (Cu
74	04 03 98	4085	ANCOVERT	11,7	110	46	12	33	0	0	2,6	0	22	0	0	0	0	0	0	0	0	0	58,5	0	
75	05 03 98	4122	ANCOVERT	11,7	125	47	11	33	0	0	3,2	0	20	0	0	0	0	0	0	0	127	0	58	0	0 Solids content showed an increase Will add base oil dilution as soon back
75	05 03 98	4122	ANCOVERT	11,7	0	46	12	33	0	0	2,8	0	22	0	0	0	0	0	0	0	122	0	0	0	
76	06 03 98	4122	ANCOVERT	11,7	200	58	13	36	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0 Add base oil dilution and ran centrifuge Dressed front screens with 84 me
76	06 03 98	4150	ANCOVERT	11,7	148	42	12	35	0	0	2,6	0	18	0	0	0	0	0	0	0	104	0	57	0	

Daily Muu Properties Report

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Well Name: Donnatello No. 1 (6507/5-1)

Day	Date	Depth (m)	Mud Type	Mwt ppg	Vis	PV	Gels			WL		FC	YP	PF	MF	CL	CA	Drl Slid ppb	Total Solids	%	Oil	MBT	COMMENTS	
							10s	10m	Ph	API	HTHP													
77	07 03 98	4198	ANCOVERT	11,7	110	44	13	36	0	0	2,4	0	20	0	0	0	0	106	0	58	0	Treated active sytem for rheology,alkalinity,filtration by premix addition		
77	07 03 98	4224	ANCOVERT	11,7	120	43	12	38	0	0	2,2	0	22	0	0	0	0	54	0	60,5	0			
78	08 03 98	4224	ANCOVERT	11,7	0	43	12	36	0	0	2,1	0	19	0	0	0	0	56	0	60,5	0	No treatment or make up today Received chemicals from Sandnessøyen l		
79	09 03 98	4224	ANCOVERT	11,7	0	42	12	36	0	0	2,1	0	20	0	0	0	0	56	0	60,5	0	No treatment or make up today		
80	10 03 98	4224	ANCOVERT	11,7	0	43	12	36	0	0	2,1	0	19	0	0	0	0	56	0	60,5	0	Used some barte to have a slug ready (No further make up or treatment t		
81	11 03 98	4224	ANCOVERT	11,7	0	43	12	36	0	0	2,1	0	19	0	0	0	0	56	0	60,5	0	No treatment/make up today Mærsk Fetcher arnvred on location not able t		
82	12 03 98	4224	ANCOVERT	11,7	0	43	12	36	0	0	2,1	0	19	0	0	0	0	56	0	60,5	0	Transfered volume of pit # 4 to pit # 3 and start cleaning it Start receiving l		
83	13 03 98	4224	ANCOVERT	11,7	0	43	12	36	0	0	2,1	0	19	0	0	0	0	56	0	60,5	0	No treatment or make up today Mud losses = pit cleaning (Solids)		
84	14 03 98	4224	ANCOVERT	11,75	130	42	13	38	0	0	2,2	0	22	0	0	0	0	0	21	59	0			
84	14 03 98	4224	ANCOVERT	11,7	0	41	12	38	0	0	2,2	0	22	0	0	0	0	0	20,5	59,5	0			
85	15 03 98	3870	ANCOVERT	11,7	130	40	12	36	0	0	2,2	0	22	0	0	0	0	0	20,5	59,5	0			
85	15 03 98	3870	ANCOVERT	11,7	132	41	12	38	0	0	2,2	0	21	0	0	0	0	0	20,5	59,5	0	82 bbls of mud recorded as lost in the hole while the open hole packer set		
86	16 03 98	3870	ANCOVERT	11,7	130	45	11	37	0	0	2,2	0	20	0	0	0	0	0	20,5	59,5	0			
87	17 03 98	3870	ANCOVERT	11,7	130	45	11	37	0	0	2,2	0	20	0	0	0	0	0	20,5	59,5	0	Diverted 69 bbls spacer/excess cement to slops pit 34 bbls gained in the e		
87	17 03 98	3870	ANCOVERT	11,7	150	51	11	31	0	0	2,4	0	20	0	0	0	0	0	57,5	0	0			
88	18 03 98	3870	ANCOVERT	11,7	135	48	11	35	0	0	2,4	0	19	0	0	0	0	0	22	58	0	34 bbls gain adjusted in today figures 14 bbls losses with cement at shake		
89	19 03 98	3870	ANCOVERT	11,7	135	49	12	36	0	0	2,4	0	21	0	0	0	0	0	22	58	0			
89	19 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	2,6	0	26	0	0	0	0	0	0	58	0			
90	20 03 98	3870	ANCOVERT	11,7	0	59	12	28	0	0	28	0	22	0	0	0	0	0	0	51	0	Backloaded 1150 bbls OBM and 480 bbls slops to Nordman Drott 22 bbls		
90	20 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	2,6	0	26	0	0	0	0	0	22	58	0			
91	21 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	2,6	0	26	0	0	0	0	0	22	58	0	No mud check today		
92	22 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	0	0	26	0	0	0	0	0	22	58	0	Inventory correction and broken sacks		
93	23 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	0	0	26	0	0	0	0	0	22	58	0			
94	24 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	0	0	26	0	0	0	0	0	22	58	0			
95	25 03 98	3870	ANCOVERT	11,7	140	52	11	32	0	0	0	0	26	0	0	0	0	0	22	58	0			
95	25 03 98	3870	WATER/BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
96	26 03 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CACL2 DST BRINE FLUIDE 10 0 PPG
97	27 03 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
98	28 03 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
99	29 03 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100	30 03 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101	31 03 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
102	01 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
103	02 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
104	03 04 98	3870		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
104	03 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Topped pit # 2 with bnne in order to have the requested volume before sta
105	04 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	kill well as per program
106	05 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
107	06 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Dumped contaminated bnne (74 bbls) while reverse circulating Made an e
108	07 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Mixed kill pill in slug pit in order to have it ready (and homogenous) when
109	08 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No treatment or make up today
110	09 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	No treatment or make up to-day
111	10 04 98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Pumped some 53 bbls of base oil inside string for lowering hydrostatic colli

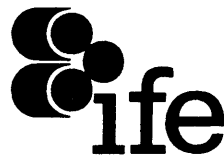
Daily Mud Properties Report

6507/5-1

Well Name: Donnatello No. 1 (6507/5-1)

Day	Date	Depth (m)	Mud Type	Mwt ppg	Vis	PV	Gels		Ph	WL		FC	YP	PF	MF	CL	CA	Dri Sld ppb	Total Solids	Oil %	MBT	COMMENTS
							10s	10m		API	HTHP											
112	11.04.98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 No treatment made today. Losses are inner string volume gone to the torc
113	12.04.98	3870	CaCl2 BRINE	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 No treatment or make up today.
114	13.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	0 No treatment or make up today. Retort on Brine resulted in : 6,5 % solids
115	14.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	0 No treatment or make up today.
116	15.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	0 Adjusted mud weight of the killing pill in chemical pit.No furthe treatment dc
117	16.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
118	17.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
119	18.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
120	19.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
121	20.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
122	21.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
123	22.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
124	23.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
125	24.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
126	25.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
127	26.04.98	3870	CaCl2 BRINE	10	26	0	0	0	0	0	0	0	0	0	0	0	0	0	6,5	0	0	
128	27.04.98	3870	CaCl2 / CaBr2	12,6	26	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	
129	28.04.98	3870	CaCl2 / CaBr2	12,6	26	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0 12,5 PPG COMPLETION / TESTING BRINE CaCl/CABR
130	29.04.98	3870	CaCl2 / CaBr2	12,6	26	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0 DST #3 BRINE. ALL SLOPS WERE FLARED 28/04/98
131	30.04.98	3870	CaCl2 / CaBr2	12,6	26	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0 ADDED CORROSION INHIBITOR TO 188 BBLS AND SPOTTED 1843-19
132	01.05.98	3870	SEA WATER	8,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	
133	02.05.98	3870	SEA WATER	8,5	26	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	
134	03.05.98	3870	SEA WATER	8,5	26	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0	0	
134	03.05.98	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

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Report type	IFE/KR/F-99/113			Date 1999-08-09
	Report title DATAREPORT ON STABLE ISOTOPES, GAS SAMPLES FROM WELL 6507/5-1 (ref. IFE no 2.3.117.99)			Date of last revision
	Client BP Amoco/Statoil			Revision number
	Client reference			Number of pages 5
			Number of issues 23	
Summary Four gas samples from well 6507/5-1; DST 1 3607-3653 mMD, DST 2A 3430-3442 mMD, DST 2B 3494-3514 mMD and DST 3 2993-3001 mMD are analysed for gas and isotopic composition. The work is done in accordance with «The Norwegian Industry Guide to Organic Geochemical Analyses», third edition 1993.				Distribution BP Amoco (8) Statoil (8) Andresen, B. Johansen, H. Johansen, I. Sieglé, S. File (3)
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	Name	Date	Signature	
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Approved by	Bjørg Andresen	1999-08-09	Bjørg Andresen	

1 Introduction

Four gas samples from well 6507/5-1; DST 1 3607-3653 mMD, DST 2A 3430-3442 mMD, DST 2B 3494-3514 mMD and DST 3 2993-3001 mMD are analysed for gas and isotopic composition.

On the samples C₁ - C₅ and CO₂ are quantified. The $\delta^{13}\text{C}$ value is measured on methane, ethane, propane, the butanes and CO₂. In addition the δD value is measured on methane.

2 Analytical procedures

Aliquots of 0.2 ml are sampled with a syringe for analysis on a Poraplot Q column connected with flame ionisation (FID) and thermal conductivity (TCD) detectors. The detection limit for the hydrocarbon gas components is 0.001 $\mu\text{l/ml}$, for CO₂ 0.05 $\mu\text{l/ml}$.

For the isotope analysis 5-10 ml of the gas is sampled with a syringe and then separated into the different gas components by a Carlo Erba 4200 gas chromatograph. The hydrocarbon gas components are oxidised in separate CuO-ovens in order to prevent cross contamination. The combustion products CO₂ and H₂O are frozen into collection vessels and separated.

The combustion water is reduced with zinc metal in sealed quartz tubes to prepare hydrogen for isotopic analysis. The isotopic measurements are performed on a Finnigan MAT 251 and a Finnigan Delta mass spectrometer.

IFEs value on NBS 22 is $-29.77 \pm .06\text{‰}$ PDB.

The analytical procedures are tested with a laboratory gas standard mixture. Based on repeated analysis of the gas standard, the reproducibility in the $\delta^{13}\text{C}$ value is better than 0.5‰ PDB for all components. The reproducibility in the δD value is likewise better than 10‰.

3 Results

The normalised volume composition of the gas samples is shown in Table 1. The stable isotope composition is shown in Table 2.

The molecular composition related to the carbon isotope variations in methane from the samples are plotted in Figure 1 (Schoell, 1983), the carbon and hydrogen variations in methane are plotted in Figure 2 (Schoell, 1983) and the carbon isotope variation in ethane related to the carbon isotope variations in methane in Figure 3 (Schoell, 1983).

Table 1 Volume composition of gas samples (normalised values) from well 6507/5-1

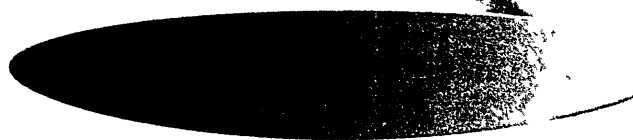
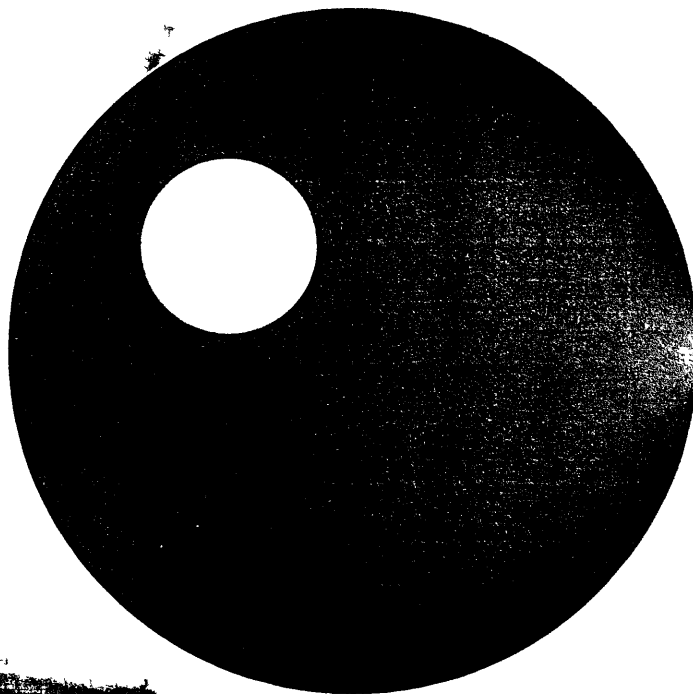
Test	Sample Depth mMD	IFE no GEO	C ₁ %	C ₂ %	C ₃ %	iC ₄ %	nC ₄ %	iC ₅ %	nC ₅ %	CO ₂ %	ΣC ₁ -C ₅ %	Wet-ness	iC ₄ /nC ₄
DST 1	3607-3653	991128	79.0	9.3	4.9	0.57	1.3	0.19	0.22	4.5	95.5	0.17	0.42
DST 2B	3494-3514	991129	85.6	5.8	5.5	0.32	0.8	0.07	0.11	1.8	98.2	0.13	0.41
DST 2A	3430-3442	991130	85.4	6.6	3.5	0.36	1.0	0.18	0.21	2.9	97.1	0.12	0.37
DST 3	2993-3001	991131	85.8	6.8	3.6	0.58	1.1	0.21	0.21	1.6	98.4	0.13	0.55

Table 2 Isotopic composition of gas samples from well 6507/5-1

Test	Sample Depth mMD	IFE no GEO	C ₁ δ ¹³ C ‰ PDB	C ₁ δ D ‰ SMOW	C ₂ δ ¹³ C ‰ PDB	C ₃ δ ¹³ C ‰ PDB	iC ₄ δ ¹³ C ‰ PDB	nC ₄ δ ¹³ C ‰ PDB	CO ₂ δ ¹³ C ‰ PDB	CO ₂ δ ¹⁸ O ‰ PDB
DST 1	3607-3653	991128	-38.8	-215	-30.2	-29.1	-25.7	-28.8	-13.0	-11.5
DST 2B	3494-3514	991129	-38.5	-208	-30.4	-29.3	-27.8	-29.2	-12.0	-13.3
DST 2A	3430-3442	991130	-38.5	-203	-30.4	-29.3	-25.3	-29.3	-12.4	-11.5
DST 3	2993-3001	991131	-41.0	-197	-31.4	-28.8	-27.0	-28.3	-12.0	-14.3

4 Literature

Schoell, M. (1983). Genetic characterisation of natural gases. *The American Association of Petroleum Geologists Bulletin*, 67,2225-2238.



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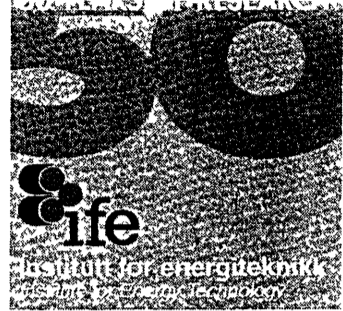
ADJ. DIREKTOR

IFE/KR/F-98/126

VITRINITE REFLECTANCE
ANALYSIS WELL 6507/5-1
OFFSHORE NORWAY
(ref. IFE no. 2.5.111.98)

Institutt for energiteknikk
Institute for Energy Technology

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Report type F	Report number	IFE/KR/F-98/126		Date 1998-07-02
	Report title	VITRINITE REFLECTANCE ANALYSIS WELL 6507/5-1 OFFSHORE NORWAY (ref. IFE no. 2.5.111.98)		Date of last revision
	Client	Geolab Nor/Amoco		Revision number
	Client reference	Marianne Sandstad		Number of pages
Summary			Number of issues 11	Distribution
				Geolab Nor AS (5) Bjørnstad, T. Johansen, H. Aasgaard, K. File (3)
Keywords:				
		Name	Date	Signature
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Reviewed by	Harald Johansen		1998-07-02	<i>Harald Johansen</i>
Approved by	Tor Bjørnstad		1998-07-02	<i>Tor Bjørnstad</i>

1 Introduction

This report gives the result of routine vitrinite reflectance analyses of 32 samples from well 6507/5-1 offshore Norway.

2 Material

The material was provided from the client as 32 cuttings samples. Information on lithology in well 6507/5-1 was not provided from the client.

3 Analytical techniques

3.1 Preparation

The cuttings samples were treated with hydrochloric and hydrofluoric acid prior to further preparation. The aim was to avoid soft and expanding mineral phases in order to ensure good polishing quality. The sample material resulting from the acid treatment was embedded in an epoxy resin to make briquettes, ground flat and polished using 0.25 micron diamond paste and magnesium oxide as the two final steps.

3.2 Analysis

The analytical equipment being used was a Zeiss MPM 03 photometer microscope equipped with an Epiplan-Neofluar 40/0.90 oil objective. The sensitive measuring spot was kept constant for all measurements at about 2.5 micron in diameter. The measurements were made through a green band pass filter (546 nm) and in oil immersion (refractive index 1.515 at 18°C). The readings were made without a polarizer and using a stationary stage. This procedure is called measurement of random reflectance (%Rm). The photometer is calibrated daily against a standard of known reflectance (%Rm=0.588) and routinely (daily) checked against two other standards of significant different reflectances (%Rm=0.879 and 1.696). A deviation from these values of less than ± 0.01 and ± 0.02 respectively is considered as acceptable. The calibration is routinely checked

during the course of measurements at least every hour, and a deviation of less than ± 0.005 is considered as acceptable.

For each sample at least 20 points were measured if possible, and quality ratings are given to various important aspects which may affect the measurements. These aspects are abundance of vitrinite, uncertainties in the identification of indigenous vitrinite, type of vitrinite, particle size, particle surface quality and abundance of pyrite.

3.3 Presentation of results

The raw data from the measurements are presented in appendix for each sample both as tabulated data and histograms. A true vitrinite population is selected among the readings based on observations made during the measurements, and arithmetic mean values and standard deviation are calculated for this population and other populations. A quality rating is given to the true population. The results are listed in table 1. Figure 1 shows a vitrinite reflectance versus depth plot.

4 Results

It was possible to establish a fairly reliable vitrinite reflectance versus depth trend for well 6507/5-1.

Table 1. Vitrinite reflectance data table

Analysis type:		Vitrinite reflectance							
Well:		6507/5-1							
Number of samples:		32							
Time period for analysis:		jun-98							
Analysis performed by:		Kristine Aasgaard, Institutt for energiteknikk							
Analysis ordered by:		Geolab Nor/Amoco							
IFE sample code	Depth (m)	Sample type	Lithology	Vitr. refl. (%Rm)	Stand. dev.	Number of readings	Sample description	Sample quality	Sample prep.
980695	1100	DC	sst	barren	-	-	-	-	HF
980696	1180	DC	clyst	0.23	0.04	14	-00--0	M	HF
980697	1300	DC	clyst	0.26	0.05	20	000--0	M	HF
980698	1430	DC	clyst	0.24	0.03	20	000--+	M	HF
980699	1500	DC	clyst	0.25	0.03	21	000-00	M	HF
980700	1600	DC	clyst	0.25	0.04	22	000-0+	M	HF
980701	1700	DC	clyst	0.25	0.04	22	000--+	M	HF
980702	1810	DC	clyst	0.29	0.07	12	-00-0+	M	HF
980703	1900	DC	clyst	barren	-	-	-	-	HF
980704	2002	DC	clyst	barren	-	-	-	-	HF
980705	2101	DC	clyst	0.27	0.03	7	-±0--+	P	HF
980706	2203	DC	clyst	0.36	0.08	21	000--+	M	HF
980707	2302	DC	clyst	0.36	0.07	21	0000-+	M	HF
980708	2404	DC	clyst	0.36	0.07	22	000--+	M	HF
980709	2503	DC	clyst	0.40	0.06	20	000--+	M	HF
980710	2607	DC	clyst	0.42	0.07	20	000-0+	M	HF
980711	2701	DC	clyst	0.43	0.06	20	000--+	M	HF
980712	2800	DC	clyst	0.42	0.07	22	0000-+	M	HF
980713	2902	DC	clyst	0.45	0.08	23	000-0+	M	HF

Table 1. Vitrinite reflectance data table well 6507/5-1, continued

IFE sample code	Depth (m)	Sample type	Lithology	Vitr. refl. (%Rm)	Stand. dev.	Number of readings	Sample description	Sample quality	Sample prep.
980714	3004	DC	clyst/sst	0.41	0.04	10	-oo--+	P	HF
980715	3100	DC	clyst	barren	-	-	-	-	HF
980716	3202	DC	clyst	0.42	0.04	21	ooo--+	M	HF
980717	3302	DC	clyst	0.49	0.07	21	ooo--+	M	HF
980718	3401	DC	clyst/sst	0.45	0.04	20	oooooo	G	HF
980719	3500	DC	clyst/sst	0.47	0.04	8	-oo--+	P	HF
980720	3599	DC	clyst	0.56	0.05	20	ooo--+	M	HF
980721	3704	DC	clyst	0.62	0.06	17	ooo--+	M	HF
980722	3806	DC	clyst/coal	0.61	0.05	20	oooooo	G	HF
980723	3911	DC	clyst/coal	0.76	0.06	20	oooo+	M	HF
980724	4001	DC	clyst	0.75	0.06	20	ooo--+	M	HF
980725	4100	DC	clyst/coal	0.83	0.06	22	oooooo	G	HF
980726	4223	DC	coal/clyst	0.81	0.04	20	oooo-o	G	HF

Legend to vitrinite reflectance data table

Legend to vitrinite reflectance data table			
SST	sandstone		
SLST	siltstone		
CLYST	claystone		
SH	shale		
LST	limestone		
COAL	coal		
HF	sample treated with hydroflouric acid prior to epoxy resin embedding		
DCM	sample treated with dichloromethane prior to epoxy resin embedding		
bulk	untreated sample prior to epoxy resin embedding		
G	Good quality sample		
M	Moderate quality sample		
P	Poor quality sample		
st	Sample is stained		
ooooo	Sample description:	1	Abundance of vitrinite
123456		2	Identification of vitrinite
		3	Type of vitrinite
		4	Vitrinite fragment size
		5	Vitrinite surface quality
		6	Abundance of pyrite
-	may give too low vitrinite reflectance sample value		
o	reliable vitrinite reflectance sample value		
+	may give too high vitrinite reflectance sample value		

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Att: Dr. Kjell Øygaard

Your ref.

Our ref.
 676405#3/sdo
 (bp amoco 2 99 doc)

Stavanger
 April 27, 1999

Analyses of Heidrun and Norne Crude Oils for Metals

Dear Kjell,

I refer to our telephone conversation in which you requested that I obtain oils from Heidrun and Norne from the NPD in order to compare their metal contents with those of the samples from 6507/5-1 which you had supplied me with. This work has been completed and the results are reported herewith. Table 1 compares the V/(V+Ni) ratios and concentrations of V and Ni for these oils.

Table 1. Comparison of V/(V+Ni) of oils from Heidrun and Norne Fields with those of 6507/5-1 oils.
 Concentration in ng/g (ppb)

Sample	V/(V+Ni)	V	Ni
6507/5-1 DST 1	0.636	1076	616
6507/5-1 DST 2	0.545	1.93	1.6
6507/5-1 DST 2A	0.343	1.53	2.93
6507/5-1 DST 3	0.713	1842	743
6507/3-1 DST 3	0.848	26.3	4.7
6507/7-2 DST 2	0.767	12214	4006
6507/7-2 DST 6	0.674	35	17
6608/10-2 DST 3A	0.298	4.5	10.6
6608/10-4 DST 2	0.164	349	1746
6608/10-4 DST 3A	0.199	597	2315

Table 2 Comparison of metals in oils from Heidrun and Norne Fields.
Concentration in ng/g (ppb)

Field	Heidrun	Heidrun	Heidrun	Norne	Norne	Norne	Norne	Norne	Norne
Well	6507/7-2 DST 6	6507/7-2 DST 2	6507/7-2 DST 2	6507/3-1 DST 3	6608/10- 2 DST 3A	6608/10- 4 DST 2	6608/10- 4 DST 2	6608/10- 4 DST 3A	6608/10- 4 DST 3A
Sample from	NPD	NPD Filtered	NPD As Received	NPD	NPD	NPD As Received	NPD Filtered	NPD As Received	NPD Filtered
Depth in m	2232 - 2245	2417 - 2439	2417 - 2439						
V/(V+Ni)	0.674	0.767	0.757	0.848	0.298	0.164	0.165	0.091	0.199
V	35	12214	10512	26	4.5	349	299	434	597
Fe	337	136000	121000	207	87	2450	1272	115200	78585
Ni	17	3704	3370	4.7	10.6	1780	1508	4350	2404
Co	0.4	90	82	0.2	<0.05	9.7	10.9	470	464
Cu	12	660	550	38	5	306	114	3717	3740
Zn	47	2210	1680	81	9	210	170	25280	19217
As	5.7	305	255	14	1.7	67	54	247	348
Mo	0.5	1	<0.1	1	0.3	1	<0.1	220	198
Cd	0.9	3	10	3	0.5	8	7	18	7
Ba	2	38	9274	1	0.7	133	4	1810	95
Hg	28	160	243	17	12	100	53	375	274
Pb	1	4640	3380	0.4	<0.1	35	1	3396	2974

We thank you for the opportunity to serve you in this way. Should there be any questions, please do not hesitate to contact me.

Yours sincerely
RF - Rogaland Research



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Scientist

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Table 7.2 Metals in

extracts. Concentrations in µg/g EOM(ppm)

Formation							
Depth (m)	2553	2525	4302.5	4032	3178		2291.05
Type	Cuttings	Cuttings	Cuttings	Cuttings	Cuttings		Core
EOM wt	0.192	0.165	0.482	0.168	0.491		0.247
Maturity	Immature	Mature	Mature	Mature	Immature		Immatur
TOC	7%	4.9%	> 30%	8%			30%
HI	350	410	230	210 (Gen)			100
Location	South of Mikkel	Tyrihans South		North of Smørbukk	Near Mikkel		Heidrun North
Well No	6407/6-4	6407/1-3	6407/1-3	6506/12-6	6407/6-3		6507/8-4
Statoil Sample No	S8128	S8130	S8131	S8134	S8138		S8139
Metal	Conc.	Conc.	Conc.	Conc.	Conc.	Std.	Conc.
I.i	33	9	16	41	47	3	28
Be	3.5	2	1.2	1.6	1.5	0.3	1
B							
V	1400	3800	7.8	704	30	5	5.5
Fe	32	<1	<1	15	12	2.9	44
Mn	0.4	0.4	0.2	1	0.6	0.01	1.9
Co	1.2	0.3	0.3	0.25	0.6	0.1	0.6
Ni	410	32	6.3	9.4	28	2.8	19
Cu	220	146	106	448	189	26	193
Zn	25	2.7	0.8	32	2.3	0.1	4.7
Ga	14	0.5	1.3	0.1	8.2	1	3.3
Ge	0.3	0.7	0.04	0.04	0.1	0.06	0.03
As	4	5	1.4	12	2.7	0.3	51
Se	33	15	2.3	17	1	1	0.9
Br	158	81	9.2	42	12	3	15
Sr	0.07	0.1	0.04	0.05	0.03	0.002	0.1
Y	0.07	<0.01	0.01	0.01	0.007	0.007	0.2
Zr	0.05	0.02	0.01	0.05	<0.01		0.4
Nb	0.01	<0.01	0.01	0.01	0.01	0.01	0.1
Mo	4.5	1.5	0.07	1.4	0.008	0.003	0.18
Ag	0.03	0.05	0.01	0.02	0.01	0.001	0.01
Cd	0.3	<0.01	0.07	0.04	<0.01		<0.01
Sn	0.07	0.1	0.05	0.1	0.03	0.01	0.05
Sb	0.3	0.2	0.2	0.4	0.03	0.001	0.3
Te	<0.01	<0.01	0.2	0.04	<0.01		<0.01
Ba	0.6	1.8	0.8	1	0.4	0.04	0.3
La	0.05	0.01	<0.01	0.01	<0.01		0.05
Ce	<0.01	0.01	<0.01	0.02	<0.01		0.08
W	0.1	0.1	0.03	<0.01	<0.01		0.1
Re	1.4	0.3	<0.01	0.1	<0.01		<0.01
Hg	0.2	0.05	<0.01	0.01	0.03	0.002	<0.01
Tl	0.01	0.05	<0.01	0.02	0.01	0.002	0.02
Pb	0.2	0.1	0.02	0.1	<0.01		<0.01
Bi	0.2	0.1	0.1	0.07	0.1	0.02	0.1
Th	<0.01	<0.01	<0.01	<0.01	<0.01		0.3
U	0.02	<0.01	<0.01	0.08	<0.01		0.06
V/(V+Ni)	0.773	0.992	0.553	0.987	0.517		0.224

GEOCHEMICAL INTERPRETATION REPORT

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TITLE

Geochemical Report for Well NOCS 6507/5-1

AUTHOR(S)

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GEOLAB PROJECT NO.

62421

DATE

October, 1998

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REPORT NO./FILE

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Table 1 : Lithology description for well NOCS 6507/5-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3178.00						0051
	1.43	100	Sh/Clst:	drk gy		0051-1L
3181.00						0052
	6.40	100	Sh/Clst:	drk gy		0052-1L
3184.00						0045
	6.16	100	Sh/Clst:	drk gy bulk		0045-1L 0045-0B
3190.00						0053
	7.24	100	Sh/Clst:	drk gy		0053-1L
3193.00						0054
	6.83	100	Sh/Clst:	drk gy		0054-1L
3196.00						0055
	7.47	100	Sh/Clst:	drk gy		0055-1L
3202.00						0056
	6.22	50	Sh/Clst:	drk gy		0056-1L
	1.78	50	Sh/Clst:	lt gy		0056-2L
3205.00						0057
	6.57	50	Sh/Clst:	drk gy		0057-1L
	1.66	50	Sh/Clst:	lt gy		0057-2L

Table 1 : Lithology description for well NOCS 6507/5-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3211.00						0058
		5.80	50	Sh/Clst: drk gy		0058-1L
		1.47	50	Sh/Clst: lt gy		0058-2L
3217.00						0059
		1.58	95	Sh/Clst: lt gy		0059-2L
			5	Sh/Clst: drk gy		0059-1L
3223.00						0060
		1.45	95	Sh/Clst: lt gy		0060-2L
			5	Sh/Clst: drk gy		0060-1L
3229.00						0061
		1.45	95	Sh/Clst: lt gy		0061-2L
			5	Sh/Clst: drk gy		0061-1L
3242.00						0062
		1.55	100	Sh/Clst: gy		0062-1L
3248.00						0063
		1.62	100	Sh/Clst: gy		0063-1L
3251.00	swc					0072
		1.61	100	Sh/Clst: drk gy		0072-1L
3254.00						0064
		1.85	100	Sh/Clst: gy		0064-1L
3263.00						0065
		1.61	100	Sh/Clst: gy		0065-1L

Table 1 : Lithology description for well NOCS 6507/5-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int Cvd	TOC%	%	Lithology description			
3268.00	swc					0073
	1.83	100	Sltst	: drk gy		0073-1L
3288.00	swc					0074
	3.05	100	Sh/Clst:	drk gy		0074-1L
3290.00						0066
	2.51	100	Sh/Clst:	gy		0066-1L
3300.00	swc					0075
	4.19	100	Sh/Clst:	drk gy		0075-1L
3308.00						0067
	3.06	100	Sh/Clst:	gy		0067-1L
3327.50	swc					0076
	2.60	100	Sltst	: drk gy		0076-1L
3332.00						0068
	3.03	100	Sh/Clst:	gy		0068-1L
3338.00	swc					0077
	2.91	100	Sh/Clst:	drk gy		0077-1L
3352.00	swc					0078
	2.23	100	Sh/Clst:	drk gy		0078-1L

Table 1 : Lithology description for well NOCS 6507/5-1

Depth unit of measure: m

Depth	Type	Grp	Frm	Age	Trb	Sample
Int	Cvd	TOC%	%	Lithology description		
3356.00						0069
		2.69	100	Sh/Clst: gy		0069-1L
3360.00	swc					0079
		0.75	100	Sh/Clst: drk gy		0079-1L
3365.00	swc					0080
		1.80	100	Sh/Clst: drk gy		0080-1L
3368.00						0070
		1.55	100	Sh/Clst: gy		0070-1L
3370.00	swc					0081
		1.44	100	Sh/Clst: drk gy		0081-1L
3375.00	swc					0082
		1.38	100	Sh/Clst: drk gy		0082-1L
3377.00						0071
		1.33	100	Sh/Clst: gy		0071-1L
3724.00	swc					0083
		1.80	100	Sh/Clst: drk gy		0083-1L
3809.00	swc					0084
		0.64	100	Sltst : drk gy		0084-1L