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GEOCHEMICAL EVALUATION OF WELL 6507/3-1.		30 APR. 1991	
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TABLE 1 GEOCHEMICAL SAMPLES IN
WELL 6507/3-1.

Depth mRKB	Sample No	Sample type
905	S4964	SWC
975	S4965	SWC
1120	S4966	SWC
1200	S5028	CUTT
1230	S5029	CUTT
1250	S4967	SWC
1260	S5030	CUTT
1290	S5031	CUTT
1350	S4968	SWC
1455	S4969	SWC
1560	S4970	SWC
1645	S4971	SWC
1745	S4972	SWC
1825	S4973	SWC
1909	S4974	SWC
1911	S5012	SWC
1915	S5013	SWC
1985	S5014	SWC
2011.5	S4975	SWC
2110.5	S4976	SWC
2240.8	S4977	SWC
2370	S4978	SWC
2495	S4979	SWC
2783.5	S4980	SWC
2820	S5032	CUTT
2830	S4981	SWC
2850	S5033	CUTT
2880	S5034	CUTT
2910	S5035	CUTT
2924	S4982	SWC
2940	S5036	CUTT
2970	S5037	CUTT
3000	S5038	CUTT
3007	S4983	SWC
3030	S5039	CUTT
3060	S5040	CUTT

TABLE 1 GEOCHEMICAL SAMPLES IN
WELL 6507/3-1.

Depth mRKB	Sample No	Sample type
3090	S5041	CUTT
3092	S5015	SWC
3096	S5016	SWC
3097.5	S5017	SWC
3100.5	S5018	SWC
3105	S5019	SWC
3110	S5020	SWC
3111	S5021	SWC
3116	S5022	SWC
3120	S5042	CUTT
3123.8	S5023	SWC
3150	S5043	CUTT
3169	S5069	CUTT
3180	S5044	CUTT
3210	S5045	CUTT
3223	S5070	CUTT
3240	S5046	CUTT
3262	S5071	CUTT
3312	S5072	CUTT
3363	S5073	CUTT
3411	S5074	CUTT
3450	S5075	CUTT
3450	S5047	CUTT
3480	S5048	CUTT
3510	S5049	CUTT
3513	S5076	CUTT
3540	S5050	CUTT
3570	S5051	CUTT
3600	S5052	CUTT
3611-3636	S5334	DST3
3612.52	S4984	CORE
3613.98	S4985	CORE
3616.73	S4986	CORE
3618.54	S4987	CORE
3621.94	S4988	CORE
3627.55	S4989	CORE

TABLE 1 GEOCHEMICAL SAMPLES IN
WELL 6507/3-1.

Depth mRKB	Sample No	Sample type
3630	S5053	CUTT
3630.5	S4990	CORE
3637.9	S4991	CORE
3640	S4992	CORE
3650.08	S4993	CORE
3660	S5054	CUTT
3673.5	S4994	CORE
3682.75	S4995	CORE
3690	S5055	CUTT
3690-3724	S5333	DST2
3695	S4996	CORE
3720	S5056	CUTT
3750	S5057	CUTT
3773.76	S4997	CORE
3780	S5058	CUTT
3783	S4998	CORE
3789.3	S5141	CORE
3791.98	S4999	CORE
3801.98	S5000	CORE
3810	S5059	CUTT
3815.5	S5001	CORE
3824.75	S5002	CORE
3835	S5003	CORE
3840	S5060	CUTT
3870	S5061	CUTT
3900	S5062	CUTT
3930	S5063	CUTT
3960	S5064	CUTT
3978	S5077	CUTT
3990	S5065	CUTT
3995	S5004	CORE
3998.7	S5005	CORE
4007.7	S5006	CORE
4009.5	S5007	CORE
4010.7	S5008	CORE
4011.5	S5009	CORE

TABLE 1 GEOCHEMICAL SAMPLES IN
WELL 6507/3-1.

Depth mRKB	Sample No	Sample type
4013.5	S5010	CORE
4020.5	S5011	CORE
4024	S5066	CUTT
4033	S5078	CUTT
4050	S5067	CUTT
4063	S5079	CUTT
4075.1*	S4960	SWC
4078	S5080	CUTT
4080	S5068	CUTT
4080	S5084	CUTT
4110 *	S5085	CUTT
4140 *	S5086	CUTT
4142 *	S5027	SWC
4170 *	S5087	CUTT
4175.5*	S5024	SWC
4200 *	S5088	CUTT
4230 *	S5089	CUTT
4260 *	S5090	CUTT
4284.8*	S5025	SWC
4290 *	S5091	CUTT
4320 *	S5092	CUTT
4350 *	S5092A	CUTT
4380 *	S5093	CUTT
4386.5*	S5026	SWC
4410 *	S5094	CUTT
4440 *	S5095	CUTT
4446.4*	S4961	SWC
4470 *	S5096	CUTT
4493 *	S4962	SWC
4500 *	S5097	CUTT
4530 *	S5098	CUTT
4560 *	S5099	CUTT
4590 *	S5100	CUTT
4620 *	S5101	CUTT
4650 *	S5102	CUTT

TABLE 1 GEOCHEMICAL SAMPLES IN
WELL 6507/3-1.

Depth		Sample	Sample
mRKB		No	type
4680	*	S5103	CUTT
4710	*	S5104	CUTT
4740	*	S5105	CUTT

* sidetrack

TABLE 2A LITHOLOGICAL DESCRIPTION OF SWC AND CORE SAMPLES, WELL 6507/

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S4964 SWC	905.0	100%	Clyst, med grey, soft, calc, sol, st stky
S4965 SWC	975.0	100%	Clyst, med grey, soft, calc, sol, sl stky, silty, sandy
S4966 SWC	1120.0	100%	Clyst, med grey, soft, calc, sol, sl stky, silty, sandy
S4967 SWC	1250.0	100%	Clyst, med dark grey, soft, calc, sol, sl stky, silty, sandy
S4968 SWC	1350.0	100%	Clyst, med dark grey, soft, calc, sol, sl stky, silty, sandy
S4969 SWC	1455.0	100%	Clyst, med dark grey-olive grey, soft, calc, sol, sl stky, silty, sandy, sl micromica, occ sl pyr
S4970 SWC	1560.0	100%	Clyst, yellow brown, soft, non-sl calc, silty, micromic
S4971 SWC	1645.0	100%	Clyst, yellow brown, soft-firm, non-sl calc silty, micromic
S4972 SWC	1745.0	100%	Clyst, olive grey-green grey, firm, non calc, micromica, sl silty
S4973 SWC	1825.0	100%	Clyst, grey brown, firm, non calc
S4974 SWC	1909.0	100%	Clyst, brown grey-brown black, firm-mod hard, subfiss-fiss, sl micromica, non calc
S5012 SWC	1911.0	1.15 100%	Clyst, brown grey-brown black, firm-mod hard, subfiss-fiss, sl micromica, non calc
S5013 SWC	1915.0	0.90 100%	Clyst, dark grey-brown grey, firm-mod hard, subfiss-fiss, sl micromica, non calc
S5014 SWC	1985.0	0.33 100%	Clyst, med kd grey-brown grey, soft-firm, amorph, sl micromica, sl calc
S4975 SWC	2011.5	100%	Clyst, brown grey, soft-firm, amor-subfiss sl micromica, sl calc
S4976 SWC	2110.5	100%	Clyst/sltst, med dark grey-brown grey, soft-firm, amorph, sl micromica, sl microcarb, sl calc
S4977 SWC	2240.8	100%	Clyst/sltst, brown grey, soft-firm, amorph sl micromica, sl calc
S4978 SWC	2370.0	100%	Clyst/sltst, med dark grey-brown grey, firm mod hard, sl subfiss, sl micromica, sl calc

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Sample no. Type	Depth mRKB	TOC %	LITHOLOGY.	Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S4979 SWC	2495.0	100%	Clyst, med dark grey-brown grey, firm-mod hard, sl subfiss, sl micromica, calc	
S4980 SWC	2783.5	100%	Clyst, med dark grey-dark grey, firm-mod hard, amorph, sl micromica, sl microcarb, calc	
S4981 SWC	2830.0	100%	Clyst, med dark grey-brown grey, soft-firm amorph, sl micromica, sl microcarb, n-sl calc	
S4982 SWC	2924.0	100%	Clyst, as above, sl carb, sl calc	
S4983 SWC	3007.0	100%	Clyst, olive grey-dark olive grey, silty/-sandy, firm, mass, micromica, sl calc	
S5015 SWC	3092.0	7.19	100%	Clyst/sh, dsky yellow brown-dark br. grey, silty/sl sandy, subfiss, mod hard-firm, micromica, sl micropyr, non calc
S5016 SWC	3096.0	8.03	100%	Clyst/sh, dsky yellow brown-dark br. grey, silty/sl sandy, subfiss, mod hard, micromica, sl calc
S5017 SWC	3097.5	0.65	100%	Clyst, lt olive grey, soft, amorph, sl carb & micromica, sl calc
S5018 SWC	3100.5	6.73	100%	Clyst/sh, dsky yellow brown-dark br. grey, soft, amorph, sl carb & micromica, sl calc
S5019 SWC	3105.0	8.58	100%	Clyst/sh, dsky yellow brown-dark br. grey, soft, amorph, sl carb & micromica, sl calc
S5020 SWC	3110.0	7.21	100%	Clyst/sh, dsky yellow brown-dark br. grey, silty/sl sandy, subfiss, mod hard-firm, micromica, sl micropyr, non calc
S5021 SWC	3111.0	7.03	100%	Clyst/sh, dsky yellow brown-dark br. grey, soft, amorph, sl carb & micromica, sl calc
S5022 SWC	3116.0	5.42	100%	Clyst/sh, less silty, firm-mod hard, amorph, sl carb & micromica, sl calc
S5023 SWC	3123.8	1.55	100%	Clyst, grey black, silty, firm, mass-subfiss, micromica, sl micropyr, sl calc
S4984 CORE	3612.52			Sst, fine laminated
S4985 CORE	3613.98			Sst
S4986 CORE	3616.73			Sst

TABLE 2A LITHOLOGICAL DESCRIPTION OF SWC AND CORE SAMPLES, WELL 6507/

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S4987 CORE	3618.54		Sst
S4988 CORE	3621.94		Sst
S4989 CORE	3627.55		Sst
S4990 CORE	3630.50		Sst
S4991 CORE	3637.90		Sst
S4992 CORE	3640.0		Sst, fine laminated
S4993 CORE	3650.08		Sst, medium to fine laminated
S4994 CORE	3673.50		Sst, medium laminated
S4995 CORE	3682.75		Sst, fine laminated
S4996 CORE	3695.0		Sst
S4997 CORE	3773.76		Sst, medium laminated
S4998 CORE	3783.0		Sst
S5141 SEAL PEAL	3789.30		Clyst, mica
S4999 CORE	3791.98		Sst
S5000 CORE	3801.98		Sst
S5001 CORE	3815.50		Sst
S5002 CORE	3824.75		Sst
S5003 CORE	3835.0		Sst
S5004 CORE	3995.50		Sst

TABLE 2A LITHOLOGICAL DESCRIPTION OF SWC AND CORE SAMPLES, WELL 6507/

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY.	Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5005 CORE	3998.70		Clyst	
S5006 CORE	4007.70		Carbonaceous shale	
S5007 CORE	4009.50		Sst	
S5008 CORE	4010.70		Carbonaceous shale	
S5009 CORE	4011.50		Coal	
S5010 CORE	4013.50		Sst	
S5011 CORE	4020.50		Clyst	
S4960* SWC	4075.1	62.05	100%	Coal, black, arg, earthy-shiny, crumbly
S5027* SWC	4142.0		100%	Sst, yellow brown, clr-mlky quartz, very fine t fine, pr srted, subang, sl silty cemented, mod carb
S5024* SWC	4175.5	1.22	100%	Clyst, brown black, silty, sl sandy, mod hard, subfiss, v mica & carb, non calc
S5025* SWC	4284.8	2.35	100%	Clyst, as above
S5026* SWC	4386.5	1.54	100%	Clyst, brown black, hard, blocky, sl micromica, non calc, occ very small lenses of very fine quartz sand
S4961* SWC	4446.4	57.70	100%	Coal, black, arg, shiny, crumbly
S4962* SWC	4493.0	23.05	100%	Coal, black, arg, subfiss, shiny-earthly, mod hard

*; Sidetrack

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5028 CUTT	1200.0		100% Clyst, med-dark grey, soft, sol, stacky non-sl calcareous, v silty-sandy
S5029 CUTT	1230.0		100% Clyst, med-dark grey, soft, sol, stacky non-sl calcareous, v silty-sandy
S5030 CUTT	1260.0		55% Clyst, micaceous, as above 40% Sand, clear-pink, smky quartz, fine-gra angular-subrounded, lse, poor sorted, l occ rock grains 5% Limestone, cream-v light brown, blocky, microxln - dense, hard TR Foraminifers
S5031 CUTT	1290.0		50% Sand, clear-white quartz, very fine-coa angular-subrounded, lse, pr sorted 50% Clyst, as above TR Limestone TR Foraminifers
S5032 CUTT	2820.0		100% Clyst, med-dark grey, soft-firm, amor-b occ stacky, occ incl of very fine sand grains, non-sl calcareous TR Limestone TR Dolomite
S5033 CUTT	2850.0		95% Clyst, medium-dark grey, soft-firm, am blocky, occ flky, stacky, silty/sandy 5% Limestone/Dolomite TR Sand
S5034 CUTT	2880.0		60% Clyst, dark grey, firm, blocky, mod cal I/P sl silty 30% Dolomite/Limestone, dark brown grey, pa buff - medium grey, v hard - firm, bloc microxln - micritic, sandy I/P 10% Sandstone, clear-smky quartz, medium, p sorted, subangular, mod hard-hard, ceme by dol/lst, pr vis por.
S5035 CUTT	2910.0		90% Clyst, medium-dark grey, soft-firm, amo blocky, occ flacky, silty/sandy I/P, occ micropyrte 5% Dolomite/Limestone, dark brown grey - b med grey, hard - very hard, blocky, mic sandy I/P 5% Sandstone, clear-trnsl quartz, fine-med occ coarse, subrounded, mod sorted, occ occ grading sandy clystone, sl calcite cemented, occurs mstl as lse grains TR Pyrite

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5036 CUTT	2940.0		80% Clyst, medium grey, soft, sl stacky, si sandy, non-sl calcareous, glauconite gr 20% Dolomite/Limestone, dol dominates, dark grey - buff - med grey, hard-v hard, bl micritic, sandy I/P TR Sandstone
S5037 CUTT	2970.0		100% Clyst, dark grey, firm, blocky, micromi mod calcite TR Dolomite/Limestone TR Sandstone
S5038 CUTT	3000.0		100% Clyst, as above TR Dolomite/Limestone
S5039 CUTT	3030.0		100% Clyst, med grey, soft, stacky, amorph, calcite, occ silty/sandy TR Limestone
S5040 CUTT	3060.0		70% Clyst; medium dark grey, soft, stacky, blocky, silty, v calcareous, gradin to 30% Clyst; dark grey, firm-mod hard, blocky splntry I/P, occ slikcensides TR Pyrite
S5041 CUTT	3090.0		70% Clyst; dark grey, firm-mod hard, blocky splntry, non calcareous 10% Limestone; white-light grey - light bro soft-firm, blocky, occ spkld 10% Dolomite; light-brown, hard-v hard, blo 10% Pyrite
S5042 CUTT	3120.0		100% Clystone; dusky yellow brown, soft-firm blocky, non calcareous, silty, grading siltstone, micropyrrite TR Limestone TR Pyrite
S5043 CUTT	3150.0		100% Clystone; dusky yellow brown, partly brown black, partly dark brown grey, sil soft-hard sl - v calcareous occ grading marl, TR Limestone TR Pyrite
S5069 CUTT	3169.0	1.33	100% Clyst, yellow brown, dark grey brown, o silty, calc, occ marl, occ micropyr TR Limestone
S5044 CUTT	3180.0		90% Clystone; medium-dark grey, soft-firm, blocky, silty, mod calcareous 10% Dolomite/Limestone, as above

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no.	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5045 CUTT	3210.0		60% Clystone, pred dark brown grey, silty-v firm-mod hard, subfiss, micromica, sl c I/P, non calcareous 40% Limestone; medium brown-light brown gre dolomite, mod-v hard, ang-blocky, micro sl argillous TR Pyrite
S5070 CUTT	3223.0	1.51	70% Clyst, dark brown grey, silty-very silty grading sltst, firm-mod hard, micromica sl carb, non calc 20% limestone, med brown-light brown grey, mod-very hard, ang-blocky, microxln, sl-mod arg
S5046 CUTT	3240.0		65% Clystone; pred dark brown grey, sl-mod occ v silty, firm-mod hard, blocky-subf micromica, occ sl micropyr, non calc 35% Limestone; med brown, light brown grey, orange brown-red brown, xln, sl fri-mod non argillous TR Pyrite
S5071 CUTT	3262.0	1.75	80% Clyst, dark brown grey, sl-mod silty, o v silty, firm-mod hard, blocky-subfiss, micromica, occ sl micropyr, non calc 20% Limestone, med brown, light brown grey, mod hard-very hard, mas-ang-blocky, microxln, sl-mod arg TR Pyrite
S5072 CUTT	3312.0	1.63	50% Clyst, dark brown grey brown black, sl-silty, occ very silty, firm-mod hard, blocky/blocky-subfiss, micromica, occ s sl micropyr, non calc TR Pyrite
S5073 CUTT	3363.0	1.77	90% Clyst, dark brown grey-br. black, subfi mod-very silty, grading to sltst, mod h micromica, sl carb, non calc 10% Limestone, light brown grey-brown grey, blocky, microxln, sl-mod arg, non dol-grading to dol, occ dark orng-org brown trnsl, xln, hard, non arg TR Dolomite TR Pyrite

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5074 CUTT	3411.0	1.42	40% Clyst, dark brown grey-br. black, pred silty, subfiss, mod hard, micromica, micropyr, sl carb, non calc 40% Limestone, light brown grey-brown grey, blocky, occ sucr, microxln, v arg, non dol-grading to dolomite, occ dark orng brown-red brown, transl, xln, hard, non arg 20% Siltstone, olive grey-brown grey, mod h mas, mod-v arg, micromica & v micropyr, sl calc TR Pyrite
S5047 CUTT	3450.0		80% Claystone, dark brown grey-brown black, I/P grading to siltstone, subfiss, mod micromica, micropyrite I/P, sl carbonac non calcareous 10% Siltstone; brown grey-dark brown grey, mica-micromica, microcarbonaceous, arg, non calcareous
S5075 CUTT	3450.0	1.97	80% Clyst, grading to sltst, as above 10% Siltstone, brown grey-dark brown grey, mica-micromica, microcarb, arg, non cal TR Pyrite
S5048 CUTT	3480.0		80% Siltstone; brown black-dusky yellow bro fri, mas, mica-micromica, microcarb, I/v carbonaceous, argillous, non calcareo 20% Claystone; dark brown grey-brown black, slight-v silty, subfiss, mod hard, micr I/P micropyrite, sl carbonaceous, non calcareous TR Limestone TR Pyrite, sandstone, coal
S5049 CUTT	3510.0		50% Siltstone; I/P fri-firm, else as above 40% Clystone; dark brown grey-brown black, slight-v silty, subfiss, mod hard, micr I/P micropyrite, sl carbonaceous, non calcareous 10% Limestone; light brown grey-brown grey, blocky, hard, I/P v argillous grading t calcite siltstone, microxln; occ white, orange brown-red brown, xln, hard, non TR Pyrite
S5076 CUTT	3513.0	1.64	50% Clyst, pred v silty, as above 40% Siltstone, brown black-yellow brown, I/P sandy grading to v fine sst, fri, m mica-micromica, microcarb, arg, non-sl c 10% Limestone, light brown grey-brown grey, blocky, hard, sl dol, I/P v arg grading calc sltst, microxln; occ wg, orng brow to red brown, xln, hard, non arg TR Pyrite

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no. Type	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5050 CUTT	3540.0		100% Siltstone; brown black-dusky yellow bro occ grading to v fine ext arg sandstone fri, mas, mica-micromica, microcarbonac areg, non-sl calcareous TR Clystone, limestone, pyrite, sandstone
S5051 CUTT	3570.0		98% Siltstone, brown black-dusky yellow bro occ v sandy grading to ext argillous v sandstone, fri, v argillous, subfiss, v micromica-mica, carb-microcarbonaceou non calcareous 2% Limestone; off white-light grey, soft, v argillous grading to calc clyst TR Limestone
S5052 CUTT	3600.0		100% Siltstone, brown black, fri, v argillou subfiss, v micromica-mica, carb-/micro- carbonaceous, non calcareous
S5053 CUTT	3630.0		See core description
S5054 CUTT	3660.0		See core description
S5055 CUTT	3690.0		95% Sandstone, med grey-light brown grey, c smky quartz, I/P coarse, but occ med co mod sorted, subang-subrounded, fri-mod, sil cemented, poor vis por 5% Shale/clystone, dark grey-grey black, h subfiss, micromica, non calc TR Pyrite
S5056 CUTT	3720.0		55% Shale, dark grey-dark brown grey, hard, blocky-fiss, splintry I/P micromica, non calcareous 40% Sandstone, light grey, clear quartz, fi well sorted, subangular, fri, mod sil cemented, mod-poor vis por, trace of glauconite 5% Limestone, dark brown grey-med brown gr hard, blocky, xln-microxln TR Pyrite
S5057 CUTT	3750.0		60% Sandstone, light grey, clear quartz, pr very fine-fine, but also med coarse, fa pr sorted, subang-subrounded, silic cem fri, glauconite, poor vis poor. 40% Shale, dark grey-brownish grey, firm, subfiss, non calcareous

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no.	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5061 CUTT	3870.0		90% Shale, dark grey-brown black, mod hard-hard, subfiss, very silty I/P, non calcareous, sl carbonaceous, micromica 10% Sandstone, clear quartz, mostly fine, occ medium-coarse, fair sorted, subang-subrounded, fri-hard, mod very silic cemented, non calcareous TR Pyrite
S5062 CUTT	3900.0		60% Sandstone, clear-milky quartz, fine-coa occ very coarse, mainly as else grains also pred fine-medium, very well silic cemented, mod-well sorted, pr vis por 40% Shale, dark grey - brown grey, silty-no silty, mod hard-hard, subfiss, non calcareous TR Limestone, TR Pyrite
S5063 CUTT	3930.0		30% Sandstone, clear-milky quartz, fine-coarse, pred fine, mainly as else grain also pred fine-medium, v well silic cemented, mod-well sorted, pr vis por. 70% Shale, dark grey-brown grey, silty-no silty, mod hard-hard, subfiss, non calc TR Limestone
S5064 CUTT	3960.0		70% Sand/Sandstone, pred med, also fine-v coarse, mode-poor sorted, subang, ang, I/P well sil cemented and hard, tr glauconite, pr vis poor 30% Shale, dark grey-brown grey, silty-no silty, mod hard-hard, subfiss, carbonac micromica, non calcareous TR Limestone TR Coal
S5077 CUTT	3978.0		80% Sand/sst, pred med-fine, mo-pr srtd, subang, I/P well sil cemented and hard, tr glau, pr vis por 20% Shale, dark grey-br. grey, silty-no sil mod hard-hard, subfiss, carb, micromica non calc TR Coal
S5065 CUTT	3990.0		80% Sand/Sandstone, clear-white quartz, san medium-coarse; sandstone predom fine, subrounded-subang, silica cemented and hard in parts, por-mod sorted, pr vis p 20% Shale, dark brown grey, occ silty, mod hard-hard, subfiss, occ carbonaceous, o micromica, non calcareous TR Pyrite, mica, limestone, coal
S5066 CUTT	4024.0		See core description

TABLE 2B LITHOLOGICAL DESCRIPTION OF CUTTINGS SAMPLES, WELL 6507/3-1.

Sample no.	Depth mRKB	TOC %	LITHOLOGY. Rock name, mod lith, colour, gr. size, sorting, roundness, matrix, cementation, hardness, accessories, fossils, porosity, contamination.
S5078 CUTT	4033.0		100% Sand/sst, clr-wh quartz, sst very fine-fine sand fine-coarse, hard-v hard when sil cemented else lse pr-mod srted, suba subrnd pr vis por TR Coal/carboneaceous shale TR SH, lst, pyr
S5067 CUTT	4050.0		70% Sand/Sandstone, clear-white quartz, sandstone v fine-fine, sand fine-coarse hard-v hard when sil cemented, else lse poor-mod sorted, subang-subrounded, pr vis poor 30% Shale, dark grey-brown grey-brown black silty, I/P grading to siltstone, occ sa subfiss, firm-hard, micromica, carb I/P non calcareous TR Coal/carbonaceous shale
S5079 CUTT	4063.0		30% Sand, clr-mlky quartz, med-coarse, mod-w sorted, subang-subrounded, lse 30% Sst, pred 30% Shale, dark grey-brown grey-brown black silty, I/P grading to sltst, occ sandy, subfiss, firm-hard, micromica, carb I/P non calc 10% Coal/carb shale, black, shiny-earty, brittle-v hard when shaly, conc frac wh clean coal TR Kaolinite
S5080 CUTT	4078.0		90% Sand/sst, clr-wh quartz, sst v fine-fin sd med, also fine-coarse, mod-well sorted subang-subrounded, sst is well sil cemented and hard & w/pr vis por but l sd dom 5% Shale, dark grey-brown grey-brown black silty I/P grading to sltst, occ sandy, subfiss, firm to hard, micromica, carb non calc 5% Coal/carb shale, black, shiny-earty, brittle to very hard when shaly, conc f
S5068 CUTT	4080.0		80% Sand/Sandstone, clear-white quartz, sandstone v fine-fine, sand medium, als fine-coarse, mod-well sorted, subang-subrounded, sandstone become more well sil cemented, hard & w/pr vis poor but sand dominance 15% Shale, dark grey-brown grey-brown black silty, I/P grading to siltstone, occ sa subfiss, firm-hard, micromica, carb I/P non calcareous GDTR Limestone TR Kaolinite

TABLE 3 TOC AND PYROLYSIS DATA, WELL 6507/3-1.

DEPTH mRKB	SAMPLE no.	S1	S2	TOC	HI	PP	PI	TMAX
1911,00	S5012	0,1	0,3	1,2	26	0,4	0,19	411
1915,00	S5013	0,1	0,3	0,9	36	0,4	0,20	410
1985,00	S5014	0,0	0,0	0,3	9	0,0	0,25	ND
3092,00	S5015	3,4	34,3	7,2	477	37,6	0,09	422
3096,00	S5016	5,2	43,2	8,0	538	48,4	0,11	423
3097,50	S5017	0,3	0,4	0,7	58	0,7	0,43	ND
3100,50	S5018	6,3	24,0	6,7	357	30,4	0,21	413
3105,00	S5019	4,9	43,3	8,6	504	48,2	0,10	424
3110,00	S5020	3,4	34,3	7,2	476	37,7	0,09	423
3111,00	S5021	3,4	34,4	7,0	489	37,8	0,09	423
3116,00	S5022	2,1	13,7	5,4	253	15,8	0,13	416
3123,80	S5023	0,2	0,9	1,6	59	1,1	0,19	432
3169,00	S5069	0,1	1,1	1,3	85	1,2	0,11	433
3223,00	S5070	0,2	2,3	1,5	153	2,5	0,09	435
3262,00	S5071	0,5	3,0	1,8	167	3,5	0,15	431
3312,00	S5072	0,3	2,7	1,6	169	3,0	0,09	433
3363,00	S5073	0,4	3,1	1,8	172	3,5	0,12	432
3411,00	S5074	0,3	2,2	1,4	157	2,4	0,10	430
3450,00	S5075	0,4	2,8	2,0	140	3,2	0,12	434
3513,00	S5076	0,3	2,7	1,6	169	3,1	0,11	434
3612,52	S4984	0,5	0,0			0,5	0,96	ND
3613,98	S4985	0,7	0,0			0,7	0,96	ND
3616,73	S4986	0,3	0,0			0,3	0,94	ND
3618,54	S4987	1,0	0,0			1,1	0,99	ND
3621,94	S4988	1,1	0,0			1,1	0,99	ND
3627,55	S4989	0,8	0,0			0,9	0,97	ND
3630,50	S4990	0,3	0,0			0,3	0,97	ND
3637,90	S4991	0,6	0,0			0,6	0,98	ND
3640,00	S4992	0,6	0,5			1,1	0,58	ND
3650,08	S4993	1,7	0,1			1,9	0,92	ND
3673,50	S4994	0,4	0,1			0,5	0,79	ND
3682,75	S4995	0,5	0,1			0,6	0,86	ND
3695,00	S4996	3,5	0,3			3,7	0,93	ND
3773,76	S4997	0,1	0,2			0,3	0,38	ND
3783,00	S4998	4,3	0,1			4,3	0,98	ND

TABLE 3 TOC AND PYROLYSIS DATA, WELL 6507/3-1.

DEPTH	SAMPLE							
mRKB	no.	S1	S2	TOC	HI	PP	PI	TMAX
3789,30	S5141	0,2	1,2			1,4	0,12	444
3791,98	S4999	0,0	0,0			0,0	0,50	ND
3801,98	S5000	0,0	0,0			0,1	0,40	ND
3815,50	S5001	0,0	0,0			0,0	0,33	ND
3824,75	S5002	0,0	0,0			0,0	1,00	ND
3835,00	S5003	0,0	0,0			0,0	0,67	ND
3978,00	S5077	0,0	0,1			0,1	0,22	ND
3995,50	S5004	0,0	0,1			0,1	0,33	ND
3998,70	S5005	1,4	3,9	3,1	124	5,2	0,26	446
4007,70	S5006	3,1	37,2	12,1	307	40,3	0,08	445
4009,50	S5007	0,1	0,1			0,2	0,33	ND
4010,70	S5008	10,8	68,2	23,5	290	79,0	0,14	448
4011,50	S5009	24,1	200,6	43,4	463	224,7	0,11	448
4013,50	S5010	0,0	0,0			0,1	0,20	ND
4020,50	S5011	1,1	6,1	4,1	149	7,2	0,15	447
4033,00	S5078	0,0	0,0			0,1	0,33	ND
4063,00	S5079	0,0	0,1			0,1	0,33	ND
4075,10	S4960*	23,5	154,5	62,1	249	177,9	0,13	445
4078,00	S5080	0,0	0,0			0,0	0,25	ND
4142,00	S5027*	0,3	0,5			0,8	0,33	ND
4175,50	S5024*	0,2	0,9	1,2	75	1,2	0,21	ND
4284,80	S5025*	0,5	2,1	2,4	88	2,5	0,19	455
4386,50	S5026*	0,1	0,9	1,5	55	1,0	0,12	ND
4446,40	S4961*	11,6	54,6	57,7	95	66,1	0,17	467
4493,00	S4962*	5,0	22,3	23,1	97	27,3	0,18	470

*; Sidetrack

HI=Hydrogenindex (mgHC/g TOC) // OI=Oxygenindex (mgCO₂/g TOC)
 PP=Productionpotential (kgHC/ton rock) // PI=Productionindex

TABLE 4 QUANTITATIVE PYROLYSIS DATA (%)

DEPTH	SAMPLE				
mRKB	No.	C1	C2-C5	C6-C14	C15+
3097,50	S5017	3,80	3,37	43,98	48,85
3105,00	S5019	2,49	9,58	32,90	55,02
3111,00	S5021	3,24	9,81	30,70	56,25
3998,70	S5005	8,77	12,95	32,72	45,55
4007,70	S5006	8,65	14,09	29,22	48,05
4010,70	S5008	12,12	14,83	26,33	46,72
4011,50	S5009	14,28	14,91	25,38	45,43
4020,50	S5011	8,72	12,92	31,98	46,38
4075,10	S4960	15,22	14,42	26,00	44,35
4175,50	S5024	10,63	16,49	35,34	37,54
4386,50	S5026	9,30	17,51	33,04	40,15
4446,40	S4961	20,55	16,12	27,36	35,97
4493,00	S4962	17,80	16,07	24,88	41,25

TABLE 5 VISUAL KEROGEN DESCRIPTIONS, WELL 6507/3-1.

S No	DEPTH	LIP	VIT	IN	AOM	
	m				Lip	Hum
	RKB				%	%
5015	3092	2	4	1	93	
5017	3097.5	12	30	3	55	
5019	3105	15	3	1	81	
5021	3111	4	10	2	84	
5072	3312	42	23	3	32	
5005	3998.7	50*	43	7		
5008	4010.7	32*	44	6	18	
5024	4175.5	38*	42	9		
5026	4386.5	15*	69	16		
4962	4493	10*	57	33		

* Degraded

TABLE 6 CONCENTRATION OF EXTRACTABLE ORGANIC MATTER (EOM) AND CHROMATOGRAPHIC FRACTIONS (PPM), WELL 6507/3-1.

DEPTH (mRKB)	SAMPLE NO.	TOT EOM	HYDROCARBONS			NON HYDROCARBONS		
			SAT	ARO	TOT	NSO	ASF	TOT
3096,00	S5016	8129	1340	1247	2587	3556	1986	5542
3100,50	S5018	7185	1163	2136	3299	2669	1217	3886
3110,00	S5020	6314	879	1344	2223	2860	1231	4091
3363,00	S5073	1558	223	398	621	334	603	937
3618,54	S4987	1474	999	290	1289	132	53	185
4007,70	S5006	8913	655	1611	2266	1129	5518	6647
4011,50	S5009	35588	2861	4249	7110	12036	16442	28478
4020,50	S5011	4563	974	1034	2008	1542	1013	2555
4446,40	S4961	54495	3700	2774	6474	17003	31013	48016

TABLE 7 NORMALISED COMPONENT GROUP COMPOSITION (%)
OF EXTRACTED ORGANIC C15+ MATTER, WELL 6507/3-1.

DEPTH (mRKB)	SAMPLE NO.	HYDROCARBONS			NON HYDROCARBONS		
		SAT	ARO	TOT	NSO	ASF	TOT
3096,00	S5016	16,48	15,34	31,82	43,74	24,43	68,18
3100,50	S5018	16,19	29,73	45,92	37,15	16,94	54,08
3110,00	S5020	13,92	21,29	35,21	45,30	19,50	64,79
3363,00	S5073	14,31	25,55	39,86	21,44	38,70	60,14
3618,54	S4987	67,77	19,67	87,45	8,96	3,60	12,55
3650,08	S4993*	75.80	16.70	92.50	6.60	0.90	7.50
4007,70	S5006	7,35	18,07	25,42	12,67	61,91	74,58
4011,50	S5009	8,04	11,94	19,98	33,82	46,20	80,02
4020,50	S5011	21,35	22,66	44,01	33,79	22,20	55,99
4446,40	S4961	6,79	5,09	11,88	31,20	56,91	88,11

*Iatroscan analysis

TABLE 8 GAS CHROMATOGRAPHIC DATA FROM EXTRACT FRACTIONS, WELL 6507/3-1

DEPTH (mRKB)	SAMPLE NO.	Pr nC17(A)	Ph nC18(B)	A B	Pr Ph	CPI1	CPI2	MPI1	MPI2	Rc
3096,00	S5016	2,93	2,05	1,45	1,43	0,80	0,60	1,04	0,84	1,02
3100,50	S5018	1,68	1,55	1,18	1,08	0,87	0,72	1,02	0,81	1,01
3110,00	S5020	2,50	1,97	1,51	1,27	1,13	1,17	1,19	0,93	1,11
3363,00	S5073	1,99	0,42	5,79	4,74	1,50	1,40	0,43	0,44	0,66
3618,54	S4987	0,59	0,30	1,89	1,97	1,11	1,08	1,18	1,24	1,1
3636,00	S5334	0,57	0,26	2,23	2,10	1,07	0,99	0,78	0,80	0,87
3650,08	S4993	0,53	0,26	1,93	2,04	1,08	0,95	1,48	1,36	1,29
3695,00	S4996	0,53	0,24	2,04	2,21	1,10	1,02			
3724,00	S5333	0,52	0,24	1,75	2,17	1,11	1,03	1,05	1,09	1,03
3783,00	S4998	0,56	0,25	2,29	2,24	1,07	1,00			
4007,70	S5006	1,00	0,25	3,66	4,00	1,17	1,13	0,73	0,87	0,84
4011,50	S5009	0,61	0,14	3,88	4,36	1,13	1,01	0,66	0,75	0,80
4020,50	S5011	0,53	0,15	3,47	3,53	1,05	0,92	0,73	0,88	0,84
4446,40	S4961	0,29	0,14	2,19	2,07	1,09	0,95	1,18	1,38	1,1

A/B = (pristane/n-C17) / (phytane/n-C18)

TABLE 9 PEAK HEIGHTS OF TRITERPANES FROM M/Z 191, WELL 6507/3-1.

DEPTH mRKB	SAMPLE No	27A	27B	29A	X	29B	30A	30B	31A	31B	32A	32B	33A	33B	34A
3096	S5016	29	90	136	19	22	223	46	107	74	54	33	60	41	43
3100.50	S5018	32	92	126	27	26	223	52	124	94	69	51	72	50	57
3110	S5020	33	85	142	21	36	224	60	114	84	60	45	67	47	46
3363	S5073	30	94	134	28	51	226	88	137	109	71	57	51	37	38
3618.54	S4987	74	46	115	49	13	252	28	77	53	49	35	28	16	14
3650.08	S4993	65	33	87	50	20	225	31	82	60	58	40	29	19	18
3695	S4996	63	45	109	51	24	218	29	77	55	53	31	31	20	18
3783	S4998	71	35	121	52	23	223	32	72	54	47	35	25	17	15
4007.7	S5006	63	73	126	212	65	192	29	86	70	70	52	32	21	15
4011.5	S5009	81	53	125	129	27	221	29	78	59	53	39	21	15	11
4020.5	S5011	95	92	80	213	61	193	29	82	57	67	48	34	23	16
4446.4	S4961	90	25	42	28	30	195	18	44	41	34	29	16	12	
3636	S5334	82	44	111	46	13	207	26	66	46	44	29	26	15	15
3724	S5333	65	43	113	47	22	214	32	82	62	52	37	33	20	13

TABLE 10 PEAK HEIGHTS OF STERANES FROM M/Z 217,
WELL 6507/3-1.

DEPTH mRKB	SAMPLE No	29e	29f	29g	29h
3096	S5016	57	40	30	80
3100.5	S5018	69	47	31	97
3110	S5020	100	44	32	136
3363	S5073	140	62	49	182
3618.54	S4987	65	87	82	62
3650.08	S4993	54	88	70	47
3695	S4996	75	107	92	73
3783	S4998	74	126	106	84
4007.7	S5006	146	161	131	128
4011.5	S5009	153	164	161	138
4020.5	S5011	65	90	77	63
4446.4	S4961	90	122	111	94
3636	S5334	59	91	88	55
3724	S5333	89	116	102	90

TABLE 11 PEAK HEIGHTS OF STERANES FROM M/Z 218, WELL 6507/3-1.

DEPTH mRKB	SAMPLE No	27f	27g	28f	28g	29f	29g
3096	S5016	171	150	197	155	95	94
3100.5	S5018	180	140	186	162	111	102
3110	S5020	164	128	167	159	97	91
3363	S5073	201	172	171	150	141	133
3618.54	S4987	200	163	148	183	138	157
3650.08	S4993	175	145	163	175	198	175
3695	S4996	204	162	172	190	187	180
3783	S4998	136	145	149	199	195	197
4007.7	S5006	27	60	63	76	212	176
4011.5	S5009	64	58	110	125	216	213
4020.5	S5011	147	138	156	144	193	182
4446.4	S4961	36	43	92	83	136	143
3636	S5334	194	158	160	187	160	175
3724	S5333	202	187	183	204	177	184

TABLE 12 MOLECULAR RATIOS FROM STERANE AND TERPANE MASS CHROMATOGRAMS. MATURITY AND SOURCE CHARACTERISTIC RATIOS. WELL 6507/3-1.

DEPTH mRKB	SAMPLE No	% Ts ¹	29A/30A ²	%27 ³ f+g	%28 f+g	%29 f+g	δ 22S ⁴
3096	S5016	24.37	0.61	37.2	40.8	21.9	1.43
3100.50	S5018	25.81	0.57	36.3	39.5	24.2	1.34
3110	S5020	27.97	0.63	36.2	40.4	23.3	1.42
3363	S5073	24.19	0.59	38.5	33.2	28.3	1.55
3618.54	S4987	61.67	0.46	36.7	33.5	29.8	1.77
3636	S5334	65.08	0.54	34.0	33.6	32.4	1.64
3650.08	S4993	66.33	0.39	31.0	32.8	36.2	1.67
3695	S4996	58.33	0.50	33.4	33.1	33.5	1.63
3724	S5333	60.19	0.53	34.2	34.0	31.8	1.90
3783	S4998	66.98	0.54	27.5	34.1	38.4	1.69
4007.7	S5006	46.32	0.66	14.2	22.6	63.2	1.85
4011.5	S5009	60.45	0.57	15.5	29.9	54.6	1.97
4020.5	S5011	50.80	0.41	29.7	31.3	39.1	1.77
4446.4	S4961	78.26	0.22	14.8	32.8	52.3	n.d.

1) $100 \times 27A / (27A + 27B)$ in m/z 191.

2) 29A/30A in m/z 191.

3) Weight % distribution of C27, C28 and C29 steranes in m/z 218 (27f+27g, 28f+28g, 29f+29g).

4) $[(31A/32A) + (32A/33A) + (33A/34A)] / 3$ in m/z 191.

TABLE 13 MOLECULAR RATIOS FROM STERANE AND TERPANE MASS
CHROMATOGRAMS. MATURITY RATIOS. WELL 6507/3-1.

DEPTH mRKB	SAMPLE No	$\alpha\beta/\alpha\beta+\beta\alpha^a$	% 22S ^b	% $\beta\beta^c$	% 20S ^d	Ttx ^e
3096	S5016	82.90	60.20	33.82	41.61	46.34
3100.50	S5018	81.09	57.80	31.97	41.57	50.94
3110	S5020	78.87	57.83	24.36	42.37	36.84
3363	S5073	71.97	56.37	25.64	43.48	35.44
3618.54	S4987	90.00	60.40	57.09	51.18	79.03
3636	S5334	88.84	60.87	61.09	51.75	77.97
3650.08	S4993	87.89	59.12	61.00	53.47	71.43
3695	S4996	88.26	60.74	57.35	50.68	68.00
3724	S5333	86.99	59.21	54.91	49.72	68.12
3783	S4998	87.45	57.99	59.49	46.84	69.33
4007.7	S5006	86.88	57.63	51.59	53.28	76.53
4011.5	S5009	88.40	57.63	52.76	52.58	82.69
4020.5	S5011	86.94	58.97	56.61	50.78	77.74
4446.4	S4961	91.55	54.29	55.88	48.91	48.28

a) $100 \times 30A / (30A + 30B)$ in m/z 191.

b) $100 \times [\{ 31A / (31A + 31B) \} + \{ 32A / (32A + 32B) \} + \{ 33A / (33A + 33B) \}] / 3$ in
m/z 191.

c) $100 \times (29f + 29g) / (29f + 29g + 29e + 29h)$ in m/z 217.

d) $100 \times 29e / (29e + 29h)$ in m/z 217.

e) $100 \times x / (x + 29B)$ in m/z 191.

TABLE 14 CARBON ISOTOPE DATA FOR KEROGEN, EOM/OIL AND FRACTIONS, WELL 6507/3-1.



<u>Code</u>	<u>EOM/Oil</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>NSO</u>	<u>Asphaltenes</u>	<u>Kerogen</u>	<u>Sample</u>
S - 4961	-25.22	-26.75	-25.23	-25.55	-25.23	-25.24	0009-0
S - 4993	-27.23	-27.73	-26.84	-26.61	-25.35	-	0004-0
S - 5006	-25.16	-26.95	-25.10	-25.58	-24.88	-24.83	0007-0
S - 5009	-25.37	-27.83	-25.38	-25.88	-25.38	-25.09	0014-0
S - 5011	-24.90	-27.72	-25.12	-25.34	-24.59	-24.42	0008-0
S - 5016	-30.76	-32.08	-31.55	-30.03	-28.29	-29.44	0001-0
S - 5073	-25.37	-26.86	-25.73	-25.37	-24.77	-24.60	0003-0
S - 5333	-27.65	-28.12	-26.90	-26.90	-27.42	-	0010-0
S - 5334	-26.88	-27.61	-26.38	-27.17	-26.49	-	0011-0
S - 4962	-	-	-	-	-	-25.77	0001-0
S - 5005	-	-	-	-	-	-24.53	0002-0
S - 5008	-	-	-	-	-	-25.00	0003-0
S - 5015	-	-	-	-	-	-29.66	0004-0
S - 5017	-	-	-	-	-	-24.52	0005-0
S - 5019	-	-	-	-	-	-29.20	0006-0
S - 5021	-	-	-	-	-	-28.36	0007-0
S - 5023	-	-	-	-	-	-22.11	0008-0
S - 5024	-	-	-	-	-	-24.51	0009-0
S - 5026	-	-	-	-	-	-25.34	0010-0
S - 5072	-	-	-	-	-	-24.20	0011-0

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TABLE 15 CV-VALUES FROM CARBON ISOTOPE DATA, WELL 6507/3-1.

<u>Code</u>	<u>Saturated</u>	<u>Aromatic</u>	<u>cv value</u>	<u>Sample</u>
S - 4961	-26.75	-25.23	0.02	0009-0
S - 4993	-27.73	-26.84	-1.08	0004-0
S - 5006	-26.95	-25.10	0.81	0007-0
S - 5009	-27.83	-25.38	2.42	0014-0
S - 5011	-27.72	-25.12	2.72	0008-0
S - 5016	-32.08	-31.55	-0.53	0001-0
S - 5073	-26.86	-25.73	-0.81	0003-0
S - 5333	-28.12	-26.90	-0.22	0010-0
S - 5334	-27.61	-26.38	-0.36	0011-0

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TABLE 16 VITRINITE REFLECTANCE MEASUREMENTS, WELL 6507/3-1.

Sample No	Depth mRKB	Vitrinite reflectance		
		%R _m (N)	reliability	sample quality
S4964	905	0.27 (6)	L	IIIHL
S4965	975	0.26 (4)	L	IIIHL
S4966	1120	0.30 (7)	L	IIIHL
S4967	1250	0.31 (1)	L	ILHIL
S4968	1350	0.37 (4)	L	LIHIL
S4969	1455	0.32 (1)	L	LIILL
S4970	1560	0.35 (3)	L	LIILL
S4971	1645	0.34 (7)	L	LLHIL
S4972	1745	- (0)		
S4973	1825	- (0)		
S4974	1909	- (0)		
S4975	2011.5	0.46 (1)	L	LLHIL
S4976	2110.5	0.44 (11)	M	LLIII
S4977	2240.8	0.46 (12)	M	LLIII
S4978	2370	0.47 (10)	M	LLIII
S4979	2495	0.51 (10)	L	LLHII
S4980	2783.5	0.55 (19)	M	LLIII
S4981	2830	0.57 (21)	M	LIIII
S4982	2924	0.56 (10)	M	LLIII
S4983	3007	0.64 (7)	L	LLHIL
S5015	3096	0.57 (10)*	M	IILLI
S5018	3100.5	0.52 (5)*	M	IILLI
S5019	3105	0.55 (13)*	M	IILLI
S5021	3111	0.57 (14)*	M	IILLI
S5022	3116	0.61 (12)*	M	IILLI
S4960	4075.1	0.76 (30)	H	IIIII
S4961	4446.4	1.01 (27)	H	IIIII
S4962	4493	1.09 (20)	H	IIIII

*Analysed at IFE

N : number of readings

Reliability:

H: high

M: medium

L: low

Sample quality:

item 1: particle surface quality

item 2: particle size

item 3: type of vitrinite

item 4: identification of vitrinite

item 5: abundance of vitrinite

L: may give a too low vitrinite reflectance value

I: has no effect on the resulting vitrinite reflectance value -

H: may give a too high vitrinite reflectance value

TABLE 18 HEADSPACE GAS ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1.

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+
S5028	1200.00	20153	49	28	17	17	60
S5029	1230.00	7830	37	19	14	11	39
S5030	1260.00	65047	84	39	23	19	64
S5031	1290.00	15774	31	19	12	14	39
S5032	2820.00	14965	3063	2396	554	710	778
S5033	2850.00	23450	4813	3498	701	910	877
S5034	2880.00	21598	4642	4440	953	1384	1692
S5035	2910.00	18191	3645	3724	882	1322	1867
S5036	2940.00	12663	2910	2814	720	990	1520
S5037	2970.00	11667	2434	2551	621	926	1422
S5038	3000.00	3894	678	756	181	257	335
S5039	3030.00	7996	1984	3060	879	1499	2588
S5040	3060.00	2448	669	945	236	397	738
S5041	3090.00	18258	6597	7465	1093	2252	1676
S5042	3120.00	27153	4176	4305	579	1116	668
S5043	3150.00						
S5044	3180.00	4199	759	1102	198	358	185
S5045	3210.00	818	296	604	108	214	155
S5046	3240.00	3702	511	1382	367	691	498
S5047	3450.00	11223	3081	4280	445	879	374
S5048	3480.00	4240	2776	4242	390	813	313
S5049	3510.00	4235	1555	2336	259	498	176
S5050	3540.00	6124	1852	1849	150	305	99
S5051	3570.00	3987	1560	1411	128	270	152
S5052	3600.00	4437	1851	1589	176	357	254
S5053	3630.00	7835	2221	1819	352	611	1342
S5054	3660.00	542	216	184	30	55	137

TABLE 18 HEADSPACE GAS ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1.

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+
S5055	3690.00	5419	1558	1277	175	299	312
S5056	3720.00	909	263	219	30	52	62
S5057	3750.00	1751	931	1102	196	359	549
S5058	3780.00	3409	1095	1314	187	389	691
S5059	3810.00	2477	838	1023	130	270	410
S5060	3840.00	4047	1015	1150	140	270	189
S5061	3870.00	2390	510	623	86	156	107
S5062	3900.00	806	132	150	25	48	61
S5063	3930.00	9722	1187	400	48	82	75
S5064	3960.00	415	51	19	2	3	3
S5065	3990.00	7034	1112	325	31	43	37
S5081	3990.00	1278	249	296	73	159	148
S5082	4020.00	12862	1689	412	30	64	67
S5066	4024.00	433	49	22	3	5	4
S5067	4050.00						
S5083	4050.00	37262	4354	1090	66	108	62
S5068	4080.00	18	2	1	0	0	0
S5084	4080.00	38733	5409	1253	71	113	56
S5085	4110.00	2790	270	54	3	4	3
S5086	4140.00	105	9	2	0	0	0
S5087	4170.00	2124	186	38	2	3	2
S5088	4200.00	103830	5488	775	29	79	67
S5089	4230.00	31898	3448	678	31	58	47
S5090	4260.00	52904	6261	909	41	66	48
S5091	4290.00	59143	9639	1987	97	171	89
S5092	4320.00	33826	3782	477	23	30	26
S5092A	4350.00	20539	1878	276	15	22	16
S5093	4380.00	29373	3026	481	24	47	51
S5094	4410.00	127152	9035	1373	69	113	53
S5095	4440.00	165692	12530	2073	119	170	75
S5096	4470.00	178292	13697	1762	89	132	57

TABLE 18 HEADSPACE GAS ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1.

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+
S5097	4500.00	196095	11602	956	60	60	36
S5098	4530.00	89185	5769	479	25	31	19
S5099	4560.00	51067	4793	488	30	39	23
S5100	4590.00	52059	3446	220	12	14	13
S5101	4620.00	1295	65	5	0	0	0
S5102	4650.00	15953	1360	140	9	18	22
S5103	4680.00	18203	1129	100	6	7	6
S5104	4710.00	916	38	2	0	0	0
S5105	4740.00	27426	1571	111	5	8	12

TABLE 19 OCCLUDED GAS ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1.

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+
S5028	1200.00	381	24	13	5	11	26
S5029	1230.00	409	24	12	8	0	18
S5030	1260.00	288	16	9	4	0	14
S5031	1290.00	116	3	2	0	0	4
S5032	2820.00	62	13	51	27	66	190
S5033	2850.00	1024	561	637	388	576	1612
S5034	2880.00	426	110	331	168	446	2329
S5035	2910.00	255	60	226	129	388	2538
S5036	2940.00	440	120	448	219	595	3096
S5037	2970.00	373	70	261	155	452	2027
S5038	3000.00	425	77	281	147	424	1762
S5039	3030.00	186	107	554	316	998	7621
S5040	3060.00	7	2	8	3	14	202
S5041	3090.00	34	29	127	36	119	449
S5042	3120.00	22	9	21	12	33	179
S5043	3150.00	485	370	1436	347	995	633
S5044	3180.00	408	133	549	181	514	575
S5045	3210.00	863	272	1962	803	2211	2498
S5046	3240.00	953	242	2152	1037	2895	3388
S5047	3450.00	1027	1304	6170	1305	3732	3009
S5048	3480.00	625	651	4486	1016	3023	2999
S5049	3510.00	440	762	3964	1013	2784	2367
S5050	3540.00	516	1159	4742	745	2388	1808
S5051	3570.00	465	1301	4923	790	2412	1803
S5052	3600.00	463	836	4036	911	2811	3123
S5053	3630.00	1347	611	2166	682	2087	8133
S5054	3660.00	2890	792	2571	742	2219	4445

TABLE 19 OCCLUDED GAS ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1.

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+
S5055	3690.00	444	1281	5346	1651	4413	6389
S5056	3720.00	560	247	1788	760	2331	7663
S5057	3750.00	740	603	3109	1205	3533	1690
S5058	3780.00	8178	442	1706	598	1863	4622
S5059	3810.00	1691	523	2957	860	2584	3499
S5060	3840.00	589	867	4638	1200	3502	3389
S5061	3870.00	728	702	3723	1132	3262	4366
S5062	3900.00	859	312	2162	792	2404	4075
S5063	3930.00	1591	3281	2746	442	1357	2160
S5064	3960.00	1073	2227	2436	542	1501	2490
S5065	3990.00	3776	9384	7088	739	2155	2548
S5081	3990.00	816	190	366	136	473	1401
S5082	4020.00	5559	10780	7778	534	1715	1101
S5066	4024.00	2079	2519	2696	611	1714	2980
S5067	4050.00	8368	21814	12016	758	1872	957
S5083	4050.00	27344	30713	16353	1054	2630	1066
S5068	4080.00	46612	52278	23456	1452	3167	1170
S5084	4080.00	35885	47023	21955	1371	2563	717
S5085	4110.00	33744	43298	18895	1153	2002	524
S5086	4140.00	45474	52917	22449	1258	2424	621
S5087	4170.00	49536	52960	21841	1211	2714	850
S5088	4200.00	16	15	6	0	0	0
S5089	4230.00	11009	8868	4352	241	737	351
S5090	4260.00	35498	49166	16253	954	1589	437
S5091	4290.00	57274	61611	18363	1083	1826	565
S5092	4320.00	5	6	2	0	0	5
S5092A	4350.00	29865	25433	7982	485	838	250
S5093	4380.00	1540	3022	1647	103	322	222
S5094	4410.00	204780	124771	30795	1537	2496	484
S5095	4440.00	1481	1271	397	23	38	16
S5096	4470.00	1309	662	116	6	8	1

TABLE 19 OCCLUDED GAS ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1.

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+
S5097	4500.00	2736	1313	180	13	11	0
S5098	4530.00	146231	84613	11184	716	625	150
S5099	4560.00	887	805	147	11	10	0
S5100	4590.00	79423	47545	5820	436	310	91
S5101	4620.00	22623	16545	3683	325	425	203
S5102	4650.00	4983	5825	1723	151	249	135
S5103	4680.00	17544	13276	3242	218	356	120
S5104	4710.00	9501	5177	971	73	96	37
S5105	4740.00	10561	7855	1579	117	177	74

TABLE 20 SUM HEADSPACE AND OCCLUDED GAS CONCENTRATION ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+	SUM C1-C4	IC4/NC4	Witness
				1200,00-						
S5028	1200,00	20534	73	40	23	28	86	20698	0,82	0,79
S5029	1230,00	8239	60	31	22	11	57	8363	2,00	1,48
				1251,00-1358,00						
S5030	1260,00	65335	100	48	28	19	77	65530	1,47	0,30
S5031	1290,00	15890	34	21	12	14	43	15971	0,86	0,51
				2809,00-2844,50						
S5032	2820,00	15028	3077	2447	581	776	967	21909	0,75	31,41
S5033	2850,00	24474	5374	4134	1089	1486	2489	36557	0,73	33,05
				2844,50-3018,00						
S5034	2880,00	22024	4752	4771	1121	1830	4021	34498	0,61	36,16
S5035	2910,00	18445	3705	3950	1011	1710	4405	28821	0,59	36,00
S5036	2940,00	13103	3031	3261	939	1585	4616	21919	0,59	40,22
S5037	2970,00	12040	2504	2812	776	1378	3448	19510	0,56	38,29
S5038	3000,00	4318	755	1038	327	681	2096	7119	0,48	39,35
				3018,00-3088,00						
S5039	3030,00	8182	2090	3614	1195	2497	10209	17578	0,48	53,45
S5040	3060,00	2455	671	953	240	412	940	4731	0,58	48,11
				3088,00-3122,00						
S5041	3090,00	18292	6627	7592	1130	2371	2125	36012	0,48	49,21
S5042	3120,00	27175	4185	4325	591	1149	847	37425	0,51	27,39
				3122,00-3611,00						
S5043	3150,00	485	370	1436	347	995	633	3633	0,35	86,65
S5044	3180,00	4607	892	1651	379	872	761	8401	0,43	45,16
S5045	3210,00	1681	568	2566	911	2425	2652	8151	0,38	79,38
S5046	3240,00	4655	753	3534	1404	3586	3886	13932	0,39	66,59
S5047	3450,00	12250	4386	10450	1750	4611	3383	33447	0,38	63,37
S5048	3480,00	4865	3427	8728	1406	3836	3312	22262	0,37	78,15
S5049	3510,00	4675	2317	6300	1273	3282	2544	17847	0,39	73,81
S5050	3540,00	6640	3010	6591	895	2693	1907	19829	0,33	66,51
S5051	3570,00	4452	2861	6334	918	2682	1955	17247	0,34	74,19

TABLE 20 SUM HEADSPACE AND OCCLUDED GAS CONCENTRATION ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+	SUM C1-C4	IC4/NC4	Wetness
S5052	3600,00	4900	2687	5625	1087	3168	3377	17467	0,34	71,95
				3611,00-3639,50						
S5053	3630,00	9182	2831	3985	1034	2698	9475	19730	0,38	53,46
				3639,50-3670,00						
S5054	3660,00	3431	1008	2755	772	2274	4582	10240	0,34	66,49
				3670,00-3727,00						
S5055	3690,00	5863	2839	6623	1825	4713	6701	21863	0,39	73,18
S5056	3720,00	1470	511	2008	790	2383	7726	7162	0,33	79,48
				3743,00-3778,00						
S5057	3750,00	2491	1534	4211	1402	3893	12239	13531	0,36	81,59
				3778,00-3783,00						
S5058	3780,00	11587	1537	3020	785	2252	5312	19181	0,35	39,59
				3783,00-3988,00						
S5059	3810,00	4168	1361	3980	990	2854	3909	13353	0,35	68,79
S5060	3840,00	4636	1882	5789	1340	3772	3578	17419	0,36	73,39
S5061	3870,00	3118	1211	4346	1218	3418	4474	13311	0,36	76,58
S5062	3900,00	1665	444	2313	817	2452	4136	7691	0,33	78,35
S5063	3930,00	11313	4469	3146	491	1439	2236	20858	0,34	45,76
S5064	3960,00	1488	2278	2455	544	1504	2493	8269	0,36	82,01
				3988,00-4757,00						
S5065	3990,00	10810	10496	7413	770	2199	2585	31688	0,35	65,89
S5081	3990,00	2094	439	662	210	632	1549	4037	0,33	48,13
S5082	4020,00	18422	12469	8190	564	1779	1167	41424	0,32	55,53
S5066	4024,00	2512	2568	2718	614	1719	2984	10131	0,36	75,20
S5067	4050,00	8368	21814	12016	758	1872	957	44828	0,40	81,33
S5083	4050,00	64606	35067	17443	1119	2738	1128	120973	0,41	46,59
S5068	4080,00	46630	52280	23457	1452	3167	1170	126986	0,46	63,28
S5084	4080,00	74618	52432	23208	1443	2676	773	154377	0,54	51,67
S5085	4110,00	36534	43568	18949	1156	2006	526	102213	0,58	64,26
S5086	4140,00	45578	52925	22451	1259	2425	621	124638	0,52	63,43
S5087	4170,00	51660	53146	21879	1213	2717	852	130615	0,45	60,45

TABLE 20 SUM HEADSPACE AND OCCLUDED GAS CONCENTRATION ($\mu\text{L}/\text{kg}$ sample), WELL 6507/3-1

SAMPLE NO.	DEPTH (mRKB)	C1	C2	C3	IC4	NC4	C5+	SUM C1-C4	IC4/NC4	Wetness
S5088	4200,00	103846	5503	781	29	79	67	110238	0,37	5,80
S5089	4230,00	42907	12316	5030	271	795	397	61319	0,34	30,03
S5090	4260,00	88402	55428	17161	995	1655	485	163641	0,60	45,98
S5091	4290,00	116417	71250	20350	1180	1997	654	211194	0,59	44,88
S5092	4320,00	33831	3788	479	23	30	31	38151	0,77	11,32
S5092A	4350,00	50405	27312	8259	500	860	266	87336	0,58	42,29
S5093	4380,00	30914	6048	2128	128	368	273	39586	0,35	21,91
S5094	4410,00	331932	133806	32168	1606	2608	537	502120	0,62	33,89
S5095	4440,00	167172	13801	2469	142	208	91	183792	0,68	9,04
S5096	4470,00	179601	14360	1878	95	140	58	196074	0,68	8,40
S5097	4500,00	198831	12915	1135	73	71	36	213025	1,03	6,66
S5098	4530,00	235415	90382	11663	741	656	168	338857	1,13	30,53
S5099	4560,00	51954	5597	635	41	49	23	58276	0,84	10,85
S5100	4590,00	131482	50991	6040	448	323	103	189284	1,39	30,54
S5101	4620,00	23918	16610	3688	326	425	203	44967	0,77	46,81
S5102	4650,00	20936	7185	1863	160	267	157	30411	0,60	31,16
S5103	4680,00	35747	14405	3342	224	363	126	54081	0,62	33,90
S5104	4710,00	10417	5215	973	74	97	38	16776	0,76	37,91
S5105	4740,00	37986	9426	1689	122	185	86	49408	0,66	23,12

TABLE 21 THERMAL EXTRACTION, WELL 6507/3-1.

DEPTH (mRKB)	SAMPLE NO.	<u>Pr</u> nC17(A)	<u>Ph</u> nC18(B)	<u>A</u> B	<u>Pr</u> Ph
3627,55	S4989	0,62	0,27	2,33	2,25
3637,90	S4991	0,60	0,25	2,41	2,43
3682,75	S4995	0,64	0,29	2,21	2,40

TABLE 22 DATA ON DST SAMPLES, WELL 6507/3-1.

	DST 2 3690 - 3724	DST 3 3611 - 3636
Density, g/cm ₃	0.8489	0.8110
°API gravity	35	42
GOR, Sm ³ /Sm ³		3489
%C ₁₅₊	88.2	56.1
%Aliphatics	70.1	73.8
%Aromatics	23.7	25.6
%NSO	4.7	0.5
%Asphaltenes	1.5	0.1
%Hydrocarbons	93.8	99.4
%Non-hydrocarbons	6.2	0.6
Pristane/nC ₁₇ (A)	0.52	0.57
Phytane/nC ₁₈ (B)	0.24	0.26
A/B	1.75	2.23
Pristane/phytane	2.17	2.10
CPI1	1.11	1.07
CPI2	1.03	0.99
MPI1	1.05	0.78
MPI2	1.09	0.80
Rc	1.03	0.87
%Ts	60.19	65.08
29A/30A	0.53	0.54
%27	34.2	34.0
%28	34.0	33.6
%29	31.8	32.4
δ 22S	1.90	1.64
αβ/αβ+ββ	86.99	88.98
%22S	59.21	60.87
%ββ	54.91	61.09
%20S	49.72	51.75
Ttx	68.12	77.97
δ ¹³ C, o/oo PDB:		
whole oil/condens.	-27.65	-26.88
saturated	-28.12	-27.61
aromatic	-26.90	-26.38
NSO	-26.90	-27.17
asphalthenes	-27.62	-26.49