

Geochemistry Data Report –
VR Analysis of 35 DC and COCH
Samples from Well 7226/2-1 including
T2 and T3



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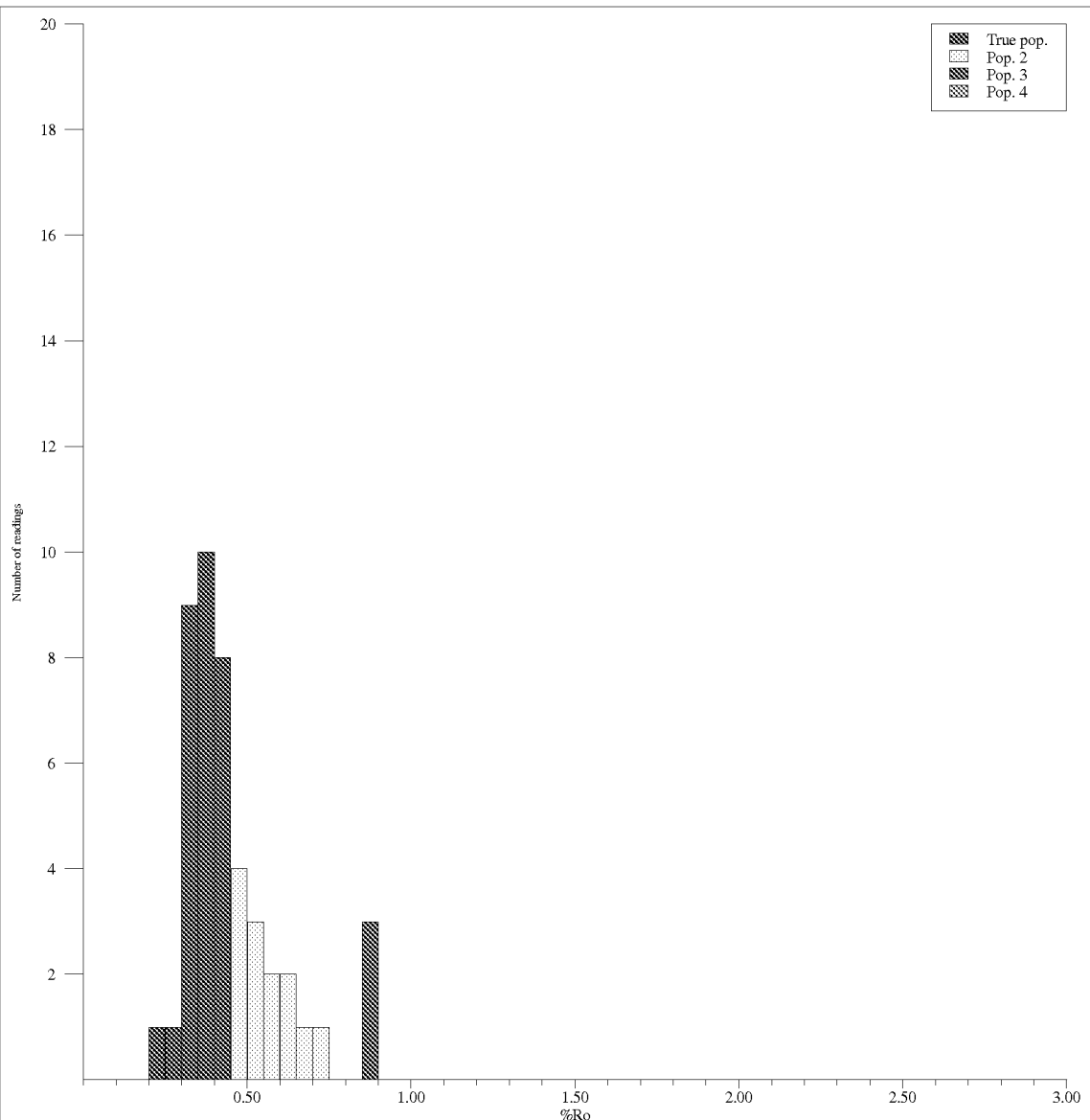
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Table 1. Number of analyses performed

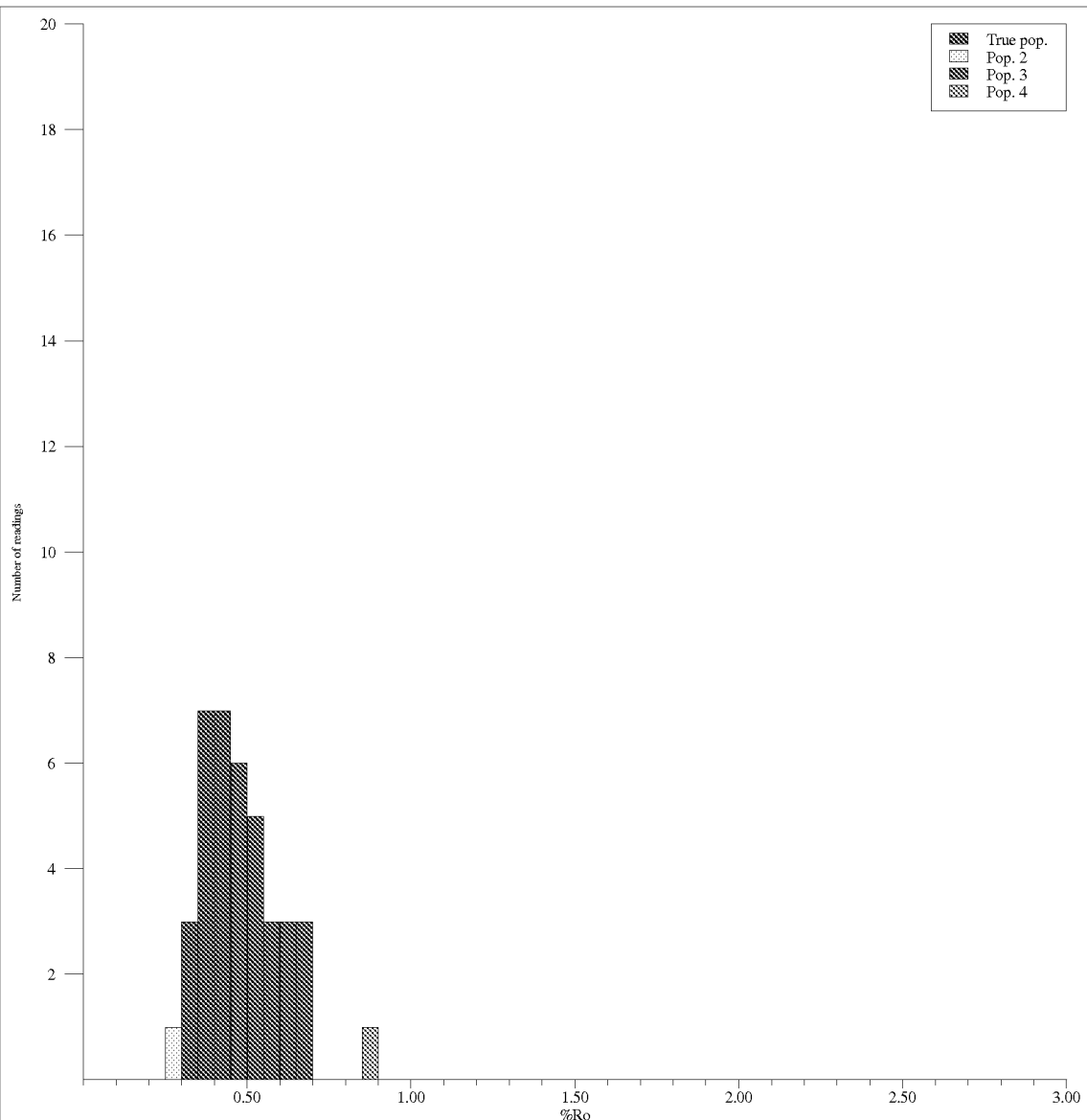
Analysis	Cuttings	Core	Total
Vitrinite reflectance	24	11	35



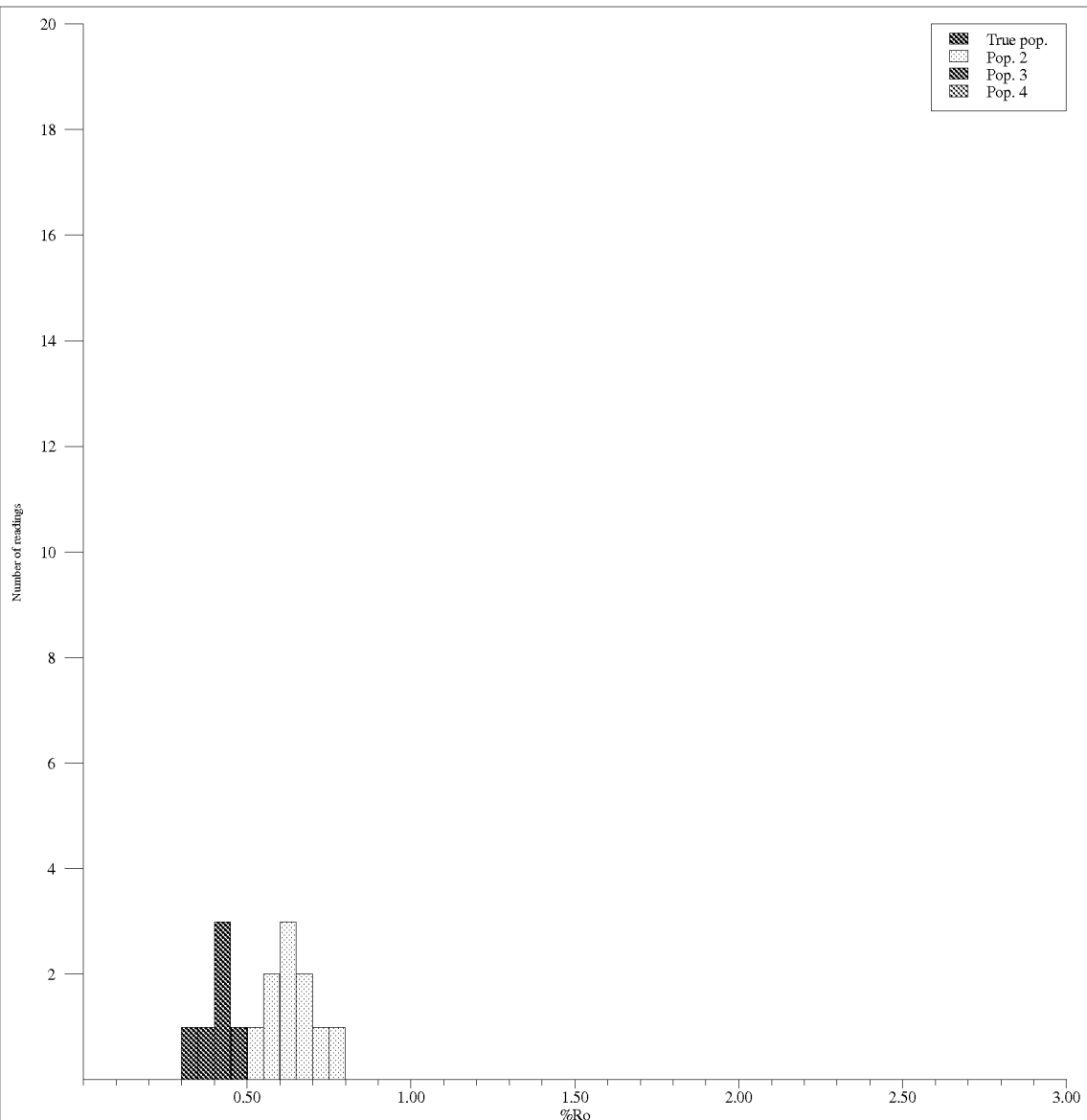
Vitrinite Reflectance Sample Data Sheets



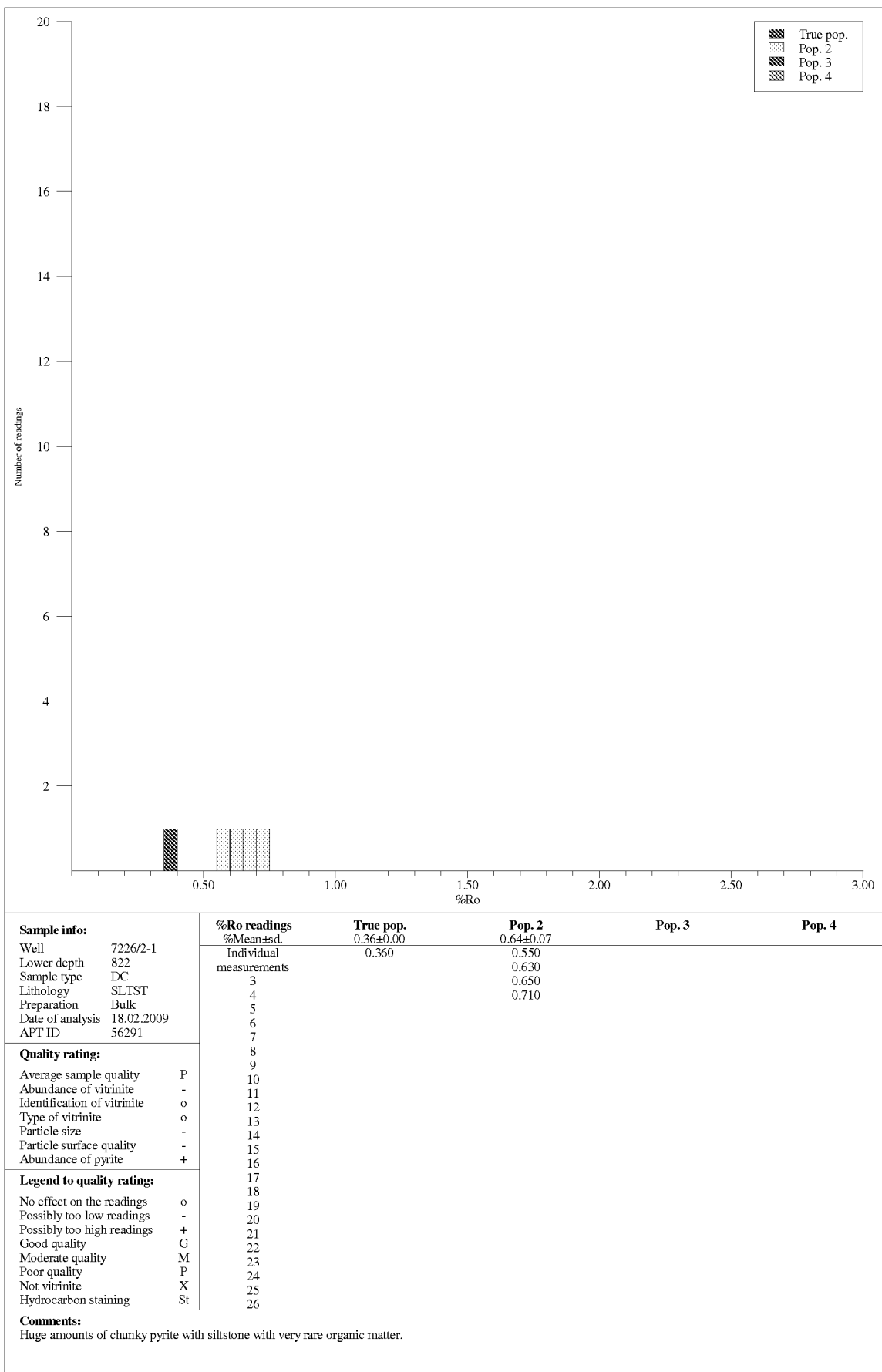
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.36±0.05	0.55±0.08	0.86±0.01	
Lower depth	558	Individual	0.240 0.440	0.470	0.850	
Sample type	DC	measurements	0.280 0.440	0.470	0.860	
Lithology	SH	3	0.300 0.440	0.480	0.860	
Preparation	Bulk	4	0.300	0.490		
Date of analysis	24.02.2009	5	0.300	0.500		
APT ID	56288	6	0.310	0.520		
Quality ratings:		7	0.320	0.540		
		8	0.320	0.550		
		9	0.320	0.570		
		10	0.330	0.610		
		11	0.340	0.620		
		12	0.350	0.660		
		13	0.350	0.710		
		14	0.350			
		15	0.360			
		16	0.360			
Legend to quality ratings:		17	0.360			
		18	0.360			
		19	0.370			
		20	0.380			
		21	0.380			
		22	0.410			
		23	0.420			
		24	0.420			
		25	0.420			
		26	0.430			
Comments:		Organic matter is abundant in silty shale, but includes much reworked material.				

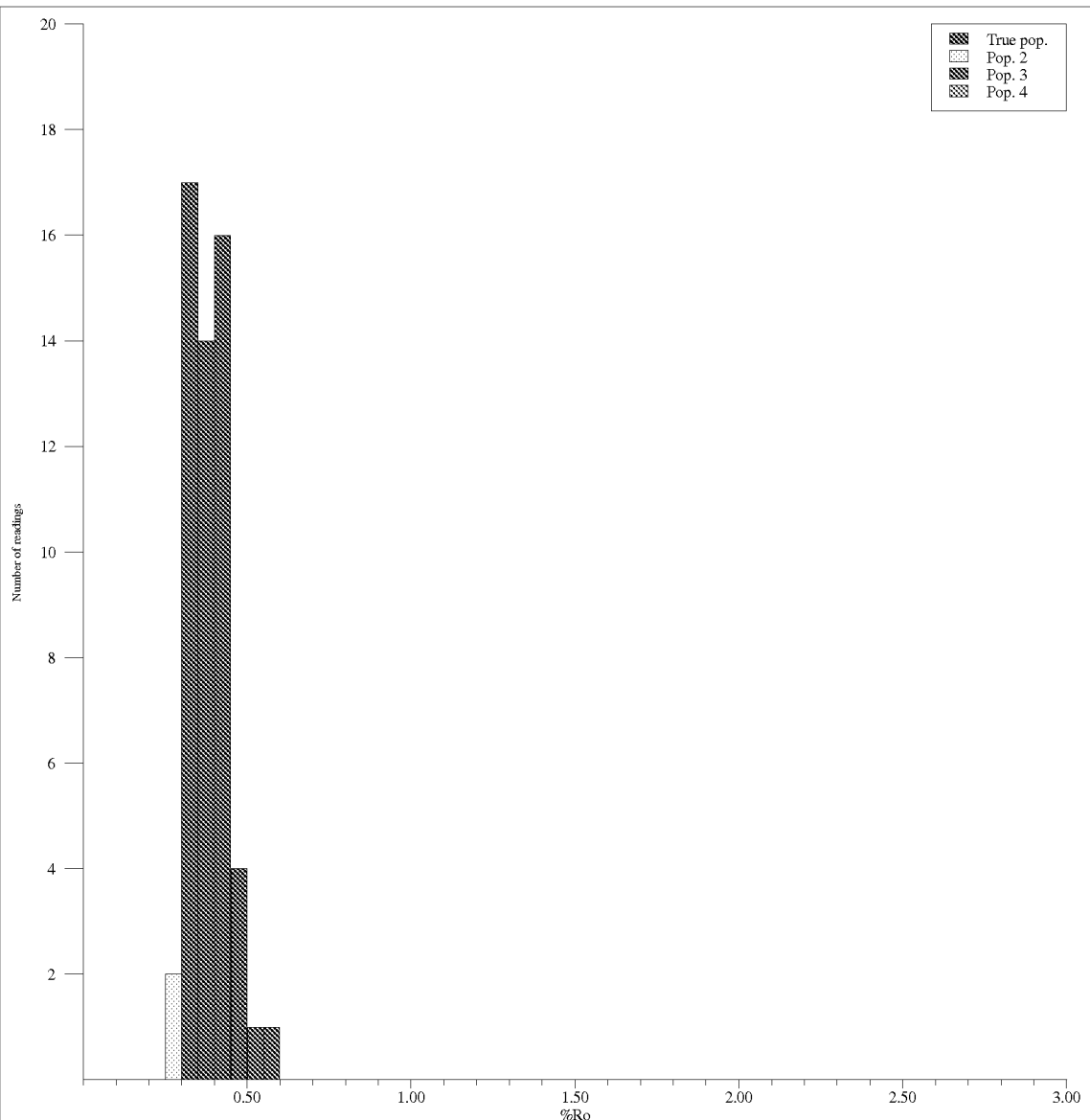


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.38±0.04	0.28±0.00	0.55±0.07	0.88±0.00
Lower depth	654	Individual	0.320	0.280	0.460	0.880
Sample type	DC	measurements	0.330		0.460	
Lithology	SH	3	0.340		0.460	
Preparation	Bulk	4	0.350		0.460	
Date of analysis	24.02.2009	5	0.350		0.470	
APT ID	56289	6	0.350		0.480	
Quality ratings:		7	0.360		0.500	
		8	0.370		0.510	
		9	0.370		0.510	
		10	0.390		0.520	
		11	0.400		0.540	
		12	0.400		0.560	
		13	0.410		0.560	
		14	0.420		0.590	
		15	0.420		0.600	
		16	0.430		0.620	
Legend to quality ratings:		17	0.440		0.620	
		18			0.650	
		19			0.670	
		20			0.680	
		21				
		22				
		23				
		24				
		25				
		26				
Comments:		Organic matter is fairly common in silty shale. Convincing vitrinite is not abundant.				

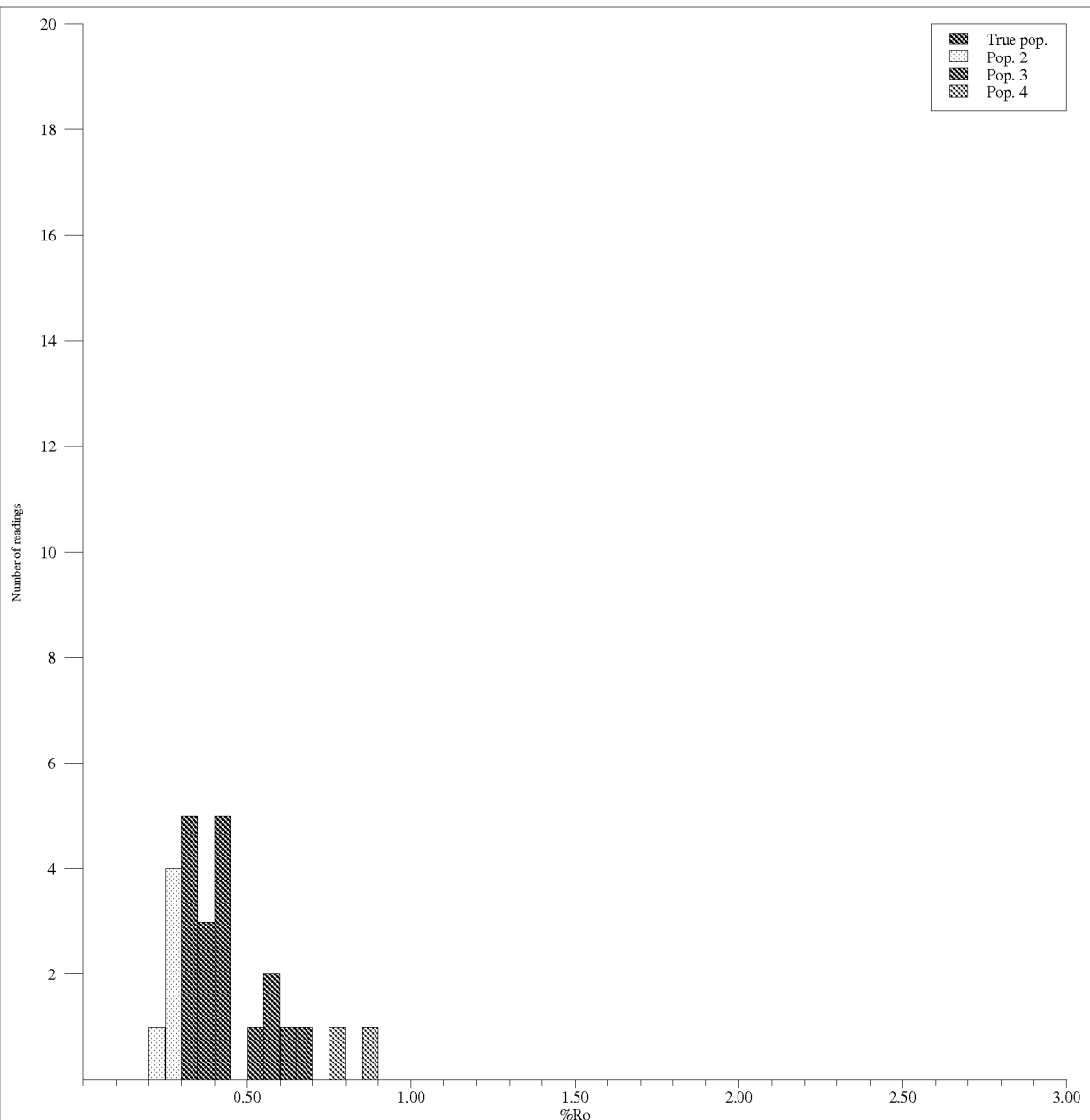


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.41±0.05	0.63±0.08		
Lower depth	783	Individual	0.340	0.510		
Sample type	DC	measurements	0.370	0.560		
Lithology	SH	3	0.410	0.570		
Preparation	Bulk	4	0.420	0.600		
Date of analysis	24.02.2009	5	0.430	0.610		
APT ID	56290	6	0.470	0.640		
Quality ratings: Average sample quality M Abundance of vitrinite - Identification of vitrinite o Type of vitrinite o Particle size o Particle surface quality o Abundance of pyrite o		7		0.650		
		8		0.670		
		9		0.740		
		10		0.760		
		11				
		12				
		13				
		14				
		15				
		16				
Legend to quality ratings: No effect on the readings o Possibly too low readings - Possibly too high readings + Good quality G Moderate quality M Poor quality P Not vitrinite X Hydrocarbon staining St		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
Comments:		Organic matter is fairly common but convincing vitrinite is very rare.				

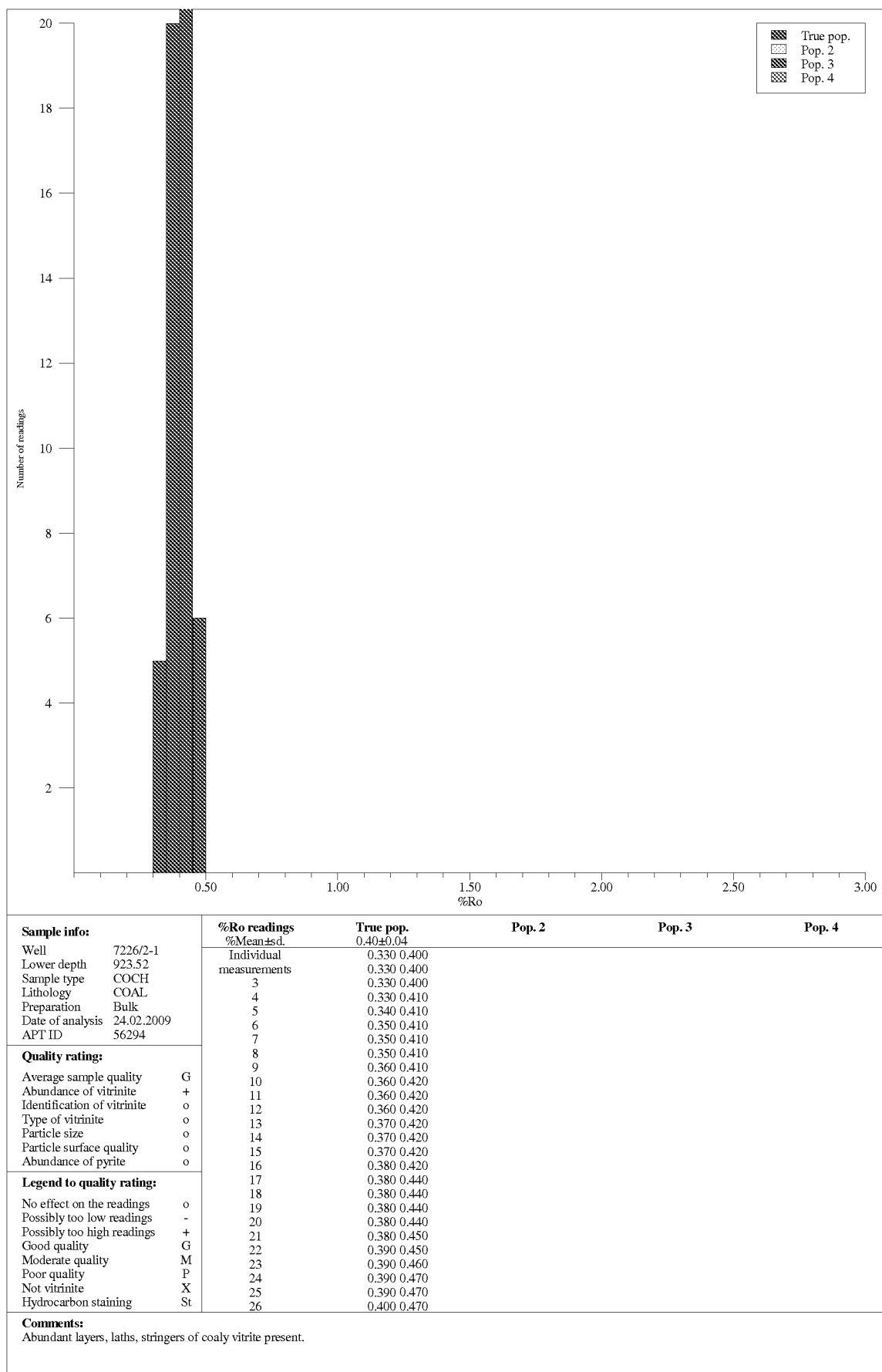


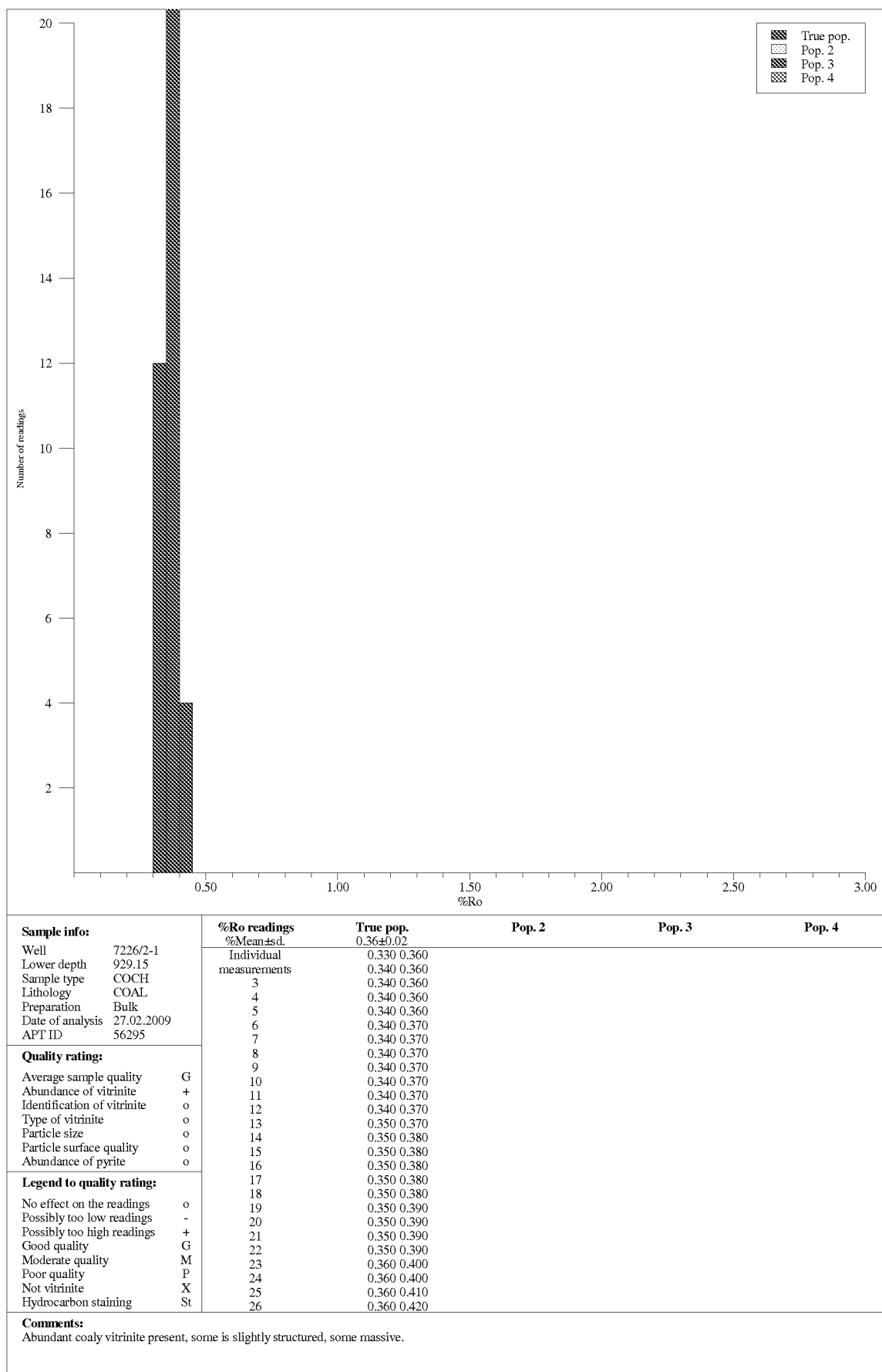


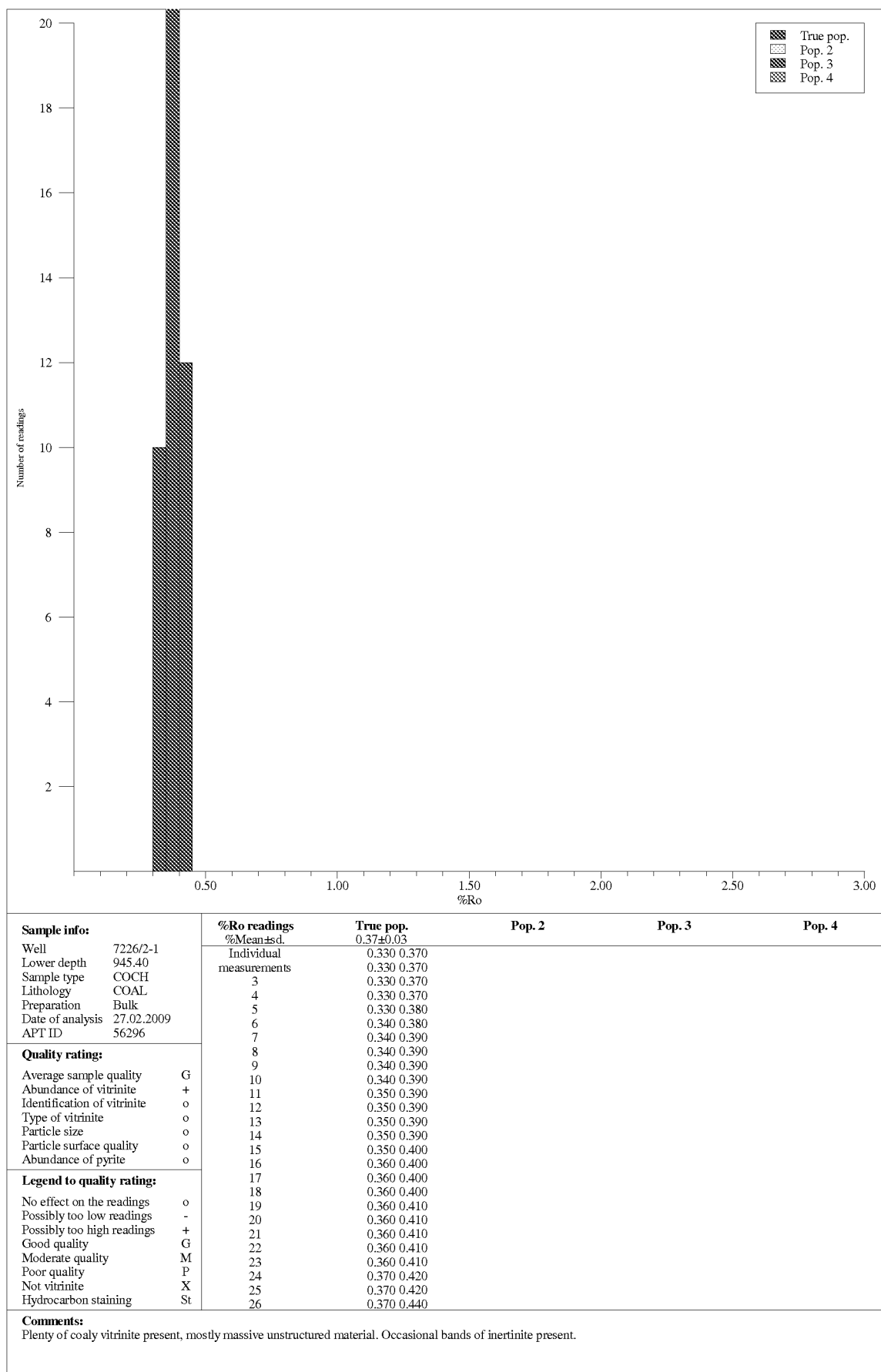
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.38±0.05	0.28±0.00	0.55±0.01	
Lower depth	861	Individual	0.300 0.380	0.280	0.540	
Sample type	DC	measurements	0.300 0.380	0.280	0.560	
Lithology	SH	3	0.310 0.380			
Preparation	Bulk	4	0.310 0.390			
Date of analysis	24.02.2009	5	0.320 0.390			
APT ID	56292	6	0.320 0.400			
Quality ratings:		7	0.320 0.400			
		8	0.320 0.400			
		9	0.330 0.400			
		10	0.330 0.400			
		11	0.330 0.400			
		12	0.330 0.400			
		13	0.330 0.410			
		14	0.330 0.410			
		15	0.340 0.420			
		16	0.340 0.420			
Legend to quality ratings:		17	0.340 0.420			
		18	0.350 0.420			
		19	0.350 0.430			
		20	0.360 0.430			
		21	0.360 0.440			
		22	0.360 0.450			
		23	0.370 0.450			
		24	0.370 0.480			
		25	0.370 0.490			
		26	0.370			
Comments:		Shale is organic rich with plenty of vitrinite, ragged/stringy, blocky and low reflecting amorphous.				

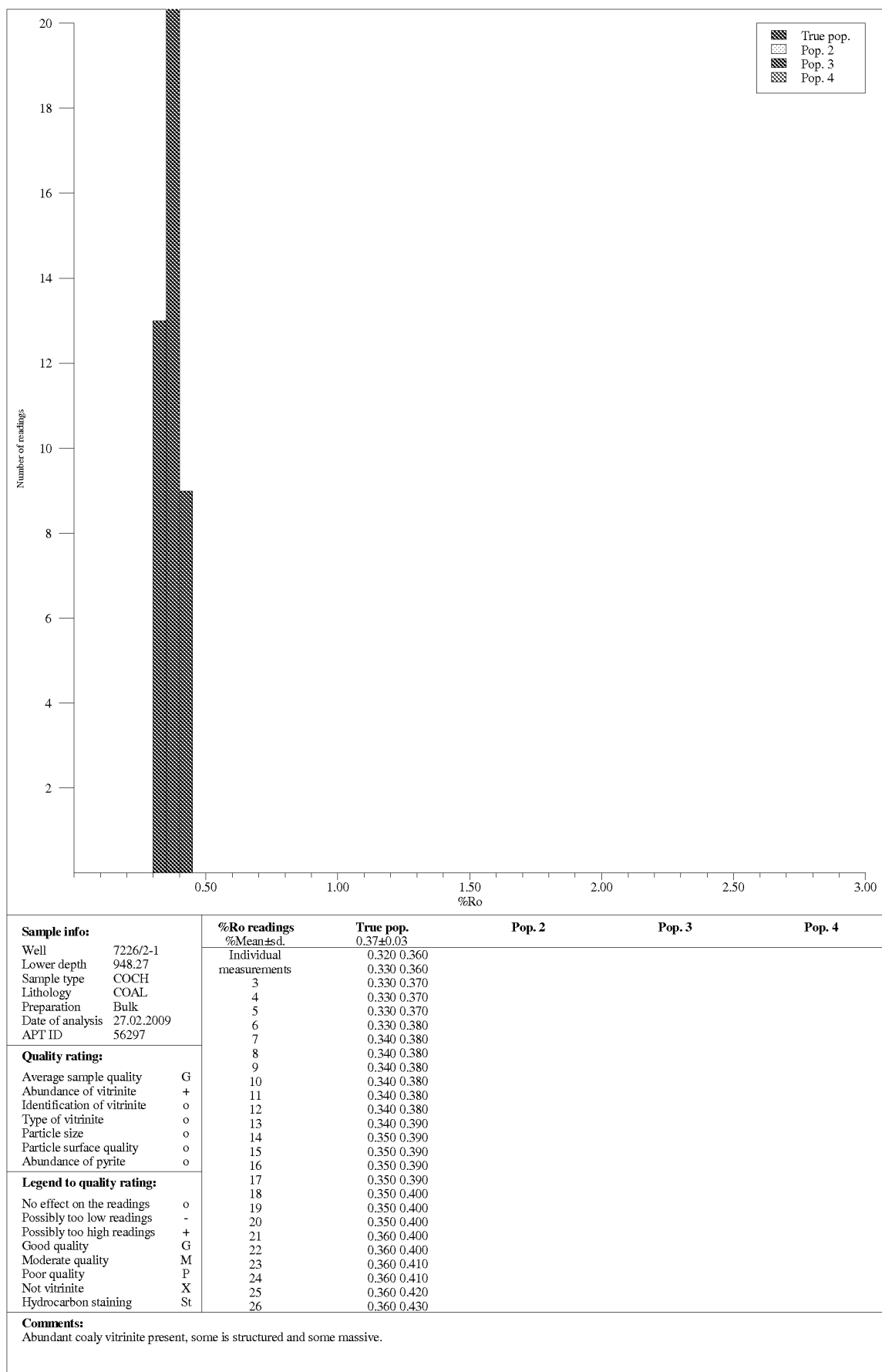


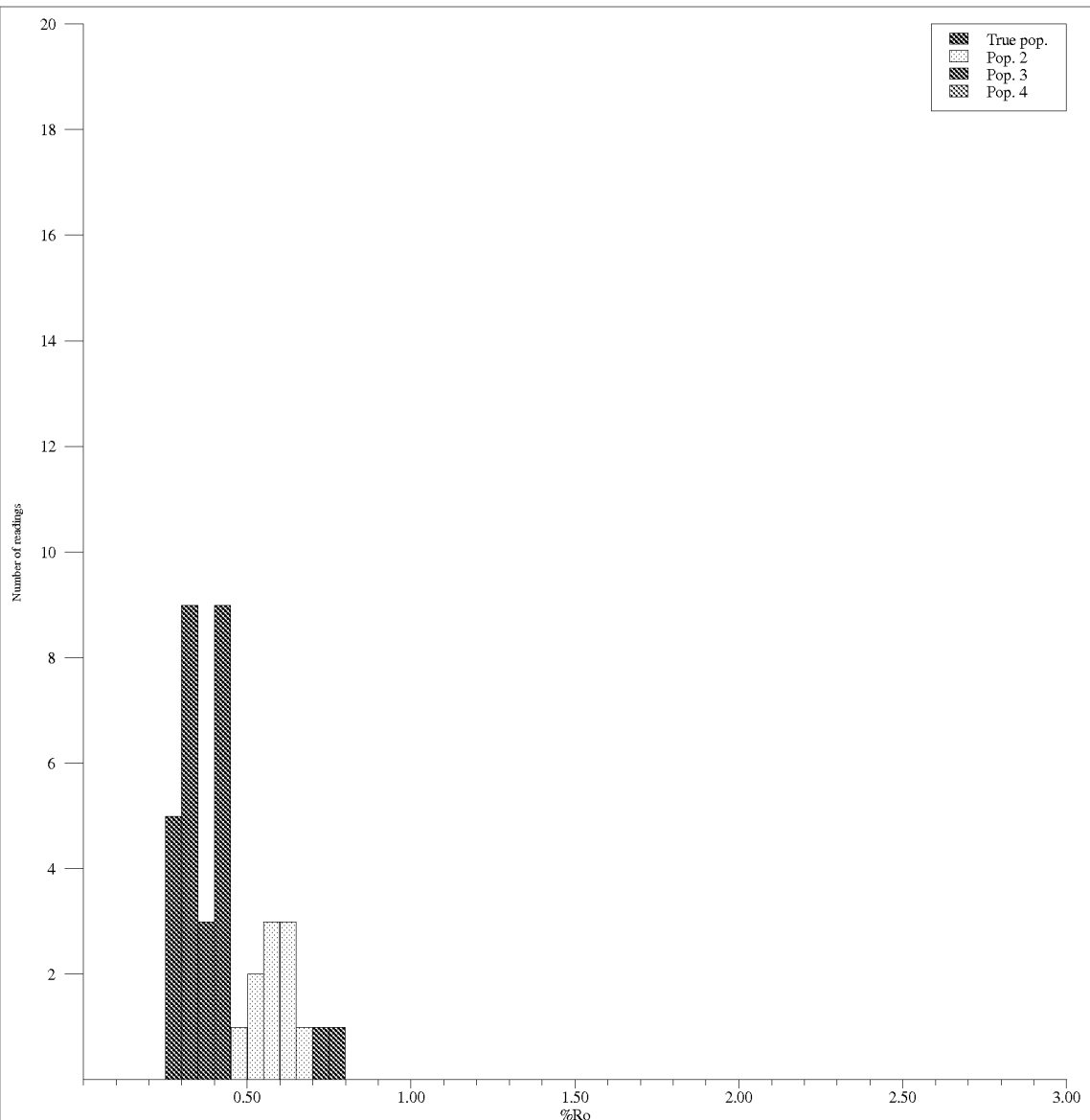
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.38±0.04	0.27±0.03	0.59±0.05	0.83±0.07
Lower depth	917.41	Individual	0.320	0.230	0.540	0.780
Sample type	COCH	measurements	0.330	0.250	0.550	0.880
Lithology	SH	3	0.340	0.260	0.590	
Preparation	Bulk	4	0.340	0.280	0.630	
Date of analysis	24.02.2009	5	0.350	0.290	0.650	
APT ID	56293	6	0.390	0.300		
Quality ratings: Average sample quality M Abundance of vitrinite - Identification of vitrinite o Type of vitrinite o Particle size o Particle surface quality o Abundance of pyrite +		7	0.390			
		8	0.400			
		9	0.400			
		10	0.420			
		11	0.440			
		12	0.440			
		13				
		14				
		15				
		16				
Legend to quality ratings: No effect on the readings o Possibly too low readings - Possibly too high readings + Good quality G Moderate quality M Poor quality P Not vitrinite X Hydrocarbon staining St		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
Comments:		Organic matter is not abundant.				



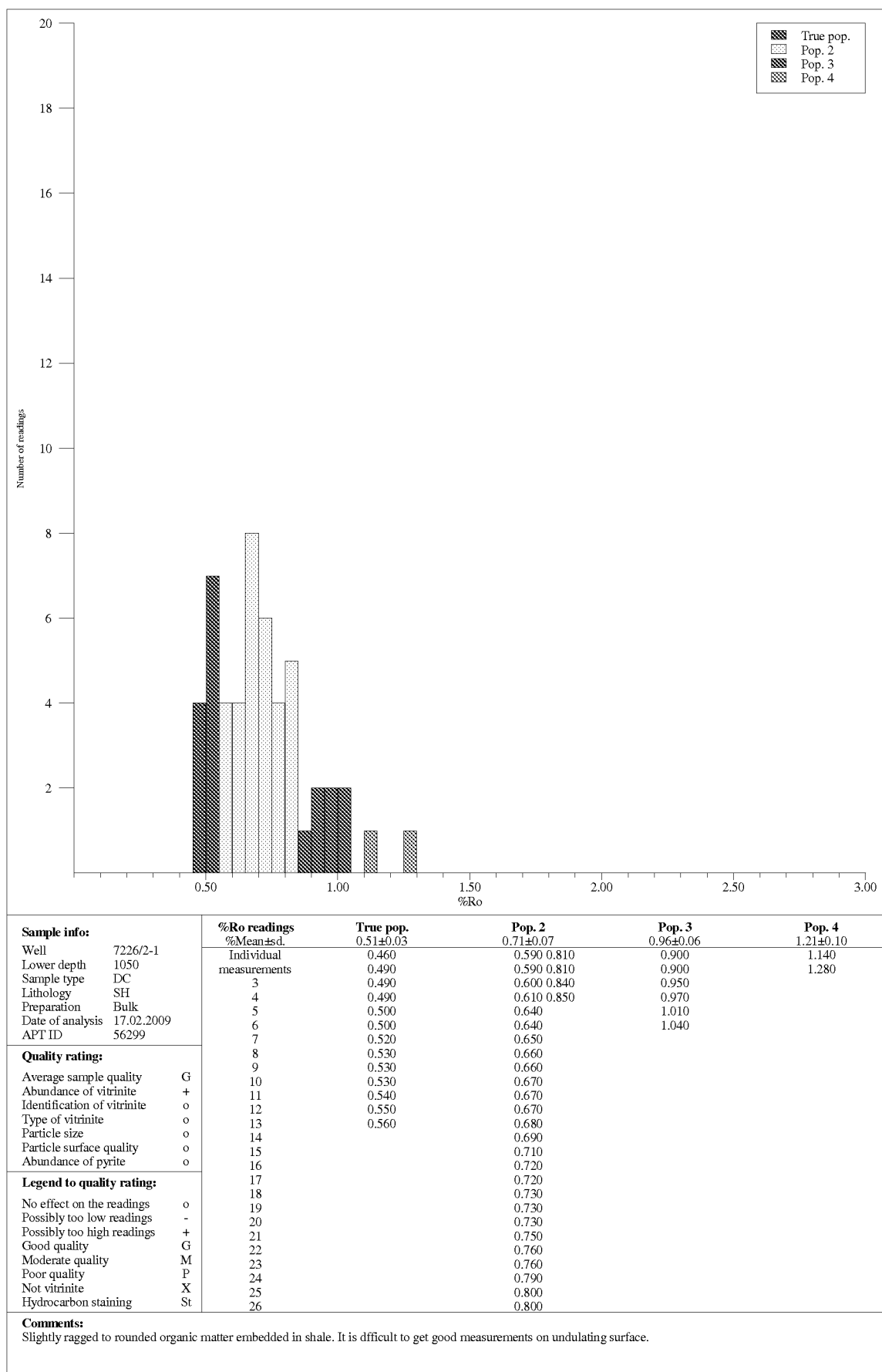


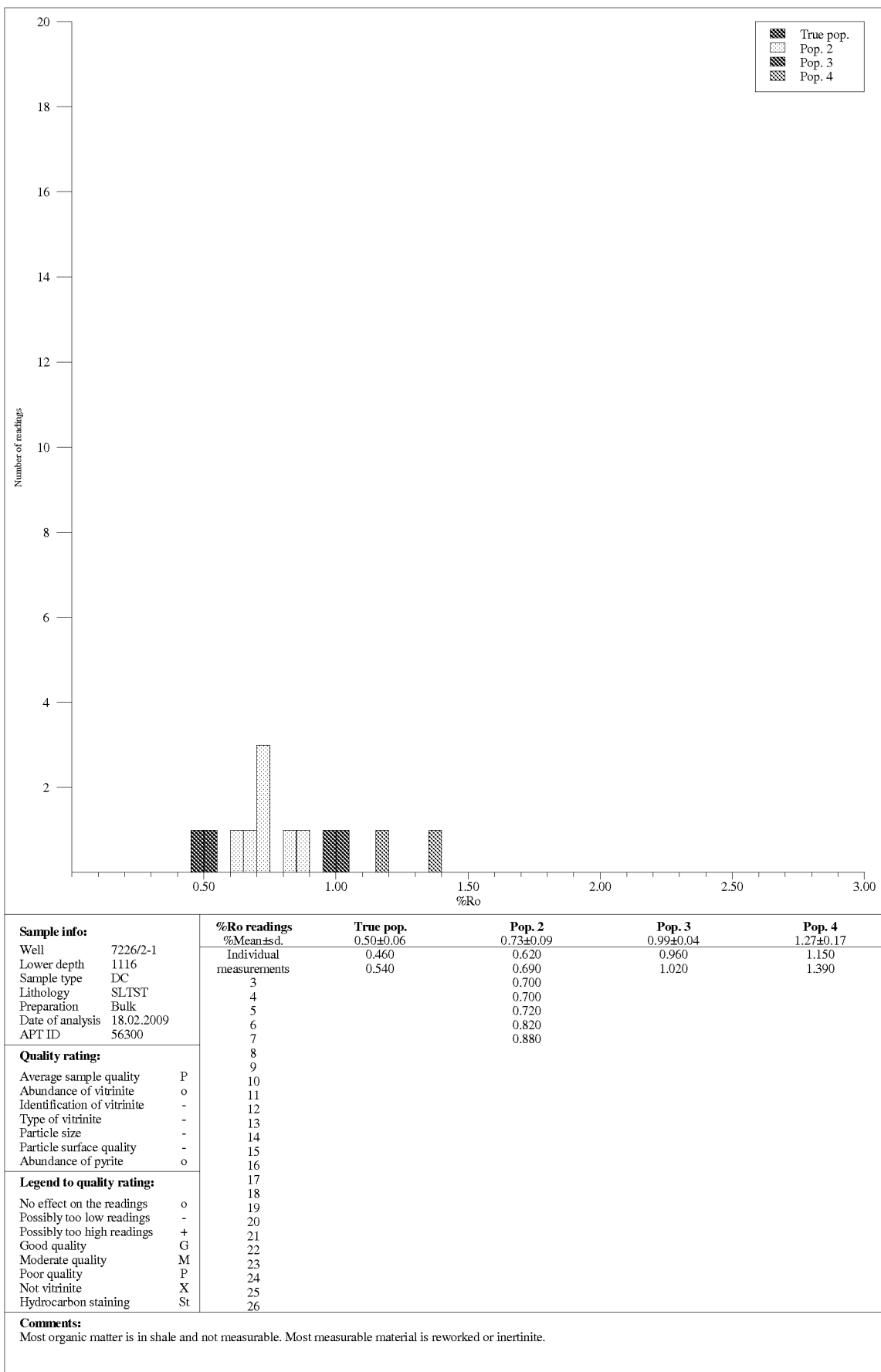


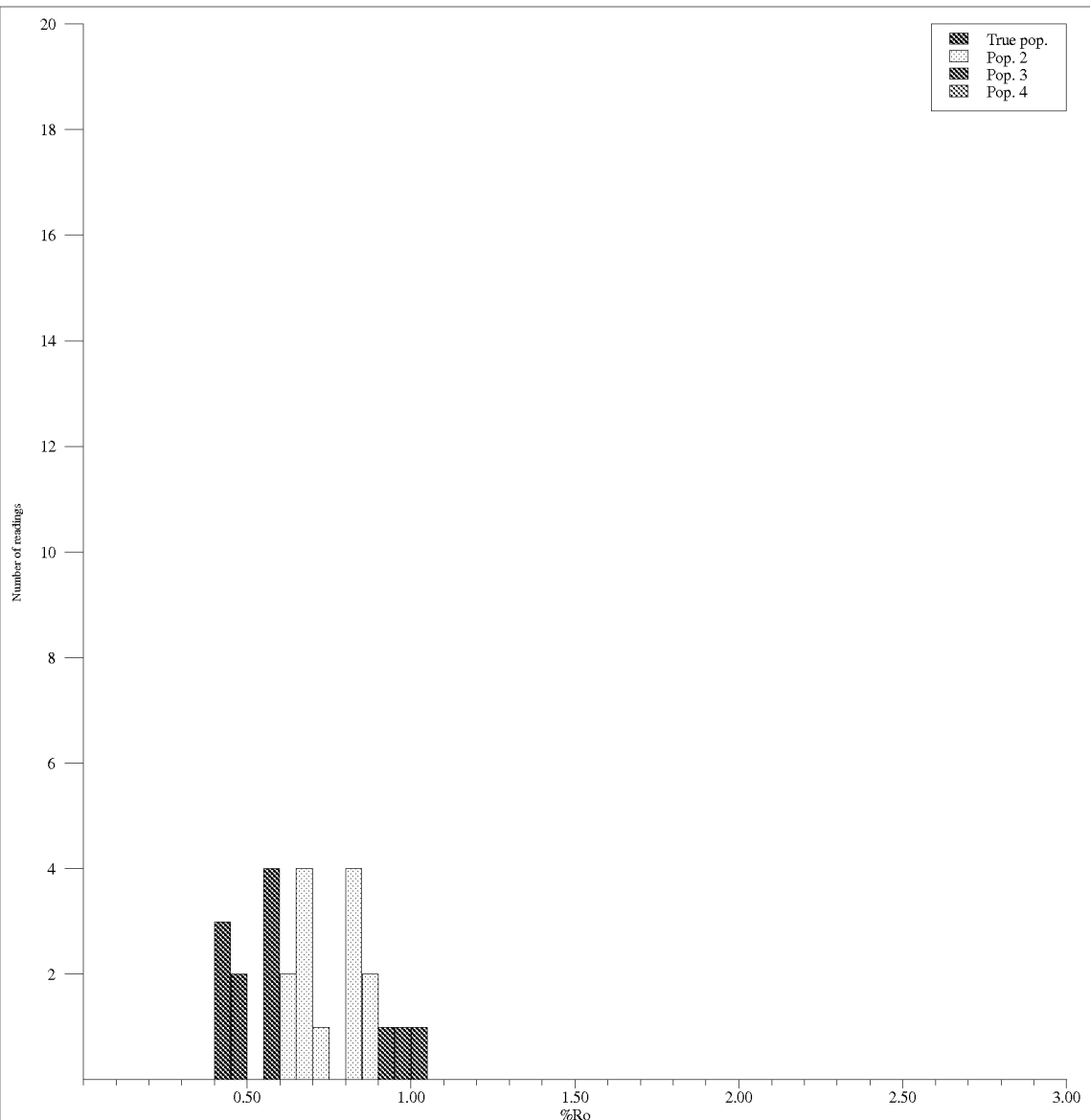




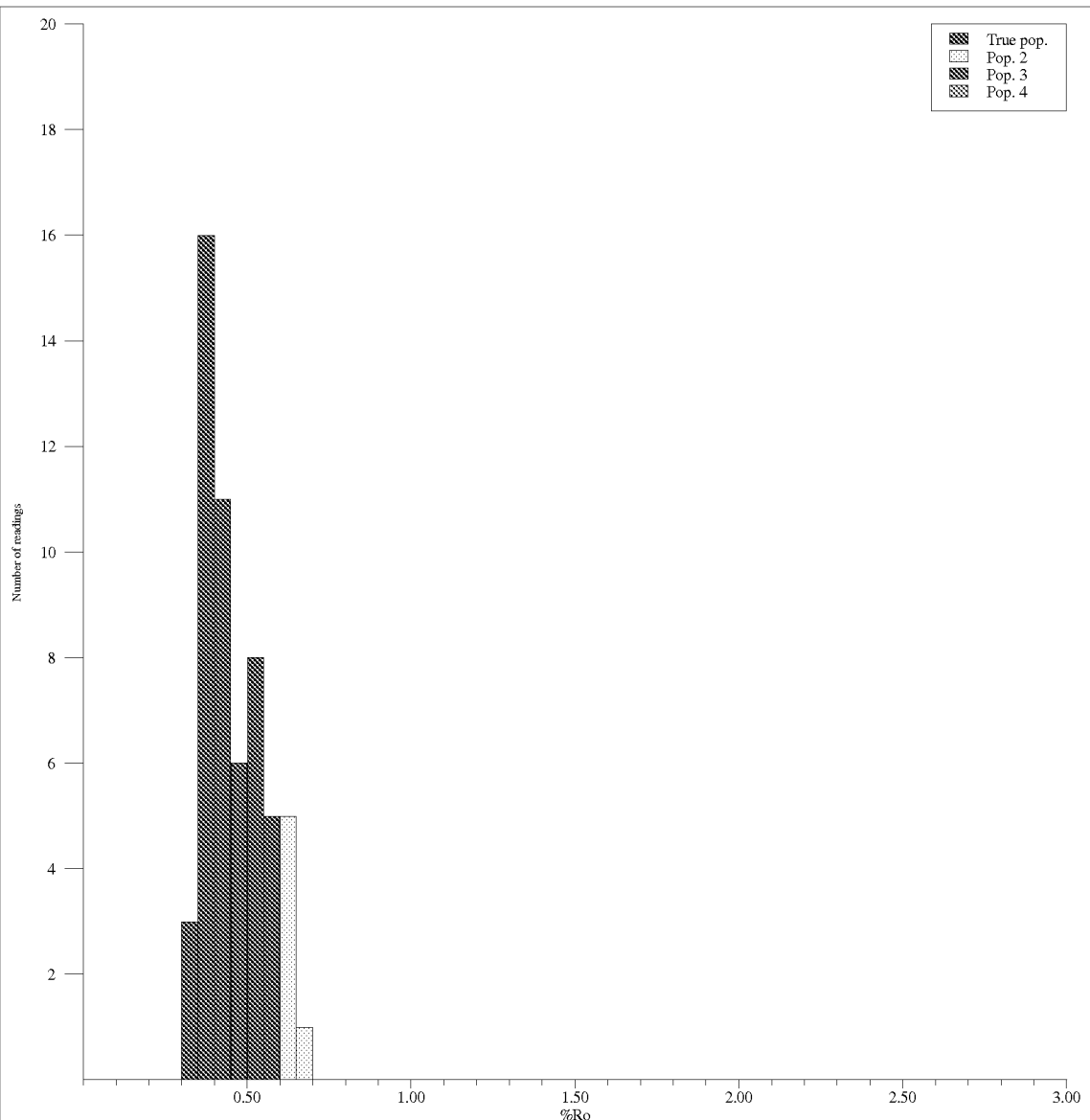
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.36±0.06	0.57±0.07	0.75±0.03	
Lower depth	960	Individual measurements	0.280	0.460	0.730	
Sample type	DC		0.280	0.510	0.770	
Lithology	SH	3	0.290	0.510		
Preparation	Bulk	4	0.290	0.550		
Date of analysis	25.02.2009	5	0.290	0.580		
APT ID	56298	6	0.300	0.590		
Quality ratings:		7	0.300	0.620		
		8	0.300	0.620		
		9	0.310	0.640		
		10	0.310	0.660		
		11	0.320			
		12	0.340			
		13	0.340			
		14	0.340			
		15	0.380			
		16	0.390			
Legend to quality ratings:		17	0.390			
		18	0.400			
		19	0.410			
		20	0.410			
		21	0.410			
		22	0.410			
		23	0.430			
		24	0.430			
		25	0.440			
		26	0.440			
Comments:						
Siltstone and shale present. Shale is more organic rich with framboidal pyrite.						



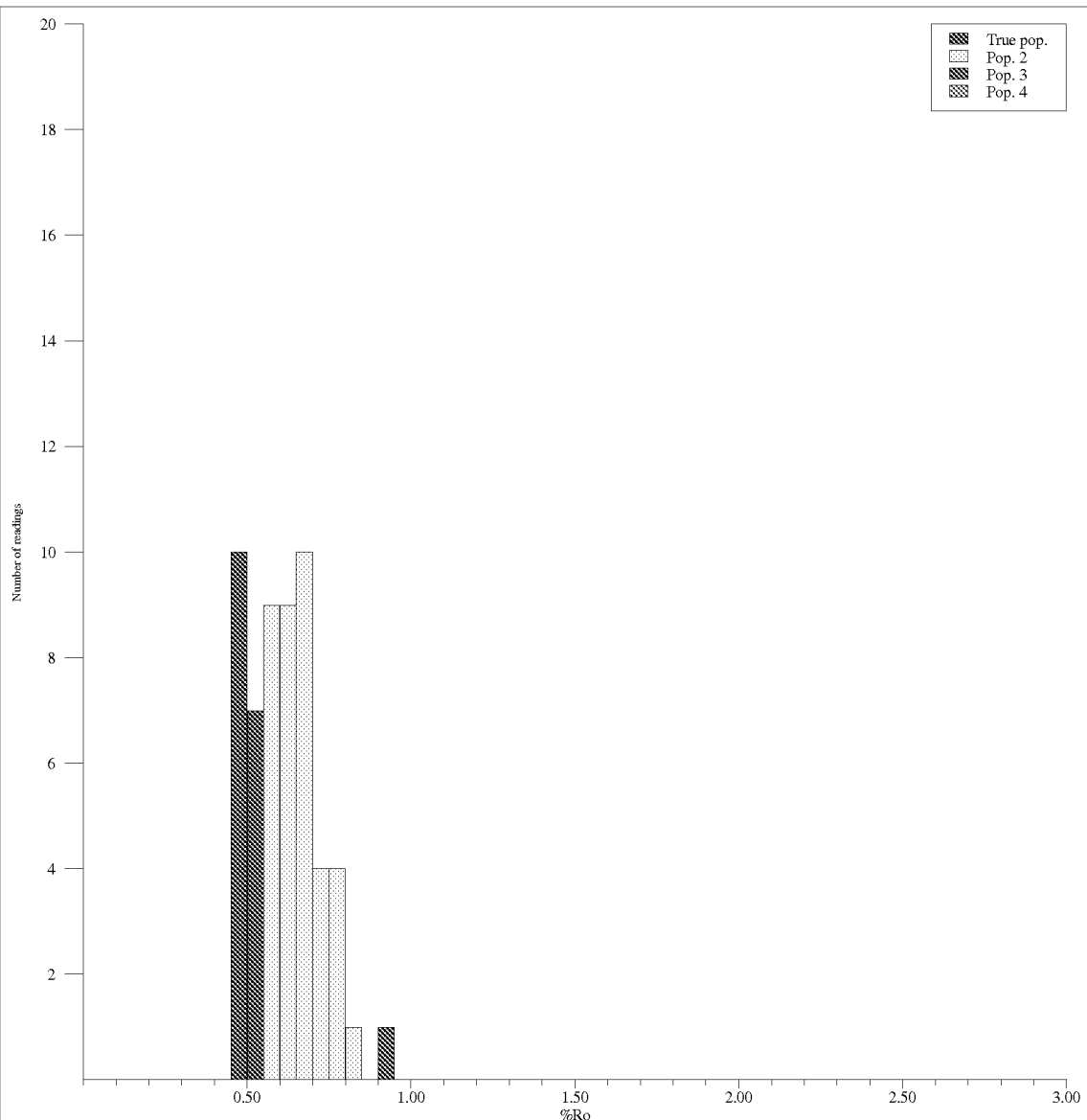




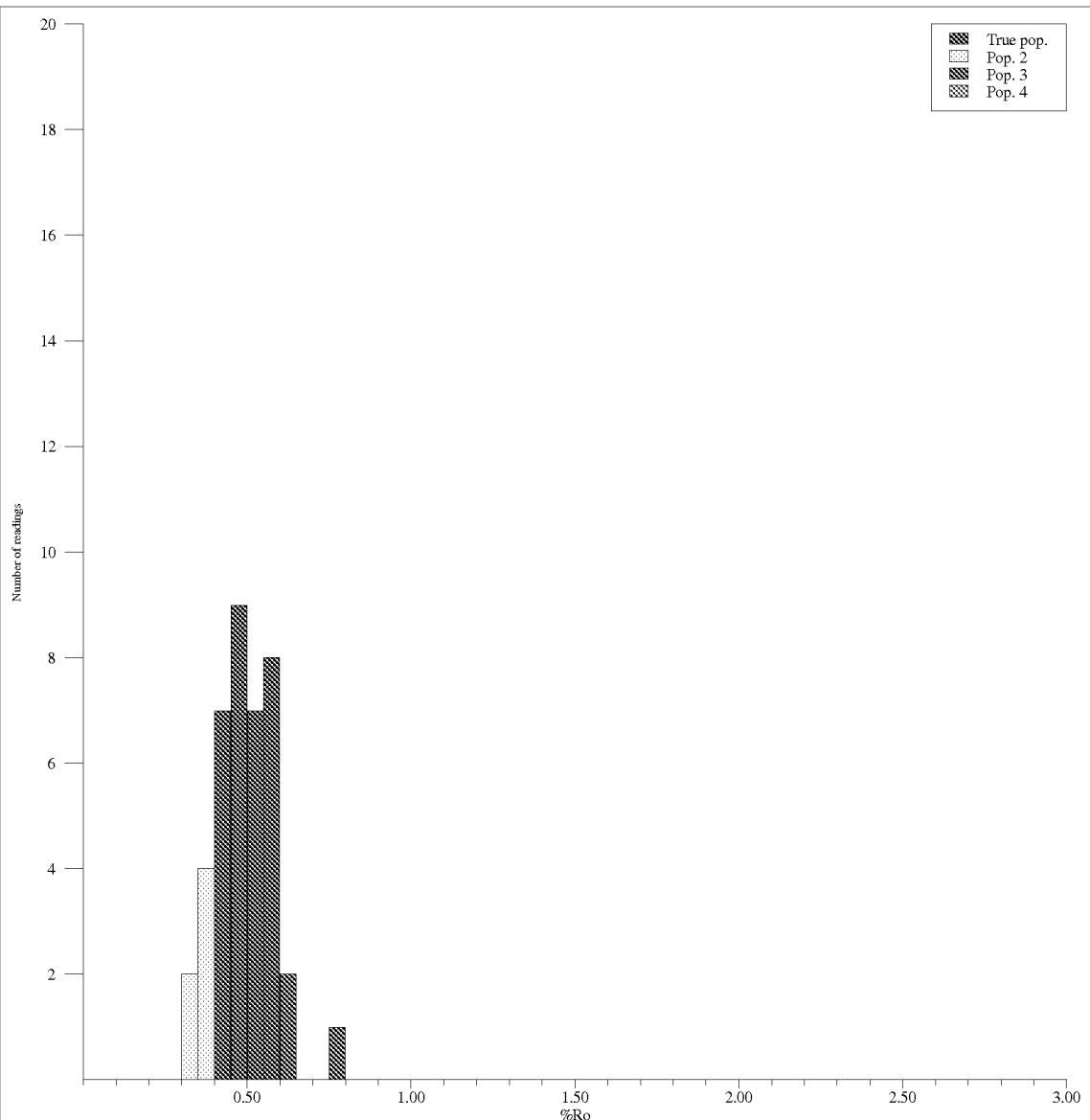
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.50±0.06	0.75±0.09	0.96±0.07	
Lower depth	1236	Individual	0.420	0.620	0.900	
Sample type	DC	measurements	0.430	0.640	0.950	
Lithology	SH	3	0.440	0.670	1.030	
Preparation	Bulk	4	0.460	0.690		
Date of analysis	17.02.2009	5	0.490	0.690		
APT ID	56301	6	0.550	0.690		
Quality ratings:		7	0.550	0.740		
		8	0.560	0.800		
		9	0.580	0.800		
		10		0.810		
		11		0.840		
		12		0.850		
		13		0.870		
		14				
		15				
		16				
Legend to quality ratings:		17				
Average sample quality	M	18				
Abundance of vitrinite	o	19				
Identification of vitrinite	o	20				
Type of vitrinite	o	21				
Particle size	o	22				
Particle surface quality	o	23				
Abundance of pyrite	o	24				
		25				
		26				
Comments:						
Organic matter concentrated in shales which are less abundant in this sample. Coal fragment present-?caved.						



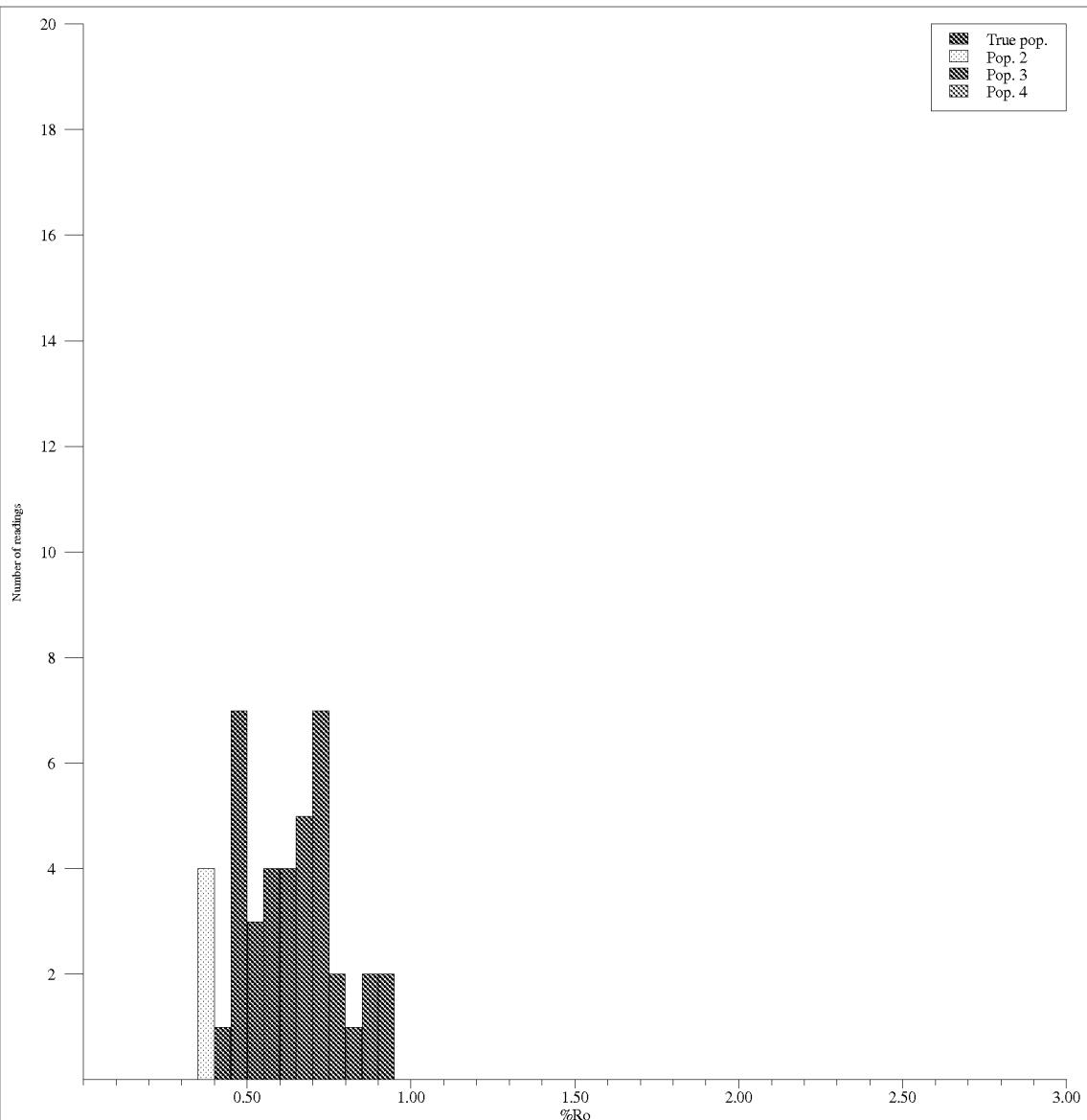
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.44±0.07	0.63±0.03		
Lower depth	1308	Individual measurements	0.320 0.430	0.610		
Sample type	DC	3	0.340 0.440	0.610		
Lithology	SH	4	0.340 0.440	0.620		
Preparation	Bulk	5	0.350 0.460	0.620		
Date of analysis	25.02.2009	6	0.350 0.460	0.640		
APT ID	56302	7	0.350 0.460	0.690		
Quality ratings:		8	0.360 0.470			
Average sample quality	G	9	0.360 0.490			
Abundance of vitrinite	o	10	0.360 0.490			
Identification of vitrinite	o	11	0.370 0.500			
Type of vitrinite	o	12	0.370 0.500			
Particle size	o	13	0.370 0.510			
Particle surface quality	o	14	0.380 0.520			
Abundance of pyrite	o	15	0.380 0.530			
Legend to quality ratings:		16	0.380 0.530			
No effect on the readings	o	17	0.390 0.540			
Possibly too low readings	-	18	0.390 0.540			
Possibly too high readings	+	19	0.390 0.550			
Good quality	G	20	0.400 0.550			
Moderate quality	M	21	0.410 0.550			
Poor quality	P	22	0.410 0.550			
Not vitrinite	X	23	0.420 0.570			
Hydrocarbon staining	St	24	0.420			
		25	0.430			
		26	0.430			
Comments:						
Abundant organic matter is present in shale. Virinite is ragged, wispy, stringy, laths.						



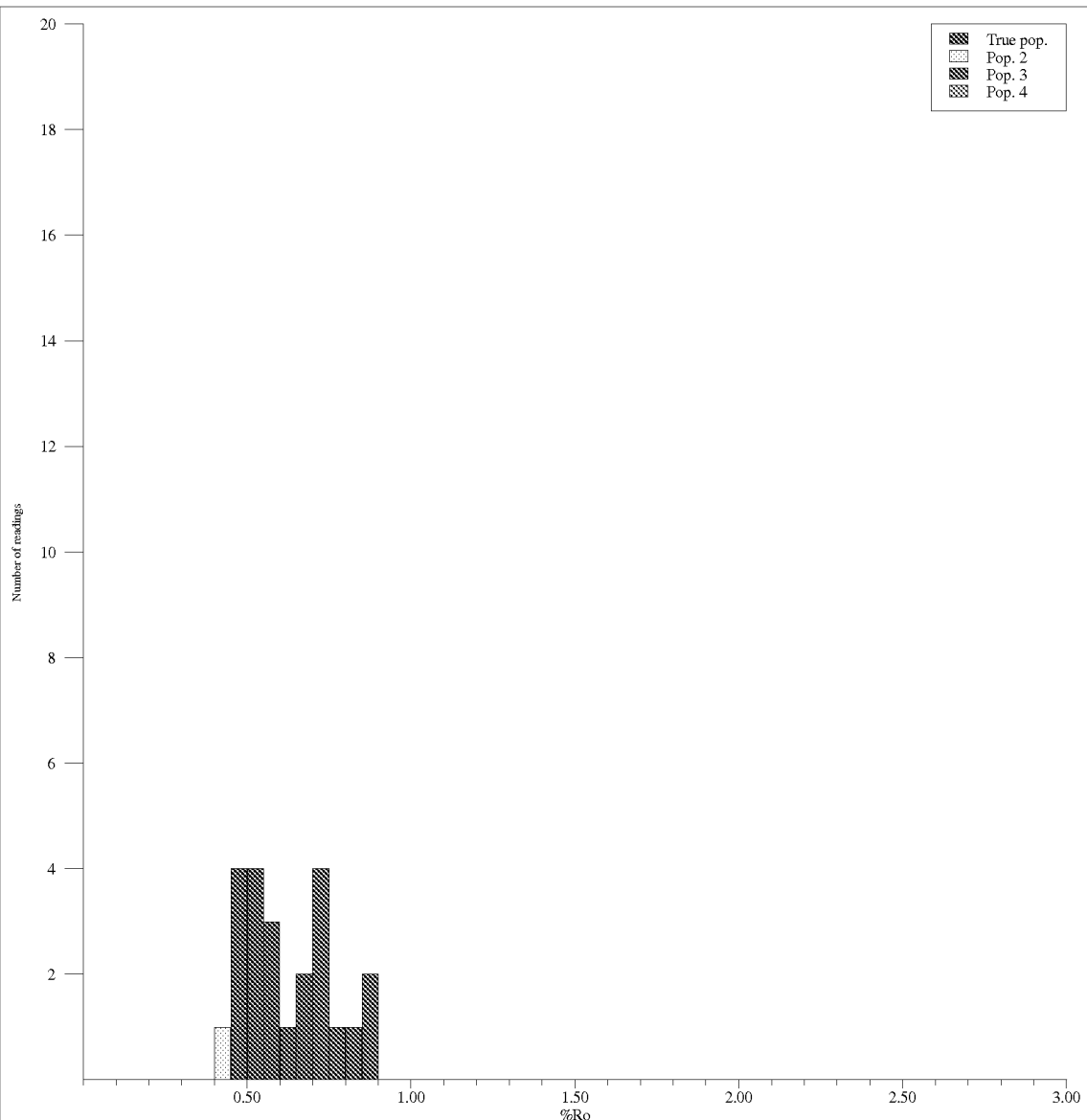
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well 7226/2-1		%Mean±sd.	0.50±0.03	0.66±0.07	0.93±0.00	
Lower depth 1443		Individual measurements	0.450	0.580 0.730	0.930	
Sample type DC		3	0.460	0.580 0.730		
Lithology SH		4	0.460	0.580 0.740		
Preparation Bulk		5	0.460	0.590 0.760		
Date of analysis 18.02.2009		6	0.470	0.590 0.770		
APT ID 56303		7	0.470	0.590 0.780		
Quality ratings:		8	0.470	0.600 0.790		
		9	0.470	0.600 0.820		
		10	0.470	0.600		
		11	0.490	0.610		
		12	0.500	0.610		
		13	0.510	0.620		
		14	0.510	0.630		
		15	0.520	0.630		
		16	0.520	0.630		
		17	0.520	0.650		
Legend to quality ratings:		18	0.530	0.650		
		19	0.550	0.660		
		20	0.550	0.660		
		21	0.550	0.660		
		22	0.560	0.660		
		23		0.660		
		24		0.670		
		25		0.670		
		26		0.690		
				0.720		
Comments:		Plenty of large vitrinite particles present in shale, although not all flat. Also discrete coaly pieces present.				



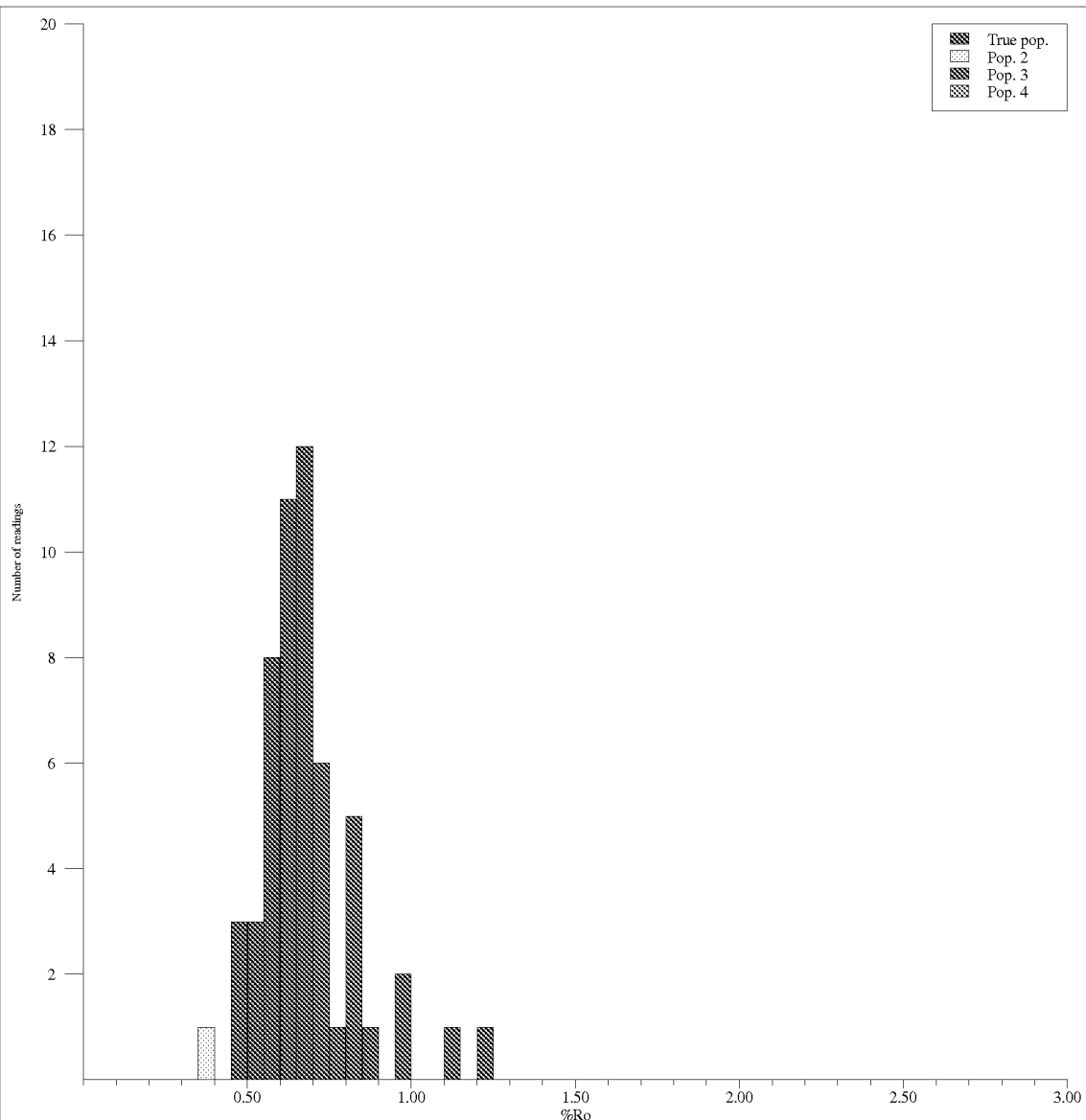
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.50±0.06	0.35±0.01	0.71±0.09	
Lower depth	1590	Individual measurements	0.400 0.570	0.330	0.640	
Sample type	DC		0.410 0.580	0.340	0.770	
Lithology	SH	3	0.420 0.590	0.350		
Preparation	Bulk	4	0.430 0.590	0.350		
Date of analysis	25.02.2009	5	0.430 0.590	0.360		
APT ID	56304	6	0.440 0.600	0.370		
Quality ratings:		7	0.440			
Average sample quality	G	8	0.450			
Abundance of vitrinite	o	9	0.450			
Identification of vitrinite	o	10	0.450			
Type of vitrinite	o	11	0.450			
Particle size	o	12	0.450			
Particle surface quality	o	13	0.460			
Abundance of pyrite	o	14	0.460			
Legend to quality ratings:		15	0.470			
No effect on the readings	o	16	0.490			
Possibly too low readings	-	17	0.500			
Possibly too high readings	+	18	0.500			
Good quality	G	19	0.510			
Moderate quality	M	20	0.510			
Poor quality	P	21	0.510			
Not vitrinite	X	22	0.520			
Hydrocarbon staining	St	23	0.540			
		24	0.550			
		25	0.550			
		26	0.550			
Comments:						
Organic matter is abundant in shale. Vitrinite is present as wisps and small laths mainly.						



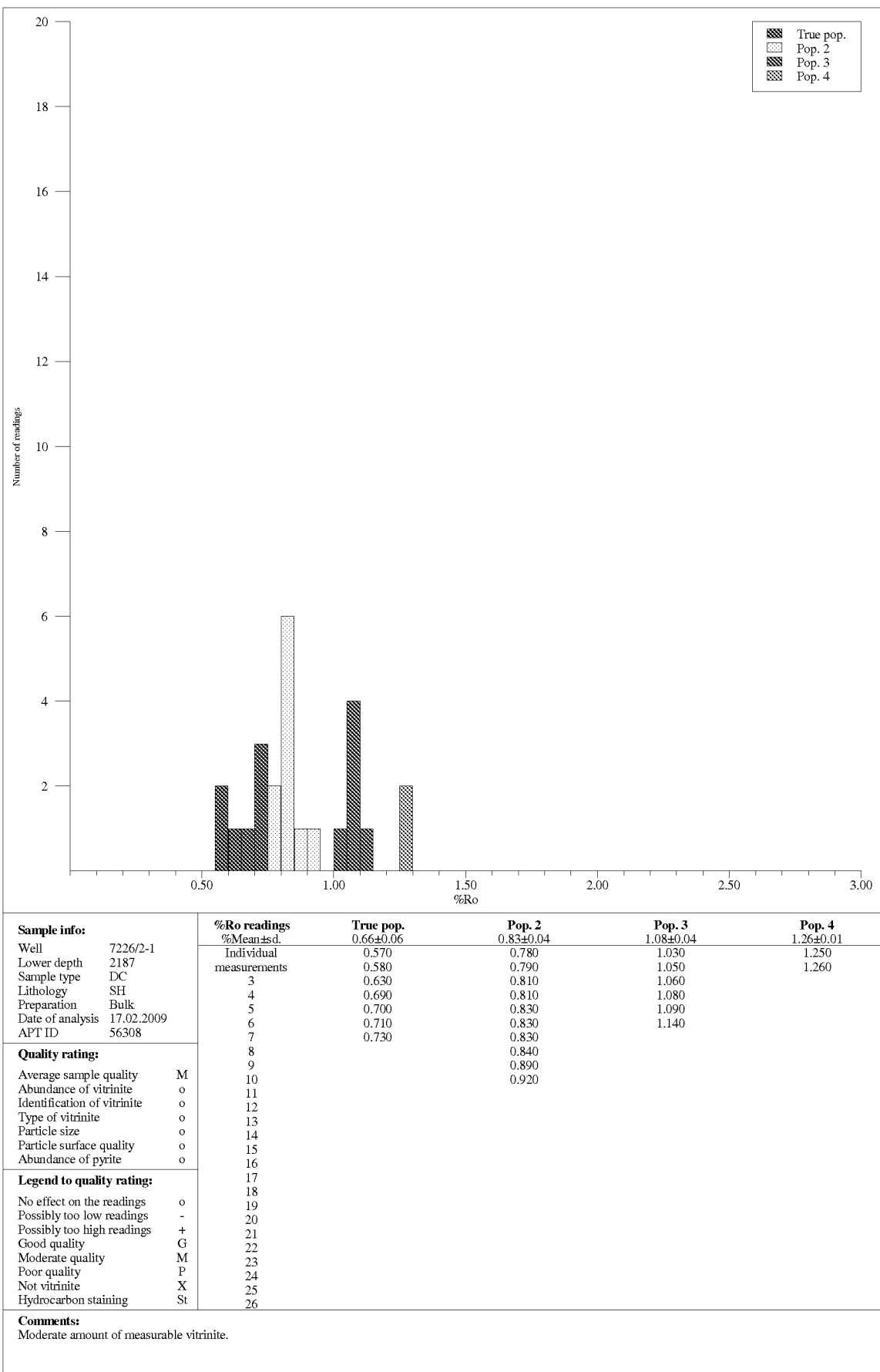
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.53±0.07	0.39±0.01	0.76±0.09	
Lower depth	1695	Individual measurements	0.450	0.370	0.660	
Sample type	DC	3	0.460	0.380	0.670	
Lithology	SH	4	0.460	0.390	0.680	
Preparation	Bulk	5	0.460	0.390	0.690	
Date of analysis	25.02.2009	6	0.470	0.400	0.690	
APT ID	56305	7	0.480		0.700	
Quality ratings:		8	0.510		0.700	
Average sample quality	G	9	0.530		0.700	
Abundance of vitrinite	o	10	0.540		0.720	
Identification of vitrinite	o	11	0.550		0.730	
Type of vitrinite	o	12	0.570		0.740	
Particle size	-	13	0.590		0.750	
Particle surface quality	o	14	0.590		0.790	
Abundance of pyrite	+	15	0.610		0.830	
Legend to quality ratings:		16	0.630		0.860	
No effect on the readings	o	17	0.630		0.890	
Possibly too low readings	-	18	0.630		0.920	
Possibly too high readings	+	19			0.930	
Good quality	G	20				
Moderate quality	M	21				
Poor quality	P	22				
Not vitrinite	X	23				
Hydrocarbon staining	St	24				
Comments:		25				
Abundance of organic matter, vitrinite small in size.		26				

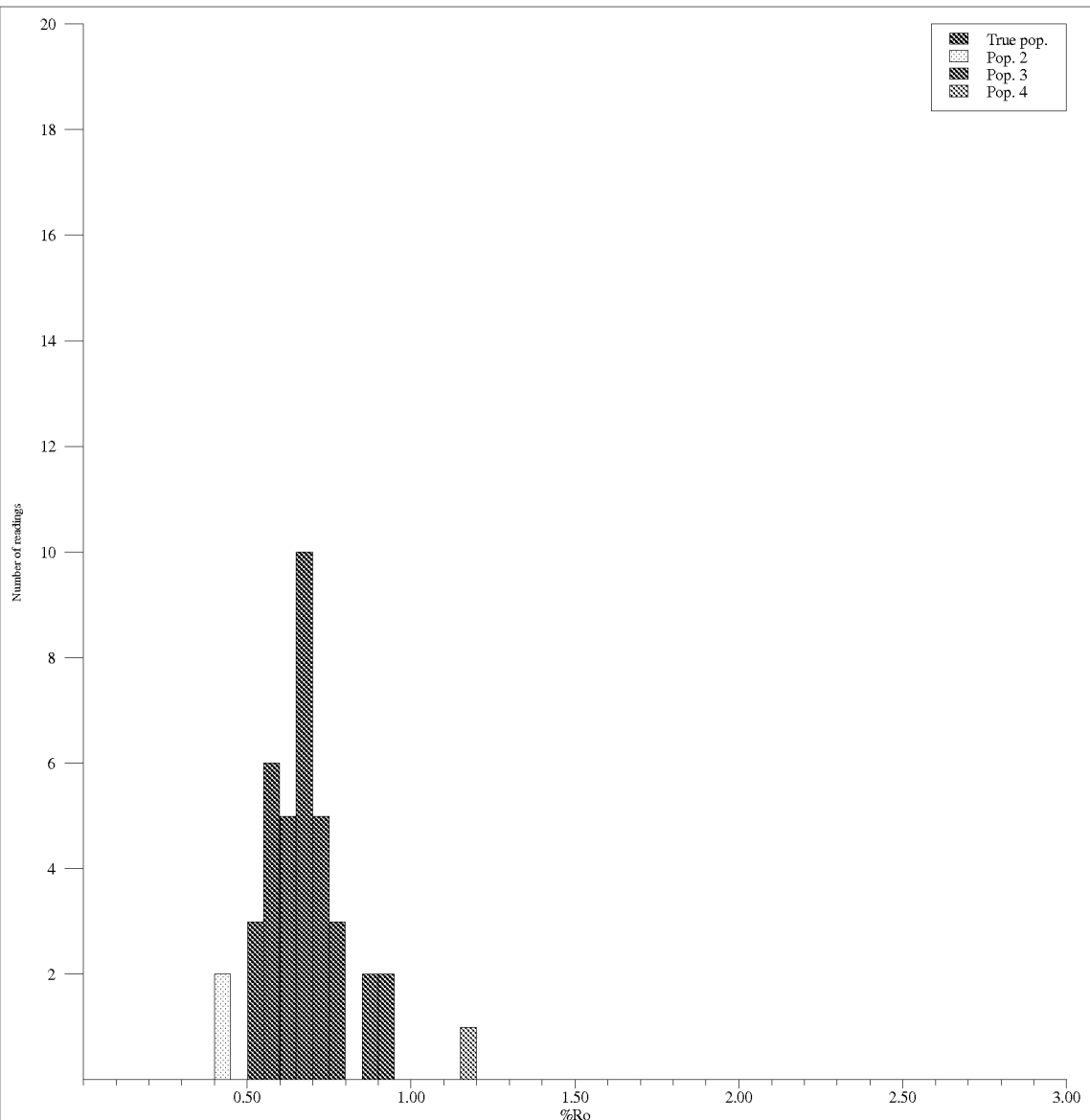


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.55±0.07	0.43±0.00	0.78±0.07	
Lower depth	1875	Individual	0.450	0.430	0.710	
Sample type	DC	measurements	0.470		0.730	
Lithology	SH	3	0.490		0.740	
Preparation	Bulk	4	0.490		0.740	
Date of analysis	25.02.2009	5	0.500		0.760	
APT ID	56306	6	0.510		0.820	
Quality ratings:		7	0.540		0.850	
		8	0.540		0.890	
		9	0.550			
		10	0.560			
		11	0.570			
		12	0.640			
		13	0.660			
		14	0.670			
		15				
		16				
Legend to quality ratings:		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
Comments:		Moderate amount of organic matter mostly small and wispy.				

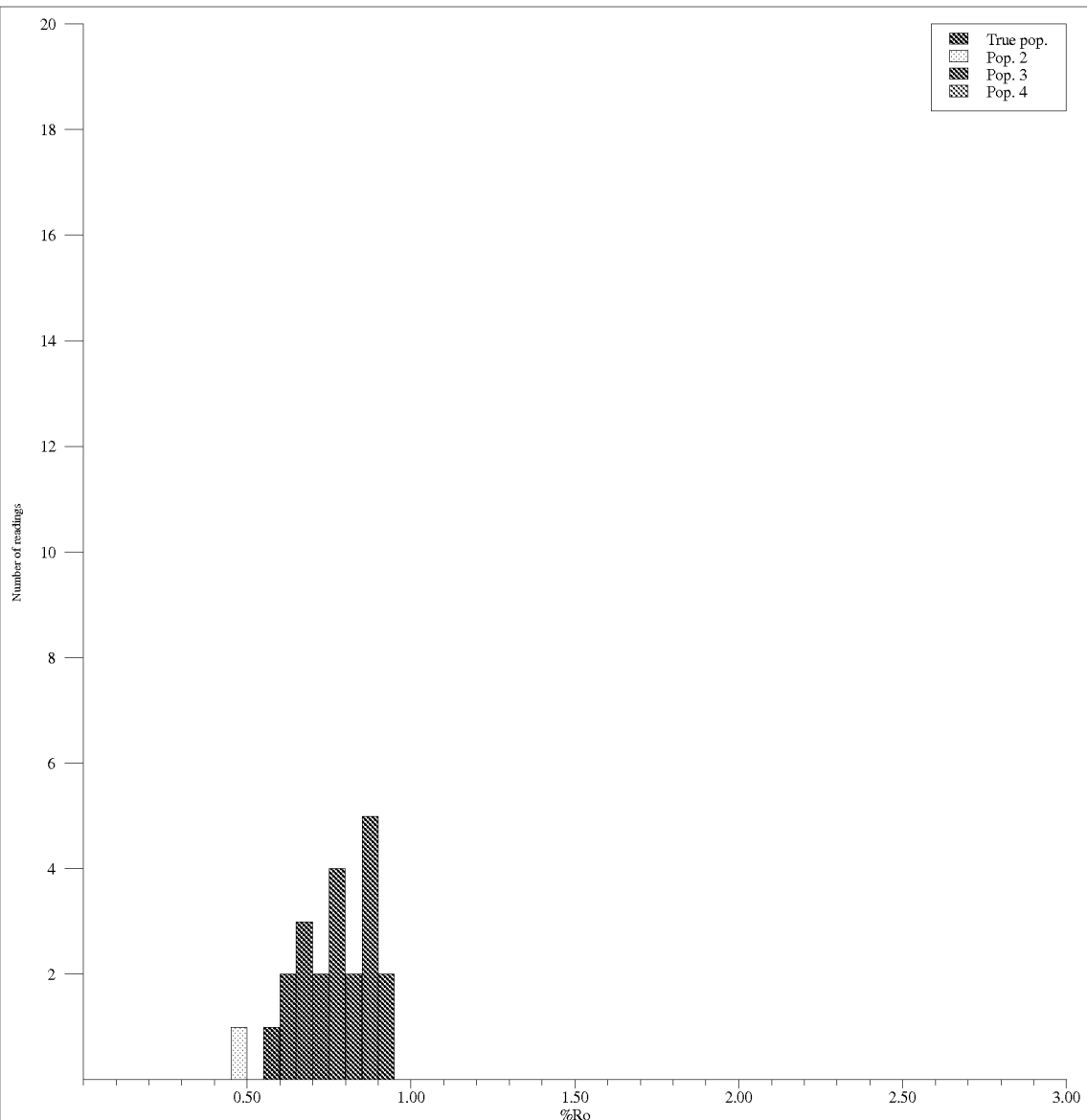


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.60±0.06	0.38±0.00	0.84±0.15	
Lower depth	2073	Individual	0.460 0.650	0.380	0.700	
Sample type	DC	measurements	0.480 0.650		0.710	
Lithology	SH	3	0.490 0.650		0.710	
Preparation	Bulk	4	0.520 0.660		0.720	
Date of analysis	18.02.2009	5	0.520 0.660		0.730	
APT ID	56307	6	0.530 0.660		0.740	
Quality ratings:		7	0.550 0.660		0.770	
		8	0.550 0.660		0.800	
		9	0.550 0.670		0.800	
		10	0.560 0.680		0.820	
		11	0.560 0.690		0.820	
		12	0.570		0.830	
		13	0.580		0.870	
		14	0.590		0.950	
		15	0.600		0.980	
		16	0.600		1.130	
Legend to quality ratings:		17	0.600		1.200	
		18	0.610			
		19	0.610			
		20	0.620			
		21	0.620			
		22	0.630			
		23	0.630			
		24	0.640			
		25	0.640			
		26	0.650			
Comments:		Plenty of vitrinite present, as small fragments, wisps, stain and often large stringers and fragments.				

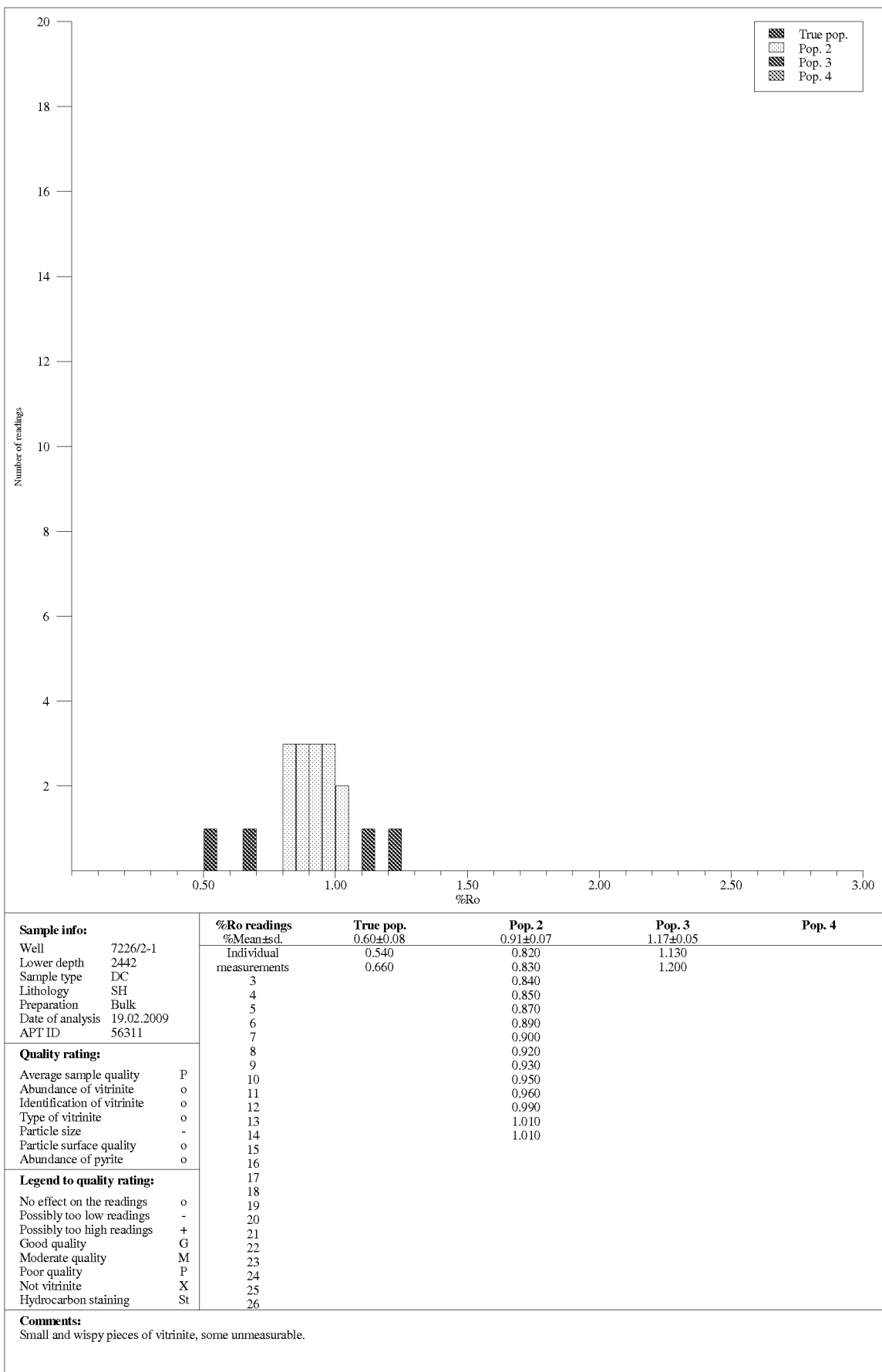


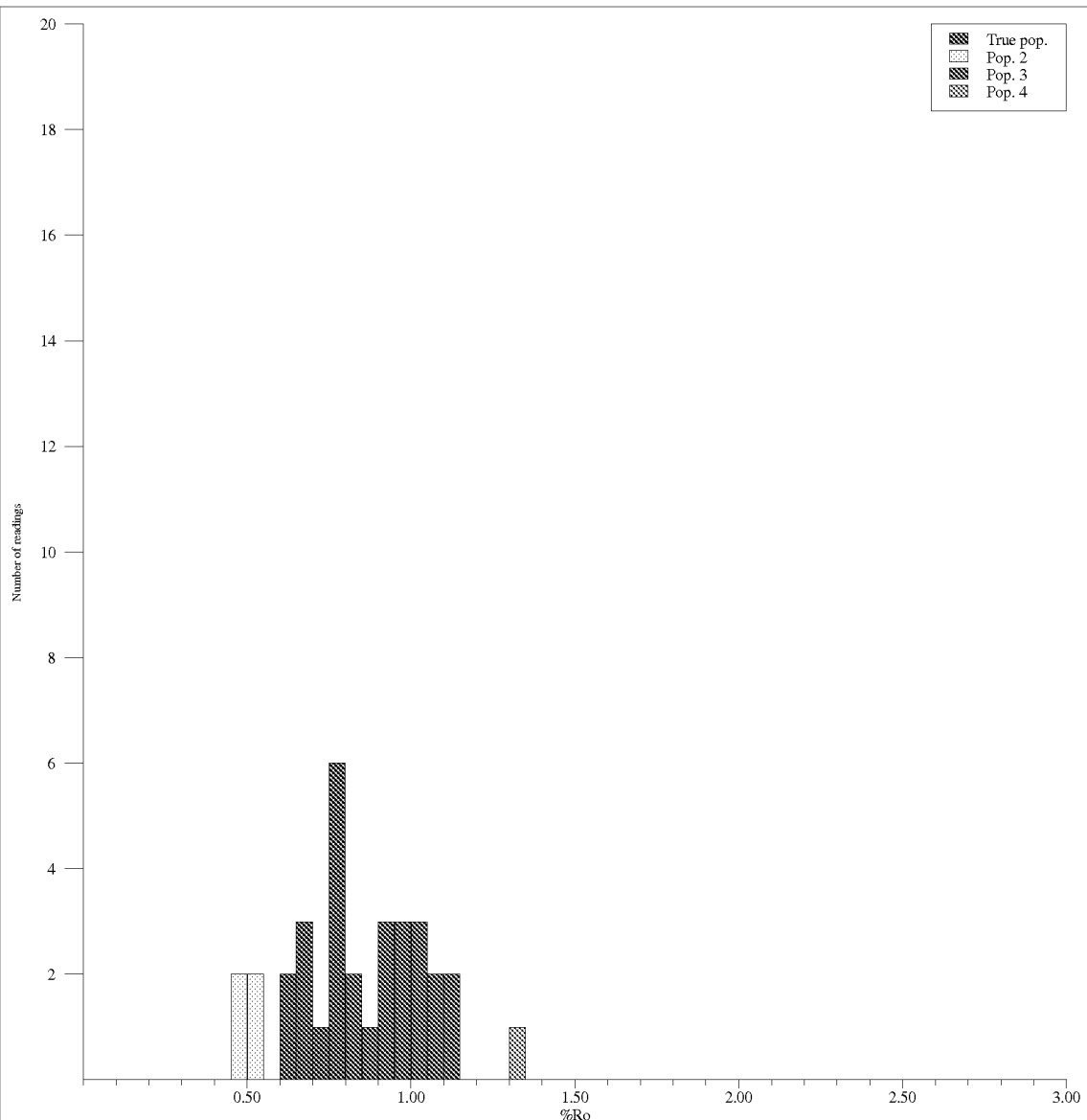


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1		0.65±0.07	0.41±0.01	0.91±0.02	1.15±0.00
Lower depth	2253	Individual	0.500 0.720	0.400	0.890	1.150
Sample type	DC	measurements	0.520 0.730	0.420	0.890	
Lithology	SH	3	0.540 0.740		0.910	
Preparation	Bulk	4	0.560 0.760		0.930	
Date of analysis	18.02.2009	5	0.560 0.770			
APT ID	56309	6	0.560 0.780			
Quality ratings:		7	0.560			
		8	0.570			
		9	0.590			
		10	0.600			
		11	0.610			
		12	0.620			
		13	0.630			
		14	0.640			
		15	0.650			
		16	0.660			
Legend to quality ratings:		17	0.660			
		18	0.660			
		19	0.670			
		20	0.670			
		21	0.670			
		22	0.670			
		23	0.670			
		24	0.680			
		25	0.710			
		26	0.710			
Comments:		Moderate amount of organic matter present, small fragments, thin wisps and stain but this is not all measurable.				

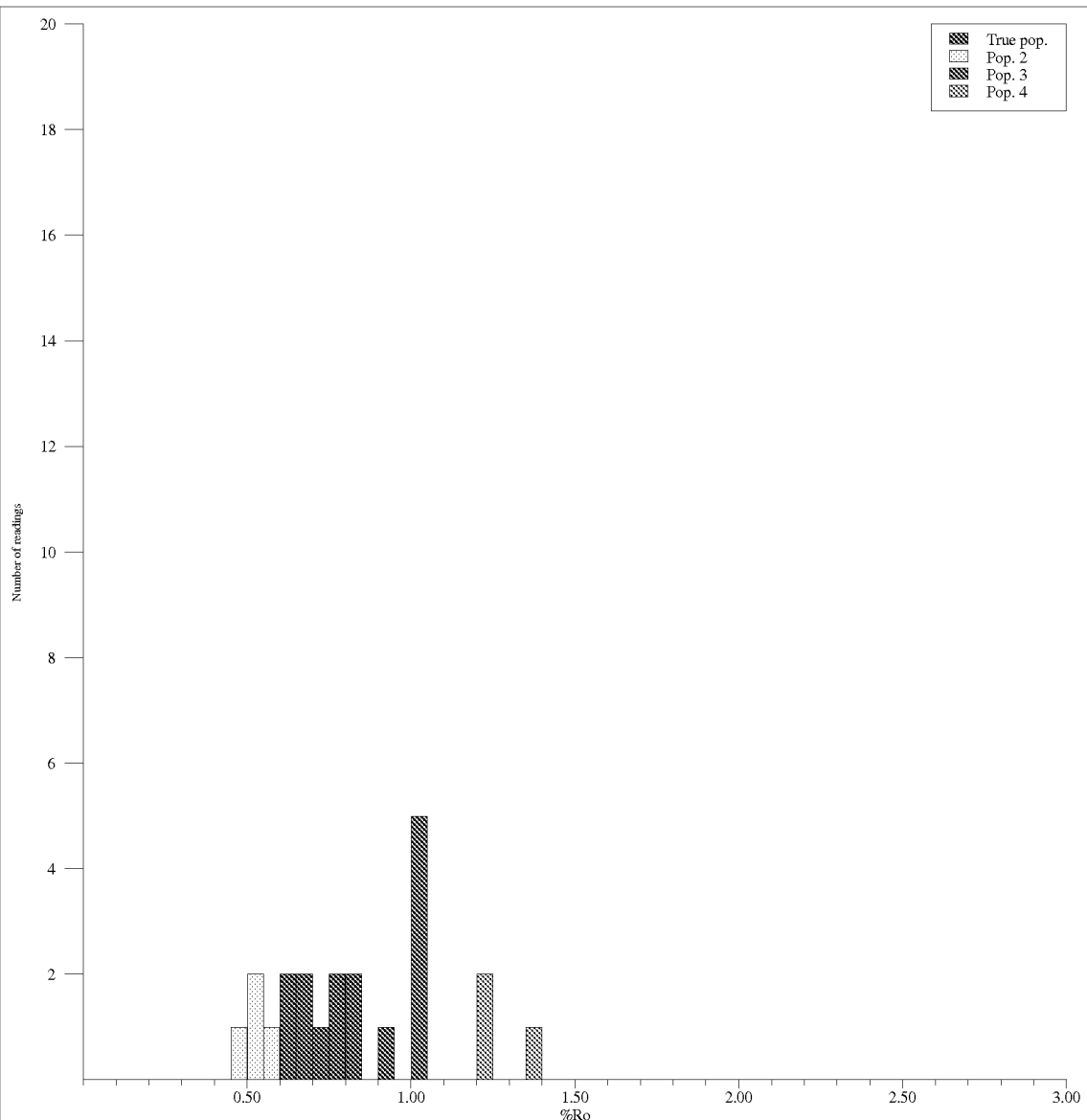


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.67±0.05	0.48±0.00	0.84±0.06	
Lower depth	2343	Individual	0.590	0.480	0.760	
Sample type	DC	measurements	0.630		0.770	
Lithology	CLYST	3	0.640		0.770	
Preparation	Bulk	4	0.660		0.790	
Date of analysis	18.02.2009	5	0.670		0.830	
APT ID	56310	6	0.690		0.830	
Quality ratings:		7	0.710		0.850	
		8	0.730		0.870	
		9			0.870	
		10			0.880	
		11			0.880	
		12			0.900	
		13			0.940	
		14				
		15				
		16				
Legend to quality ratings:		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
Comments:		High abundanc eof organic matter, mostly reworked or inertinite.				

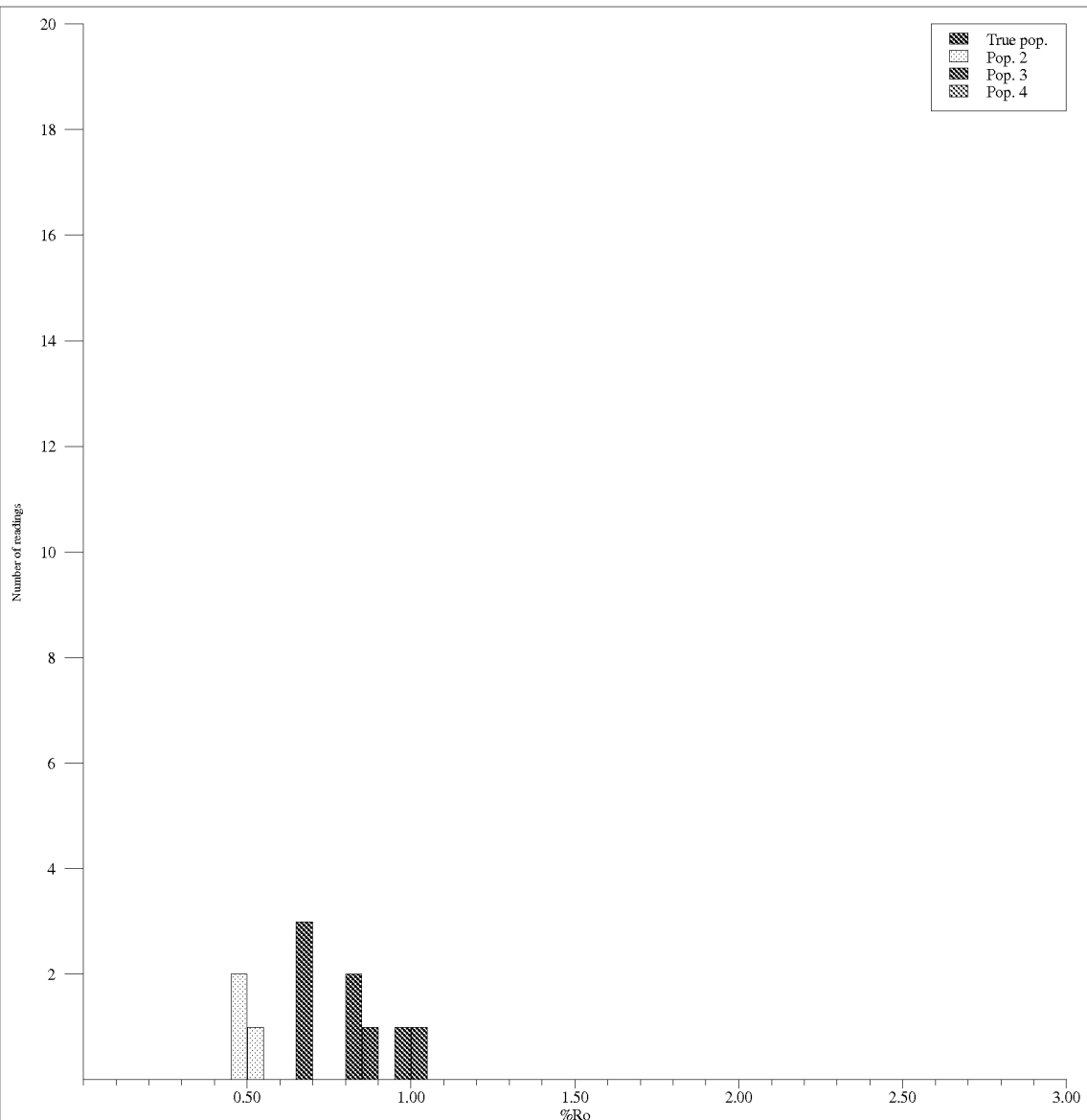




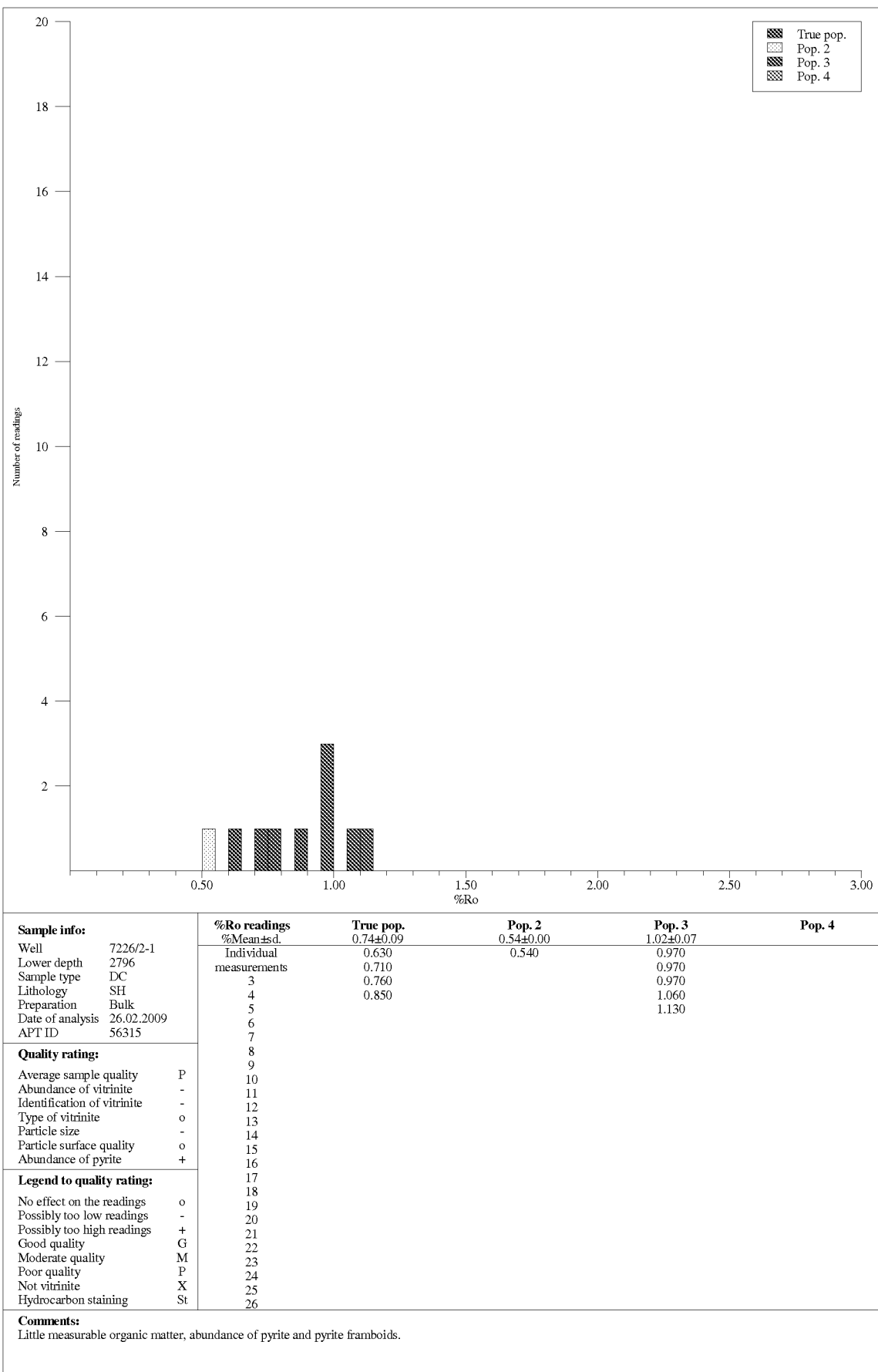
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.72±0.06	0.50±0.03	0.98±0.10	1.34±0.00
Lower depth	2532	Individual measurements	0.610	0.460	0.800	1.340
Sample type	DC	3	0.640	0.490	0.810	
Lithology	SH	4	0.680	0.520	0.870	
Preparation	Bulk	5	0.690	0.530	0.910	
Date of analysis	18.02.2009	6	0.730		0.910	
APT ID	56312	7	0.760		0.920	
Quality ratings:		8	0.760		0.960	
		9	0.770		0.970	
		10	0.770		0.990	
		11	0.770		1.020	
		12	0.770		1.040	
		13	0.780		1.040	
		14			1.070	
		15			1.090	
		16			1.100	
		17			1.120	
Legend to quality ratings:		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
Comments:						
Organic matter widely scattered in silty shale, comprises mainly stain or poor quality difficult to measure material.						

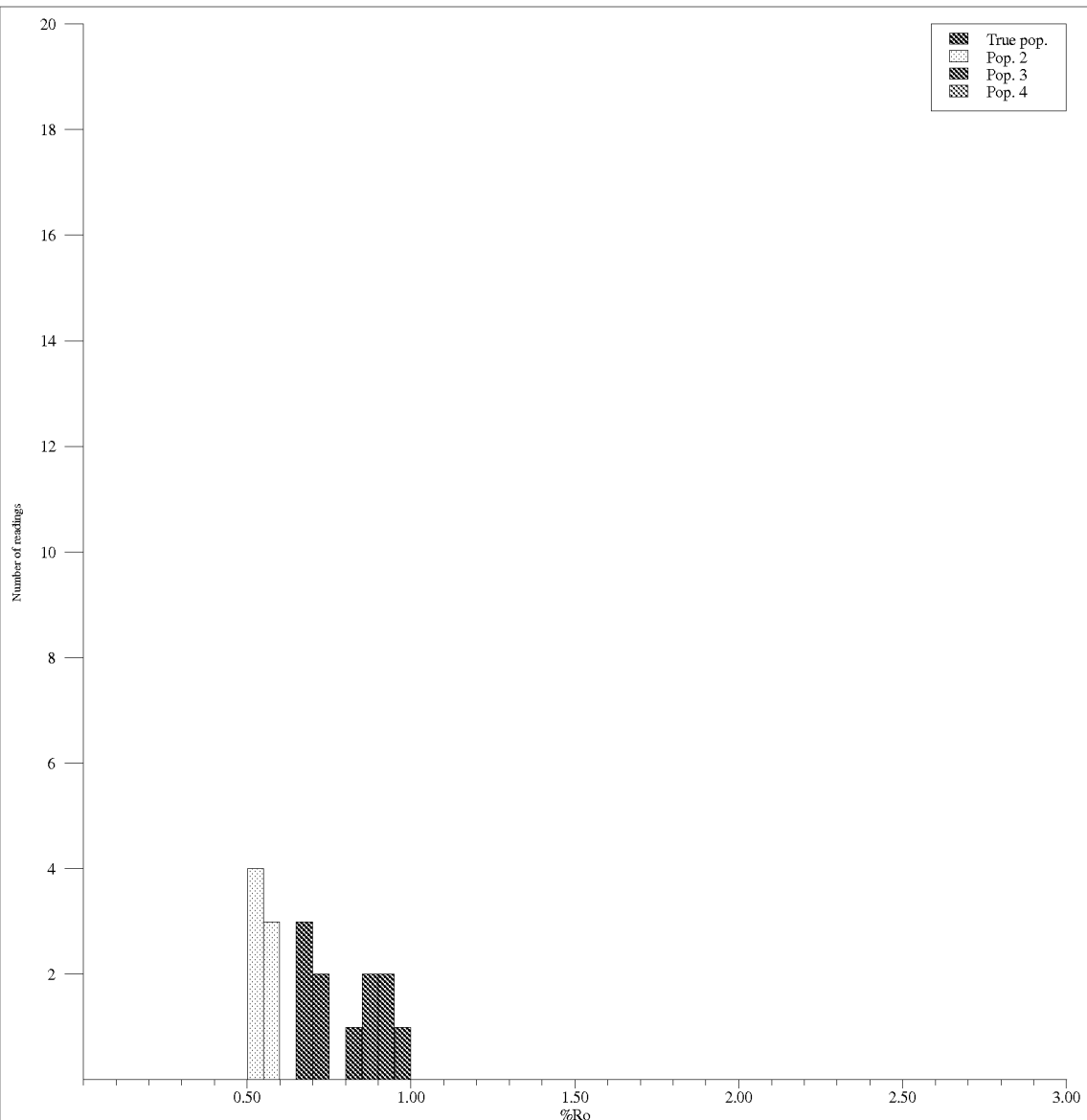


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.72±0.08	0.53±0.04	1.00±0.05	1.26±0.08
Lower depth	2610	Individual	0.620	0.480	0.900	1.210
Sample type	DC	measurements	0.640	0.510	1.000	1.220
Lithology	SH	3	0.650	0.540	1.020	1.360
Preparation	Bulk	4	0.660	0.570	1.020	
Date of analysis	25.02.2009	5	0.720		1.040	
APT ID	56313	6	0.780		1.040	
Quality ratings:		7	0.780			
		8	0.800			
		9	0.840			
		10				
		11				
		12				
		13				
		14				
		15				
		16				
Legend to quality ratings:		17				
Average sample quality	M	18				
Abundance of vitrinite	o	19				
Identification of vitrinite	-	20				
Type of vitrinite	o	21				
Particle size	o	22				
Particle surface quality	o	23				
Abundance of pyrite	+	24				
No effect on the readings	o	25				
Possibly too low readings	-	26				
Possibly too high readings	+					
Good quality	G					
Moderate quality	M					
Poor quality	P					
Not vitrinite	X					
Hydrocarbon staining	St					
Comments:						
Moderate amount of vitrinite, with some large pieces of inertinite.						

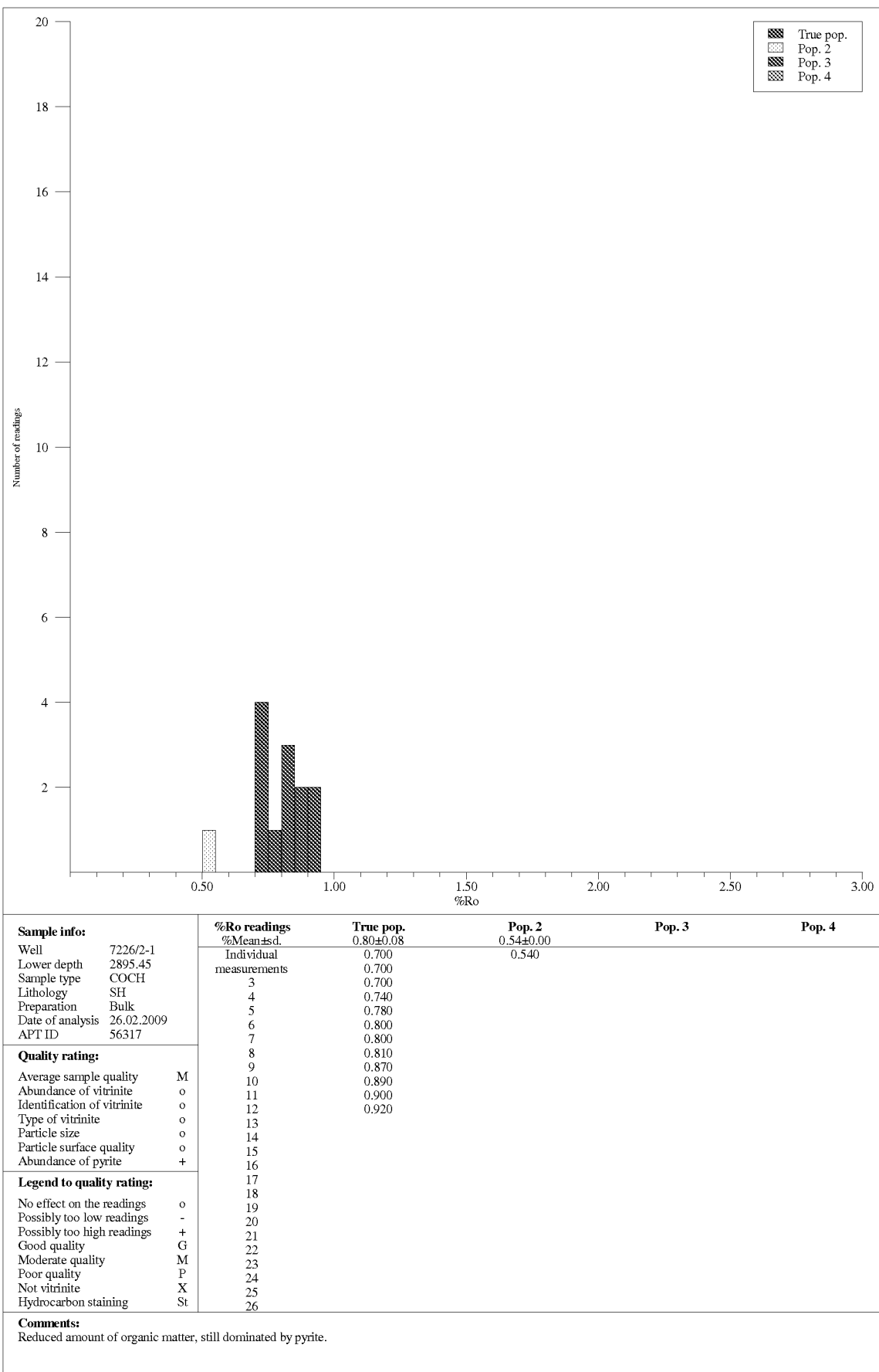


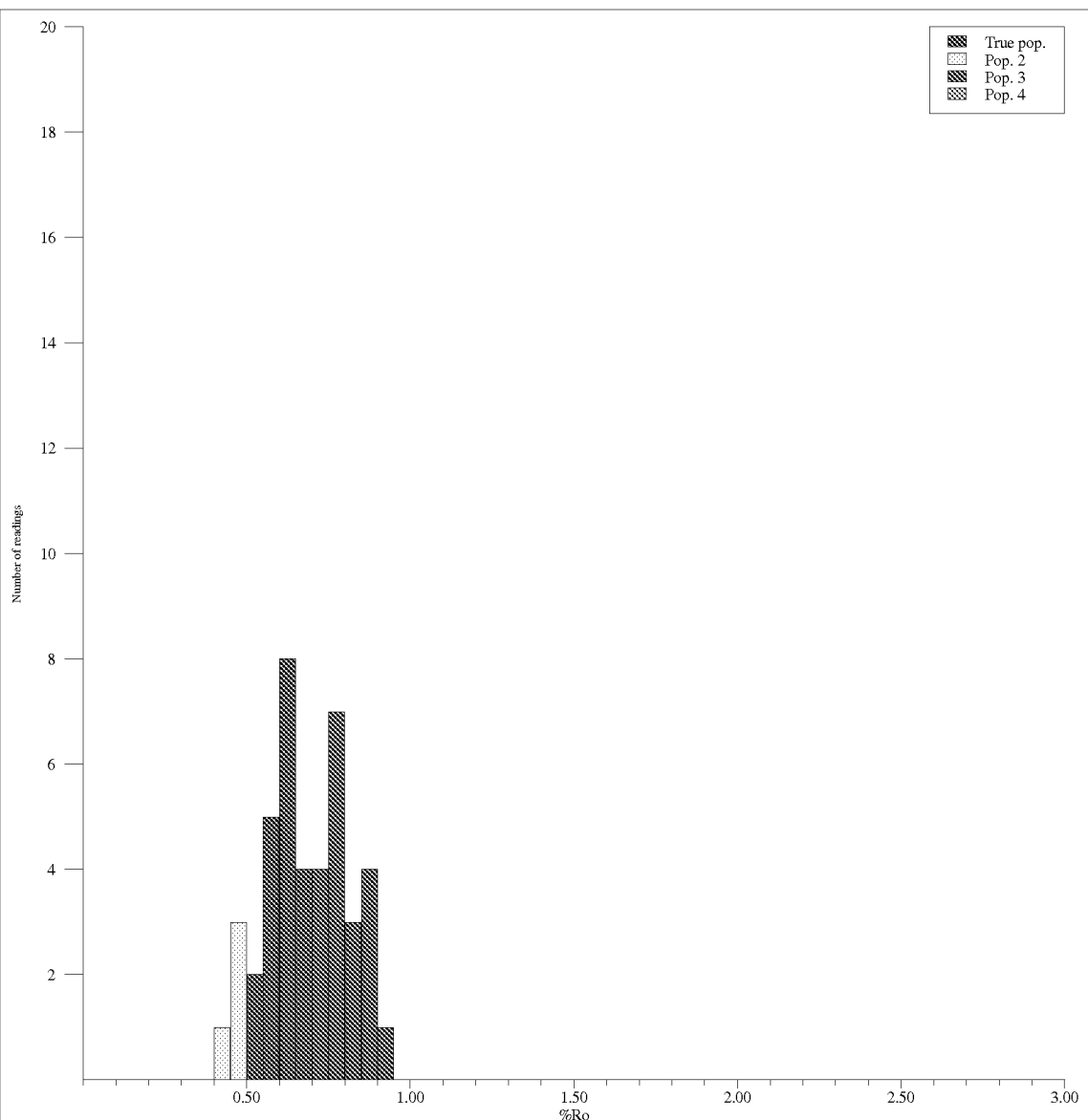
Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1	%Mean±sd.	0.75±0.09	0.50±0.03	1.01±0.02	
Lower depth	2706	Individual	0.650	0.480	0.990	
Sample type	DC	measurements	0.680	0.480	1.020	
Lithology	SH	3	0.690	0.540		
Preparation	Bulk	4	0.800			
Date of analysis	26.02.2009	5	0.810			
APT ID	56314	6	0.870			
Quality ratings:		7				
Average sample quality	P	8				
Abundance of vitrinite	-	9				
Identification of vitrinite	o	10				
Type of vitrinite	-	11				
Particle size	-	12				
Particle surface quality	o	13				
Abundance of pyrite	+	14				
Legend to quality ratings:		15				
No effect on the readings	o	16				
Possibly too low readings	-	17				
Possibly too high readings	+	18				
Good quality	G	19				
Moderate quality	M	20				
Poor quality	P	21				
Not vitrinite	X	22				
Hydrocarbon staining	St	23				
Comments:		24				
Very little organic matter to measure. What was measurabel was small and wispy. Additive present.		25				
		26				



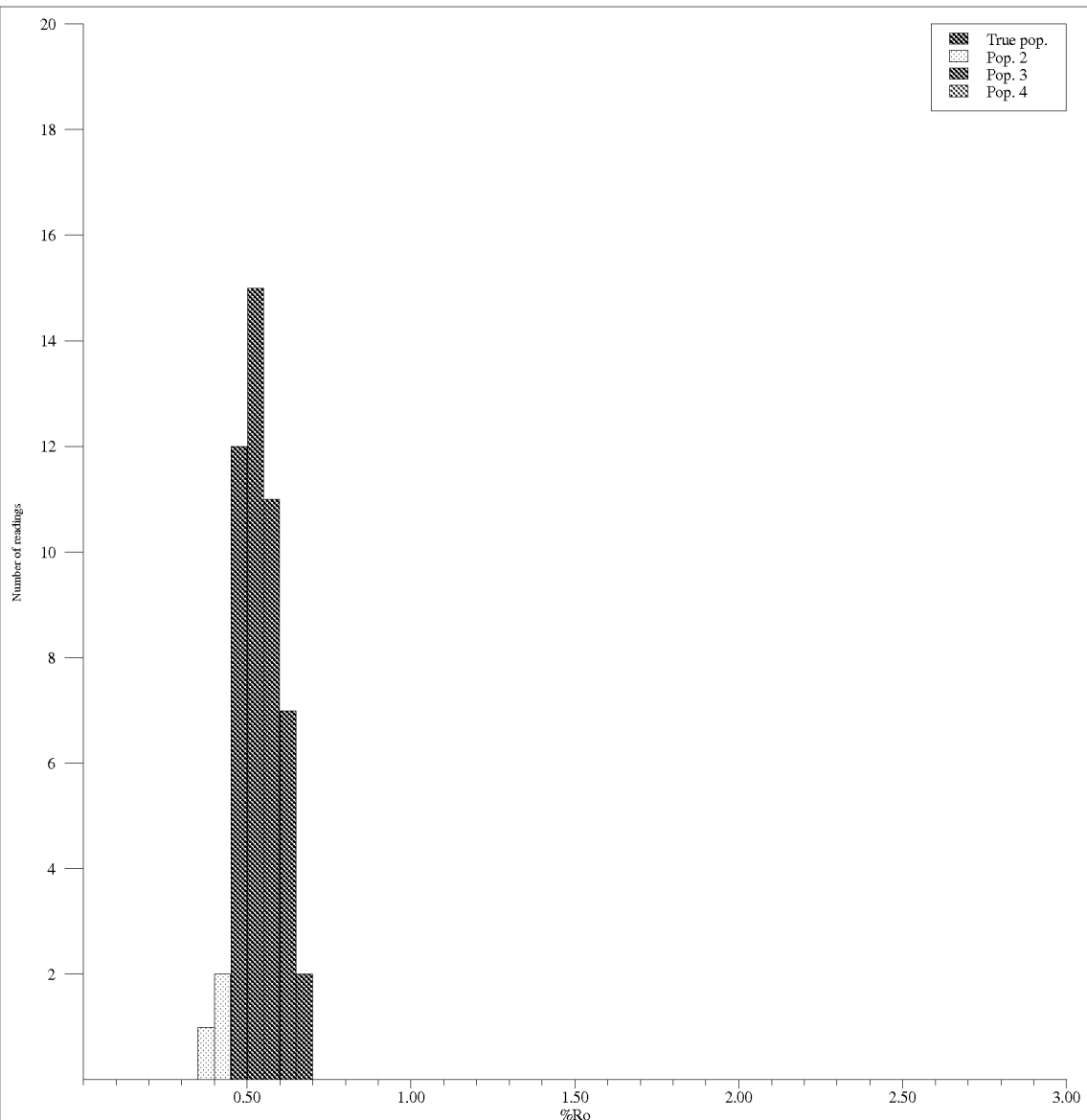


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1		0.73±0.07	0.53±0.04	0.92±0.05	
Lower depth	2856	Individual	0.670	0.500	0.880	
Sample type	DC	measurements	0.670	0.500	0.900	
Lithology	SH	3	0.680	0.500	0.900	
Preparation	Bulk	4	0.700	0.520	0.990	
Date of analysis	26.02.2009	5	0.710	0.550		
APT ID	56316	6	0.800	0.560		
Quality ratings: Average sample quality P Abundance of vitrinite o Identification of vitrinite o Type of vitrinite + Particle size o Particle surface quality o Abundance of pyrite +		7	0.850	0.590		
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
Legend to quality ratings: No effect on the readings o Possibly too low readings - Possibly too high readings + Good quality G Moderate quality M Poor quality P Not vitrinite X Hydrocarbon staining St		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				
		26				
Comments: Sample dominated by pyrite (framboids) with some minor metal and additives. Moderate organic matter some hard to measure due to size and shape.						

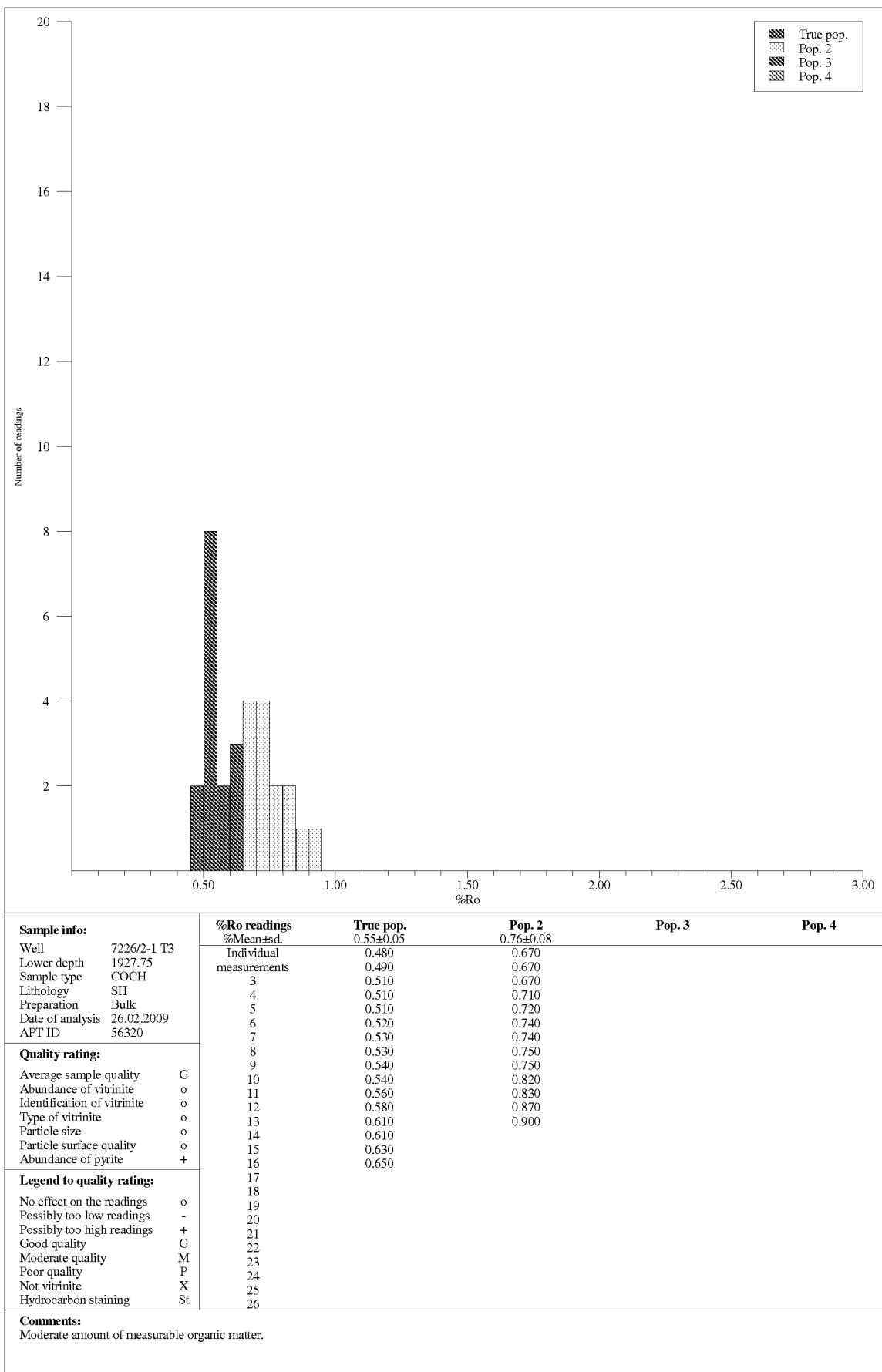


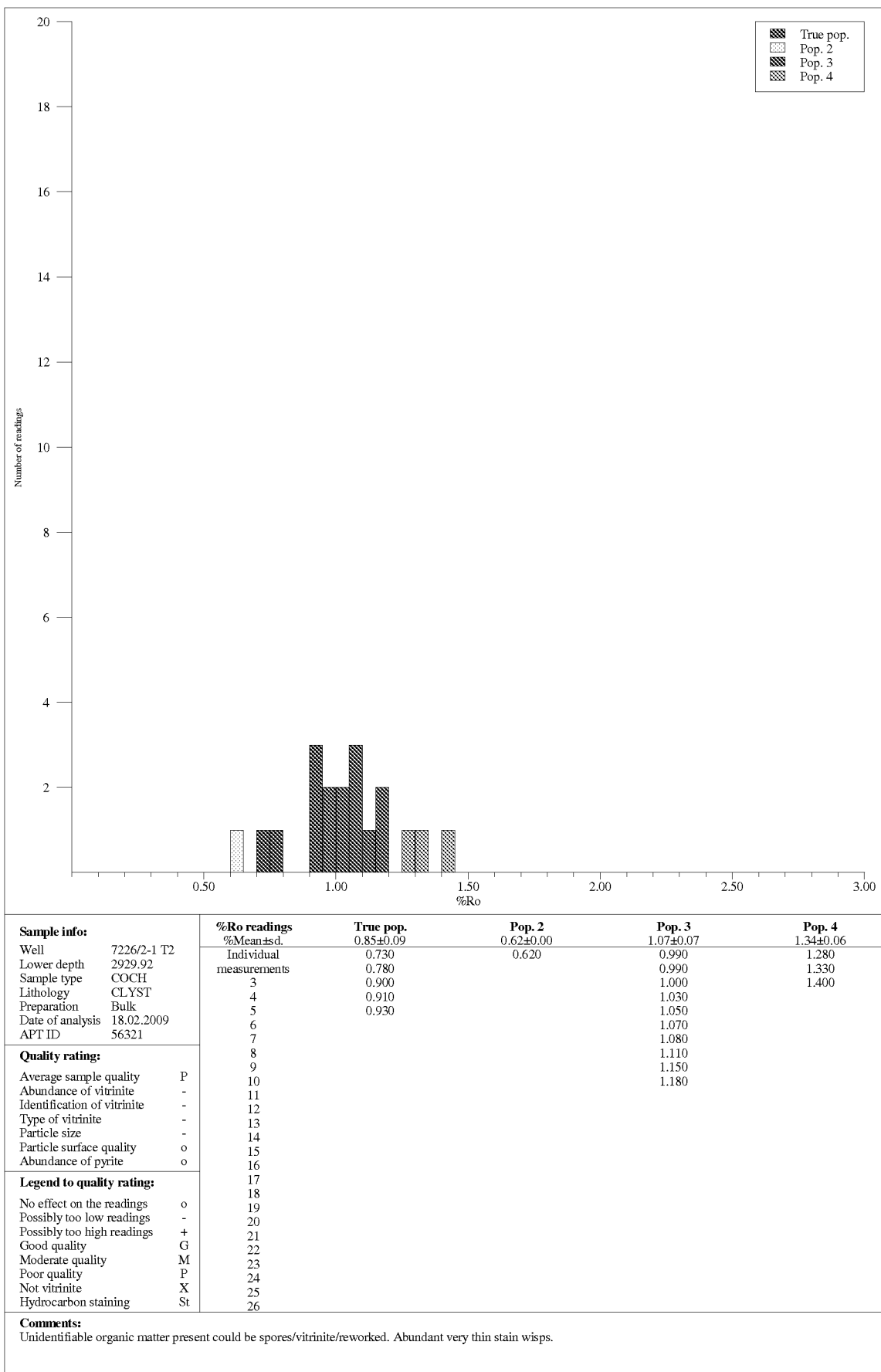


Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1 T3	%Mean±sd.	0.61±0.05	0.47±0.02	0.80±0.05	
Lower depth	1902.58	Individual	0.510	0.440	0.730	
Sample type	COCH	measurements	0.520	0.460	0.730	
Lithology	SH	3	0.550	0.480	0.740	
Preparation	Bulk	4	0.550	0.490	0.760	
Date of analysis	26.02.2009	5	0.560		0.770	
APT ID	56318	6	0.580		0.770	
Quality ratings:		7	0.590		0.780	
		8	0.620		0.780	
		9	0.630		0.790	
		10	0.630		0.790	
		11	0.630		0.800	
		12	0.630		0.810	
		13	0.630		0.840	
		14	0.630		0.870	
		15	0.640		0.870	
		16	0.660		0.870	
Legend to quality ratings:		17	0.660		0.880	
		18	0.670		0.900	
		19	0.690			
		20	0.700			
		21				
		22				
		23				
		24				
		25				
		26				
Comments:		Abundance of organic matter. Possible additives of low and high reflecting material.				



Sample info:		%Ro readings	True pop.	Pop. 2	Pop. 3	Pop. 4
Well	7226/2-1 T3	%Mean±sd.	0.54±0.06	0.40±0.01		
Lower depth	1919.80	Individual measurements	0.460 0.540	0.390		
Sample type	COCH	3	0.460 0.550	0.410		
Lithology	COAL	4	0.460 0.550	0.410		
Preparation	Bulk	5	0.470 0.560			
Date of analysis	26.02.2009	6	0.480 0.560			
APT ID	56319	7	0.480 0.560			
Quality ratings:		8	0.480 0.570			
Average sample quality	G	9	0.480 0.570			
Abundance of vitrinite	o	10	0.480 0.580			
Identification of vitrinite	o	11	0.490 0.580			
Type of vitrinite	o	12	0.490 0.590			
Particle size	o	13	0.500 0.600			
Particle surface quality	-	14	0.510 0.620			
Abundance of pyrite	+	15	0.510 0.620			
Legend to quality ratings:		16	0.510 0.630			
No effect on the readings	o	17	0.520 0.630			
Possibly too low readings	-	18	0.520 0.640			
Possibly too high readings	+	19	0.520 0.640			
Good quality	G	20	0.520 0.650			
Moderate quality	M	21	0.530 0.660			
Poor quality	P	22	0.530			
Not vitrinite	X	23	0.530			
Hydrocarbon staining	St	24	0.530			
Comments:		25	0.540			
Coal with an abundance of pyrite imbedded into vitrinite.		26	0.540			





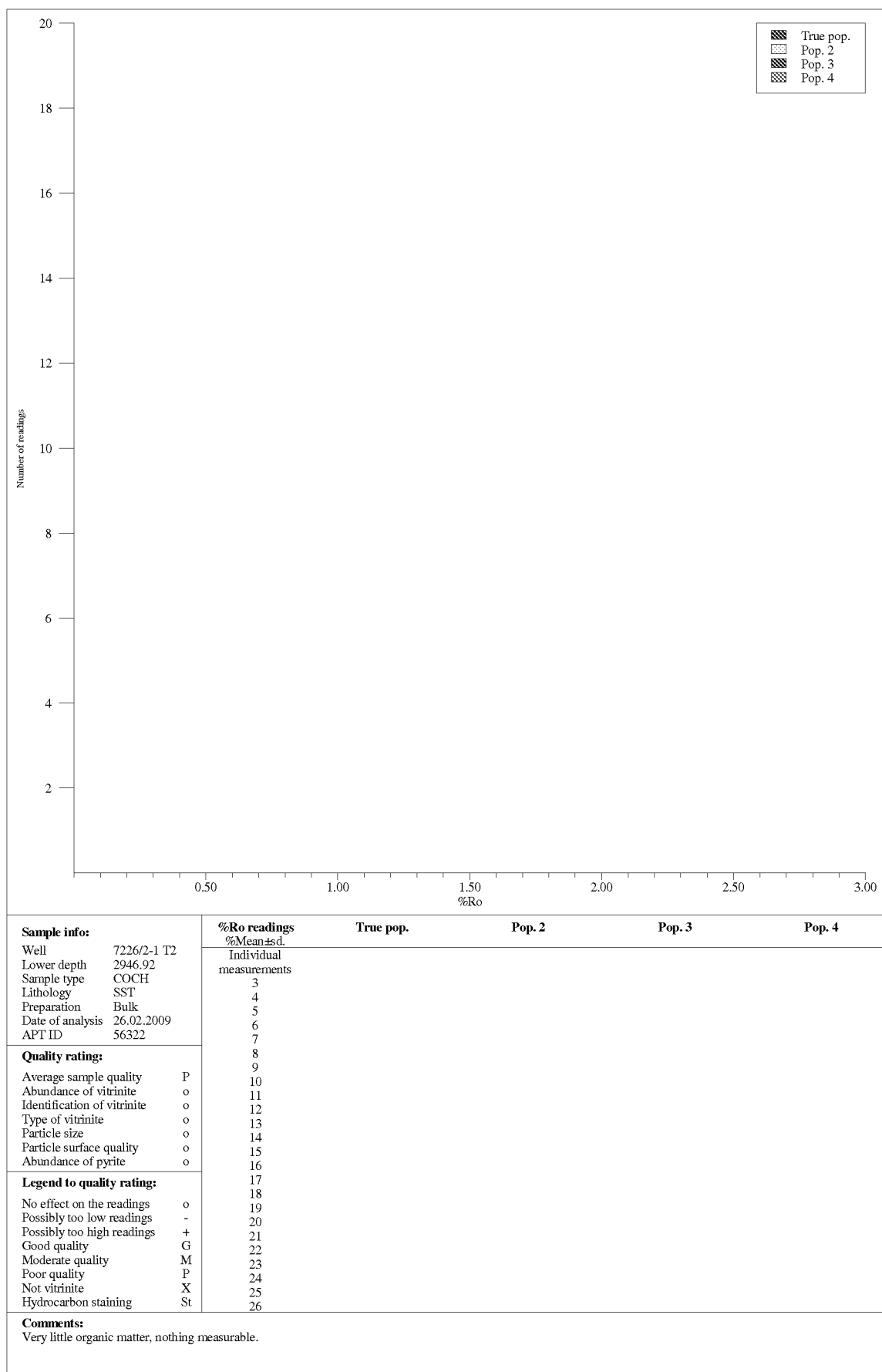


Table 2. Vitrinite Reflectance

Well	Sample type	Lower Depth (m)	APT ID	Sample prep.	%Lithology	%Ro	Std. dev.	No. of measurements	Quality rating	Overall quality	Comment
7226/2-1	DC	558	56288	Bulk	SH	0.36	0.05	29	oooooooo	G	See data sheet
7226/2-1	DC	654	56289	Bulk	SH	0.38	0.04	17	oooooooo	G	See data sheet
7226/2-1	DC	783	56290	Bulk	SH	0.41	0.05	6	-oooooooo	M	See data sheet
7226/2-1	DC	822	56291	Bulk	SLTST	0.36	0.00	1	-oo---+	P	See data sheet
7226/2-1	DC	861	56292	Bulk	SH	0.38	0.05	51	+oooooooo	G	See data sheet
7226/2-1	COCH	917.41	56293	Bulk	SH	0.38	0.04	12	-oooo+	M	See data sheet
7226/2-1	COCH	923.52	56294	Bulk	COAL	0.40	0.04	52	+oooooooo	G	See data sheet
7226/2-1	COCH	929.15	56295	Bulk	COAL	0.36	0.02	52	+oooooooo	G	See data sheet
7226/2-1	COCH	945.40	56296	Bulk	COAL	0.37	0.03	52	+oooooooo	G	See data sheet
7226/2-1	COCH	948.27	56297	Bulk	COAL	0.37	0.03	52	+oooooooo	G	See data sheet
7226/2-1	DC	960	56298	Bulk	SH	0.36	0.06	26	oooooooo	G	See data sheet
7226/2-1	DC	1050	56299	Bulk	SH	0.51	0.03	13	+oooooooo	G	See data sheet
7226/2-1	DC	1116	56300	Bulk	SLTST	0.50	0.06	2	o----o	P	See data sheet
7226/2-1	DC	1236	56301	Bulk	SH	0.50	0.06	9	oooooooo	M	See data sheet
7226/2-1	DC	1308	56302	Bulk	SH	0.44	0.07	49	oooooooo	G	See data sheet
7226/2-1	DC	1443	56303	Bulk	SH	0.50	0.03	20	+oooooooo	G	See data sheet
7226/2-1	DC	1590	56304	Bulk	SH	0.50	0.06	32	oooooooo	G	See data sheet
7226/2-1	DC	1695	56305	Bulk	SH	0.53	0.07	18	ooo-o+	G	See data sheet
7226/2-1	DC	1875	56306	Bulk	SH	0.55	0.07	14	ooo-oo	G	See data sheet
7226/2-1	DC	2073	56307	Bulk	SH	0.60	0.06	37	+oooo+	G	See data sheet
7226/2-1	DC	2187	56308	Bulk	SH	0.66	0.06	7	oooooooo	M	See data sheet
7226/2-1	DC	2253	56309	Bulk	SH	0.65	0.07	32	ooooo+	G	See data sheet
7226/2-1	DC	2343	56310	Bulk	CLYST	0.67	0.05	8	oo-ooo	M	See data sheet
7226/2-1	DC	2442	56311	Bulk	SH	0.60	0.08	2	ooo-oo	P	See data sheet
7226/2-1	DC	2532	56312	Bulk	SH	0.72	0.06	12	ooooo+	M	See data sheet
7226/2-1	DC	2610	56313	Bulk	SH	0.72	0.08	9	o-ooo+	M	See data sheet
7226/2-1	DC	2706	56314	Bulk	SH	0.75	0.09	6	-o--o+	P	See data sheet
7226/2-1	DC	2796	56315	Bulk	SH	0.74	0.09	4	--o-o+	P	See data sheet
7226/2-1	DC	2856	56316	Bulk	SH	0.73	0.07	7	oo+oo+	P	See data sheet
7226/2-1	COCH	2895.45	56317	Bulk	SH	0.80	0.08	12	ooooo+	M	See data sheet
7226/2-1 T3	COCH	1902.58	56318	Bulk	SH	0.61	0.05	20	ooooo+	G	See data sheet
7226/2-1 T3	COCH	1919.80	56319	Bulk	COAL	0.54	0.06	47	oooo+	G	See data sheet
7226/2-1 T3	COCH	1927.75	56320	Bulk	SH	0.55	0.05	16	ooooo+	G	See data sheet
7226/2-1 T2	COCH	2929.92	56321	Bulk	CLYST	0.85	0.09	5	----oo	P	See data sheet
7226/2-1 T2	COCH	2946.92	56322	Bulk	SST	barren					See data sheet

Legend to Vitrinite reflectance data

Lithology code		Sample quality		Sample preparation	
sst	Sandstone	G	Good	HF	Sample treatment with hydrofluoric acid prior to analysis
slst	Siltstone	M	Moderate		
clyst	Claystone	P	Poor	Bulk	Sample treated as bulk rock
sh	Shale	st	Hydrocarbon staining		
lst	Limestone				
coal	Coal				

Sample description and measurement evaluation (perfect sample characterised as: oooooo)			
Sign order	Parameter	Sign	Sign legend:
1	Abundance of vitrinite	-o	- May give too low vitrinite reflectance sample value
2	Identification of vitrinite	-o+	o Reliable vitrinite reflectance sample value
3	Type of vitrinite	-o+	+ May give too high vitrinite reflectance sample value
4	Vitrinite fragment size	-o	
5	Vitrinite surface quality	-o	
6	Abundance of pyrite	o+	

Experimental Procedures

All procedures follow NIGOGA, 4th Edition. Below are brief descriptions of procedures/analytical conditions.

Sample preparation

Cuttings samples are washed in water to remove mud. When oil based mud is used, soap (Zalo) is added to the sample and the sample is washed thoroughly in warm water to remove mud and soap.

Vitrinite reflectance analysis

Reflected light studies are carried out using both whole rock (bulk) samples and kerogen concentrate, mounted in resin blocks and polished. The whole rock pieces are mixed with resin and allowed to set in moulds, while the kerogen is mounted in pre cast blocks, drilled to allow for the introduction of the kerogen concentrate, prior to mixing with resin.

The surface of the blocks is ground flat on carborundum papers using three dry grinding stages of 180, 240 and 600 grades of carborundum. Polishing is carried out in three stages; 5/20, 3/50 & gamma alumina on Selvyt cloths, using isopropanol as lubricant. This polishing is done by hand on stationary laps. The finished blocks are mounted on microscope slides using a hand press and a small lump of plasticine, which ensures that the polished surface is normal to the incident light.

Reflectivity studies are conducted with a Zeiss Epiplan - Neofluar x40 oil immersion objective and x10.0 eyepieces, giving a total visual magnification of x400. The immersion oil used is Zeiss Immersol 518F having a refractive index of 1.518 at 23°C. Measurements are made in light at a wavelength of 546nm (green) which is the ICCP standard. The measuring aperture is circular with a diameter of 1.6 micron.

Measurements made are of Ro. (aver.) which means they are made in polarised light; as against Ro. random which are made in nominally un-polarised light, although some degree of polarisation is imparted by the coated cover slip of the vertical illuminator. Two of three standards are used; Spinel, with a Ro. in oil of 0.588%, Yttrium-Aluminium-Garnet with a Ro. in oil of 0.879% and Gadolinium-Gallium-Garnet with a Ro. of 1.696%. The choice of standards used is dependent on the expected range of reflectance of the samples being examined. The two selected standards are used each time a sample is analysed; a high degree of linearity in photometer response (R^2 0.99 or 1.00) is expected and obtained before analysis commences.

The polished surface of the block is searched for vitrinite phytoclasts until 55 have been measured or for half an hour, whichever is the sooner. For each sample 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. All the observations and data are recorded into a digital spreadsheet format for QC purposes.

The techniques used for evaluation of the form, habit and thermal exposure of hydrocarbon residues (bitumen) are essentially the same as for the measurement of vitrinite reflectivity.

Geochemistry Data Report

Gas Analysis Well 7226/2-1



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	Name	Date	Signature
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Approved by	Tore Haaland	2008-12-19	

Well	Type	Depth (m MD RKB)	CO2_ _am	C1_ _am	C2_ _am	C3_ _am	iC4_ _am	C4_ _am	iC5_ _am	C5_ _am	C6_ _am	ppm Total_ _am
7226/2-1	FLUI	905.2	0.38	98	1.2	0.31	0.04	0.03	0.01	0	0.02	961275
7226/2-1	FLUI	1747.8	0.14	93.2	3	1.8	0.45	0.66	0.28	0.2	0.32	994113
7226/2-1	FLUI	1903.7	0.1	94.1	2.9	1.6	0.33	0.46	0.18	0.13	0.2	991766
7226/2-1	FLUI	1920.3	0.03	95.1	2.5	1.3	0.26	0.35	0.15	0.11	0.23	987196

Well	Type	Depth (m MD RKB)	D13CC1_ _am	D13CC2_ _am	D13CC3_ _am	D13CC4_ _am	D13CIC4_ _am
NO 7226/2-1	FLUI	905.2	-41	-35.7	-33	-31.6	-31.3
NO 7226/2-1	FLUI	1747.8	-41.5	-35.2	-32.8	-31.8	-31.5
NO 7226/2-1	FLUI	1903.7	-41.6	-35.4	-32.9	-32.2	-31.7
NO 7226/2-1	FLUI	1920.3	-41.3	-36.1	-32.7	-31	-30.9

Experimental Procedures

All procedures follow NIGOGA, 4th Edition. Below are brief descriptions of procedures/analytical conditions.

GC analysis of gas components

Aliquots of the samples were transferred to exetainers. 0.1-1ml were sampled using a Gerstel MPS2 autosampler and injected into a Agilent 7890 RGA GC equipped with Molsieve and Poraplot Q columns, a flame ionisation detector (FID) and 2 thermal conductivity detector (TCD). Hydrocarbons were measured by FID. H₂, CO₂, N₂ and O₂/Ar by TCD.

Carbon isotope analysis of hydrocarbon compounds and CO₂

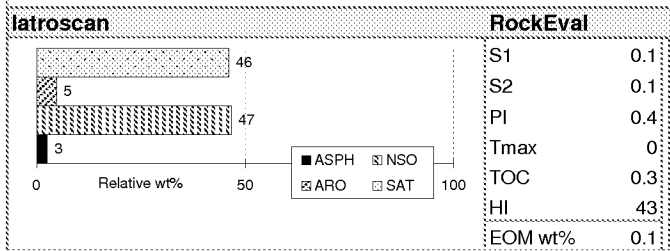
The carbon isotopic composition of the hydrocarbon gas components was determined by a GC-C-IRMS system. Aliquots were sampled with a syringe and analysed on a Trace GC2000, equipped with a Poraplot Q column, connected to a Delta plus XP IRMS. The components were burnt to CO₂ and water in a 1000 °C furnace over Cu/Ni/Pt. The water was removed by Nafion membrane separation. Repeated analyses of standards indicate that the reproducibility of $\delta^{13}\text{C}$ values is better than 1 ‰ PDB (2 sigma).

Hydrogen isotope analysis of methane

The hydrogen isotopic composition of methane was determined by a GC-C-IRMS system. Aliquots were sampled with a GCPal and analysed on a Trace GC2000, equipped with a Poraplot Q column, connected to a Delta plus XP IRMS. The components were decomposed to H₂ and coke in a 1400 °C furnace. The international standard NGS-2 and an in-house standard (Std A) were used for testing accuracy and precision. The “true” value of NGS-2 is given to -172.5 ‰ V-SMOW (<http://deuterium.nist.gov/standards.html>). Repeated analyses of standards indicate that the reproducibility of δD values is better than 10 ‰ PDB (2 sigma).

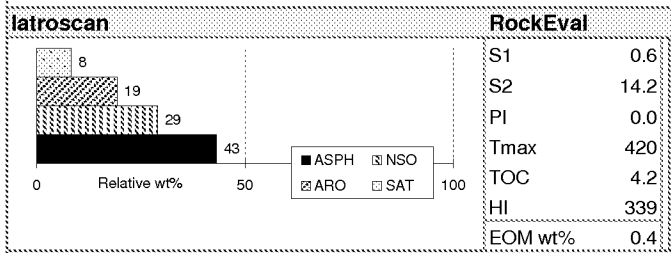
Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 822-822 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2506327, PlanID: 700655



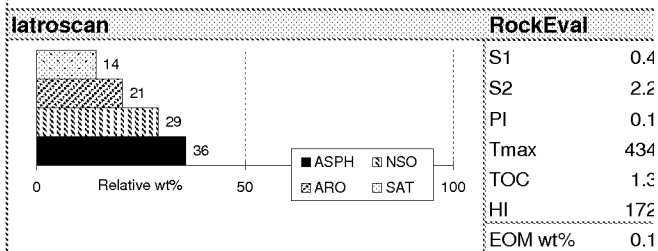
Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 837-837 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2508241, PlanID: 700947



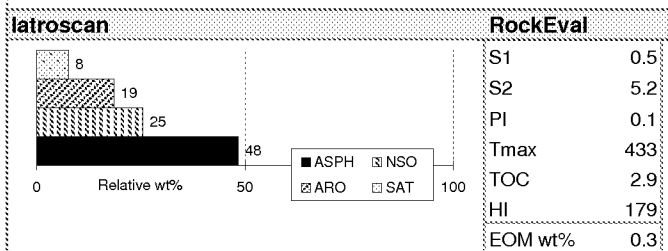
Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 960-960 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2506329, PlanID: 700861



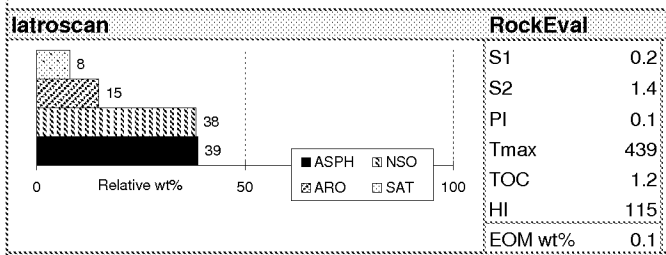
Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 1305.01-1305.01 m MD RKE
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2508257, PlanID: 700951



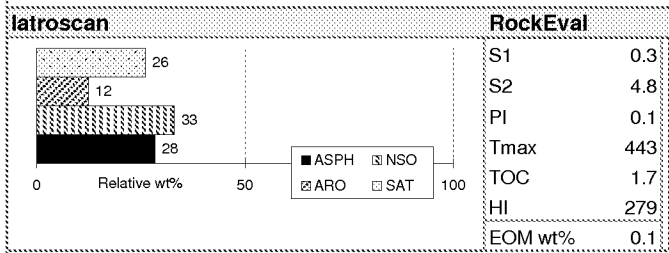
Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 1308-1308 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2506342, PlanID: 700865



Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 1311-1311 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2506343, PlanID: 700888



Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): MUD, 1350-1350 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

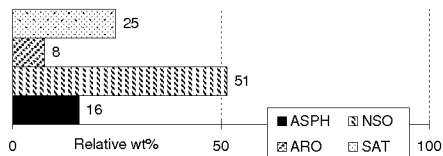
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2503995, PlanID: 701072

Fluid

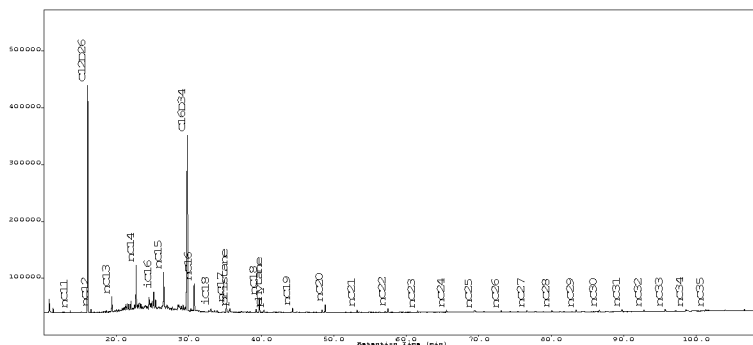
latroscan



$\delta^{13}C$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

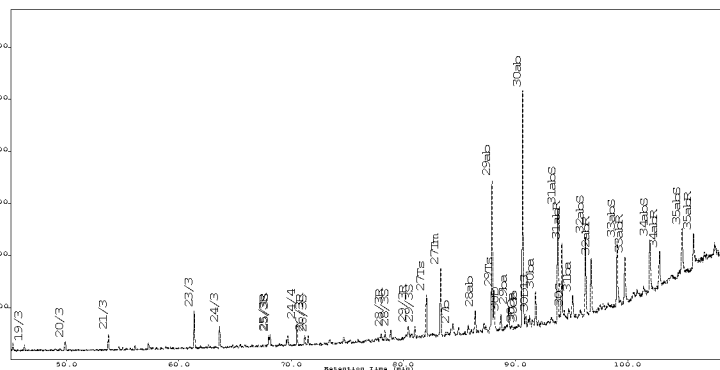
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.6
Ph/nC ₁₈	0.2
Pr/Ph	1.5
nC ₁₇ /((C ₁₇ +C ₂₇))	0.8
CPI2	1.3
nC ₁₇	0.2
Pristane	0.1
$\Sigma\text{C15-C35}$	3

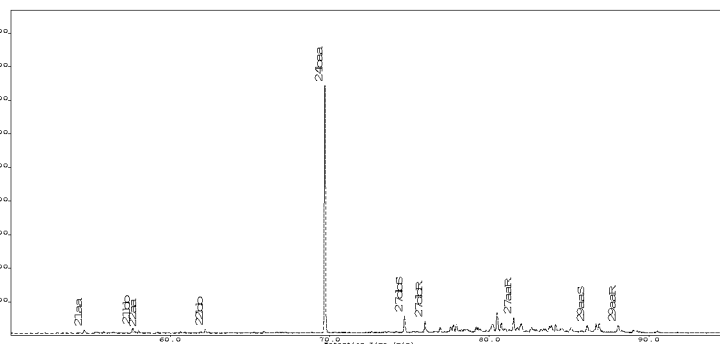
Terpanes, m/z 191:



Parameter/amounts, ng/mg

%Tri	10.22
%20/3	7.6
%23/3	53.6
%24/4	41.0
C26/C25	1.0
%27Ts	39.2
%28 $\alpha\beta$	13.4
%29Ts	19.9
%25nor30 $\alpha\beta$	7.6
%29 $\alpha\beta$	48.9
%30 $\beta\alpha$	12.3
%30D	10.9
%30G	7.4
%32 $\alpha\beta$ S	58.0

Steranes, m/z 217:

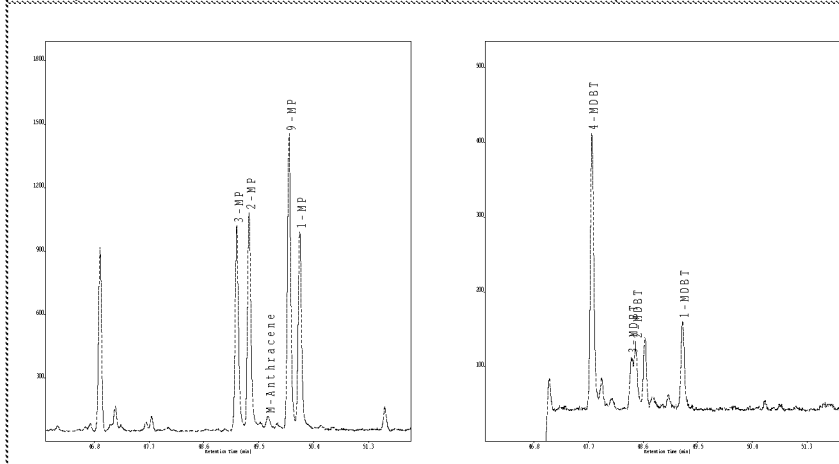


%35 $\alpha\beta$	47.8
30 $\alpha\beta$	4.0
25nor30 $\alpha\beta$	0.3
Σ terpanes	28
%Pregnane	10.7
%29 $\alpha\alpha$ S	50.3
%29 $\beta\beta$	63.1
%27dia	50.2
%27ster. Norm	38.0
%28ster. Norm	25.6
%29ster. Norm	29.5
%30ster. Norm	6.9
Σ steranes	12
Hop/Ste	2.4

Country, well/location:	NO, NO 7226/2-1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	MUD, 1350-1350 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2503995, PlanID: 701072		

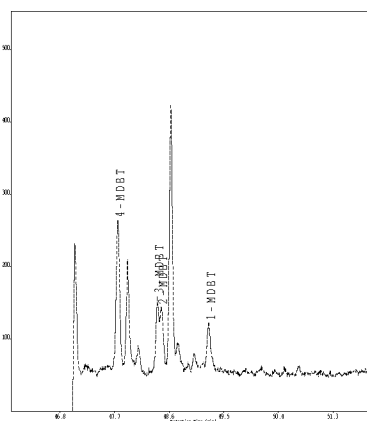
Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.13	
	2/1EN	2.19	
	Phen.	10	
	MPI1	0.39	
	F1 (2+3/all MP)	0.46	
	F2 (2/all MP)	0.23	
	%TAS	29	
	DBT/P	0.03	
	F/P	0.99	
	BP/1.6DMN	0.41	
	4/1MDBT	3.00	
	3MP/R	2.53	
	ΣARO HC	147	

Aromatic and Diamondoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):



Country, well/location: NO, NO 7226/2-1 Sample type, depth (m): MUD, 1350-1350 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%	
<			



Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): FLUI, 1747.8-1747.8 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

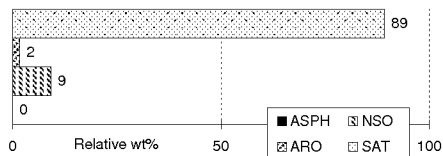
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2509626, PlanID: 701163

Fluid

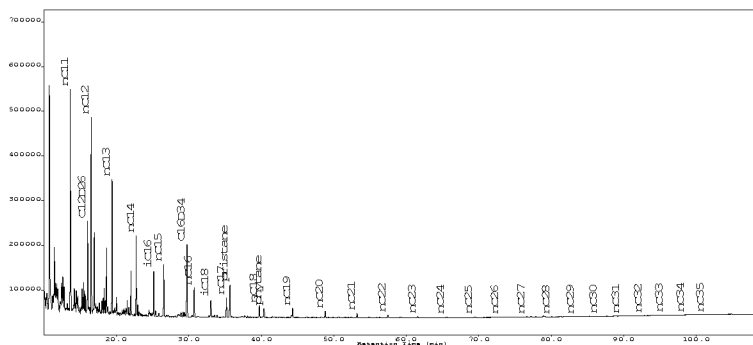
latroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

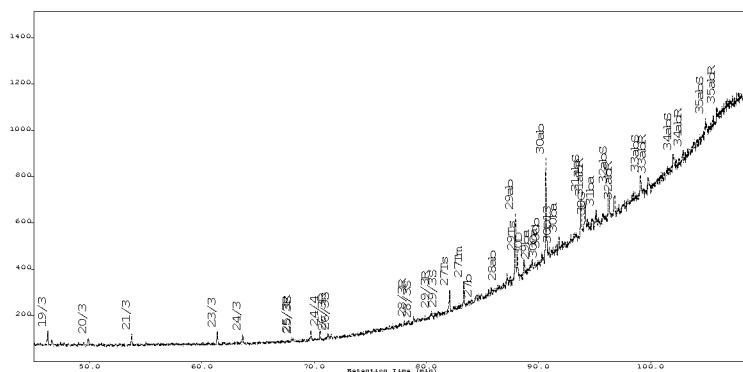
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	2.2
Ph/nC ₁₈	1.1
Pr/Ph	3.1
nC ₁₇ /(C ₁₇ +C ₂₇)	1.0
CPI2	0.8
nC ₁₇	1.0
Pristane	2.2
$\Sigma\text{C15-C35}$	13

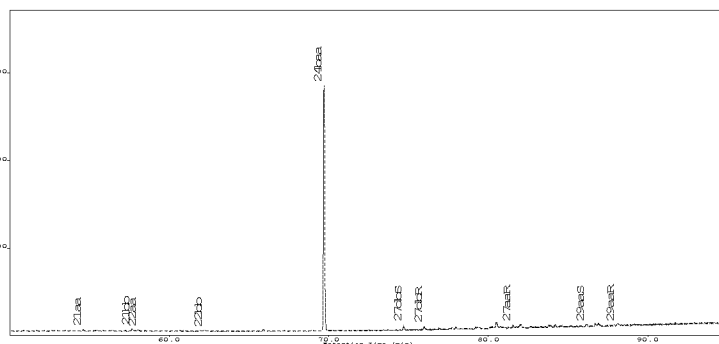
Terpanes, m/z 191:



Parameter/amounts, ng/mg

%Tri	12.74
%20/3	13.4
%23/3	47.1
%24/4	41.8
C26/C25	1.2
%27Ts	46.5
%28 $\alpha\beta$	11.3
%29Ts	26.9
%25nor30 $\alpha\beta$	7.1
%29 $\alpha\beta$	50.0
%30 $\beta\alpha$	13.7
%30D	22.8
%30G	18.7
%32 $\alpha\beta\text{S}$	60.6

Steranes, m/z 217:



%35 $\alpha\beta$	50.0
30 $\alpha\beta$	2.0
25nor30 $\alpha\beta$	0.2
$\Sigma\text{terpanes}$	13
%Pregnane	13.1
%29 $\alpha\alpha\text{S}$	60.4
%29 $\beta\beta$	64.4
%27dia	50.0
%27ster. Norm	37.4
%28ster. Norm	24.8
%29ster. Norm	31.3
%30ster. Norm	6.5
$\Sigma\text{steranes}$	4
Hop/Ste	3.5

Country, well/location:	NO, NO 7226/2-1	StatoilHydro Reserach Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1747.8-1747.8 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: , PlanID:		

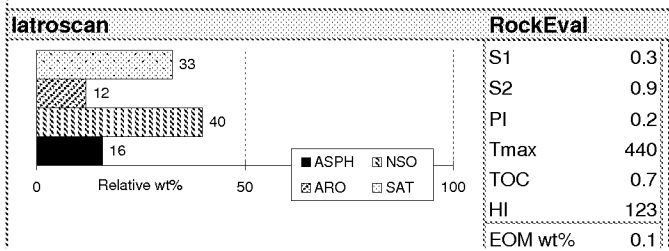
Gaseous HC:		Gaseous HC, wt%	
		Wetness	0.0
		iC4/nC4	
		C2/C3	
		CO2	
		Gaseous HC, isotopes ‰	
		d13C C1	-41.5
		d13C C2	-35.2
		d13C C3	-32.8
		d13C C4	-31.8
		d13C iC4	-31.5
		dD C1	-174

Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg	
		Hepane value	20.0
		Isohept. value	1.9
		Paraffinicity	0.7
		Aromaticity	0.2
		nC ₆ /Benzene	51.3
		nC ₇ /Toluene	7.0
		ΣC5-C20	671

Whole oil, GC/FID:		Parameter/amounts, ug/mg	

Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 1833-1833 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2508249, PlanID: 700954



Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): MUD, 1850-1850 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

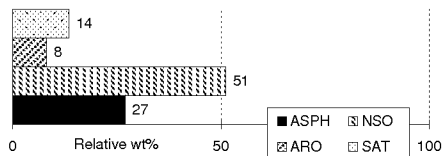
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2503996, PlanID: 701073

Fluid

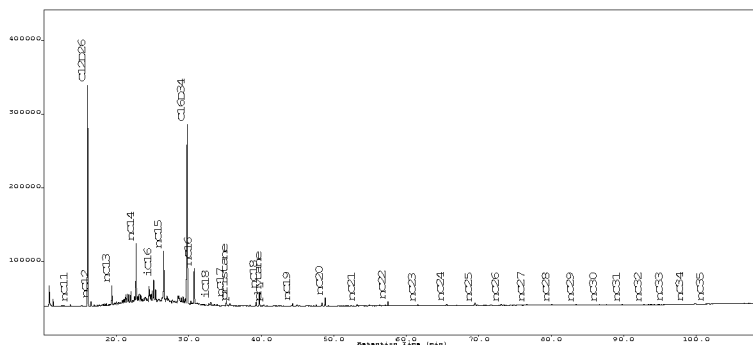
latroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

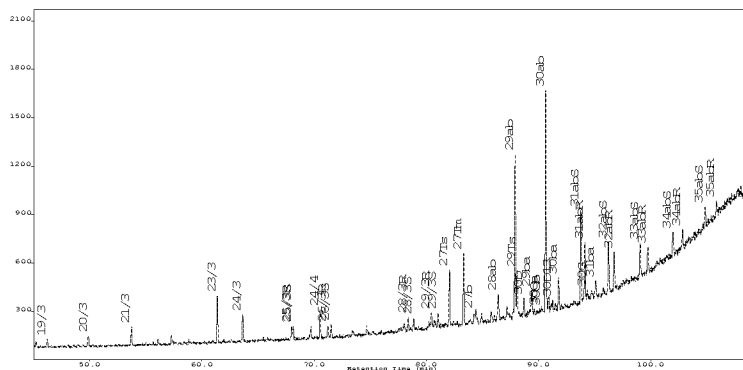
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.1
Pr/Ph	1.5
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.2
nC ₁₇	0.1
Pristane	0.1
ΣC15-C35	3

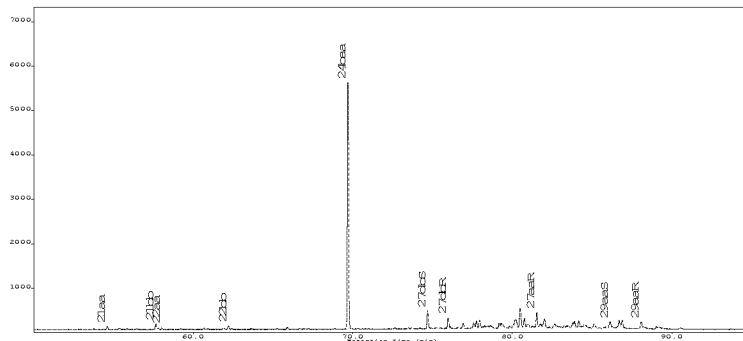
Terpanes, m/z 191:



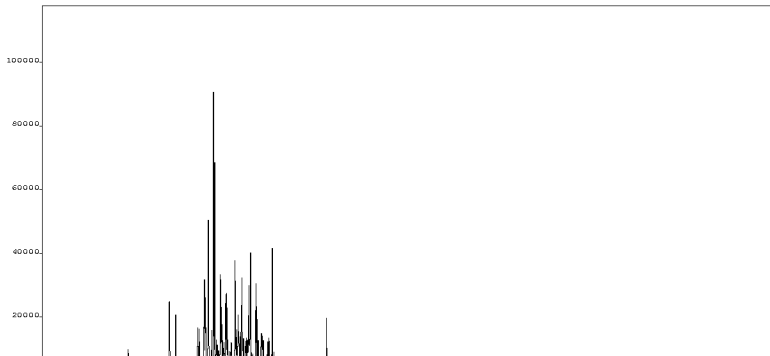
Parameter/amounts, ng/mg

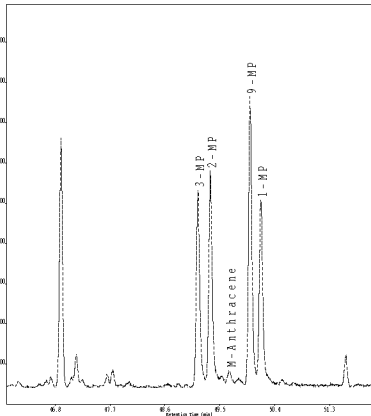
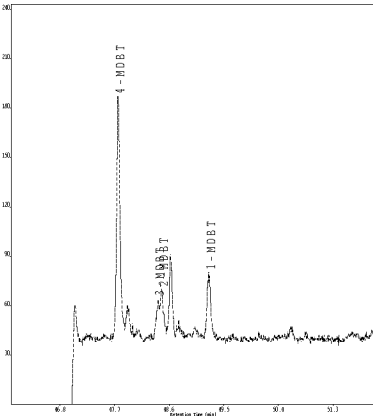
%Tri	14.49
%20/3	7.4
%23/3	53.9
%24/4	42.4
C26/C25	1.0
%27Ts	44.3
%28αβ	16.2
%29Ts	21.5
%25nor30αβ	8.2
%29αβ	52.8
%30βα	13.7
%30D	12.1
%30G	7.9
%32αβS	56.7
%35αβ	45.6
30αβ	2.9
25nor30αβ	0.3
Σterpanes	18
%Pregnane	10.6
%29ααS	50.7
%29ββ	63.8
%27dia	48.1
%27ster. Norm	39.8
%28ster. Norm	25.1
%29ster. Norm	28.9
%30ster. Norm	6.3
Σsteranes	12
Hop/Ste	1.6

Steranes, m/z 217:



Country, well/location:	NO, NO 7226/2-1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	MUD, 1850-1850 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2503996, PlanID: 701073		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.17	
	2/1EN	2.34	
	Phen.	9	
	MPI1	0.38	
	F1 (2+3/all MP)	0.46	
	F2 (2/all MP)	0.24	
	%TAS	33	
	DBT/P	0.03	
	F/P	1.57	
	BP/1.6DMN	0.44	
	4/1MDBT	3.25	
	3MP/R	2.88	
	ΣARO HC	200	

Aromatic and Diamondoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):
	

Country, well/location: NO, NO 7226/2-1 Sample type, depth (m): MUD, 1850-1850 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
	Wetness iC4/nC4 C2/C3 CO2	
	Gaseous HC, isotopes ‰ d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1	
Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg
		Heptane value Isohept. value Paraffinicity Aromaticity nC ₆ /Benzene nC ₇ /Toluene ΣC5-C20
Whole oil, GC/FID:		Parameter/amounts, ug/mg

Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): FLUI, 1903.7-1903.7 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

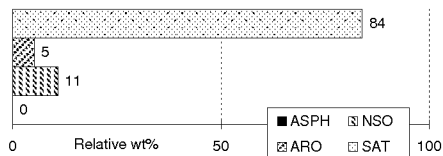
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2509630, PlanID: 701164

Fluid

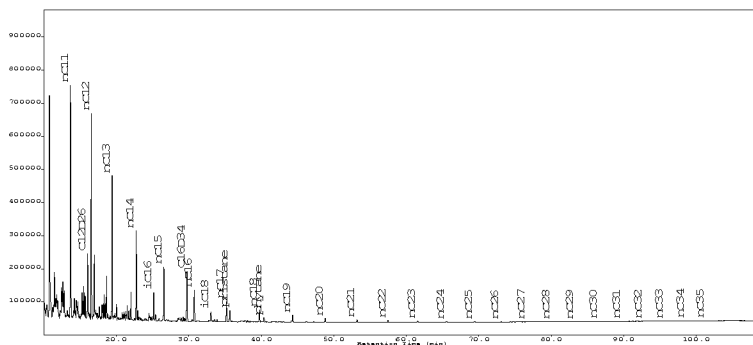
latroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

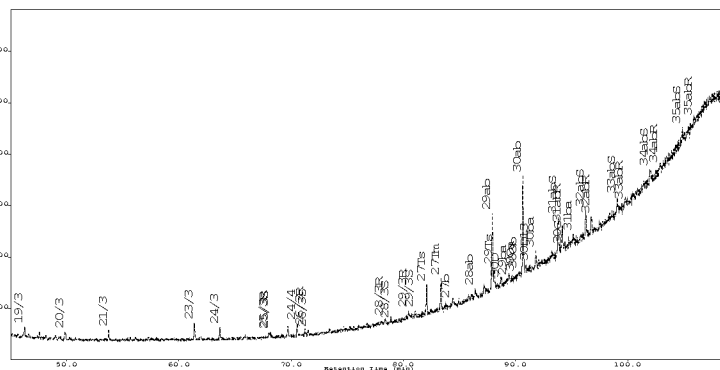
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.7
Ph/nC ₁₈	0.5
Pr/Ph	2.5
nC ₁₇ /(C ₁₇ +C ₂₇)	1.0
CPI2	0.7
nC ₁₇	1.5
Pristane	1.1
$\Sigma\text{C}_{15}\text{-C}_{35}$	13

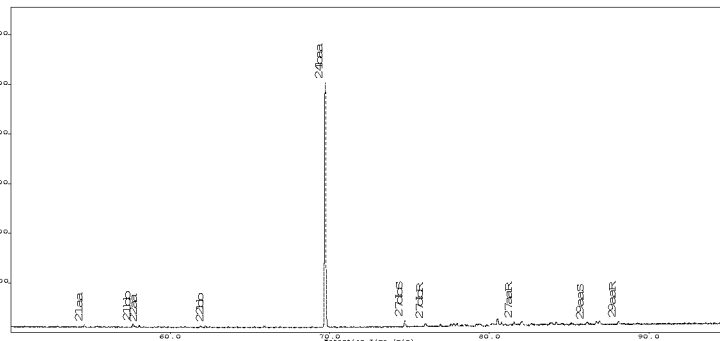
Terpanes, m/z 191:



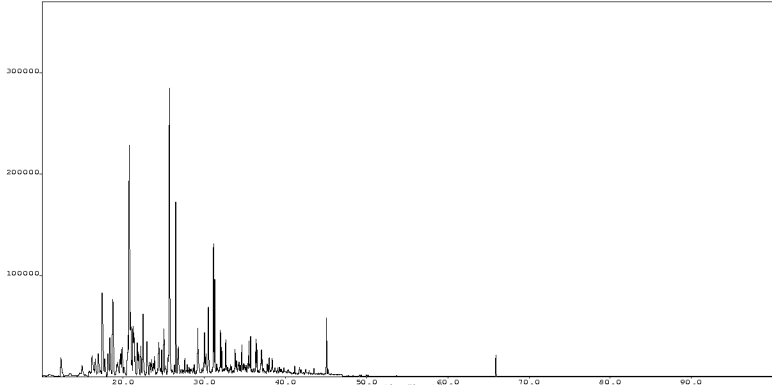
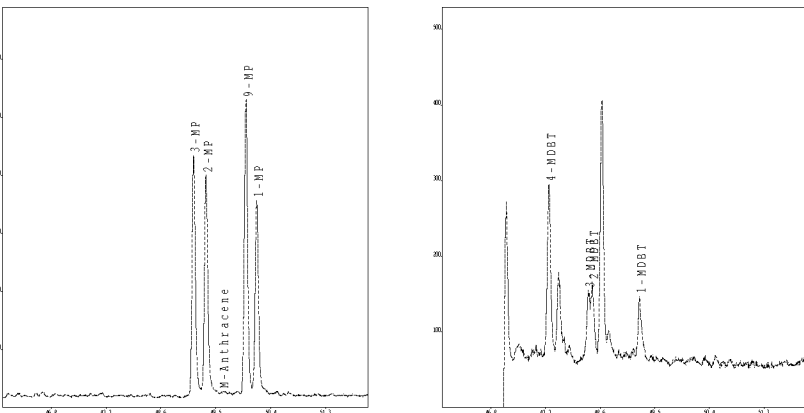
Parameter/amounts, ng/mg

%Tri	13.79
%20/3	11.1
%23/3	50.5
%24/4	46.7
C26/C25	1.3
%27Ts	48.1
%28 $\alpha\beta$	13.8
%29Ts	22.0
%25nor30 $\alpha\beta$	10.0
%29 $\alpha\beta$	54.1
%30 $\beta\alpha$	17.0
%30D	10.4
%30G	16.6
%32 $\alpha\beta$ S	64.7
%35 $\alpha\beta$	54.0
30 $\alpha\beta$	1.8
25nor30 $\alpha\beta$	0.2
Σ terpanes	12
%Pregnane	14.2
%29 $\alpha\alpha$ S	37.5
%29 $\beta\beta$	64.8
%27dia	50.4
%27ster. Norm	38.0
%28ster. Norm	23.8
%29ster. Norm	34.0
%30ster. Norm	4.3
Σ steranes	4
Hop/Ste	3.0

Steranes, m/z 217:



Country, well/location:	NO, NO 7226/2-1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1903.7-1903.7 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2509630, PlanID: 701164		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
		2/1MN	1.62
		2/1EN	1.93
		Phen.	5
		MPI1	0.49
		F1 (2+3/all MP)	0.49
		F2 (2/all MP)	0.23
		%TAS	0
		DBT/P	0.02
		F/P	0.79
		BP/1.6DMN	0.22
		4/1MDBT	2.33
		3MP/R	14.33
		ΣARO HC	56
Aromatic and Diamondoid hydrocarbons, GC/MS:			
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):		
			

Fluid

Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): MUD, 2050-2050 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

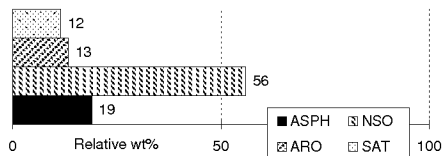
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2503997, PlanID: 701074

Fluid

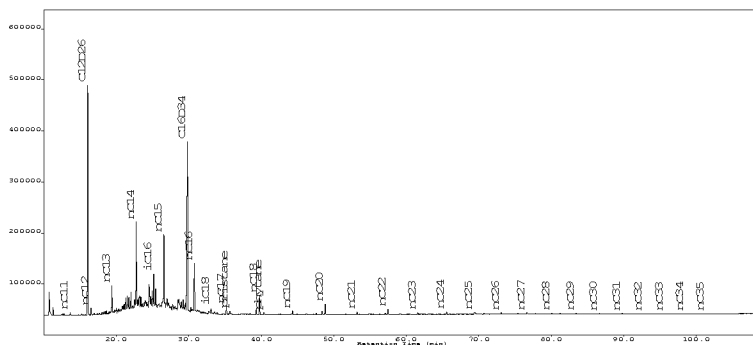
latroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

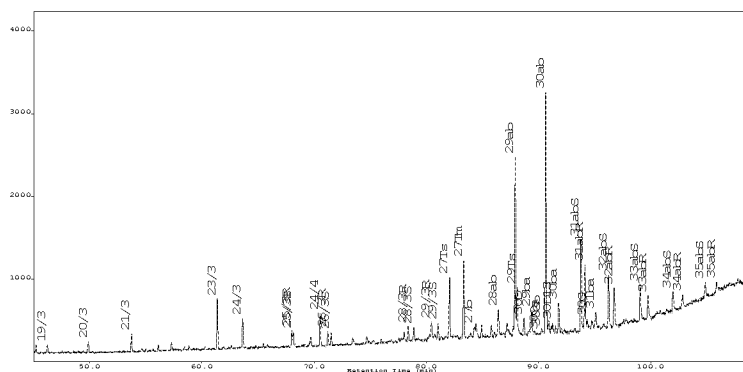
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.1
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.3
nC ₁₇	0.2
Pristane	0.1
$\Sigma\text{C15-C35}$	4

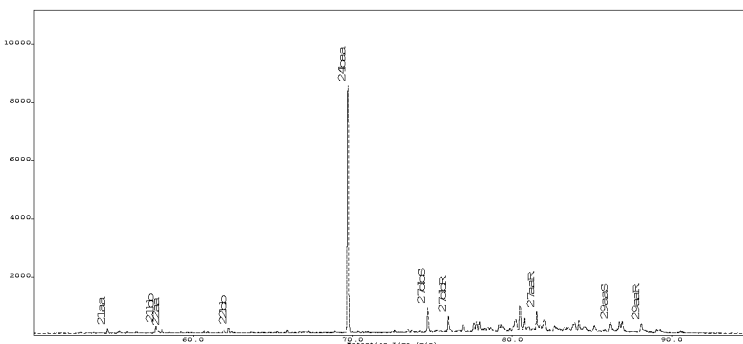
Terpanes, m/z 191:



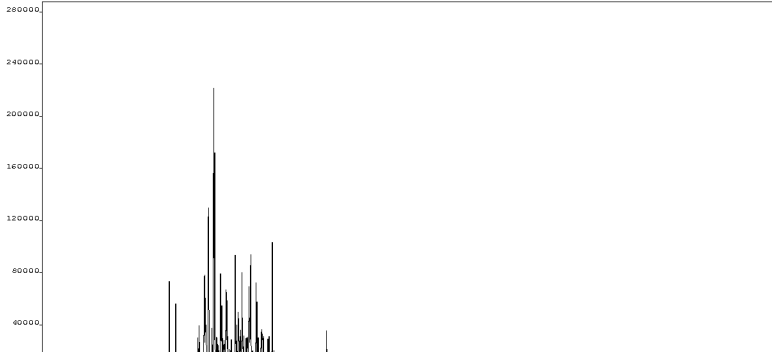
Parameter/amounts, ng/mg

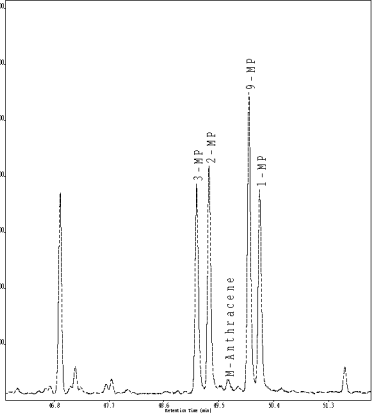
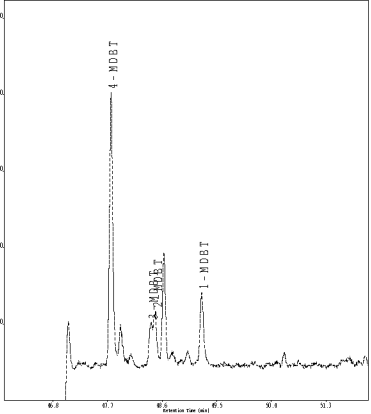
%Tri	15.17
%20/3	6.7
%23/3	52.6
%24/4	41.9
C26/C25	1.0
%27Ts	45.0
%28 $\alpha\beta$	15.1
%29Ts	19.9
%25nor30 $\alpha\beta$	5.7
%29 $\alpha\beta$	52.7
%30 $\beta\alpha$	11.3
%30D	9.7
%30G	6.1
%32 $\alpha\beta$ S	59.0
%35 $\alpha\beta$	43.1
30 $\alpha\beta$	4.0
25nor30 $\alpha\beta$	0.2
Σ terpanes	23
%Pregnane	10.2
%29 $\alpha\alpha$ S	52.0
%29 $\beta\beta$	62.7
%27dia	49.3
%27ster. Norm	39.9
%28ster. Norm	25.4
%29ster. Norm	28.2
%30ster. Norm	6.5
Σ steranes	15
Hop/Ste	1.6

Steranes, m/z 217:



Country, well/location:	NO, NO 7226/2-1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	MUD, 2050-2050 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2503997, PlanID: 701074		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.26	
	2/1EN	2.35	
	Phen.	13	
	MPI1	0.42	
	F1 (2+3/all MP)	0.46	
	F2 (2/all MP)	0.24	
	%TAS	38	
	DBT/P	0.02	
	F/P	1.65	
	BP/1.6DMN	0.46	
	4/1MDBT	3.60	
	3MP/R	3.47	
	ΣARO HC	292	

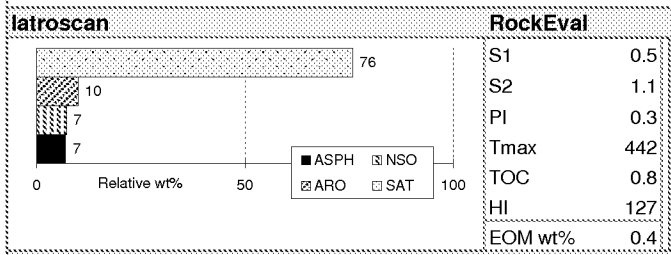
Aromatic and Diamonoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):
	

Country, well/location: NO, NO 7226/2-1 Sample type, depth (m): MUD, 2050-2050 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Reserach Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
<		

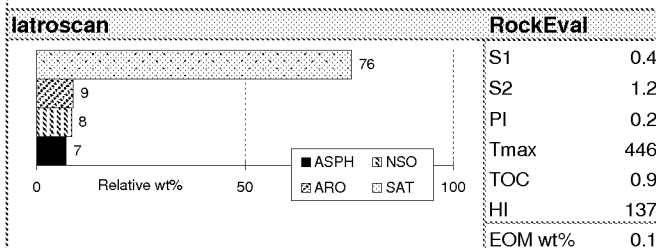
Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 2103-2103 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2508247, PlanID: 700955



Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): DC, 2253-2253 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

OrgID: 2506363, PlanID: 700872



Country, well/location: NO, NO 7226/2-1
Sample type, depth (m): MUD, 2898-2898 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

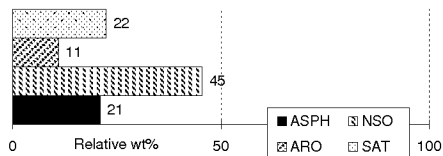
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2503994, PlanID: 701075

Fluid

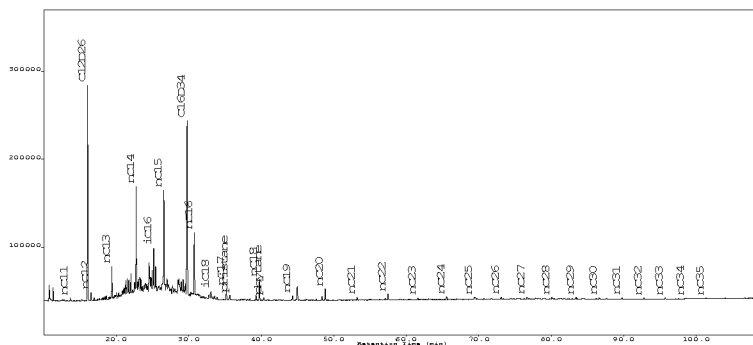
latroscan



$\delta^{13}C$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

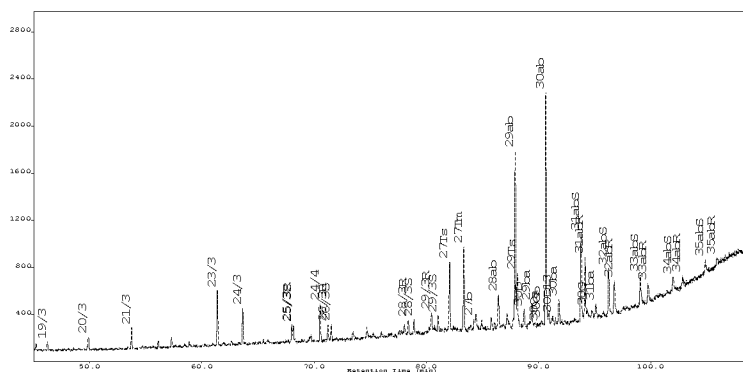
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, μ g/mg

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.2
Pr/Ph	1.5
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	0.2
Pristane	0.1
Σ C15-C35	5

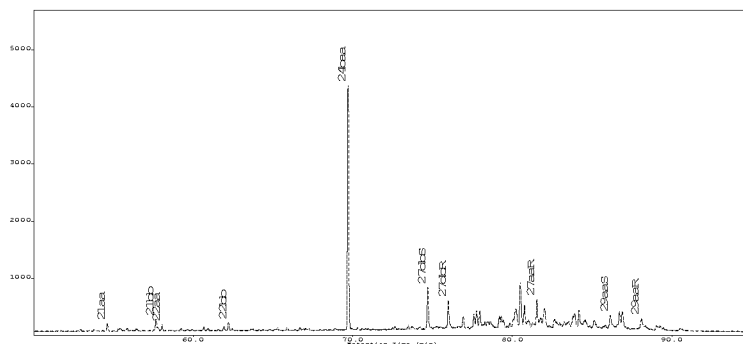
Terpanes, m/z 191:



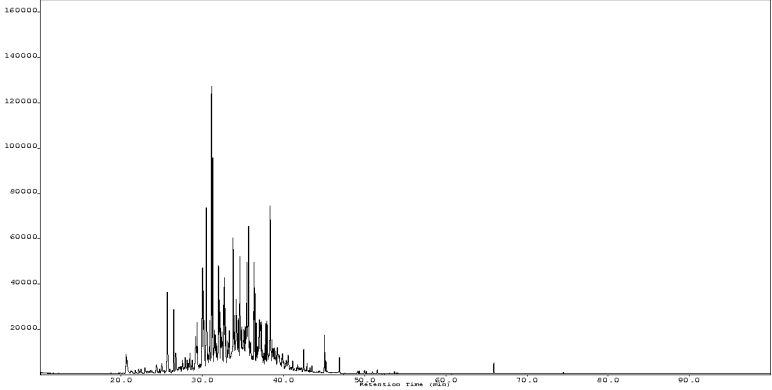
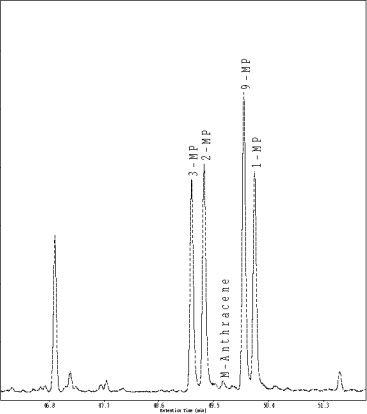
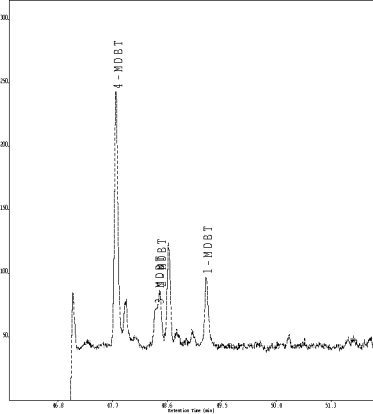
Parameter/amounts, ng/mg

%Tri	17.03
%20/3	6.9
%23/3	51.1
%24/4	42.4
C26/C25	1.0
%27Ts	45.6
%28 α β	19.0
%29Ts	23.0
%25nor30 α β	8.5
%29 α β	53.0
%30 β α	9.8
%30D	13.4
%30G	6.6
%32 α β S	57.5
%35 α β	44.9
30 α β	4.5
25nor30 α β	0.4
Σ terpanes	27
%Pregnane	10.5
%29 α α S	55.6
%29 β β	68.1
%27dia	49.7
%27ster. Norm	41.3
%28ster. Norm	25.2
%29ster. Norm	27.9
%30ster. Norm	5.6
Σ steranes	21
Hop/Ste	1.3

Steranes, m/z 217:



Country, well/location:	NO, NO 7226/2-1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	MUD, 2898-2898 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2503994, PlanID: 701075		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg
		2/1MN
		2/1EN
		Phen.
		MPI1
		F1 (2+3/all MP)
		F2 (2/all MP)
		%TAS
		DBT/P
		F/P
		BP/1.6DMN
		4/1MDBT
		3MP/R
		ΣARO HC
Aromatic and Diamondoid hydrocarbons, GC/MS:		
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):	
 		

Country, well/location: NO, NO 7226/2-1 Sample type, depth (m): MUD, 2898-2898 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%	

Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 1-312.09 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

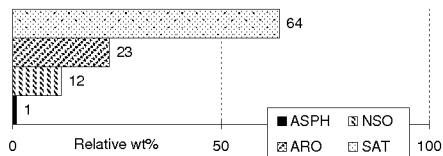
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2509709, PlanID: 701169

Fluid

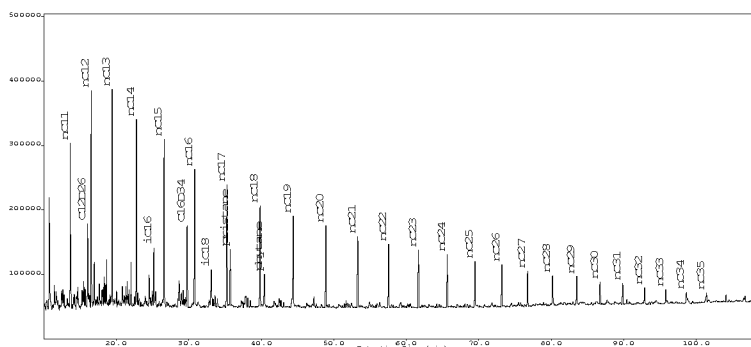
Iatroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

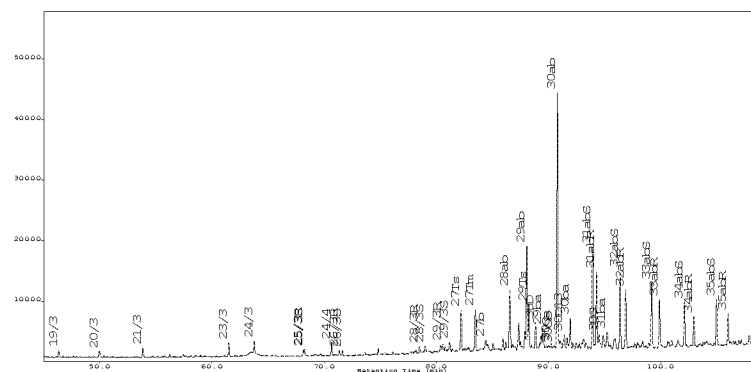
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.4
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	5.9
Pristane	3.2
$\Sigma\text{C15-C35}$	67

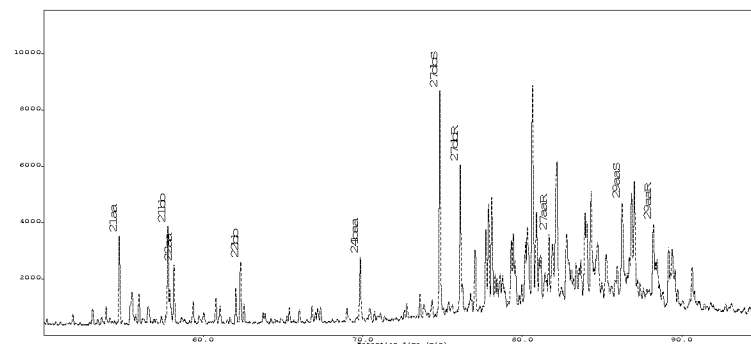
Terpanes, m/z 191:



Parameter/amounts, ng/mg

%Tri	5.67
%20/3	9.0
%23/3	44.4
%24/4	42.8
C26/C25	0.9
%27Ts	49.6
%28 α	26.2
%29Ts	31.1
%25nor30 α	11.0
%29 α	36.3
%30 β	10.6
%30D	13.7
%30G	5.3
%32 α	57.3
%35 α	51.4
30 α	222.2
25nor30 α	27.6
Σ terpanes	1373
%Pregnane	14.8
%29 α S	56.0
%29 β	62.9
%27dia	58.1
%27ster. Norm	30.2
%28ster. Norm	26.7
%29ster. Norm	31.3
%30ster. Norm	11.8
Σ steranes	525
Hop/Ste	2.6

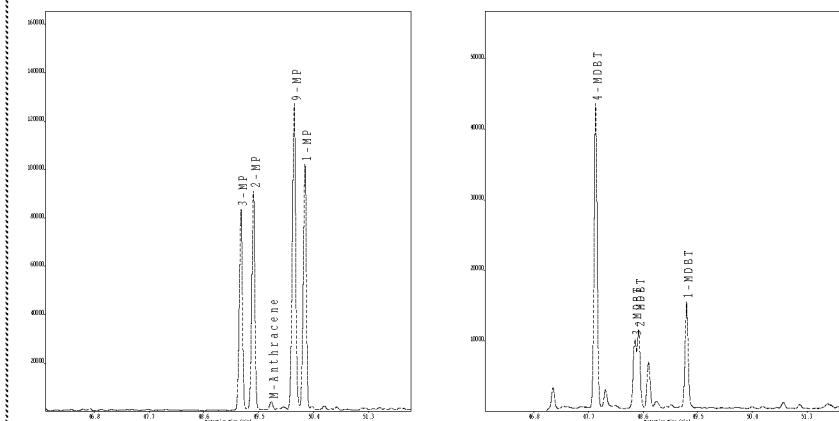
Steranes, m/z 217:



Country, well/location:	NO, NO NSO1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1-312.09 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2509709, PlanID: 701169		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.27	
	2/1EN	2.01	
	Phen.	260	
	MPI1	0.70	
	F1 (2+3/all MP)	0.43	
	F2 (2/all MP)	0.23	
	%TAS	24	
	DBT/P	0.06	
	F/P	0.33	
	BP/1.6DMN	0.89	
	4/1MDBT	2.87	
	3MP/R	2.14	
	ΣARO HC	2007	

Aromatic and Diamondoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):



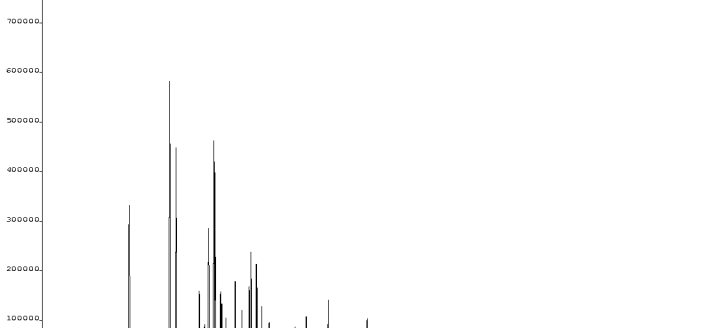
Country, well/location:	NO, NO NSO1	StatoilHydro Reserach Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1-312.09 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: , PlanID:		

Gaseous HC:	Gaseous HC, wt%
Methane Ethane Propane n-Butane iso-Butane	Wetness iC4/nC4 C2/C3 CO2
	Gaseous HC, isotopes ‰
	d13C C1
	d13C C2
	d13C C3
	d13C C4
	d13C iC4
	dD C1

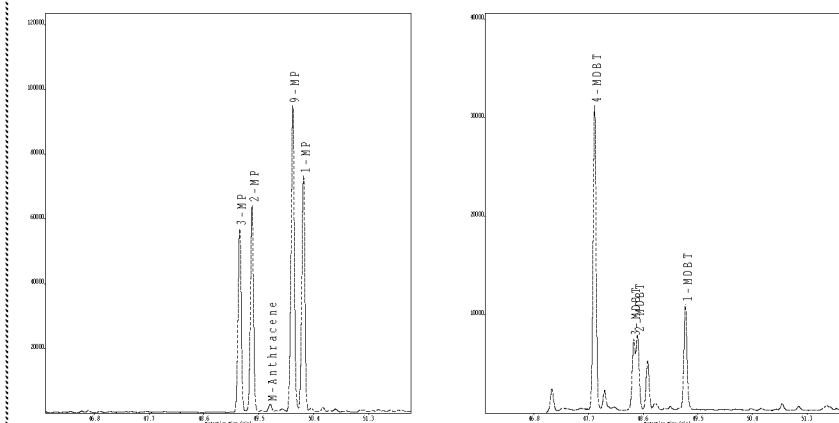
Light HC C5-10, GC/FID:	Parameter/amounts, ug/mg
	Hepane value 22.3 Isohept. value 1.5 Paraffinicity 0.7 Aromaticity 0.6 nC₆/Benzene 2.5 nC₇/Toluene 1.2 ΣC5-C20 233

Whole oil, GC/FID:	Parameter/amounts, ug/mg

Country, well/location:	NO, NO NSO1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 2-312.09 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2509710, PlanID: 701170		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.28	
	2/1EN	1.99	
	Phen.	260	
	MPI1	0.67	
	F1 (2+3/all MP)	0.42	
	F2 (2/all MP)	0.22	
	%TAS	23	
	DBT/P	0.06	
	F/P	0.30	
	BP/1.6DMN	0.92	
	4/1MDBT	2.90	
	3MP/R	1.90	
	ΣARO HC	2000	

Aromatic and Diamondoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):



Country, well/location: NO, NO NSO1 Sample type, depth (m): FLUI, 2-312.09 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
<		

Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 3-312.09 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

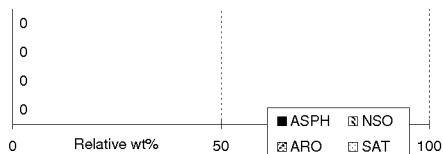
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2509711, PlanID: 701168

Fluid

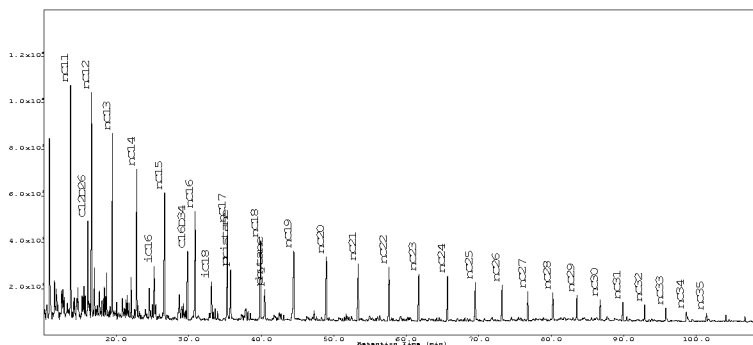
Iatroscan



δ13C fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

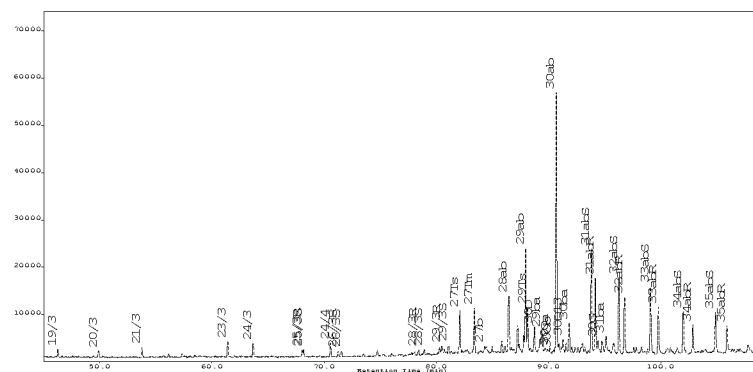
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, µg/mg

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.4
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	5.9
Pristane	3.1
ΣC15-C35	66

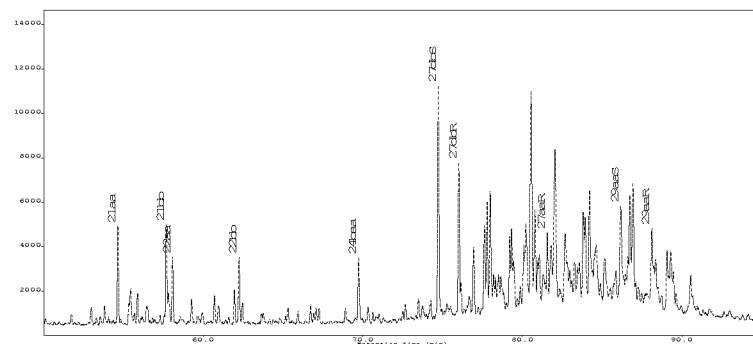
Terpanes, m/z 191:



Parameter/amounts, ng/mg

%Tri	6.13
%20/3	9.2
%23/3	44.2
%24/4	41.9
C26/C25	0.9
%27Ts	49.2
%28αβ	24.9
%29Ts	31.3
%25nor30αβ	11.0
%29αβ	36.1
%30βα	10.0
%30D	13.0
%30G	4.9
%32αβS	57.1
%35αβ	48.8
30αβ	225.7
25nor30αβ	28.0
Σterpanes	1360
%Pregnane	15.0
%29ααS	56.4
%29ββ	63.6
%27dia	58.8
%27ster. Norm	29.9
%28ster. Norm	27.8
%29ster. Norm	30.7
%30ster. Norm	11.6
Σsteranes	529
Hop/Ste	2.6

Steranes, m/z 217:



Country, well/location:	NO, NO NSO1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 3-312.09 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2509711, PlanID: 701168		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.27	
	2/1EN	2.17	
	Phen.	273	
	MPI1	0.69	
	F1 (2+3/all MP)	0.43	
	F2 (2/all MP)	0.23	
	%TAS	24	
	DBT/P	0.06	
	F/P	0.30	
	BP/1.6DMN	0.91	
	4/1MDBT	2.94	
	3MP/R	2.27	
		ΣARO HC	2066

Aromatic and Diamondoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):

Country, well/location: NO, NO NSO1 Sample type, depth (m): FLUI, 3-312.09 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
		Wetness iC4/nC4 C2/C3 CO2
		Gaseous HC, isotopes ‰ d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1
Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg
		Heptane value Isohept. value Paraffinicity Aromaticity nC ₆ /Benzene nC ₇ /Toluene ΣC5-C20
Whole oil, GC/FID:		Parameter/amounts, ug/mg

Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 1-324.09 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

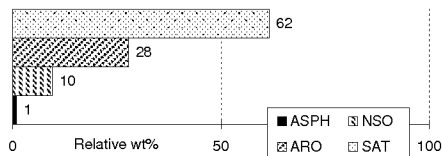
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2510131, PlanID: 701231

Fluid

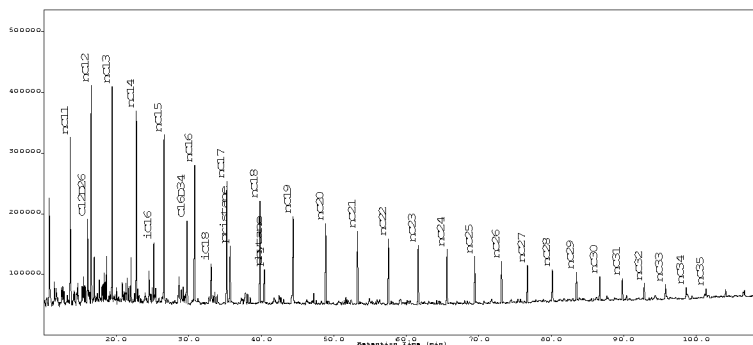
latroscan



δ13C fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

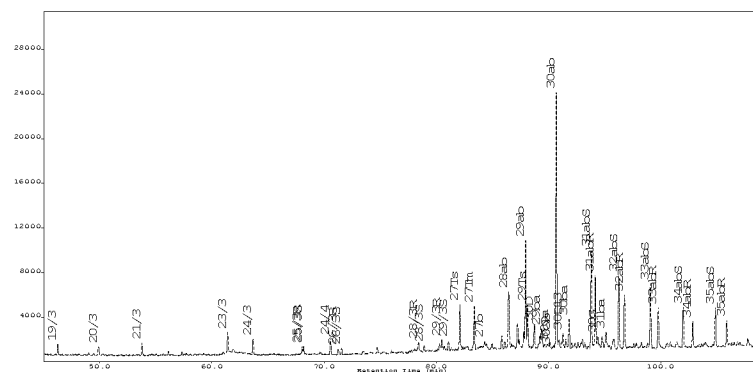
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, µg/mg

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.4
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	5.9
Pristane	3.2
ΣC15-C35	67

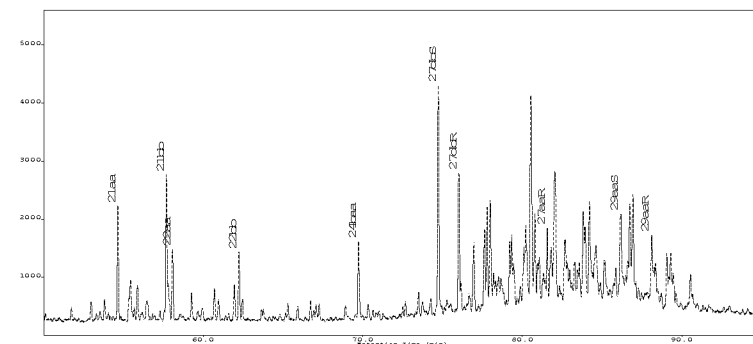
Terpanes, m/z 191:



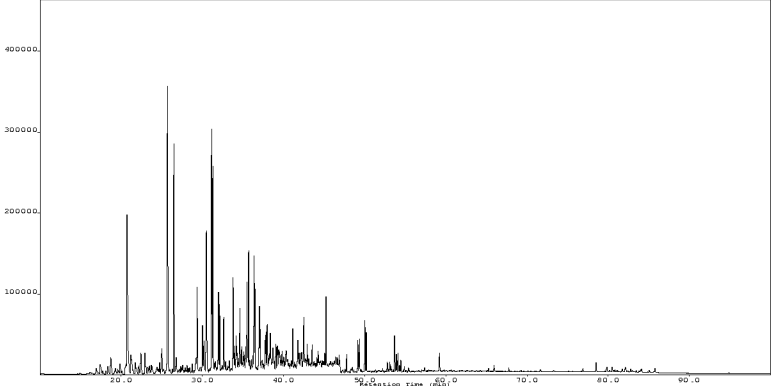
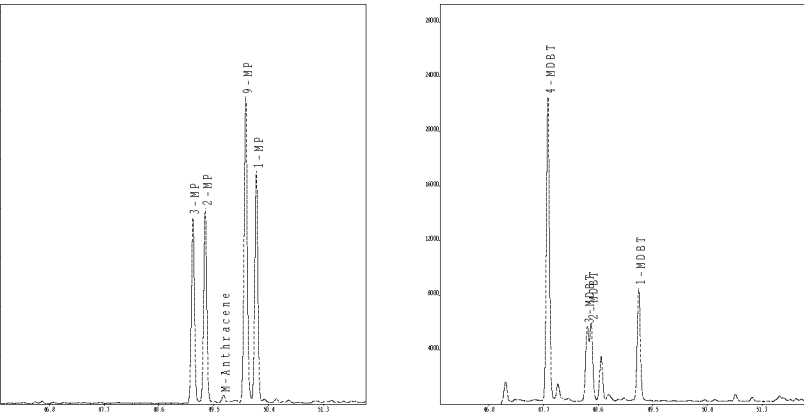
Parameter/amounts, ng/mg

%Tri	7.61
%20/3	10.0
%23/3	48.6
%24/4	41.9
C26/C25	0.9
%27Ts	51.0
%28αβ	25.1
%29Ts	29.7
%25nor30αβ	12.5
%29αβ	37.4
%30βα	10.2
%30D	12.8
%30G	4.9
%32αβS	57.8
%35αβ	49.2
30αβ	206.2
25nor30αβ	29.6
Σterpanes	1219
%Pregnane	19.3
%29ααS	55.9
%29ββ	65.5
%27dia	56.3
%27ster. Norm	33.0
%28ster. Norm	26.1
%29ster. Norm	30.1
%30ster. Norm	10.8
Σsteranes	423
Hop/Ste	2.9

Steranes, m/z 217:



Country, well/location:	NO, NO NS01	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1-324.09 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2510131, PlanID: 701231		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg
		2/1MN
		1.23
		2/1EN
		1.93
		Phen.
		261
		MPI1
		0.64
		F1 (2+3/all MP)
		0.41
		F2 (2/all MP)
		0.21
		%TAS
		24
Aromatic and Diamantoid hydrocarbons, GC/MS:		DBT/P
		0.07
		F/P
		0.30
		BP/1.6DMN
		0.96
		4/1MDBT
		2.72
		3MP/R
		2.13
		ΣARO HC
		1944
Aromatic and Diamantoid hydrocarbons, GC/MS:		
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):	
		

Country, well/location: NO, NO NSO1 Sample type, depth (m): FLUI, 1-324.09 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
		Wetness iC4/nC4 C2/C3 CO2
		Gaseous HC, isotopes ‰ d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1
Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg
		Heptane value Isohept. value Paraffinicity Aromaticity nC ₆ /Benzene nC ₇ /Toluene ΣC5-C20
Whole oil, GC/FID:		Parameter/amounts, ug/mg

Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 2-324.09 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

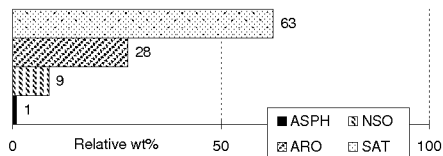
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2510132, PlanID: 701230

Fluid

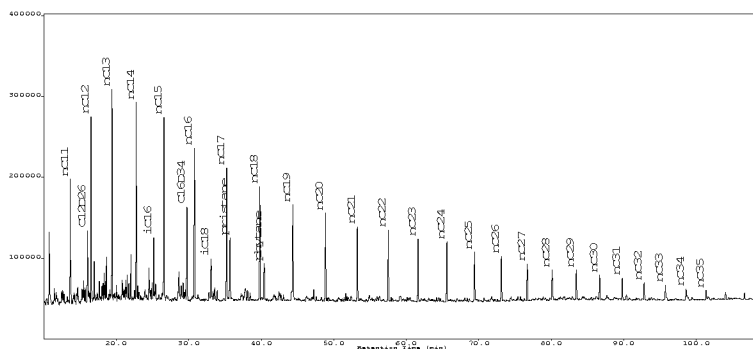
latroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

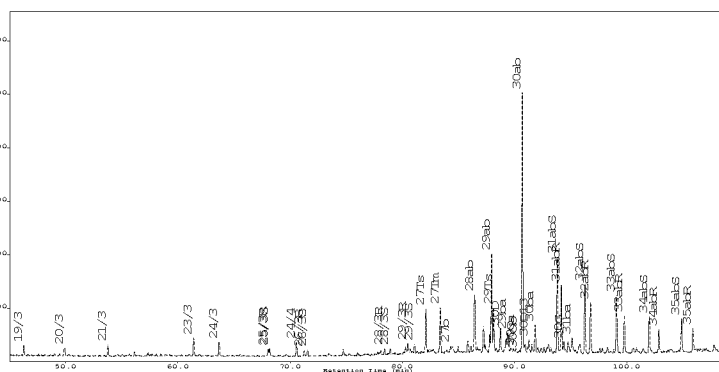
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.4
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	5.7
Pristane	3.1
$\Sigma\text{C15-C35}$	64

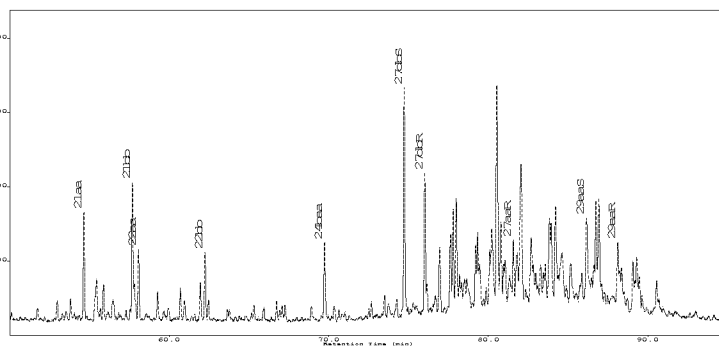
Terpanes, m/z 191:



Parameter/amounts, ng/mg

%Tri	7.27
%20/3	10.8
%23/3	47.1
%24/4	41.3
C26/C25	0.9
%27Ts	49.3
%28 α β	25.2
%29Ts	32.3
%25nor30 α β	11.9
%29 α β	35.0
%30 β α	9.4
%30D	12.2
%30G	4.6
%32 α β S	57.5
%35 α β	49.0
30 α β	223.5
25nor30 α β	30.2
Σ terpanes	1256
%Pregnane	18.9
%29 α α S	57.8
%29 β β	65.6
%27dia	57.3
%27ster. Norm	32.2
%28ster. Norm	26.5
%29ster. Norm	31.0
%30ster. Norm	10.3
Σ steranes	425
Hop/Ste	3.0

Steranes, m/z 217:



Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 2-324.09 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

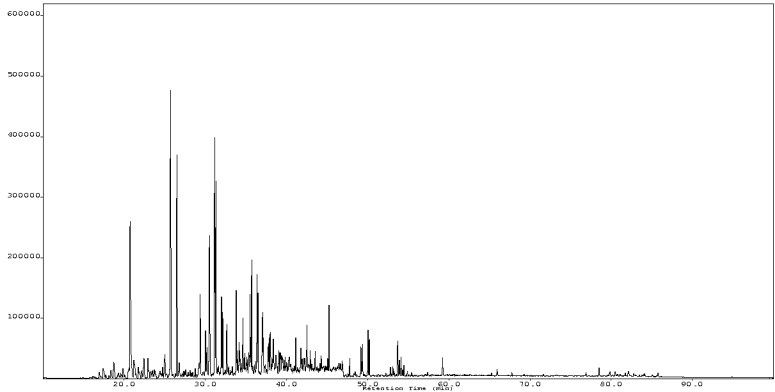
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2510132, PlanID: 701230

Fluid

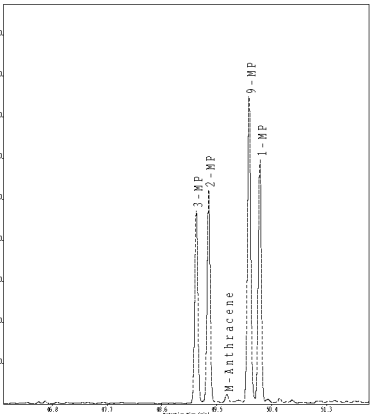
Aromatic hydrocarbons, TIC:



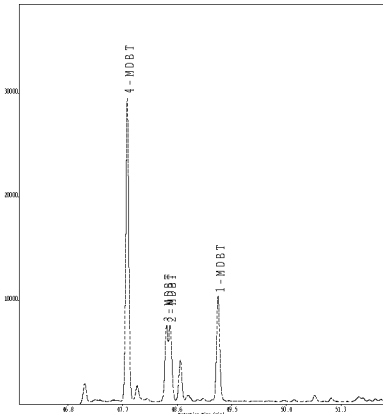
Parameter/amounts, ng/mg	
2/1MN	1.27
2/1EN	2.09
Phen.	258
MPI1	0.66
F1 (2+3/all MP)	0.42
F2 (2/all MP)	0.22
%TAS	24
DBT/P	0.07
F/P	0.30
BP/1.6DMN	0.93
4/1MDBT	2.90
3MP/R	2.07
ΣARO HC	1877

Aromatic and Diamondoid hydrocarbons, GC/MS:

Methyl-phenanthrenes (m/z 192):



Methyl-dibenzothiophenes (m/z 198):



Country, well/location:	NO, NO NSO1	StatoilHydro Reserach Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 2-324.09 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: , PlanID:		

Gaseous HC:		Gaseous HC, wt%
		Wetness
		iC4/nC4 C2/C3 CO2
		Gaseous HC, isotopes ‰
		d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1

Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg
		Hepane value 22.4
		Isohept. value 1.5
		Paraffinicity 0.7
		Aromaticity 0.6
		nC ₆ /Benzene 2.5
		nC ₇ /Toluene 1.2
		ΣC5-C20 231

Whole oil, GC/FID:		Parameter/amounts, ug/mg

Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 1-1031.08 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

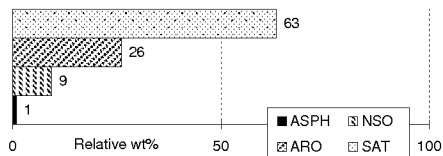
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2504218, PlanID: 699520

Fluid

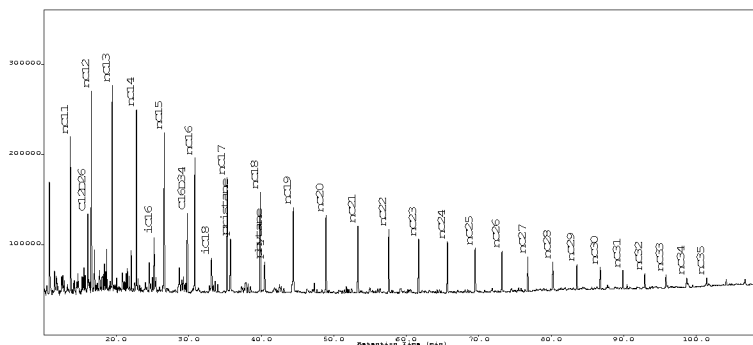
latroscan



$\delta^{13}C$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

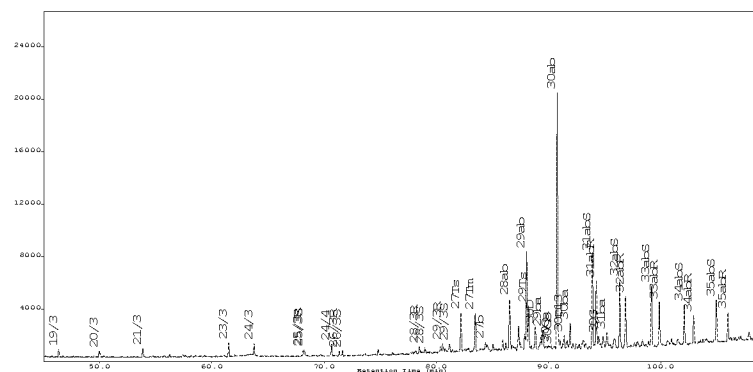
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.4
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	5.8
Pristane	3.2
$\Sigma\text{C}_{15}\text{-C}_{35}$	66

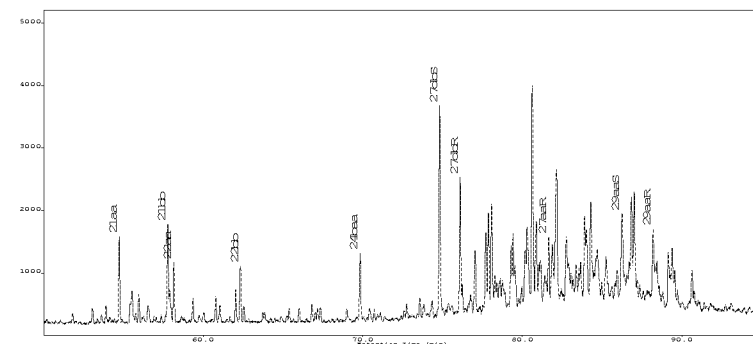
Terpanes, m/z 191:



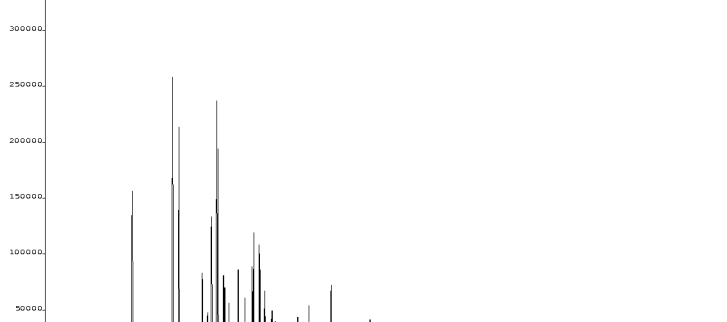
Parameter/amounts, ng/mg

%Tri	5.98
%20/3	9.7
%23/3	44.0
%24/4	40.0
C26/C25	0.8
%27Ts	50.7
%28 $\alpha\beta$	23.4
%29Ts	32.0
%25nor30 $\alpha\beta$	10.2
%29 $\alpha\beta$	35.3
%30 $\beta\alpha$	9.0
%30D	11.9
%30G	4.8
%32 $\alpha\beta$ S	57.1
%35 $\alpha\beta$	51.3
30 $\alpha\beta$	213.6
25nor30 $\alpha\beta$	24.2
Σ terpanes	1223
%Pregnane	15.0
%29 $\alpha\alpha$ S	54.8
%29 $\beta\beta$	64.4
%27dia	56.1
%27ster. Norm	31.7
%28ster. Norm	26.5
%29ster. Norm	31.0
%30ster. Norm	10.8
Σ steranes	467
Hop/Ste	2.6

Steranes, m/z 217:



Country, well/location:	NO, NO NSO1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1-1031.08 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2504218, PlanID: 699520		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN		1.19
	2/1EN		1.98
	Phen.		285
	MPI1		0.61
	F1 (2+3/all MP)		0.42
	F2 (2/all MP)		0.22
	%TAS		25
	DBT/P		0.06
	F/P		0.31
	BP/1.6DMN		0.94
	4/1MDBT		2.94
	3MP/R		2.17
	ΣARO HC		1961

Aromatic and Diamondoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):

Country, well/location: NO, NO NSO1 Sample type, depth (m): FLUI, 1-1031.08 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
		Wetness iC4/nC4 C2/C3 CO2
		Gaseous HC, isotopes ‰
		d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1
Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg
		Heptane value Isohept. value Paraffinicity Aromaticity nC ₆ /Benzene nC ₇ /Toluene ΣC5-C20
Whole oil, GC/FID:		Parameter/amounts, ug/mg

Country, well/location: NO, NO NSO1
Sample type, depth (m): FLUI, 1-1212.08 m MD RKB
Stratigraphy (Gr./Fm.):
Mud system:
Remarks:

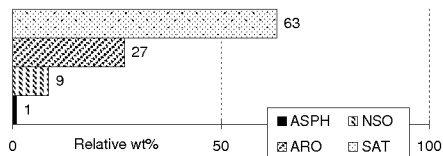
StatoilHydro

Research Centre,
Bergen, Norway

OrgID: 2506249, PlanID: 700840

Fluid

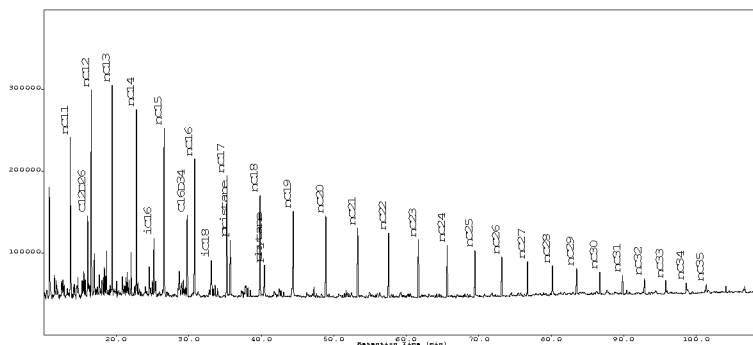
latroscan



$\delta^{13}\text{C}$ fractions

Sat.
Aro.
NSO
Asph.
EOM / Oil

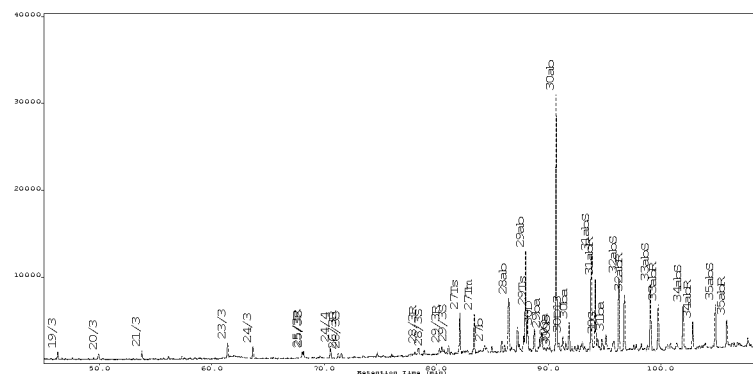
C15+ SAT-fraction hydrocarbons, GC/FID:



Parameter/amounts, $\mu\text{g}/\text{mg}$

Pr/nC ₁₇	0.5
Ph/nC ₁₈	0.4
Pr/Ph	1.6
nC ₁₇ /(C ₁₇ +C ₂₇)	0.8
CPI2	1.0
nC ₁₇	5.9
Pristane	3.2
$\Sigma\text{C}_{15}\text{-C}_{35}$	67

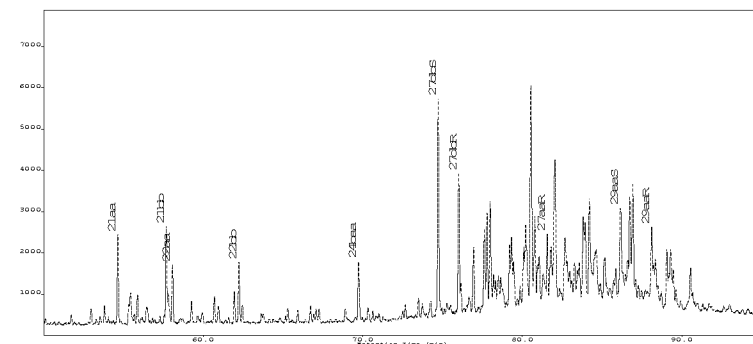
Terpanes, m/z 191:



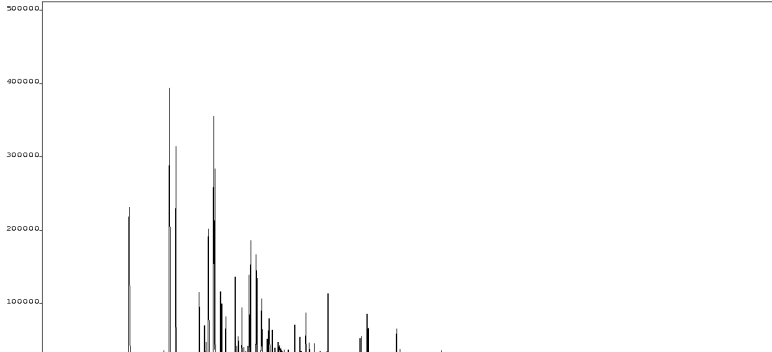
Parameter/amounts, ng/mg

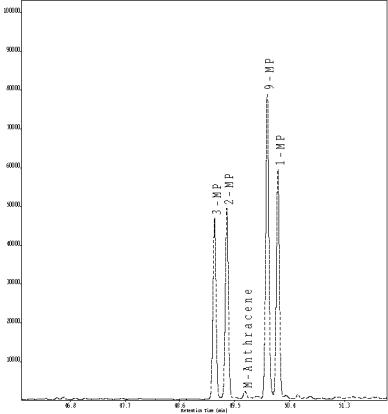
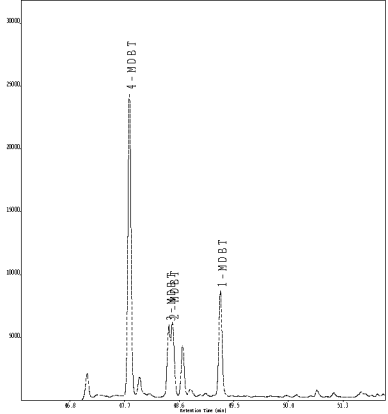
%Tri	5.85
%20/3	9.2
%23/3	46.3
%24/4	40.8
C26/C25	0.9
%27Ts	50.8
%28 $\alpha\beta$	24.3
%29Ts	30.8
%25nor30 $\alpha\beta$	11.0
%29 $\alpha\beta$	35.9
%30 $\beta\alpha$	10.1
%30D	12.2
%30G	5.3
%32 $\alpha\beta$ S	57.3
%35 $\alpha\beta$	50.2
30 $\alpha\beta$	235.3
25nor30 $\alpha\beta$	29.2
Σ terpanes	1392
%Pregnane	15.0
%29 $\alpha\alpha$ S	56.1
%29 $\beta\beta$	63.9
%27dia	57.2
%27ster. Norm	30.8
%28ster. Norm	26.6
%29ster. Norm	31.4
%30ster. Norm	11.2
Σ steranes	527
Hop/Ste	2.6

Steranes, m/z 217:



Country, well/location:	NO, NO NSO1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1-1212.08 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2506249, PlanID: 700840		

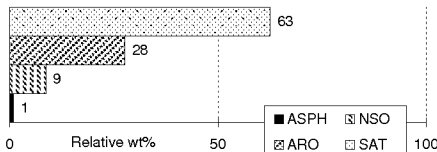
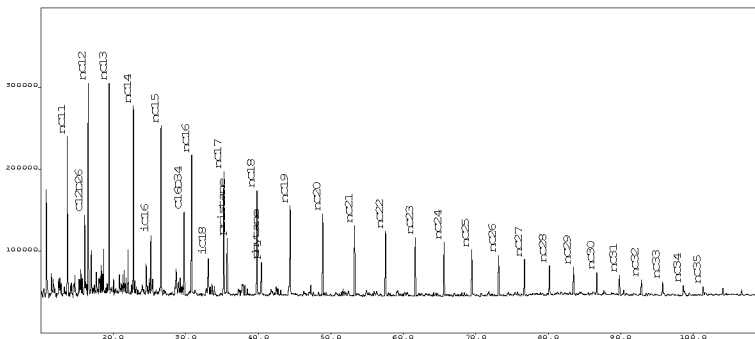
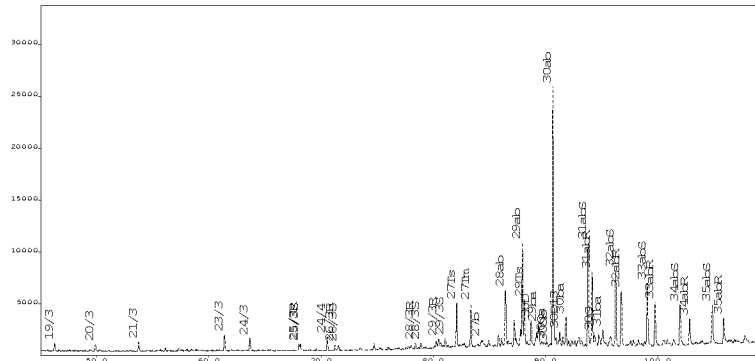
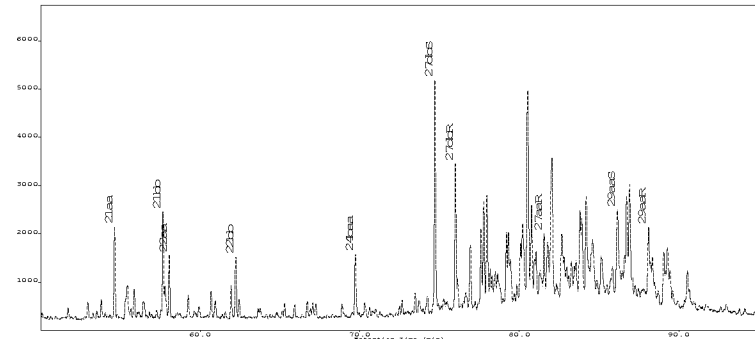
Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.23	
	2/1EN	2.02	
	Phen.	241	
	MPI1	0.65	
	F1 (2+3/all MP)	0.41	
	F2 (2/all MP)	0.21	
	%TAS	24	
	DBT/P	0.06	
	F/P	0.36	
	BP/1.6DMN	0.91	
	4/1MDBT	2.88	
	3MP/R	1.99	
	ΣARO HC	2017	

Aromatic and Diamonoid hydrocarbons, GC/MS:	
Methyl-phenanthrenes (m/z 192):	Methyl-dibenzothiophenes (m/z 198):
	

Country, well/location: NO, NO NSO1 Sample type, depth (m): FLUI, 1-1212.08 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
		Wetness iC4/nC4 C2/C3 CO2
Light HC C5-10, GC/FID:		Gaseous HC, isotopes ‰ d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1
Whole oil, GC/FID:		Parameter/amounts, ug/mg Heptane value Isohept. value Paraffinicity Aromaticity nC ₆ /Benzene nC ₇ /Toluene ΣC5-C20

Country, well/location: NO, NO NSO1	StatoilHydro Reserach Centre, Bergen, Norway
Sample type, depth (m): FLUI, 1-1216.08 m MD RKB	
Stratigraphy (Gr./Fm.):	
Mud system:	
Remarks:	Fluid
OrgID: 2506250, PlanID: 700841	

latroscan		δ13C fractions			
		Sat. Aro. NSO Asph. EOM / Oil			
C15+ SAT-fraction hydrocarbons, GC/FID:					
		Parameter/amounts, µg/mg			
		Pr/nC170.5			
		Ph/nC180.4			
		Pr/Ph1.6			
		nC17/(C17+C27)0.8			
		CPI21.0			
		nC175.9			
		Pristane3.2			
		ΣC15-C3566			
		Terpanes, m/z 191:			
		Parameter/amounts, ng/mg			
		%Tri6.05			
		%20/39.8			
		%23/346.6			
		%24/442.8			
		C26/C251.0			
		%27Ts50.1			
		%28αβ24.8			
		%29Ts31.7			
		%25nor30αβ11.1			
		%29αβ36.0			
		%30βα9.9			
		%30D12.9			
		%30G4.8			
		%32αβS57.6			
		Steranes, m/z 217:			
				%35αβ49.0	
30αβ235.0					
25nor30αβ29.2					
Σterpanes1388					
%Pregnane15.8					
%29ααS56.0					
%29ββ63.5					
%27dia57.8					
%27ster. Norm32.0					
%28ster. Norm26.9					
%29ster. Norm30.1					
%30ster. Norm11.1					
Σsteranes537					
Hop/Ste2.6					

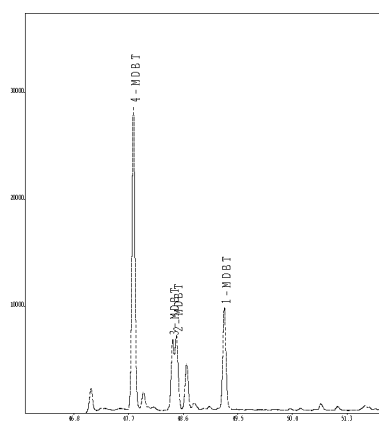
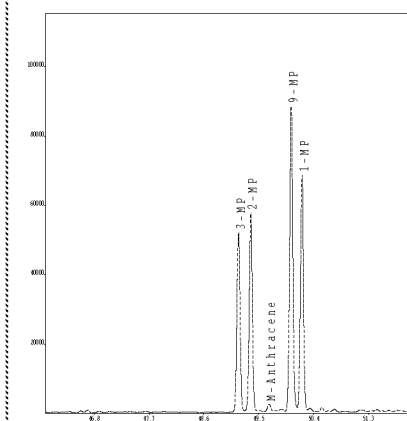
Country, well/location:	NO, NO NSO1	StatoilHydro Research Centre, Bergen, Norway
Sample type, depth (m):	FLUI, 1-1216.08 m MD RKB	
Stratigraphy (Gr./Fm.):		
Mud system:		
Remarks:		Fluid
OrgID: 2506250, PlanID: 700841		

Aromatic hydrocarbons, TIC:		Parameter/amounts, ng/mg	
	2/1MN	1.25	
	2/1EN	2.02	
	Phen.	251	
	MPI1	0.65	
	F1 (2+3/all MP)	0.41	
	F2 (2/all MP)	0.22	
	%TAS	24	
	DBT/P	0.06	
	F/P	0.35	
	BP/1.6DMN	0.91	
	4/1MDBT	2.98	
	3MP/R	1.88	
	ΣARO HC	2032	

Aromatic and Diamondoid hydrocarbons, GC/MS:

Methyl-phenanthrenes (m/z 192):

Methyl-dibenzothiophenes (m/z 198):



Country, well/location: NO, NO NSO1 Sample type, depth (m): FLUI, 1-1216.08 m MD RKB Stratigraphy (Gr./Fm.): Mud system: Remarks:	StatoilHydro Research Centre, Bergen, Norway
OrgID: , PlanID:	Fluid

Gaseous HC:		Gaseous HC, wt%
		Wetness iC4/nC4 C2/C3 CO2
		Gaseous HC, isotopes ‰ d13C C1 d13C C2 d13C C3 d13C C4 d13C iC4 dD C1
Light HC C5-10, GC/FID:		Parameter/amounts, ug/mg
		Heptane value Isohept. value Paraffinicity Aromaticity nC ₆ /Benzene nC ₇ /Toluene ΣC5-C20
Whole oil, GC/FID:		Parameter/amounts, ug/mg