

CONOCO BIT RECORD

WELL NAME 7/8

CONTRACTOR FRED OLSEN OFFSHORE

PUMP NO.1 FA-1600

WELL NO. 3

RIG BORGNY DOLPHIN

PUMP NO.2 FA-1600

FIELD EXPLORATORY

RIG TYPE AKER-H3

MUD TYPE KCL/LIGNOSULFONATE

COUNTRY NORWAY

RUN NO.	SIZE	MAKE	TYPE	JETS-32ND			BIT SER. NO.	DEPTH OUT	FOOTAGE	HOURS		ACCUM. HOURS	WT. 1000 LB.	RPM	VERT. DEV.	PUMP PRESS.	NO. 1		NO. 2		MUD		DULL COND.			REMARKS
				1	2	3				PPH	BPM						LIN.	BPM	LIN.	WT.	VIS.	T	B	O		
1	26	HT	OSC-3A	OPEN			MD-040	652	304	11.5	26.4	11.5	-	-	0.7°	1100	80	6 1/2	80	6 1/2	9.2	100	2	2	I	DYNA-DRILLED 30' CASING IN PLACE
2	17 1/2	ST	SDS	15	14	15	XC-6156	2010	1358	16.5	82.3	28.0	5/20	150	-	2200	110	6 1/2	80	6 1/2	9.2	100	2	2	I	4-JETS
1R	26	HT	OSC-3A	18	18	20	MD-040																			OPENING 17 1/2 HOLE TO 26
1R	26	HT	OSC-3A	18	18	20	MD-040	2040	30	0.5	60	28.5	20/30	150	-	2000	110	6 1/2	90	6 1/2	9.2	100	2	3	I	DRILLED 30 FT. OF RATHOLE FOR CSG.
2R	17 1/2	ST	SDS	OPEN			XC-6156	2118	28	2.5	31.2	31.0	5/20	200/140	0.8°	700	110	6 1/2	90	6 1/2	9.2	100	2	3	I	DRILLED CMT.
3	17 1/2	ST	SDS	16	14	16	XC-6155	4342	2224	30	24.1	61.0	30/40	140/150	1.1°	3100	110	6 1/2	80	6 1/2	10.2	46	2	4	I	4-JETS
4	17 1/2	HT	K3A	22	22	22	924 PF	5735	1393	27	51.6	88.0	30/40	140/150	3.0°	3100	80	6 1/2	80	6 1/2	11.5	52	3	5	I	
5	17 1/2	HT	K3A	22	22	22	SE235	6544	809	21.5	37.6	109.5	30/40	150/160	5.6°	3100	90	6 1/2	90	6 1/2	12.0	44	3	4	I	
5R	17 1/2	HT	K3A	22	22	22	SE235	6544					10/40	100/150		3000	100	6 1/2	100	6	13.8	54	3	5	1/4	WASH AND REAM
6	17 1/2	HT	X3A	22	22	22	178 LF	6544					10/40	100/170		3000	100	6 1/2	100	6	13.8	53	2	2	I	WASH AND REAM
7	12 1/4	R	FP11	13	13	13	NJY 151	6560	16	4.5	3.5	114.0	10/40	40/60	5.6°	3100	55	6 1/2	55	6	12.9	60	2	5	I	DOLOMITE STRINGERS
8	12 1/4	ST	KDG	13	13	13	233 GF	6624	64	10.5	6.0	124.5	20/40	40/180		3300	55	6 1/2	60	6	12.5	45	6	2	I	DOLOMITE STRINGERS
9	12 1/4	HT	J1	13	13	13	847 LS	7042	418	13.5	31.0	138.0	30/45	120/140	2.5°	3250	55	6 1/2	60	6	12.3	65	5	3	I	DOLOMITE STRINGERS
10	12 1/4	ST	SDGM	13	13	14	N03466	7084	42	5.0	8.6	143.0	50/65	150	2.5°	3200	55	6 1/2	55	6	12.3	80	3	2	1/16	DOLOMITE STRINGERS
11	12 1/4	ST	FDT	12	12	12	C00338	7674	590	16.5	36	159.5	50/65	150	2.7°	3300	60	6 1/2	60	6	12.1	65	2	4	1/8	4-JETS

CONOCO BIT RECORD

WELL NAME 7/B

CONTRACTOR FRED OLSEFI OFFSHORE

PUMP NO.1 FA-1600

WELL NO. 3

RIG BURGNY DOLPHIN

PUMP NO.2 FA-1600

FIELD EXPLORATORY

RIG TYPE AKER-43

MUD TYPE KCL/LIGNOSULFONATE

COUNTRY NORWAY

RUN NO.	SIZE	MAKE	TYPE	JETS-32ND			BIT SER. NO.	DEPTH OUT	FOOTAGE	HOURS		ACCU. HOURS	WT. 1000 LB.	RPM	VERT. DEV.	PUMP PRESS.	NO. 1		NO. 2		MUD		DULL COND.			REMARKS
				1	2	3				PPH	SPM						LIN.	SPM	LIN.	WT.	VIS.	T	B	O		
12	12 1/4	ST	FDT	13	13	13	XB-0285	7976	305	10.5 / 30.	170.0	45/60	100/140	2.6°	3100	60	6 1/2	5A	6	12.0	82	2	6	1/8		
13	12 1/4	HT	X3A	14	14	14	339BF	8936	960	24.5 / 39.	194.5	55	180	1.7°	3250	60	6 1/2	56	6	12.1	67	6	6	I		
14	12 1/4	HT	X3A	14	14	14	338BF	9377	441	18. / 24.5	212.5	60/70	150/160	1.0°	3200	60	6 1/2	60	6	12.1	64	5	8	I		
15	12 1/4	ST	XDG	14	14	14	232GF	9568	191	17. / 11.	229.5	60/70	100/130	1.0°	3200	62	6 1/2	62	6	11.9	58	7	6	1/16		
16	12 1/4	HT	J22	14	14	14	839CF	9800	232	12.5 / 18.	242.0	60/70	100	0.5°	3150	60	6 1/2	60	6	11.9	55	6	4	I		
17	12 1/4	HT	J33	14	14	14	251DS	10,525	725	51. / 14.2	293.0	65/75	65/75	0.7°	3200	62	6 1/2	62	6	11.9	50	2	4	I		
18	12 1/4	ST	F2	16	16	B	C22549	11,019	494	47. / 10.5	340.0	65/80	50/90		3200	50	6 1/2	50	6	11.9	60	1	3	I		
19	12 1/4	HT	J2	13	13	13	350GS	11,111	92	13.5 / 6.8	353.5	60/40	60/80		3200	50	6 1/2	50	6	11.9	56	6	8	I		
20	12 1/4	ST	F3	13	13	14	CP0627	11,122	11	2. / 5.5	355.5	60/80	50/80	2.9°	3000	51	6 1/2	51	6	11.9	51	1	1	I	WASHOUT IN DC	
20R	12 1/4	ST	F3	13	13	14	CP0627	11,244	122	13.5 / 9.	369.0	65/45	70	2.5°	3150	51	6 1/2	51	6	11.9	55	3	8	I		
21	12 1/4	HT	J22	12	13	13	301YK	11,301	57	11. / 5.2	380.0	60/70	70		3200	50	6 1/2	50	6	11.9	55	6	8	I		
22	12 1/4	ST	F2	12	13	13	CT0640	11,684	383	50.5 / 7.6	430.5	65/75	80/85	2.0°	3200	50	6 1/2	50	6	12.1	51	2	5	1/8		
23	8 1/2	HT	XR3	9	9	9	364UR	11,822	138	16 / 8.6	446.5	40/50	60/80	4.1°	3100	55	6 1/2	-	-	12.1	49	5	8	I		
24	8 1/2	HT	J22	9	9	9	014JF	12,204	382	47.5 / 9.	489.0	40	60	2.3°	3250	55	6 1/2	-	-	12.5	50	2	5	I		
25	8 1/2	HT	J22	9	9	9	805PS	12,240	36	2.5 / 14.8	491.5	40	60	2.3°	3250	55	6 1/2	-	-	12.8	54	2	2	I	POOH TO COFF	

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CONOCO BIT RECORD

WELL NAME 718
 WELL NO. 3
 FIELD EXPLORATORY
 COUNTRY NORWAY

CONTRACTOR FRED OLSEN OFFSHORE
 RIG BORGNY DOLPHIN
 RIG TYPE AKER-H3

PUMP NO.1 FA-1600
 PUMP NO.2 FA-1600
 MUD TYPE LIGNOSULFONATE

RUN NO.	SIZE	MAKE	TYPE	JET8-32ND			BIT SER. NO.	DEPTH OUT	FOOTAGE	HOURS		ACCUM. HOURS	WT 1000 LB.	RPM	VERT. DEV.	PUMP PRESS.	NO. 1		NO. 2		MUD		DULL COND.			REMARKS
				1	2	3				PPH	RPM						LIN.	RPM	LIN.	WT.	VIB.	T	B	O		
26 ^c ₁	8 1/2	ACC	WEASEL 3	OPEN			22840	12,269	29	1.27	492.5	8/10	60/100	7.3"	1100	50	6 1/2	-	-	14.2	52					CORE NO. 1. STRATAFAC. 20% WEAR
27 ^c ₂	8 1/2	ACC	SHARK	OPEN			22216	12,276	7	2.35	494.5	8/16	60		850	50	6 1/2	-	-	14.3	55					CORE NO. 2. DIAMOND. 50% WEAR
26 ^c ₃	8 1/2	ACC	WEASEL 3	OPEN			22840	12,336	60	4.15	498.5	10/20	100		850	50	6 1/2	-	-	14.3	55					CORE NO. 3. STRATAFAC. 50% WEAR
28 ^c ₄	8 1/2	ACC	WEASEL 3	OPEN			22693	12,379	43	6.71	504.5	10/20	60/100		850	50	6 1/2	-	-	14.5	58					CORE NO. 4 STRATAFAC. 15% WEAR
29	8 1/2	ST	F2	10	10	8	XB2343	12,508	129	14.92	518.5	40	60		3400	60	6 1/2	-	-	14.5	56	2	2	1/4		WASHOUT IN DC.
30	8 1/2	HT	J11	9	9	11	54055	12,790	282	32.88	550.5	45/50	65		3200	57	6 1/2	-	-	14.7	54	2	4	1/8		
31	8 1/2	HT	J33	9	10	10	896VL	12,968	178	25.71	575.5	50/55	70		3250	59	6 1/2	-	-	14.7	62	2	3	1/16		
32	8 1/2	HT	J22	10	10	9	089JF	13,195	227	17.33	592.5	40/50	75		3225	60	6 1/2	-	-	14.7	56	2	4	I		WASHOUT IN DC.
33	8 1/2	ST	F2	10	10	8	XB2344	13,740	545	30.18.1	622.5	50	65		3250	58	6 1/2	-	-	14.7	54	3	8	I		
34	8 1/2	HT	J22	10	10	8	047XS	14,075	335	31.10.8	653.5	50	65		3200	58	6 1/2	-	-	14.7	56	3	4	I		
35	8 1/2	HT	J22	10	10	8	049KS	14,174	99	2.537.6	656.0	40	65		3200	58	6 1/2	-	-	14.7	58	2	2	I		PULLED FOR LOGS. SALT.
36	8 1/2	HT	XDV	12	12	12	287HF								1400	46	6 1/2			15.0	60					WIPER TRIP FOR LOGS



DRILLING MUD RECAP

Contractor POLMIIN OPERATOR CONOCO NORWAY INC. LEGAL DESCRIPTION _____

Rig No. BORGNY DOLPHIN Well Name And No. 7/8-3 Field NORTH SEA COUNTRY NORWAY

Promud a/s Warehouse TANANGER Spud Date 11/9/83 No. Drilling Days To T.D. 6R DATE T.D. REACHED 17/11/83 TOTAL DEPTH 14174' TOTAL COST \$ 571,261.45

DATE (1983)	TIME	DEPTH (ft.)	WT (lbm)	TV (ppm)	PV (ppm)	YIELD POINT (lb/100ppm)	GELS (lb/100ppm)	RM	FILTRATE (ml/30 min)			Coke (ppm)	Stability		Chloride (ppm)	Calcium (ppm)	Sand (% by Vol)	Solids (% by Vol)	Oil (% by Vol)	Water (% by Vol)	Mud Weight (ppm)	Circ. Volume (bbl)	REMARKS	
									API	MT	MP		P ₁	P ₂ / M ₂										
11/9	2400		9.2	100+																			Build spud mat.	
12/9	2400	652	9.2	100+																			Drill down 30" casing.	
13/9	2400	1566	9.2	100+																			Drill 17 1/2" pilot.	
14/9	2400	2010	9.2	100+																			Open 17 1/2" pilot.	
15/9	2400	2040																					Run 20" casing cmt.	
16/9	2400	2040	9.5	39	9	14	1/8	8.5	15.5		1		14600	160		5		95			38		Made KCl/Polymer.	
17/9	2400	3018	9.7	42	14	26	4/11	8.5	17		1		65000	600		12		88			41	1650	Drilling.	
18/9	2400	4341	10.5	46	11	25	7/18	8.5	15		1		67200	280	.75	14		86			45	2120	Drilling. Add premix.	
19/9	0400	5235	10.5	42	12	27	5/13	8.5	13		1		64000	300	.75	11.5		88.5			38.4	2005	Drilling. Add premix.	
20/9	2400	5735	11.5	52	15	35	10/20	8.5	18		1		64000	400	.75	12.5		88.5			42	2547	Drilling. OK.	
21/9	2400	6418	11.5	68	15	29	9/21	8.5	20		2		64400	550	.75	12.5		88.5			42	2738	RIH. Drilling.	
22/9	2400	6545	12.4	85	18	31	11/24	8.5	22		3		64400	300	.75	18.5		81.5			40	2725	Drilling to casing point.	
23/9	2400	6544	12	44	9	30	14/28	8.0	38			7.3	53000	720	.25	15		85			30	2300	Logging.	
24/9	2400	6544	12	45	8	29	15/27	8.0	40			7.2	52000	700	.25	15		85			30	2400	Run 13 3/8".	
25/9	2400	6544	12	45	9	22	10/17	8.0	40			7.4	55000	800	.25	15		85	25		30	2450	OK. 13 3/8" casing.	
26/9	2400	6544	2.8	52	13	27	12/25	8.0	35			7.4	68000	700	.25	17		83	25		40	2500	Circulate.	
27/9	2400	6544	3.8	54	19	36	25/39	8.4	65			05/8	72000	960	2	22		78	25	428	2500	2500	Circulate.	
28/9	2400	6544	13	55	27	25	15/36	8.3	21			05/8	70000	900	2	20		80	22.5	42	2400	2400	Circulate.	
29/9	2400	6544	3.8	53	16	27	18/37	8.5	28			08/7.5	62000	900	2	22	1	77	25	33	2500	2500	Run 13 3/8".	
30/9	2400	6500	3.8	57	18	28	19/38	8.5	29			08/7.5	62000	900	2	22	1	77	25	33	1450	1450	Run 13 3/8".	
1/10	2400	6560	3.2	70	18	35	19/39	11.3	55		4	71.7	55000	2040	1.5	20		80	25	30	1500	1500	Drill cement.	
2/10	2400	6565	2.9	60	21	23	17/39	11.1	20		2.5	41.5	50000	1680	1	20		80	25	27	1500	1500	Drill cement.	
3/10	2400	6524	2.5	45	26	14	9/33	10.1	12.5		2.4	41.6	43000	1600	.5	19		81	22.5	26	1400	1400	Drill 12 1/4" hole.	
4/10	2400	7042	2.3	65	33	12	9/30	8.5	11		2.3	42.1	39000	1200	TR	21		79	20	20	1536	1536	Drilling ahead.	
5/10	0100	7250	2.3	80	32	17	8/31	10.5	10.3		2	1.7	5/1.7	31000	625	TR	20		80	18.5	19			Drilling ahead.
6/10	0100	7780	2.1	65	30	16	10/19	10	10.2		2	1.7	3/1.2	26000	800	TR	20		80	27	19	1630	1630	Drilling ahead.
7/10	2400	8253	12	82	27	18	10/28	10.1	10.1		2	1	3/1.8	27000	960	TR	19		81	27.5	16	1547	1547	Drilling ahead.
8/10	2400	8936	2.1	67	21	23	10/26	10	12		2	1	2/1.8	24000	920	TR	18		82	30	1792	1792	Drilling ahead.	

Date 8/10/83 Promud a/s Technical Representative R. Stamer/Brauti/Sola District North Sea Region Norway PAGE 1 OF 3

6.3 MUD REPORT



DRILLING MUD RECAP

Contractor DOLPHIN OPERATOR CONOCO NORWAY INC. LEGAL DESCRIPTION _____
 Rig No. BORNGY DOLPHIN Well Name 7/8-3 Field NORTH SEA COUNTRY NORWAY
 Promud s/s Warehouse TANANGER Spud Date 11/9/83 No. Drilling Days To T.D. 68 DATE T.D. REACHED 17/11/83 TOTAL DEPTH 14174' TOTAL COST \$ 571,261.45

DATE (1983)	TIME	DEPTH (ft.)	WT (ppg)	PV (lb)	RV (lb)	YIELD POINT (lb/100ft ²)	GELS (lb/100ft ²)	SH	FILTRATE (ml/30 min)			Capp (ppm)	Alkalinity			Calcium (ppm)	Sulfate (lb by Vol)	SILICA (lb by Vol)	Cl (lb by Vol)	Water (lb by Vol)	MUD LOSS (lb/100ft)	SPP VALUE (ppm)	REMARKS	
									API	WT. MP	CF		P _m	P _s	P _w									
9/10	2400	8936	12.1	69	22	23	9/28	10	12.0			2	.9	.27.8	24000	920	TR	18		82	30	1760	Test POP.	
10/10	2400	9377	12.1	64	21	23	10/29	9.9	12.9			2	.8	.17.7	22000	680	TR	18		82	30	1846	Drill 12 1/4".	
11/10	2400	9568	11.9	58	17	22	9/29	9.8	13			3	.8	.17.7	20000	800	TR	16		84	30	1880	Drill 12 1/4".	
12/10	2400	9800	11.9	55	17	24	12/34	10.3	13			3	1.1	.27.9	20000	400	TR	16		84	28	1889	Drill 12 1/4".	
13/10	2400	9883	11.9	56	18	24	10/29	10.3	9.8			2	1.1	.27.9	18000	200	TR	16		84	28	1931	Drill 12 1/4".	
14/10	2400	10316	11.9	51	20	20	7/26	10.2	6.8			2	1.2	.24.1	17000	200	TR	17		83	28	1999	Drilling ahead.	
15/10	2400	10525	11.9	50	20	18	5/22	10.2	6.6			2	1.3	.21.0	15000	80	TR	17		83	28	2033	POOH for bit.	
16/10	2400	10733	11.9	50	22	17	5/24	10	6.5			2	1.2	.21.3	15000	100	TR	18		82	28	2012	RIH new. Drilling.	
17/10	2400	10983	11.9	50	23	17	5/25	10.5	6.5			2	1.0	.31.4	14000	100	TR	18		82	28	2055	Drilling ahead.	
18/10	2400	11018	11.9	60	23	17	6/28	10.5	6.4			2	1.0	.25.1	14000	100	TR	18		82	29	2115	Drill.	
19/10	2400	11110	11.9	56	24	17	6/28	10.5	6.5			2	.8	.25.4	14000	100	TR	18		82	29	2140	Drill.	
20/10	2400	11175	11.9	51	21	16	5/26	10.5	6.8			2	1.0	.25.3	13000	80	TR	18		82	28	2111	RIH. Drill. POOH.	
21/10	2400	11247	11.9	55	21	19	6/27	10.5	6.5			2	.8	.31.8	13000	80	TR	18		82	29	2140	Drill 12 1/4".	
22/10	2400	11339	11.9	55	21	19	7/26	10	6.9			2	.8	.31.8	13000	80	TR	18		82	28	2150	Drill 12 1/4".	
23/10	2400	11514	11.9	51	20	19	7/25	10.3	6.6			2	.8	.25.8	13000	80	TR	18		82	28	2280	Drill 12 1/4".	
24/10	2400	11686	12.1	52	21	20	7/24	10.3	6.7	19	200	2	.8	.31.8	13000	80	TR	19		81	28	2305	Drill 12 1/4".	
25/10	2400	11686	12.1	51	22	20	7/25	10.2	6.8	19	200	2	.8	.31.9	13000	80	TR	19		81	28	2300	Logging.	
26/10	2400	11686	12.1	53	22	20	7/25	10.1	6.9	19	200	2	.8	.31.9	13000	80	TR	19		81	28	2300	Run 9 5/8".	
27/10	2400	11662	12.1	55	22	20	7/25	10.2	6.8	19	200	2	.8	.31.8	13000	80	TR	19		81	28	1485	Cement casing.	
28/10	2400	11662	12.1	62	20	22	8/29	9.6	7.0	20	200	2	.7	.15.3	12500	120	TR	19		81	28	1485	Test POPs.	
29/10	2400	11687	12.1	64	21	22	8/30	9.6	7.0	20	200	2	.7	.14.0	12500	120	TR	19		81	28	1351	Drill out shoe.	
30/10	2400	11838	12.1	49	19	15	5/22	10	6.5	21	200	2	1.5	.34.6	12000	40	TR	19		81	28	1369	Drill 8 1/2" hole.	
31/10	2400	11941	12.2	51	18	16	5/19	10.1	6.8	20	250	2	1.3	.31.3	12000	80	TR	19		81	28	1383	Drill 8 1/2" hole.	
1/11	2400																							
2/11	2400	12241	12.5	50	19	15	5/21	10	6.6	19	250	2	1.0	.34.2	12000	120	TR	20		80	29	1264	Drill 8 1/2".	
3/11	2400	12265	12.1	54	23	15	5/23	10	6.2	19	250	2	1.3	.47.4	11500	120	TR	23	3	74	28	1365	Circulate out gas.	
4/11	2400	12274	14.2	52	23	15	5/20	10	5.9	19	250	2	1.3	.44.3	11500	120	TR	25	4	71	26	1415	Circulate out gas.	
5/11	2400	12336	14.3	55	23	15	6/22	10	6.1	20	250	2	1.2	.31.4	11800	80	TR	26	4	70	26	1421	Coring.	

Date 5/11/83 Promud s/s Technical Representative R. Stamer/Brant/Sola District North Sea Region Norway PAGE 2 OF 3



DRILLING MUD RECAP

Contractor DOI, PTIN OPERATOR CONOCO NORWAY INC. LEGAL DESCRIPTION _____

Rig No. BORGNY DOI, PTIN Well Name 7/8-3 Field NORTH SEA COUNTRY NORWAY

Promud s/s Warehouse TANANGER Spud Date 11/9/83 No. Drilling Days To T.O. 68 DATE T.O. REACHED 17/11/83 TOTAL DEPTH 14174' TOTAL COST \$ 571,261,45

DATE (M/D/Y)	TIME	DEPTH (meters)	WT (ppg)	FV (%)	PV (%)	YIELD POINT (lb/100lb)	GELS (lb/100lb) ² @ 10	SH	FILTRATE (ml/30 min)			Coke (ppm)	Alkalinity		Chloride (ppm)	Calcium (ppm)	Sand (% by Vol)	Solids (% by Vol)	OH (% by Vol)	Water (% by Vol)	Methy Blue (mg/ml mud)	Cuff Volume (ml)	REMARKS
									API	MT.MP	CP		P _m	P ₂ / M ₁									
6/11	2400	12379	14.5	58	28	17	7/26	101	6.5	19	250	2	1.3	3/13	12000	80	.75	26	4	70	26	1375	Coring.
7/11	2400	12379	14.5	59	28	17	7/27	10	6.6	19	250	2	1.3	4/12	12000	80	.75	26	4	70	26	1415	Test HOP. RHH.
8/11	2400	12508	14.5	56	28	18	8/28	101	7.0	21	250	2	1.3	6/1.6	11500	80	.4	26	4	70	25	1340	Drilling. FOOT.
9/11	2400	12641	14.6	53	28	20	8/32	104	7.1	27	270	2	1.6	7/1.6	11500	40	.33	27	4	69	24	1425	RHH. Drilling.
10/11	2400	12790	14.7	54	30	19	8/29	104	6.0	21	270	2	1.7	7/1.9	11800	40	.25	27	4	69	25	1450	Drilling. FOOT.
11/11	2400	12917	14.7	53	30	19	8/30	104	5.6	17	270	2	1.6	7/1.7	12000	40	.25	27	4	69	24	1419	RHH. Drilling.
12/11	2400	13005	14.7	62	32	21	10/36	104	5.0	22	270	2	1.3	5/1.1	12200	60	.30	27	4	69	24	1487	Drilling ahead.
13/11	2400	13195	14.7	56	30	20	14/38	107	5.9	19	270	2	1.6	6/1.8	14000	60	.30	28	3	69	23	1381	Drilling ahead.
14/11	2400	13583	14.7	55	30	20	11/34	106	4.8	13	270	2	1.2	4/1.8	15000	40	.30	28	2	70	22	1465	Drilling ahead.
15/11	2400	13740	14.7	54	30	19	10/33	99	4.7	13	270	2	1.0	4/1.8	15000	40	.40	28	2	70	22.5	1363	FOOT to test.
16/11	2400	13926	14.7	54	30	16	4/37	105	4.8	13	270	2	1.0	4/1.8	16500	40	.3	30	2	68	23	1550	Drill.
17/11	2400	14075	14.7	56	27	14	4/21	10	4	12	270	2	.9	2/1.2	12000	40	.5	29.5	1	69.5	25	1470	Drill.
18/11	2400	14174	14.7	58	31	11	5/18	105	4	12	270	1	1.1	3/2.5	19000	40	.4	32	1	67	26	1580	Drill to TD.
19/11	2400	14174	15.0	52	32	10	5/15	102	3.8	12	270	1	1.0	3/1.9	17500	40	.75	30	1	68	22.5	1630	Circ. and cond.
20/11	2400	14174	15.0	60	33	10	5/15	102	4	12	270	1	1.0	3/1.9	17500	40	.75	30	1	69	22.5	1530	Logging.
21/11	2400	14174	15.0	65	32	10	5/13	101	3.8	12	270	1	1.0	3/1.9	20000	40	.5	29	1	70	22.5	1480	Logging.
22/11	2400	14174	15.0	67	33	10	4/19	10	3.8	12	270	1	1.0	3/1.9	20000	40	.5	29	1	70	22.5	1480	Logging.
23/11	2400	14174	15.0	70	33	10	4/20	10	3.8	12	270	1	.9	3/1.9	20000	40	.5	29	1	70	22.5	1480	Logging.
24/11	2400	14174	15.0	65	32	10	5/20	98	3.8	12	270	1	.8	3/1.8	20000	40	.25	28	1	70	22.5	1402	Cement. Plug.

Date 24/11/83 Promud s/s Technical Representative R. Stamper/Brauti/Sola District North Sea Region Norway PAGE 3 OF 3



DAILY DRILLING MUD ADDITIONS

Contractor DOLPHIN OPERATOR CONOCO NORWAY INC. LEGAL DESCRIPTION _____
 Rig No. BORGNY DOLPHIN Well Name And No. 7/8-3 Field NORTH SEA COUNTRY NORWAY
 Promud a/s Warehouse TANANGER Spud Date 11/9/83 No. Drilling Days To T.D. 68 DATE T.D. REACHED 17/11/83 TOTAL DEPTH 14174' TOTAL COST @ 571,261.45

DATE 11/83	DEPTH T.D. METERS	Bentonite		Caustic		CaCl		Mildpolymer 302		KCl		Barite		Drispac Regular		Drispac Superlo		Potassium Hydroxide		Sodium Bicarbonate		Performer		Permlose		Methylcell 552 L		Imical		ID		SST		Soltex		Lubrisal		DAILY COST	CUMULATIVE COST	
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost					
11/9		14	12	8																																		6,181.32	6,181.32	
12/9	652	10	14																																			7,982.98	14,164.30	
13/9	1566	6	5																																			2,533.95	16,698.25	
14/9	2010	13	4																																			5,336.68	22,034.93	
15/9	2040			17	11																																	3,335.03	25,369.96	
16/9	2040				10	400	20																12	4														15,905.38	41,275.34	
17/9	3018				27	400	25	5															18	4														22,313.59	63,588.93	
18/9	4341				9	404										8	3						40	9													15,531.94	79,120.87		
19/9	5235				11	170									16																							10,523.41	89,644.28	
20/9	5735				7	500	85								12																							28,736.97	118,381.25	
21/9	6418					215	33	4	1								1	1																				10,964.56	129,345.81	
22/9	6545					174	209	7	1																													36,985.26	166,331.07	
23/9	6544					200	38	6																															11,895.60	178,226.67
24/9	6544					362																																	10,482.54	188,709.21
25/9	6544				12	140	25								4																								11,379.72	200,088.93
26/9	6544					260	85								18	4																							26,158.22	226,247.65
27/9	6544			17		9	210	73							7	10																							29,991.94	256,239.59
28/9	6544							9							21																								15,760.17	271,999.76
29/9	6544				6		84								9																								39,172.26	311,172.02
30/9	6500																																						-	311,172.02
1/10	6560														11																							5,708.37	316,880.39	
2/10	6565							53							14																							15,837.77	332,718.16	
3/10	6524					23		4							13																								11,408.55	344,126.71

Date 3/10/83 Promud a/s Technical Representative R. Stamper/Sola District North Sea Region Norway PAGE 1 OF 4

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DAILY DRILLING MUD ADDITIONS

Contractor POLMIIN OPERATOR CONDOD NORWAY INC. LEGAL DESCRIPTION _____
 Rig No. RORGVY DOLMIIN Well Name And No. 7/R-3 Field NORTH SEA COUNTRY NORWAY
 Promud a/s Warehouse TANLXGER Spud Date 11/9/83 No. Drilling Days To T.D. 68 DATE T.D. REACHED 17/11/83 TOTAL DEPTH 14174' TOTAL COST \$ 571,261.45

DATE NO 83	DEPTH Ft. MARK	Bentonite		Caustic 403.00		MHPolymer 302		Barite		Drispac Regular		Drispac Superlo		Potassium Hydroxide		Sodium Bicarbonate		Promud Defoamer		Lignin		MHPolymer 352 I.		Inical		M		SST		Soltrex		Lubritical		Mupling		Soda Ash		DAILY COST	CUMULATIVE COST
		Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost		
4/10	7042			29	17				26										5																		16,222.29	361,348.80	
5/10	7250		33		4																1		2												5	5	6,273.15	366,621.95	
6/10	7780		14		4																	62														3,771.26	370,393.21		
7/10	8253		26		7								2									67														6,598.20	376,991.41		
8/10	8936		19		74																	43														14,823.19	391,814.60		
9/10	8936																																				-	391,814.60	
10/10	9377		20		36				6													43											6	10		8,541.67	400,356.27		
11/10	9568		10		8				3													10													6	6	2,485.67	402,841.94	
12/10	9800		20		9				3													28														3,268.55	406,110.49		
13/10	9883		12		13				8													1		22													5,429.07	411,539.56	
14/10	10316		6		10				19													25														7,119.91	418,659.47		
15/10	10525		6						20														25														5,201.32	423,860.79	
16/10	10733		15		3				17														25														5,233.15	429,093.94	
17/10	10985	2	7		7				2																												2,438.89	431,532.83	
18/10	11018																																					-	431,532.83
19/10	11110		12		2				4																													2,635.13	434,167.96
20/10	11125		5						3																													736.35	434,904.31
21/10	11247		1		1				7														13															1,983.53	436,887.04
22/10	11339		5																				10															338.35	437,221.19
23/10	11514		16																				65															2,942.42	440,168.61
24/10	11686		9						3																													2,419.97	442,588.58
25/10	11686				20																																	3,024.00	445,612.58
26/10	11686																																						445,612.58

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DAILY DRILLING MUD ADDITIONS

Contractor DOLFIN OPERATOR CONOCO NORWAY INC. LEGAL DESCRIPTION _____
 Rig No. BORGNY DOLFIN Well Name And No. 7/R-3 Field NORTH SEA COUNTRY NORWAY
 Promud a/s Warehouse TANANGER Spud Date 11/9/R3 No. Drilling Days To T.D. 6R DATE T.D. REACHED 17/11/R3 TOTAL DEPTH 14174' TOTAL COST \$ 571,261.45

DATE (R3)	DEPTH (ft.)	Barite		Bentonite		Caustic		Unical		Lignon		Orignac Superlo		Defosm		Line		Chemprol X						DAILY COST	CUMULATIVE COST
		Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost		
27/10	1662																							-	445,612.58
28/10	1662																							-	445,612.58
29/10	1687																							-	445,612.58
30/10	1838	17		22	60	43	7																7,047.20	452,659.78	
31/10	1914	15		7			6																3,673.20	456,333.07	
1/11	2171	12		13	13	30	3	1															3,913.10	460,246.17	
2/11	2241	5		10	2	16	5																2,501.42	462,747.59	
3/11	2265	48		17	20	12	6																9,666.23	472,413.82	
4/11	2274	38		5	25	14	3																7,428.03	479,841.85	
5/11	2336	35					2																5,708.00	485,549.85	
6/11	2379	19	5	9	28																		5,725.83	491,275.68	
7/11	2379																						-	491,275.68	
8/11	2508	25		10	16	22																	4,965.14	496,240.82	
9/11	2641	8		21	36	35																	3,447.77	499,688.59	
10/11	2790	60		27	27	30																	11,557.49	511,246.08	
11/11	2917			17	42	2																	1,385.63	512,631.71	
12/11	3005	18		7		14				7													3,307.29	515,939.00	
13/11	3195	5			15					11													1,169.36	517,108.36	
14/11	3583	11		4	44	1				18	42												7,155.18	524,263.54	
15/11	3740	6		9	30																		1,787.43	526,050.97	
16/11	3926			58	258																		12,204.06	538,255.02	
17/11	4075	42	4	25	45																		9,543.55	547,798.58	
18/11	4174		8																				2,207.76	550,006.34	

Date 18/11/83 Promud a/s Technical Representative R. Stamer/A. Brauti District North Sea Region Norway PAGE 3 OF 4

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DAILY DRILLING MUD ADDITIONS

Contractor DOI.MIIN OPERATOR CONOCO NORWAY INC. LEGAL DESCRIPTION _____
 Rig No. BORGNY DOLPHIN Well Name And No. 7/8-3 Field NORTI SEA COUNTRY NORWAY
 Promud s/s Warehouse TANANGER Spud Date 11/9/83 No. Drilling Days To T.D. 68 DATE T.D. REACHED 17/11/83 TOTAL DEPTH 14174' TOTAL COST @ 571,261.45

DATE 1983	DEPTH meters	Barite		Bentonite		Caustic		Unical		Lime		Chemtrol X		Defomer		DTISAC		Regular		Bicarbonate						DAILY COST	CUMULATIVE COST
		Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost	Unit	Cost		
19/11	14174	25		10				15	20																	61,341.10	556,140.43
20/11	14174	22																								3,326.40	559,466.84
21/11	14174																									-	559,466.84
22/11	14174																									-	559,466.84
23/11	14174																									-	559,466.84
24/11	14174								10																	1,014.00	560,480.84
25/11		51	3		21					1	3	26														10,756.61	571,261.45

Date 25/11/83 Promud s/s Technical Representative R. Stamer/A. Rrauti District North Sea Region Norway PAGE 4 OF 4

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APPENDIX

RFT RESULTS

<u>Depth M(KB)</u>	<u>H.P. (PSIG)</u>	<u>F.P. (PSIG)</u>	<u>PERM.</u>	<u>REMARKS</u>
3724	9494	-	-	TIGHT
3736.0	9522	8568	HIGH	
3738.2	9528	8571	MOD/HIGH	
3746.5	9550	8611	MOD	SUPERCHARGED
3750.2	9559	8590	HIGH	SL SUPERCH.
3753.0	9567	8598	HIGH	
3755.8	9573	8598	MOD/HIGH	SL SUPERCH.
3757.5	9577	8609	MOD/HIGH	SL SUPERCH.
3760.0	9586	>8634	LOW	SUPERCH.
3763.6	9593	8600	HIGH	
3766.2	9597	>8775	LOW	HIGHLY SUPERCH
3769.5	9609	-	-	TIGHT
3829.0	9754	-	-	NO SEAL
3833.0	9765	-	-	NO SEAL
3833.5	9765	-	-	NO SEAL
3925.4	9976	-	-	NO SEAL
3992.5	10163	10214	?	ANOMALOUSLY
3994.0	10169	10161	?	HIGH FORM. PRESS REASON UNKNOWN
4004.8	10199	-	-	NO SEAL
4049.5	10301	9284	MOD	1 GALLON SMPL
4050.0	10306	9286	MOD/HIGH	
4053.1	10315	>9398	MOD	SUPERCH.
4059.0	10330	-	-	NO SEAL
4116.9	10475	-	-	TIGHT
4170.0	10608	-	-	NO SEAL

WELL 7/8-3 NORWAY

DRILL STEM TEST REPORT
DECEMBER 1983

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J. S. MacDonald
PES Houston

CONOCO INC.
PRODUCTION ENGINEERING SERVICES
BOX 2197
HOUSTON, TEXAS 77001

FROM: J. S. MacDonald

DATE: March 29, 1984

SUBJECT: WELL 7/8-3 NORWAY DRILL STEM TEST REPORT

INTRODUCTION

Two drill stem tests were performed in separate intervals of the Upper Jurassic Sandstone section of Well 7/8-3 in the Norwegian sector of the North Sea. The purpose of this report is to document the test data and results, and give an analysis and interpretation of these results.

CONCLUSIONS

1. The moveable formation fluid from the interval 12342-12359 ft. (3762-3767m) is 29° API oil.
2. The tested interval from 12342-12359 ft contained a higher permeability layer, of limited extent, within a tight matrix rock. The zone will not give up sustained commercial oil flowrates.
3. The moveable formation fluid from the interval 12252-12272 ft (3734.5 - 3740.6m) was proven to be 30° API oil. The interval will not give up commercial oil flowrates.
4. The Upper Jurassic Sandstone has a formation pressure gradient of 0.701 psi/ft \pm 0.001 psi/ft with an equivalent mud weight of 13.48 ppg through the tested interval.

J. S. MacDonald.

Jeffery S. MacDonald
Senior Production Engineer
Production Engineering Services

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WELL 7/8-3
SUMMARY OF TEST RESULTS

1. Drill Stem Test No. 1

Date of Test	1st - 3rd December 1983
Formation Type	Upper Jurassic
Perforated Interval	12342 - 12359 ft. (3762-3767m)
Initial Flow Period	7 mins.
Initial Buildup	60 mins.
Final Flow Period	10 hrs 10 mins (610 mins)
Final Buildup	13 hrs 24 mins (804 mins)

Flow Period

Oil Flowrate (final 5 hours)	1340 declining to 1275 BOPD
Gas Flowrate	230 M SCF/D
Gas-Oil-Ratio (separator conditions)	177 SCF/BBL
B.S.W.	1%
Flowing BHP (final 5 hours)	3788 psig declining to 3736 psig
Flowing WHP (final 5 hours)	→57 psig
Flowing Pressure Gradient	0.299 psi/ft.
Oil Gravity - specific	0.882
°API	29°
Gas Gravity	0.880
H ₂ S Content	0
CO ₂ Content	4.5%

Pressure Buildup Analysis

Initial Formation Pressure (mid-perfs)	8602 psig ± 5 psi.
Formation Pressure Gradient	0.701 psi/ft ± 0.001 psi/ft. → <u>13.5 PPG</u>
Mud Weight Equivalent	13.48 ppg ± 0.02 ppg.
Formation Temperature (mid-perfs.)	312°F.
Temperature Gradient (ref. mudline)	2.314°F/100 ft.
Permeability-Thickness (as tested)	120 md-ft.
Permeability (average)	7 md.
Permeability thickness (high perm layer)	355 md-ft.
Permeability (high perm layer)	120 md.
Skin Effect	- 3.2.
Productivity Index (actual)	0.27 bbl/d/psi.
Radius of Investigation	±250 ft.

COMMENTS

This is a valid test. The well produced 29° API gravity oil with a separator gas-oil-ratio of 177 SCF/BBL. Log data indicated high water saturations through this interval with a possible oil-water contact. The test was undertaken to try and determine the existence of the potential contact. However as the zone produced clean oil with no formation water,

it is not possible to prove an oil-water contact, or that the interval is or is not in the start of a transition zone.

Based on the log, core and test data it is concluded that the zone of interest contained a high permeability layer, of limited areal extent, within a tight matrix. Depletion of this limited high permeability layer was the reason for the slowly declining flowrates during the test. This does not imply depletion of a limited reservoir, only of this particular high permeability layer.

2. Drill Stem Test No. 2

Date of Test	4th - 6th December 1983
Formation Type	Upper Jurassic Sandstone
Perforated Interval	12252 - 12272 ft (3734.5-3740.6m)
Initial Flow Period	5 mins
Initial Buildup Period	40 mins
Final Flow Period	9 hrs 17 mins (557 mins)
Final Buildup Period	10 hrs 10 mins (610 mins)

Flow Period Results

Average Oil Flowrate	415 BOPD
Gas Flowrate	Unable to measure
Gas - Oil Ratio	Unable to measure
Flowing BHP final	4446 psig
Flowing WHP	→ 20 psig
Flowing Pressure Gradient (final)	0.362 psi/ft.
Oil Gravity - Specific	± 0.876
- °API	30° API
Gas Gravity	0.880
H ₂ S	0
CO ₂	4.5%

Pressure Buildup Analysis

Initial Formation Pressure (mid-perfs)	8586 psig ± 5 psi
Formation Pressure Gradient	0.700 psi/ft ± 0.001 psi/ft → 13.5 PPG
Mud Weight Equivalent	13.46 ppg ± 0.02 ppg
Formation Temperature (mid-perfs)	310°F
Temperature Gradient (ref mudline)	2.313 °F/100 ft
Permeability - thickness	260 md-ft
Permeability	18 md.
Skin Factor	+8.1
Drawdown Due to Skin	2001 psi
% DD Due to Skin	55%
Radius of Investigation	±200 ft
Lateral extent of shale barrier	±100 ft
P.I. (actual)	0.12 bbl/d/psi
P.I. (S = 0)	0.24 bbl/d/psi

260
3.2800

COMMENTS

This was a valid test of the interval. The moveable formation fluid was proven to be 30° API gravity oil. The pressure buildup analysis indicates that the shale barrier separating the perforated interval from additional oil bearing pay extends approximately 100 ft. from the wellbore. Beyond this the pressure transients were expanding in a vertical as well as horizontal direction.

Document Id. : R-EUG-0208
Reference Code :
Date : AUGUST 1993
Revision Number :

Title

GEOCHEMICAL DATA REPORT FOR WELL 7/8-3

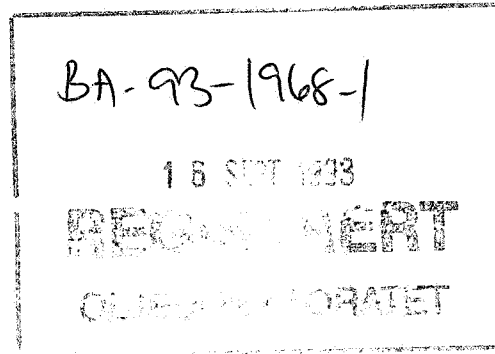
Authors(s)

NIGEL MILLS

Abstract

Twenty-one samples from the cored interval in well 7/8-3 have been analysed by Iatroscan (TLC-FID) and the saturated hydrocarbon fractions from two samples were analysed by GC-FID and GC/MS. The aromatic hydrocarbon fractions were also analysed by GC-FID.

NOT INCLUDED IN WELL TRADE.



Key Words

7/8-3, geochemistry, GC-FID, GC/MS, Iatroscan

Classification: Free Saga and partners Internal Confidential Strictly confidential

Org. Unit	EUG				
Reviewed	I. Horstad <i>[Signature]</i>				
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Hovedkontor/Head Office Oslo:

Adresse/Address
Kjorboveien 16
Postboks 490
N-1301 SANDVIKA

Telefon/Telephone
Nasjonalt 67 12 66 00
Intern. +47 67 12 66 00

Teleks/Telex
78852 Saga n
Telefax
Nasjonalt 67 128666
Intern. +47 67 128666

Driftsdivisjon/Operations Division Stavanger:

Adresse/Address
Godesettdalen 8
Postboks 117
N-4003 FORUS

Telefon/Telephone
Nasjonalt 04 67 40 00
Intern. +47 4 67 40 00

Teleks/Telex
33244 sagap n
Telefax
Nasjonalt 04 670261
Intern. +47 4 670261

1 Objectives

The objective of this study was to characterise the extractable hydrocarbons in twenty-one core samples from well 7/8-3.

2 General well information

The well was drilled by Conoco as operator of licence 069 from 12.9.83 to 12.12.83 and reached a total depth of 4320 mRKB. The KB of the rig was 25 metres and the water depth was 81 metres.

3 Samples and analytical scheme

Twenty-one samples were picked from the cored interval in the well on the 6th of August 1992. All samples were analysed by Iatroscan (TLC-FID), and the saturated hydrocarbon fractions from two samples were analysed by GC-FID and GC/MS. The aromatic hydrocarbon fractions were also analysed by GC-FID.

4 Vitrinite reflectance

No samples were analysed.

5 TOC and Rock Eval

No samples were analysed.

6 Iatroscan (TLC-FID)

Twenty-one samples were analysed, and the results are tabulated in Table 1.

7 GC-FID

The saturated and aromatic hydrocarbon fractions from 2 samples were analysed by GC-FID. Since the evaporative loss has affected the relative concentration of individual compounds, no ratios were calculated. The GC-FID chromatograms are shown in figure 1.

8 GC/MS

The saturated hydrocarbon fractions from the samples were analysed by GC/MS and the mass chromatograms for m/z 191, 177, 217 and 218 are shown in figure 2.

9 Stable carbon isotopes

No samples were analysed.

Tab. 1

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 7/8-3

Page 1

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	3731.40	3731.40	2.45	4.16		2.20	0.60			1.36		I
CCP	3732.70	3732.70	2.91	9.28		4.89	1.54			2.85		I
CCP	3733.60	3733.60	3.36	9.76		4.94	1.64			3.17		I
CCP	3734.50	3734.50	3.07	8.19		4.25	1.46			2.47		I
CCP	3735.65	3735.65	2.42	10.24		5.31	1.41			3.52		I
CCP	3736.50	3736.50	2.81	8.12		3.92	1.43			2.77		I
CCP	3737.50	3737.50	2.93	4.47		2.27	0.92			1.28		I
CCP	3738.65	3738.65	2.64	0.23		0.07	0.00			0.16		I
CCP	3740.70	3740.70	3.07	3.99		2.12	0.87			1.00		I
CCP	3743.75	3743.75	3.08	4.74		2.30	0.86			1.58		I
CCP	3745.40	3745.40	2.57	4.42		2.28	0.73			1.42		I
CCP	3749.30	3749.30	3.07	4.80		2.63	0.77			1.40		I
CCP	3749.30	3749.30	2.97	0.09		0.00	0.00			0.09		I
CCP	3753.30	3753.30	2.99	6.58		3.04	1.58			1.97		I
CCP	3755.55	3755.55	2.97	8.06		4.10	1.79			2.18		I

21 RESULT(s) selected ..., from the following search criteria:

Nat: NOR, Well: 7/8-3, Type: CCP,

Depth between: 0.000 and 99999.990

m

SAGLAB RESULTS MANAGEMENT : EXTRACTION ANALYSIS RESULTS in mg/g Rock

Data for Well 7/8-3

Page 2

Type	St.Depth	En.Depth	Weight (g)	EOM mg/g Rock	EOM mg/g TOC	Sat (mg/g)	Aro (mg/g)	NSO (mg/g)	Asph (mg/g)	Polars (mg/g)	TOC (%)	M/I
CCP	3757.50	3757.50	2.35	3.13		1.39	0.49			1.26		I
CCP	3759.55	3759.55	2.74	3.56		1.79	0.64			1.13		I
CCP	3760.70	3760.70	2.76	3.72		1.97	0.79			0.96		I
CCP	3763.55	3763.55	3.00	2.12		0.88	0.26			0.99		I
CCP	3765.65	3765.65	2.50	0.19		0.00	0.00			0.19		I
CCP	3766.65	3766.65	1.73	0.32		0.00	0.00			0.32		I
Averages this Well:				4.77	0.00	2.40	0.85	0.00	0.00	1.53	0.00	
Averages all Wells:				4.77	0.00	2.40	0.85	0.00	0.00	1.53	0.00	

21 RESULT(s) selected ..., from the following search criteria:

Nat: NOR, Well: 7/8-3, Type: CCP,

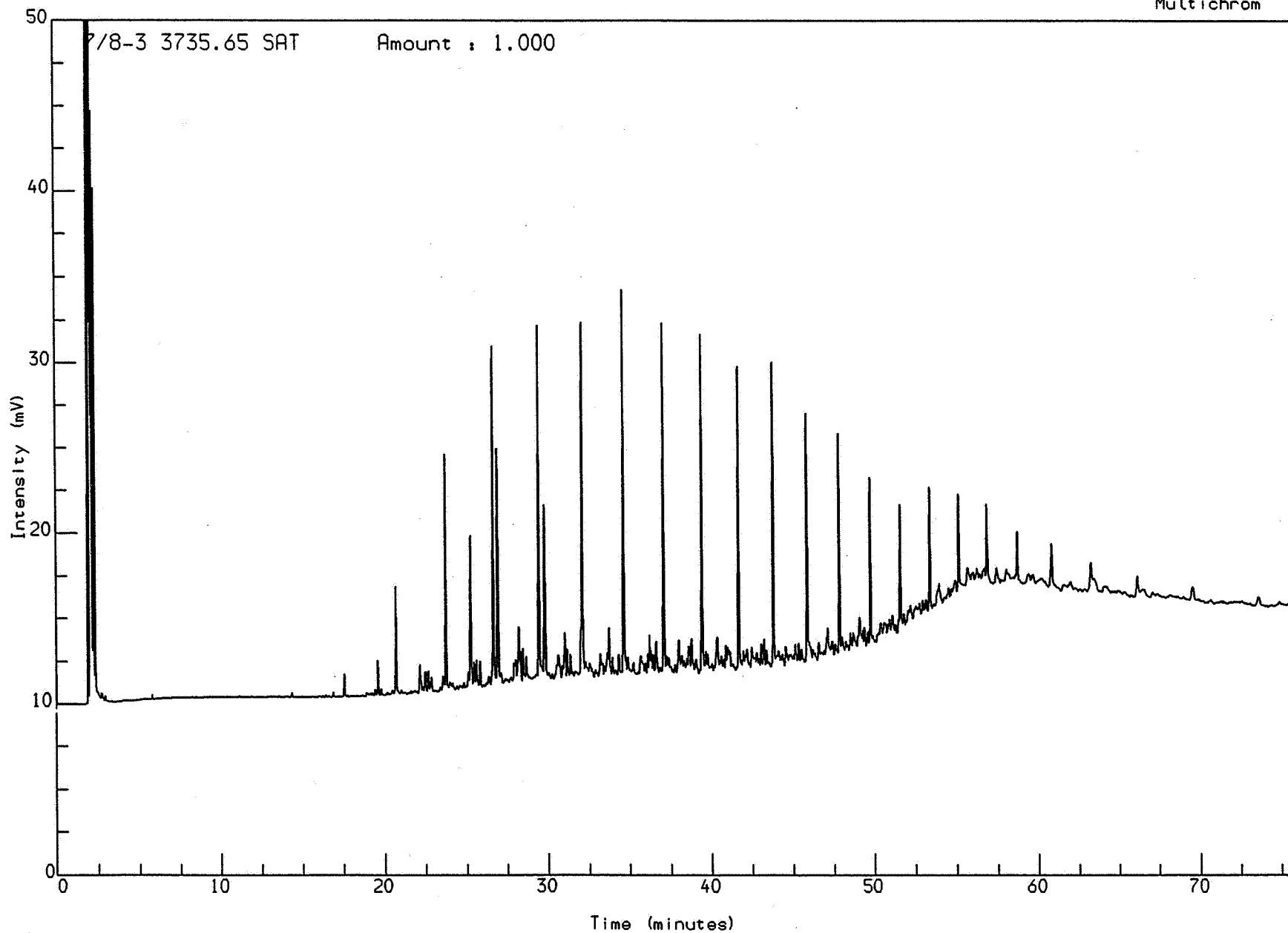
Depth between: 0.000 and 99999.990

m

Fig. 1

Analysis Name : [DL PROJECT] 3 S101,1,1.

Multichrom

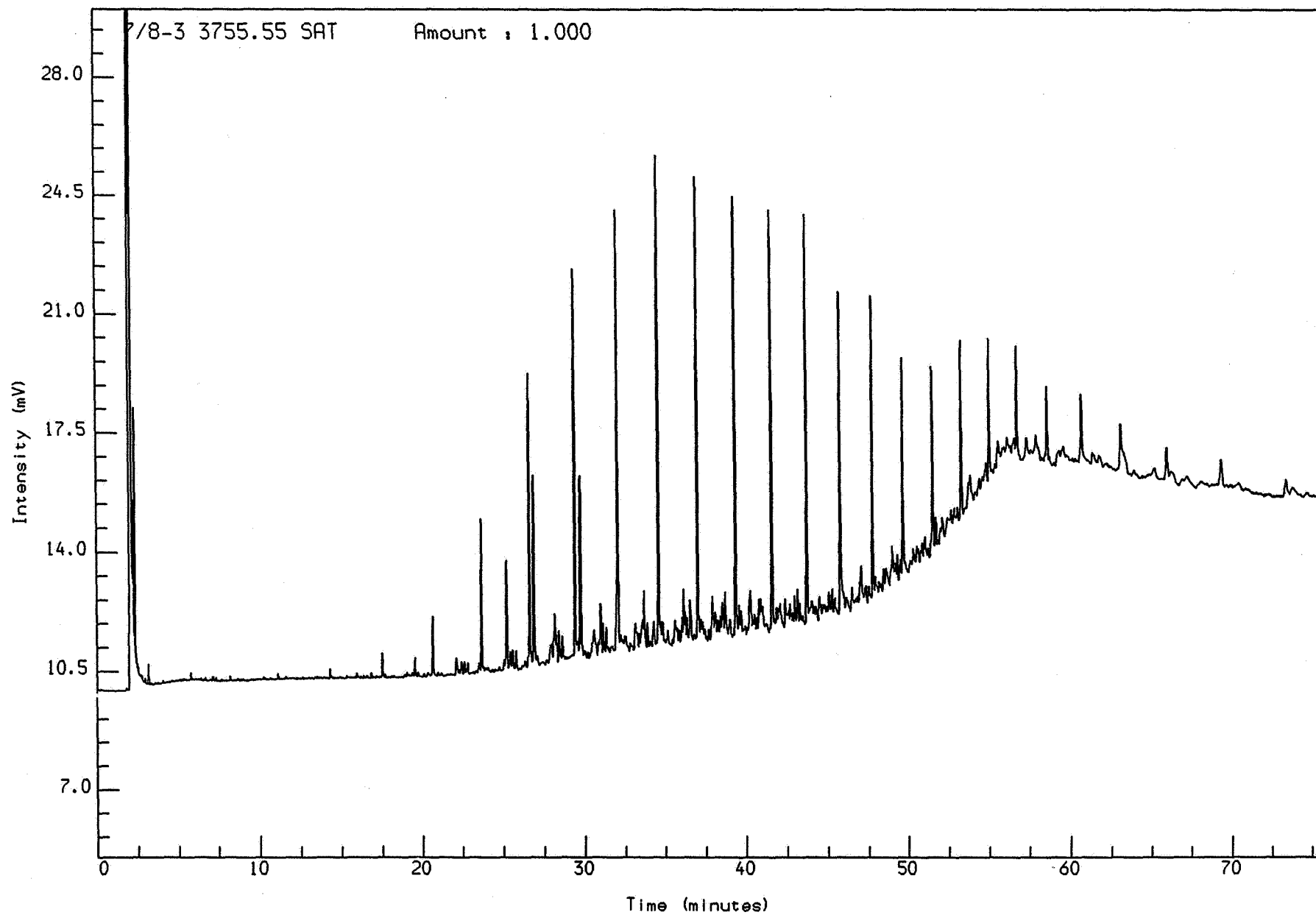


Acquired on 29-SEP-1992 at 13:45

Reported on 2-OCT-1992 at 10:37

Analysis Name : [[PROJECT] 3 S101,2,1.

Multichrom

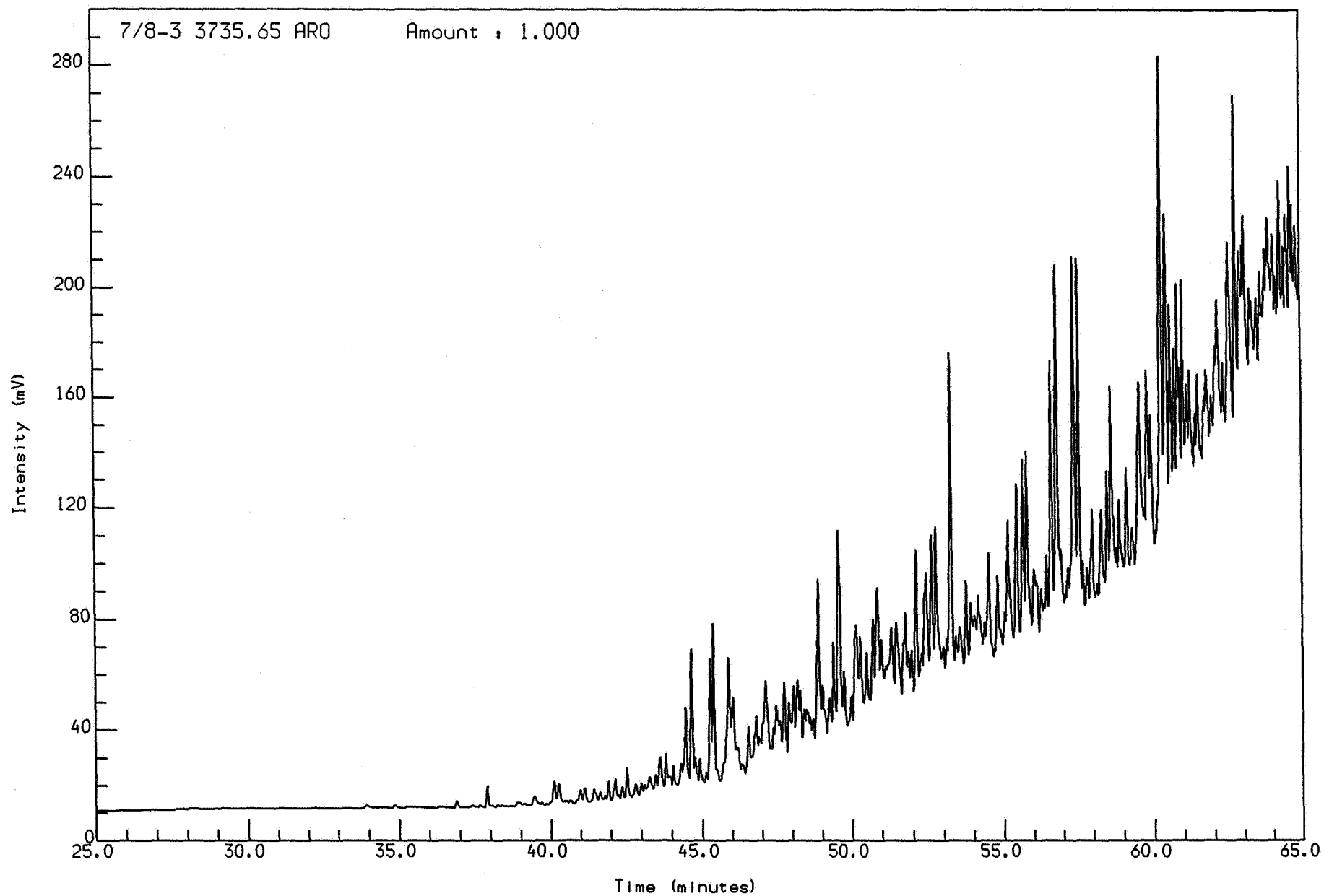


Acquired on 29-SEP-1992 at 15:06

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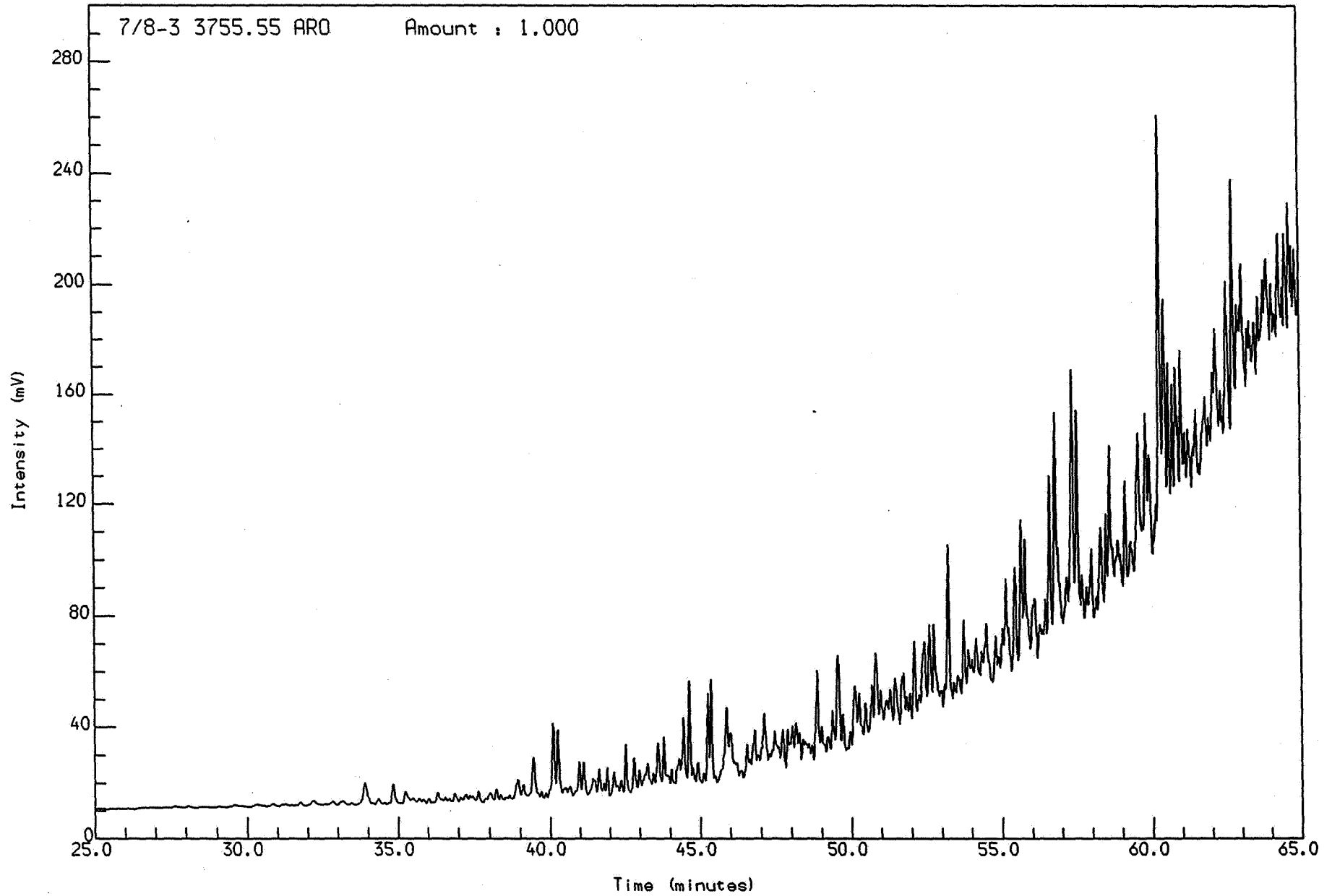
Analysis Name : [D: PROJECT] 1 A157,1,1.

Multichrom



Acquired on 1-OCT-1992 at 16:27

Reported on 5-OCT-1992 at 13:10



Acquired on 2-OCT-1992 at 07:59

Reported on 5-OCT-1992 at 13:10

Fig. 2

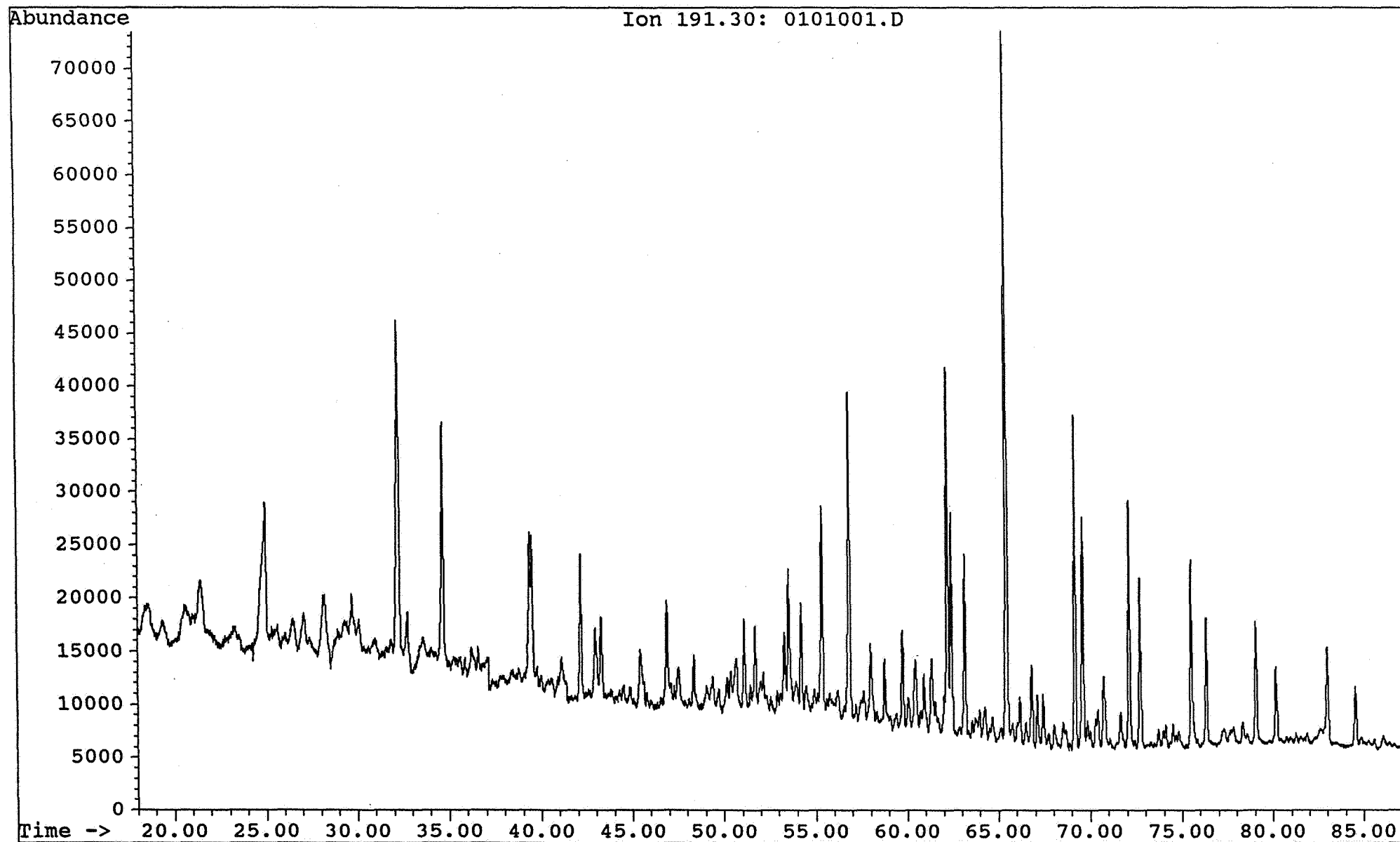
Saga Petroleum a.s.

Date acquired: 1 Oct 92 10:44 am

File: C:\CHEMPC\DATA\KVAD7_15\0101001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 7/8-3 3735,65 sat

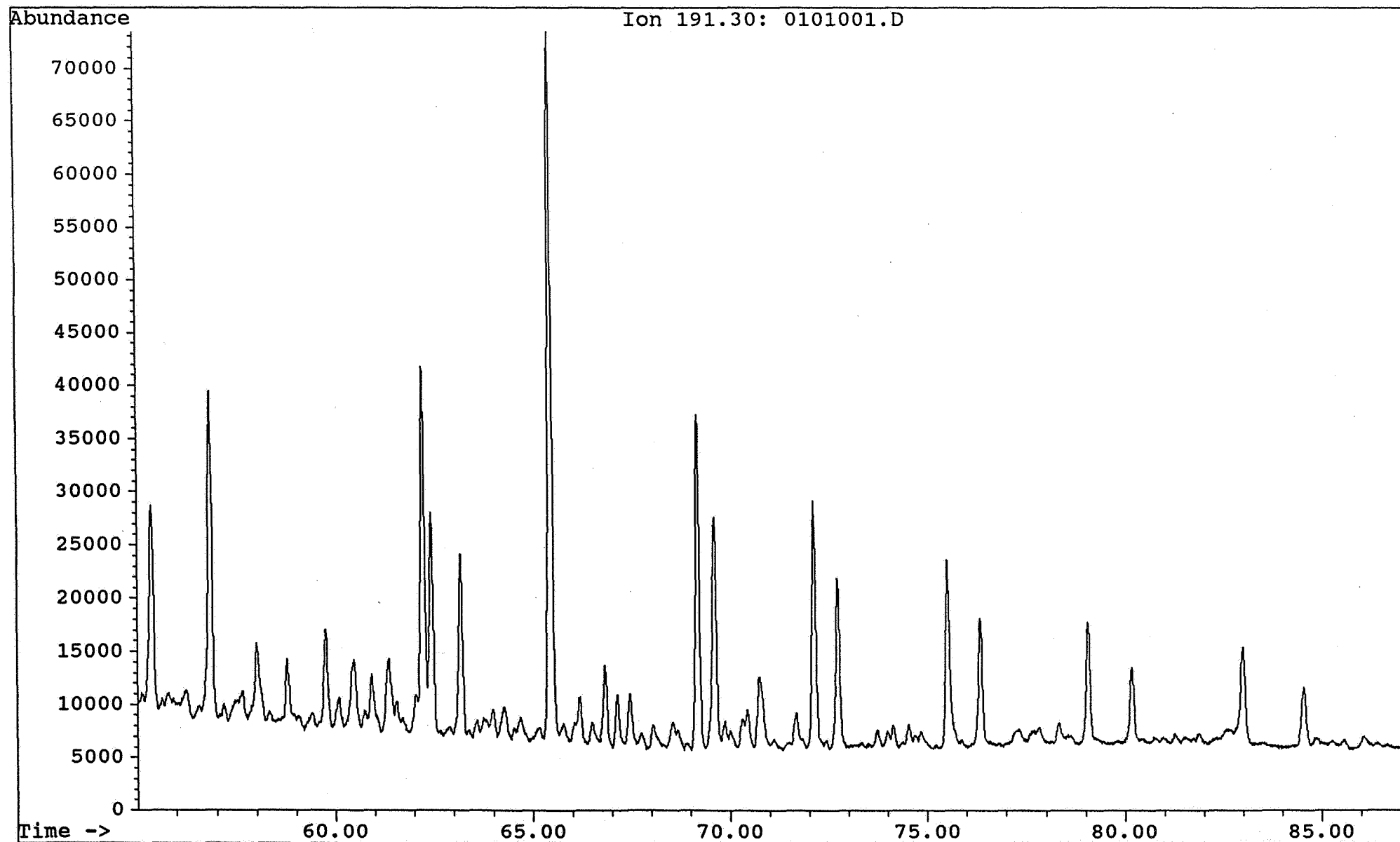


Saga Petroleum a.s.

Date acquired: 1 Oct 92 10:44 am

File: C:\CHEMPC\DATA\KVAD7_15\0101001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 7/8-3 3735,65 sat

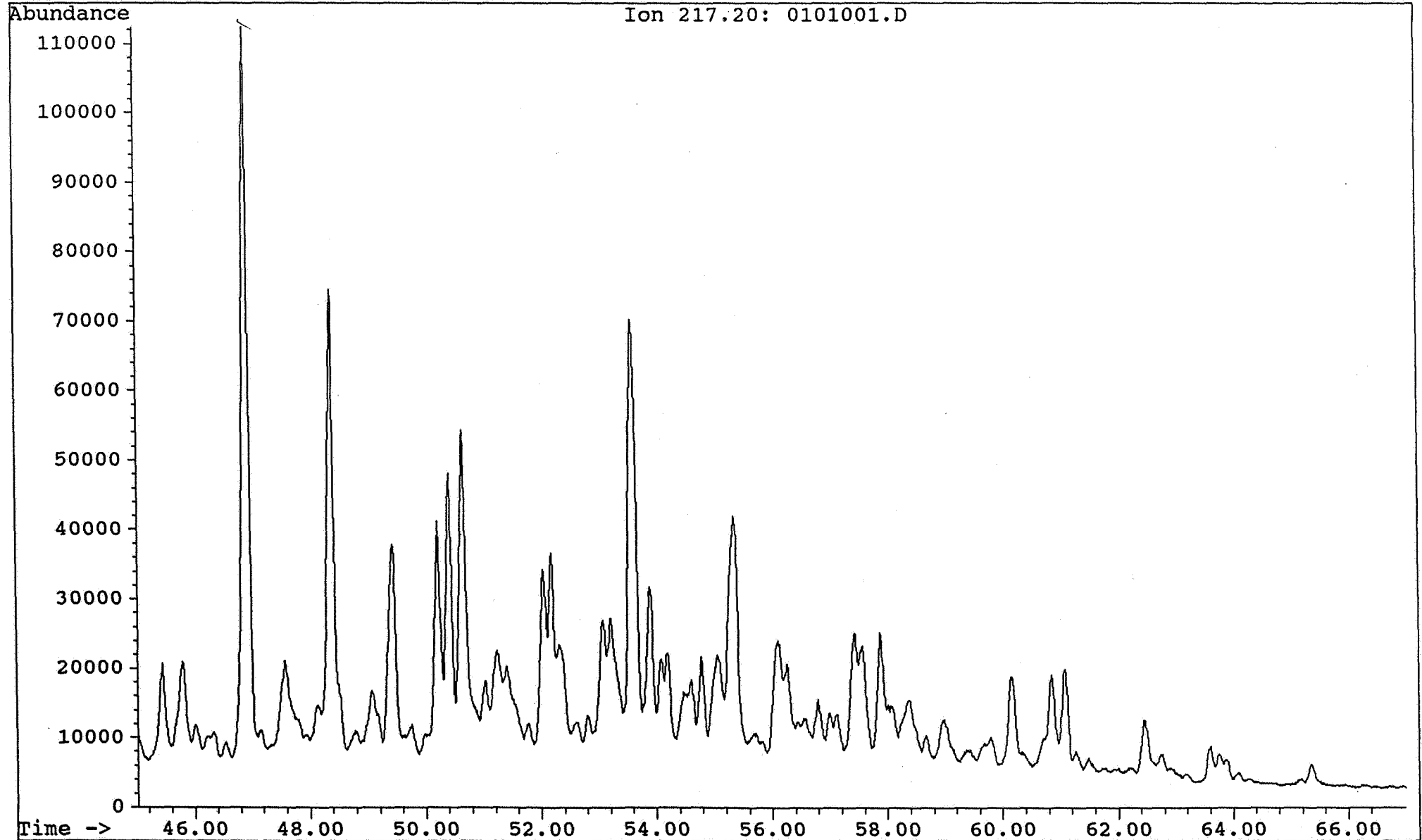


Saga Petroleum a.s.

Date acquired: 1 Oct 92 10:44 am

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Sample name: WELL 7/8-3 3735,65 sat

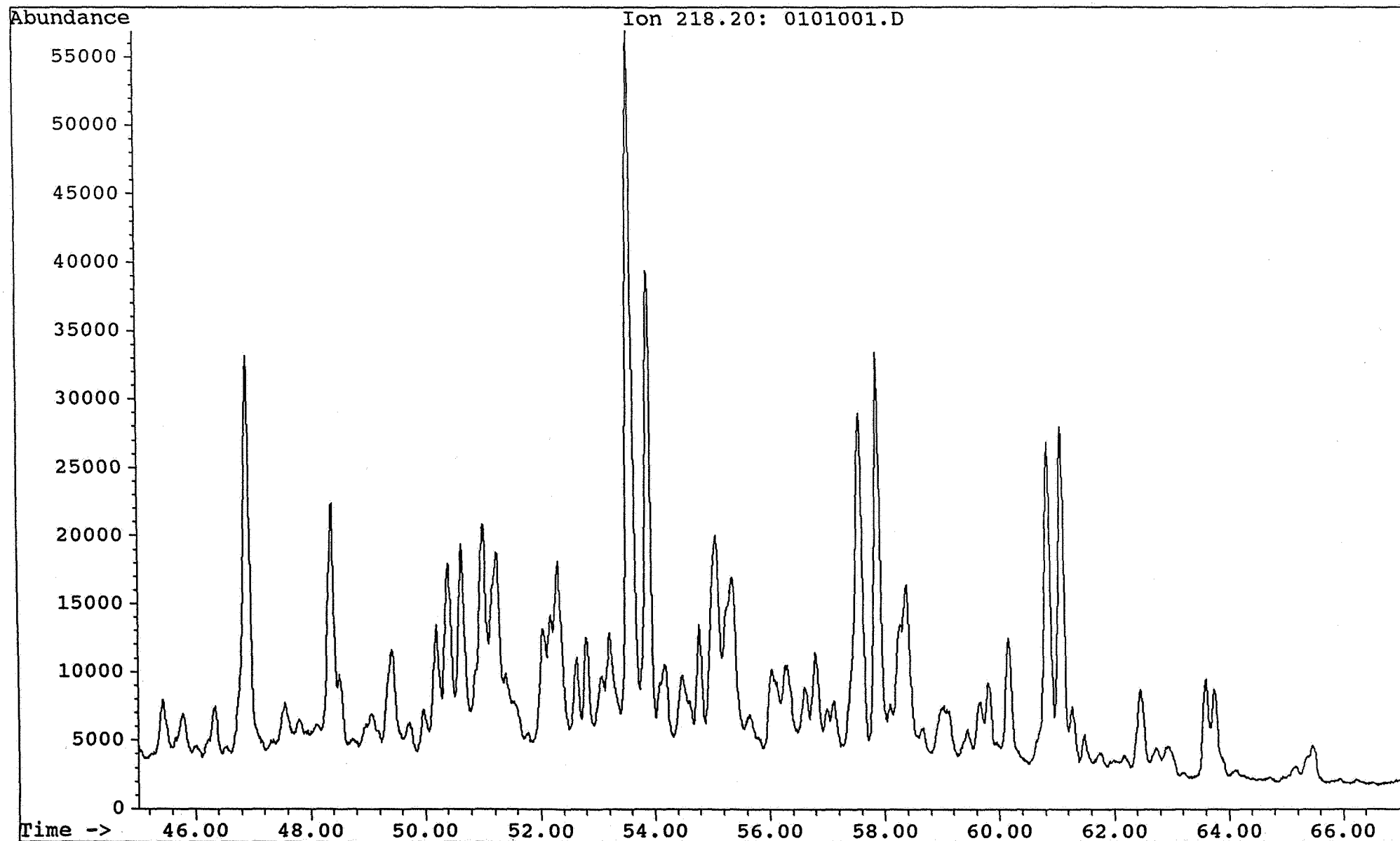


Saga Petroleum a.s.

Date acquired: 1 Oct 92 10:44 am

File: C:\CHEMPC\DATA\KVAD7_15\0101001.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 7/8-3 3735,65 sat



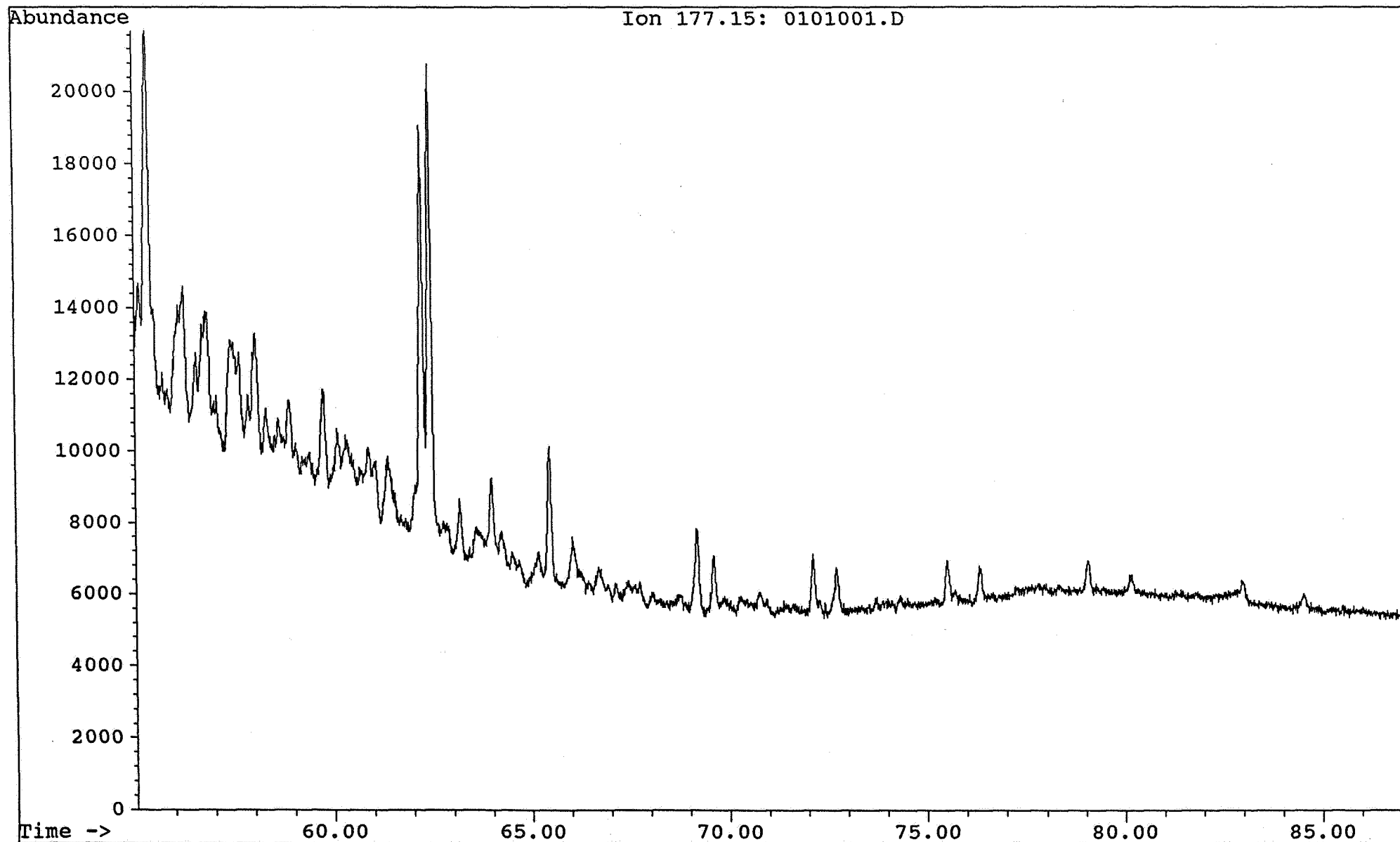
Saga Petroleum a.s.

Date acquired: 1 Oct 92 10:44 am

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Sample name:

WELL 7/8-3 3735,65 sat

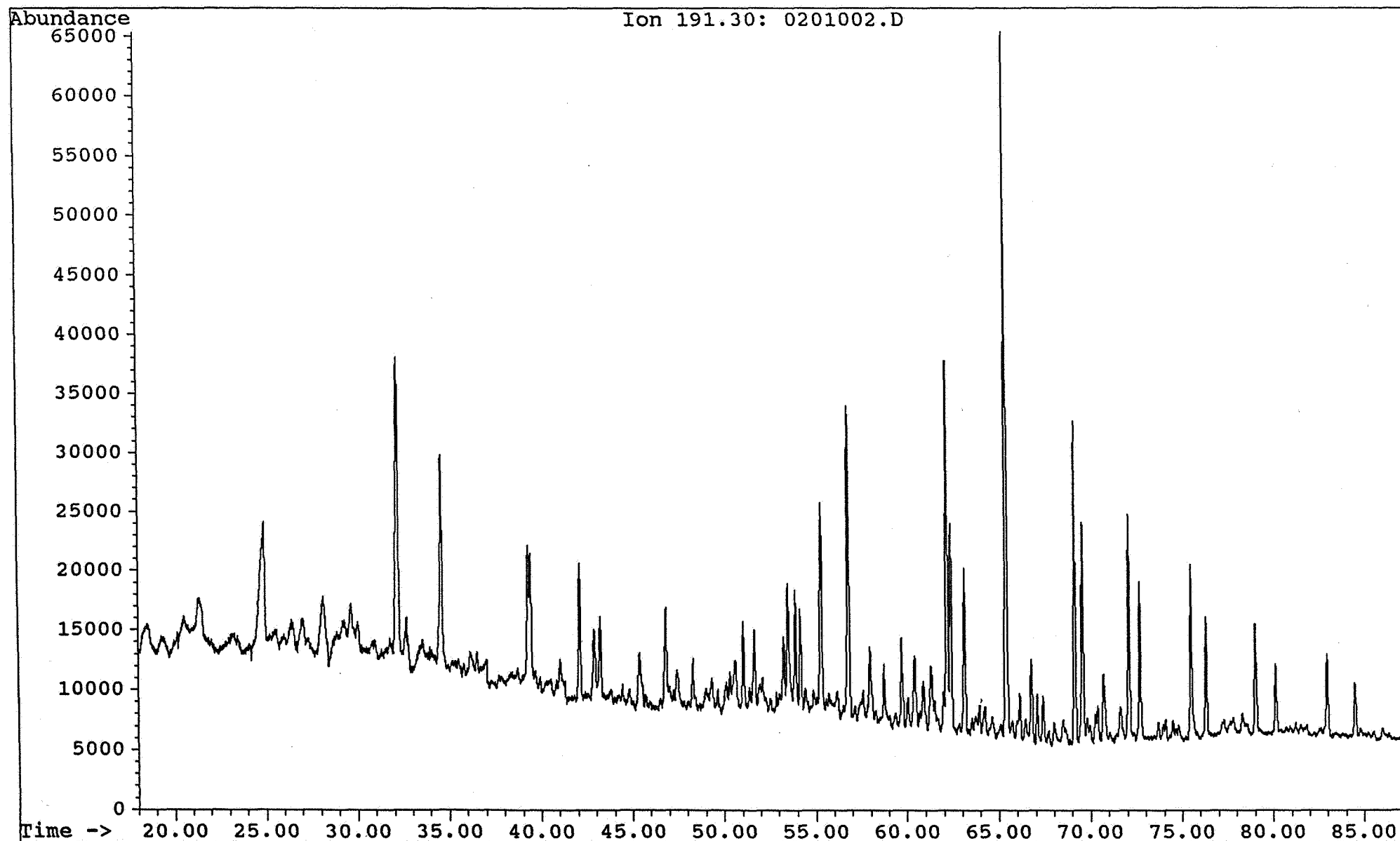


Saga Petroleum a.s.

Date acquired: 1 Oct 92 12:28 pm

File: C:\CHEMPC\DATA\KVAD7_15\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name: WELL 7/8-3 3755,55 sat



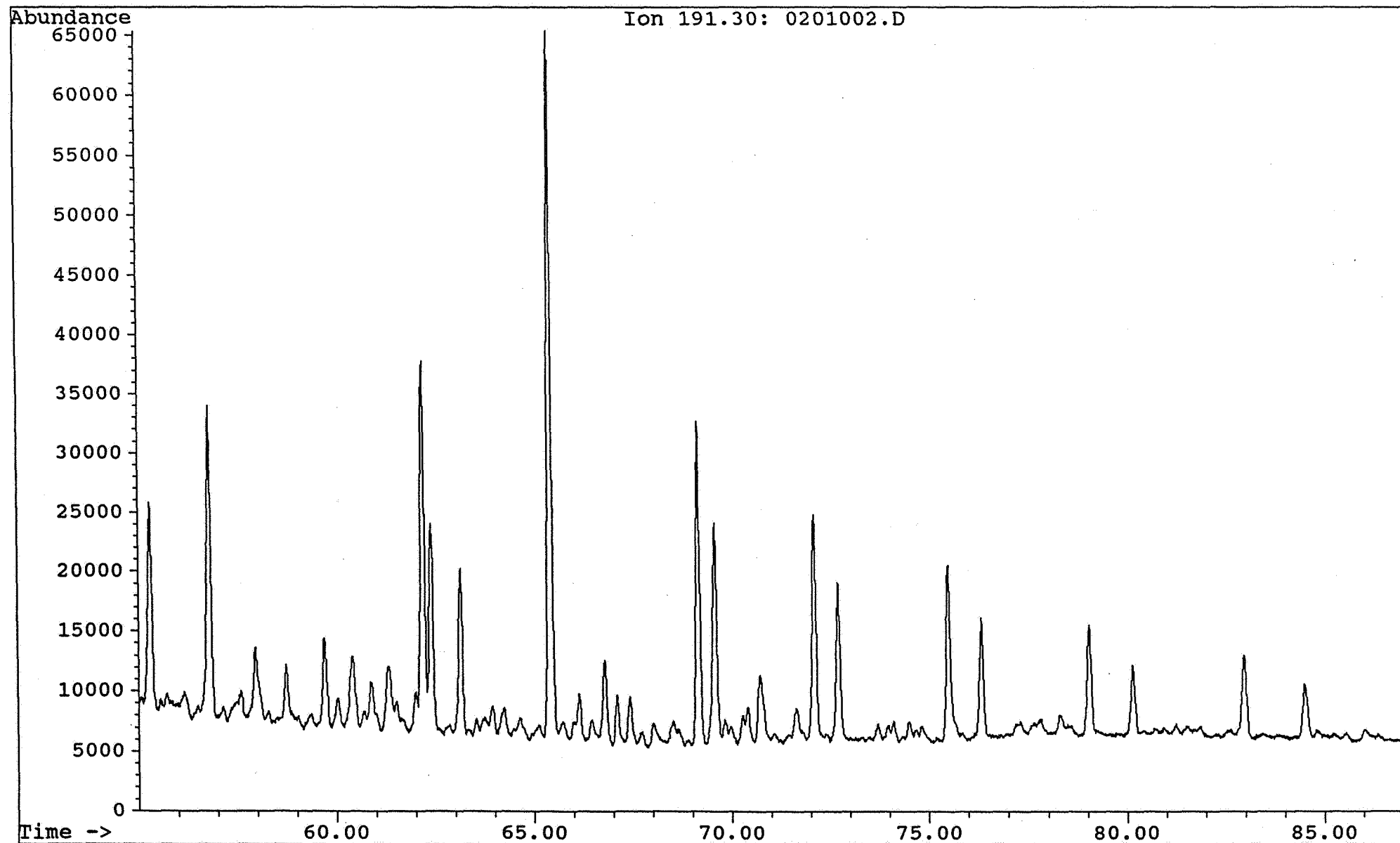
Saga Petroleum a.s.

Date acquired: 1 Oct 92 12:28 pm

File: C:\CHEMPC\DATA\KVAD7_15\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 7/8-3 3755,55 sat



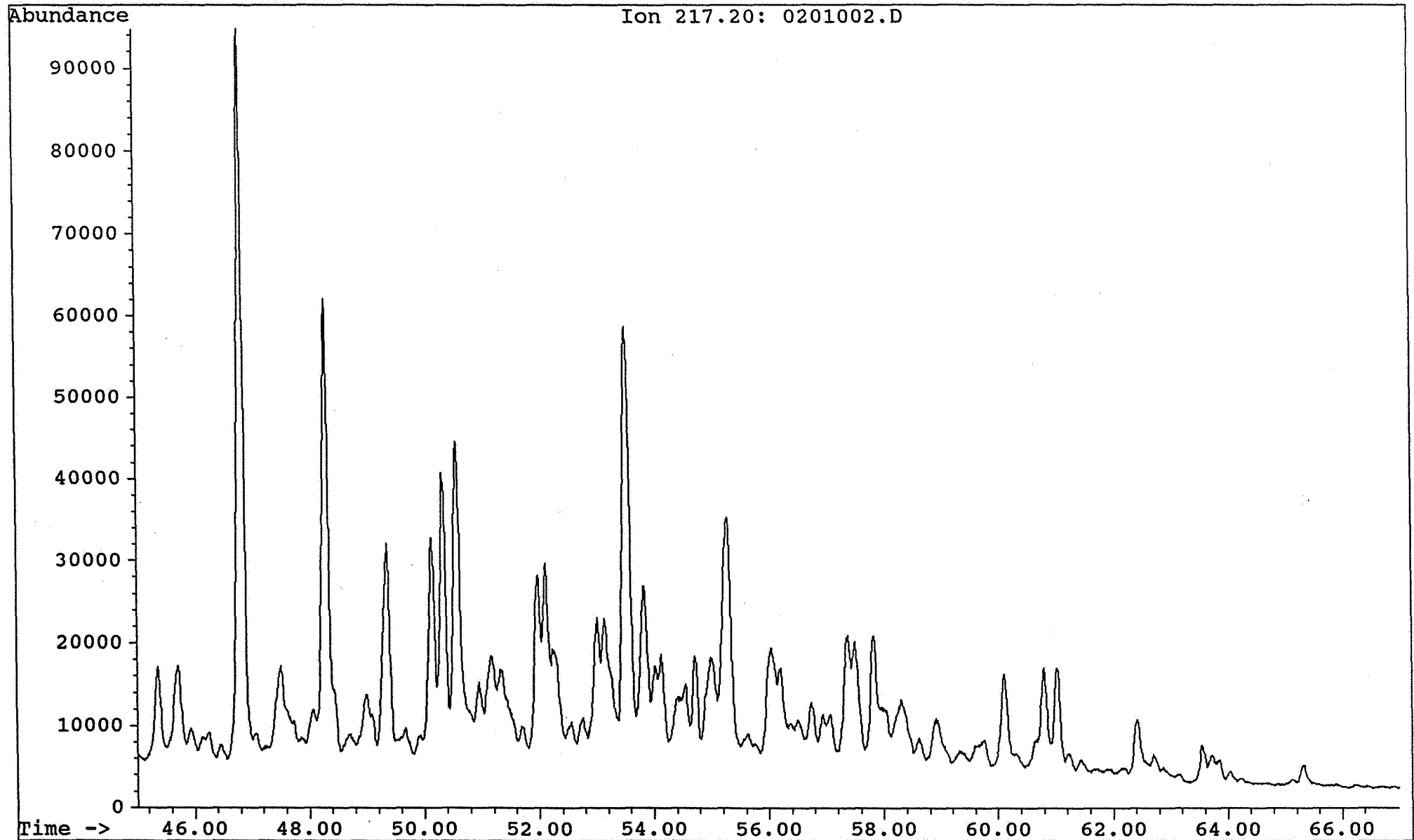
Saga Petroleum a.s.

Date acquired: 1 Oct 92 12:28 pm

File: C:\CHEMPC\DATA\KVAD7_15\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 7/8-3 3755,55 sat



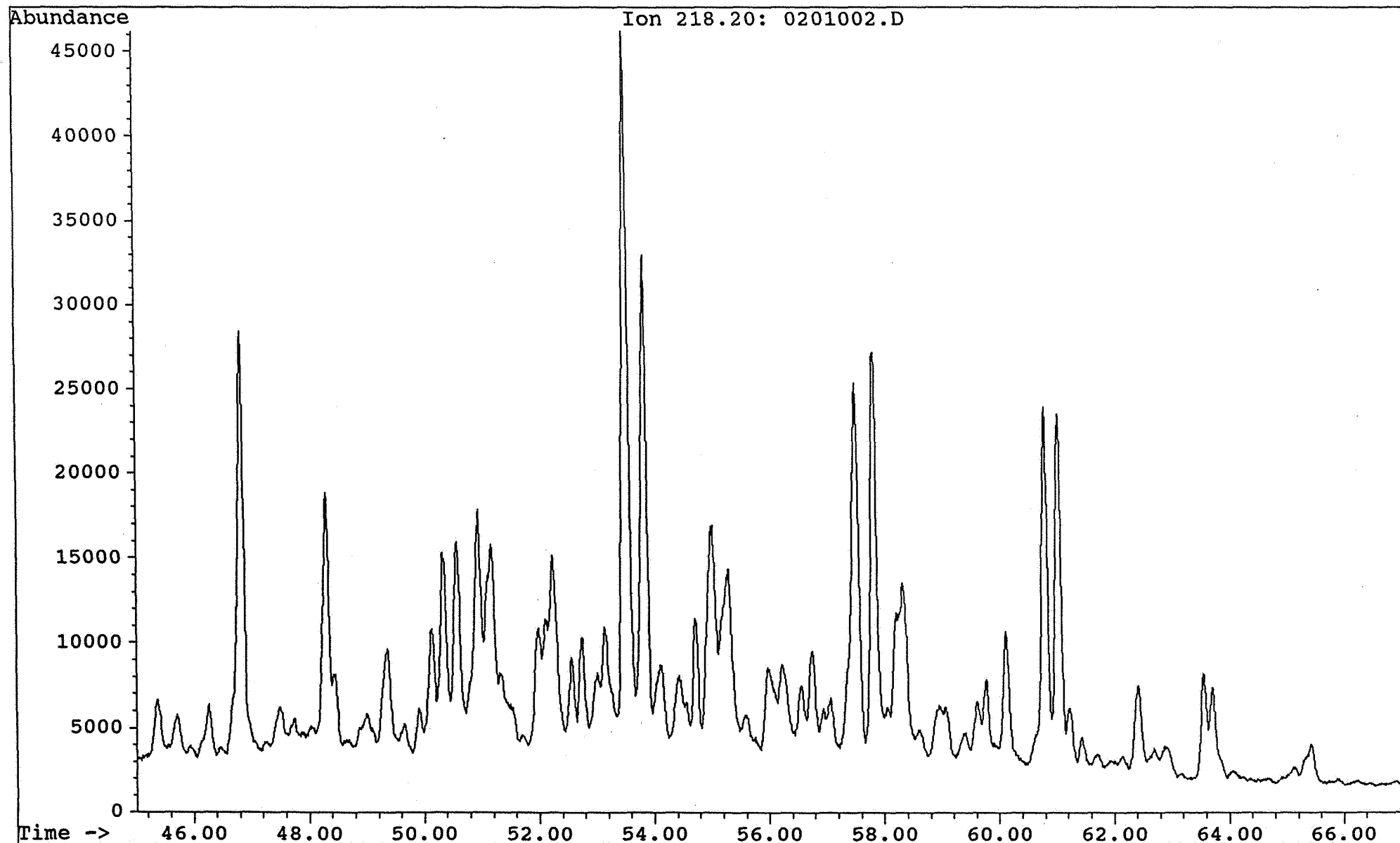
Saga Petroleum a.s.

Date acquired: 1 Oct 92 12:28 pm

File: C:\CHEMPC\DATA\KVAD7_15\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

Sample name:

WELL 7/8-3 3755,55 sat



Saga Petroleum a.s.

Date acquired: 1 Oct 92 12:28 pm

File: C:\CHEMPC\DATA\KVAD7_15\0201002.D Inst: HP5971A Inj: Split Meth: BMS.M

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