

Gas chromatograms from the following 7 North Slope wells:

Amoco Production Co. Aufeis Unit No. 1, between 7690' and 7954' of cuttings;
Colorado Oil and Gas Shaviovik Unit No. 1, between 1754' and 1977' of core;
Atlantic Richfield Co. Toolik Fed. No. 1, between 8360' and 8390' of core;
Exxon Corp. Canning Riv. Unit Blk A No. 1, between 3923' and 3958' of core;
Mobil Oil Corp West Kuparuk State 3-11-11, between 8637' and 8655' of core;
Husky Oil NPR Operations Inc. Drew Pt. No. 1, between 4130' and 7102' of core; and
Shell Oil Co. OCS Y-0195-1 (Tern Island No. 1), between 11789' and 11960' of core.

Received 4 September 1990

Total of 19 pages in report

Alaska Geologic Materials Center Data Report No. 163

2821 ppm

Unocal Geochemistry Group

Analysis Name : [METHDEV] 3 1D00785-SATAR,1,1.

1D00785-SATAR,AMOCO AUFELS UNIT#1,7690 Amount : 10.300

60M DB-1,0.25mm,0.25u, 35/1,4/350/.25

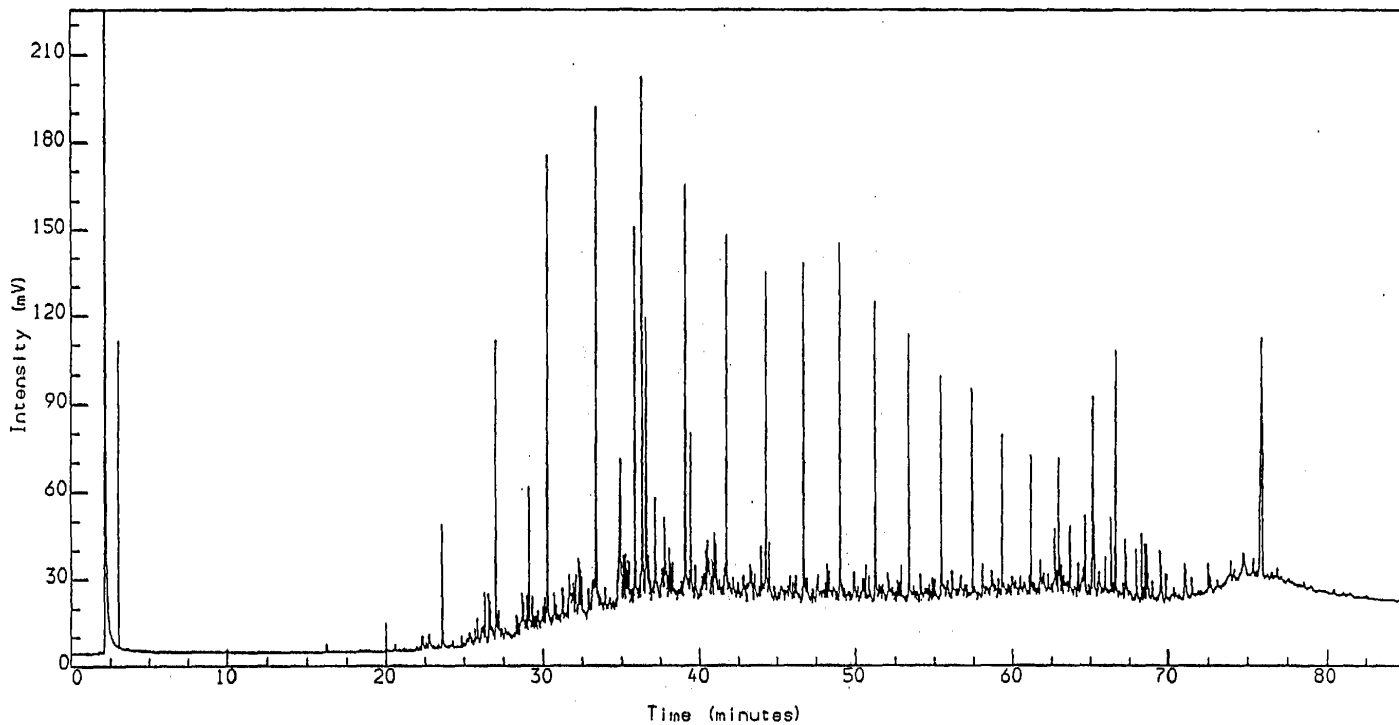
1D00785

NORTH-SLOPE

AUFELS UNIT 1

7690 7710 F

Multichrom



Instrument : HP5890

Channel Title : Whole Oil/Ext (FID)

Lims ID :

Acquired on 10-AUG-1990 at 13:44

Reported on 14-AUG-1990 at 12:59

Method : oil1

Calibration : oil1

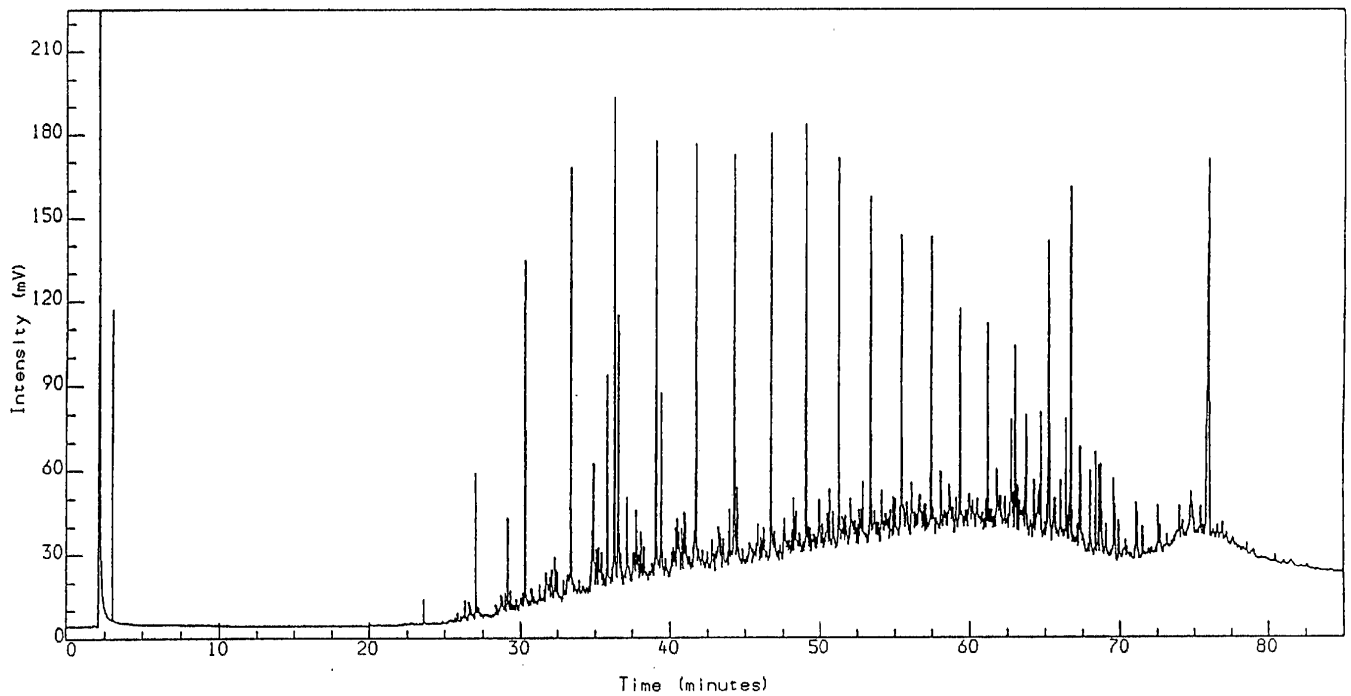
Run Sequence : OIL15

17473 ppm
Unocal Geochemistry Group

1D00786
NORTH-SLOPE
AUFELS UNIT 1
7770 7850 F

Analysis Name : [METHDEV] 3 1D00786-SATAR,1,1.
1D00786-SATAR,AMOCO AUFELS UNIT#1,7770ft Amount : 10.300
60M DB-1,0.25mm,0.25µ, 35/1,4/350/.25

Multichrom



Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 10-AUG-1990 at 15:42
Reported on 14-AUG-1990 at 13:00
Method : oil
Calibration : oil
Run Sequence : OIL16

9978 ppm

Unocal Geochemistry Group

1000787

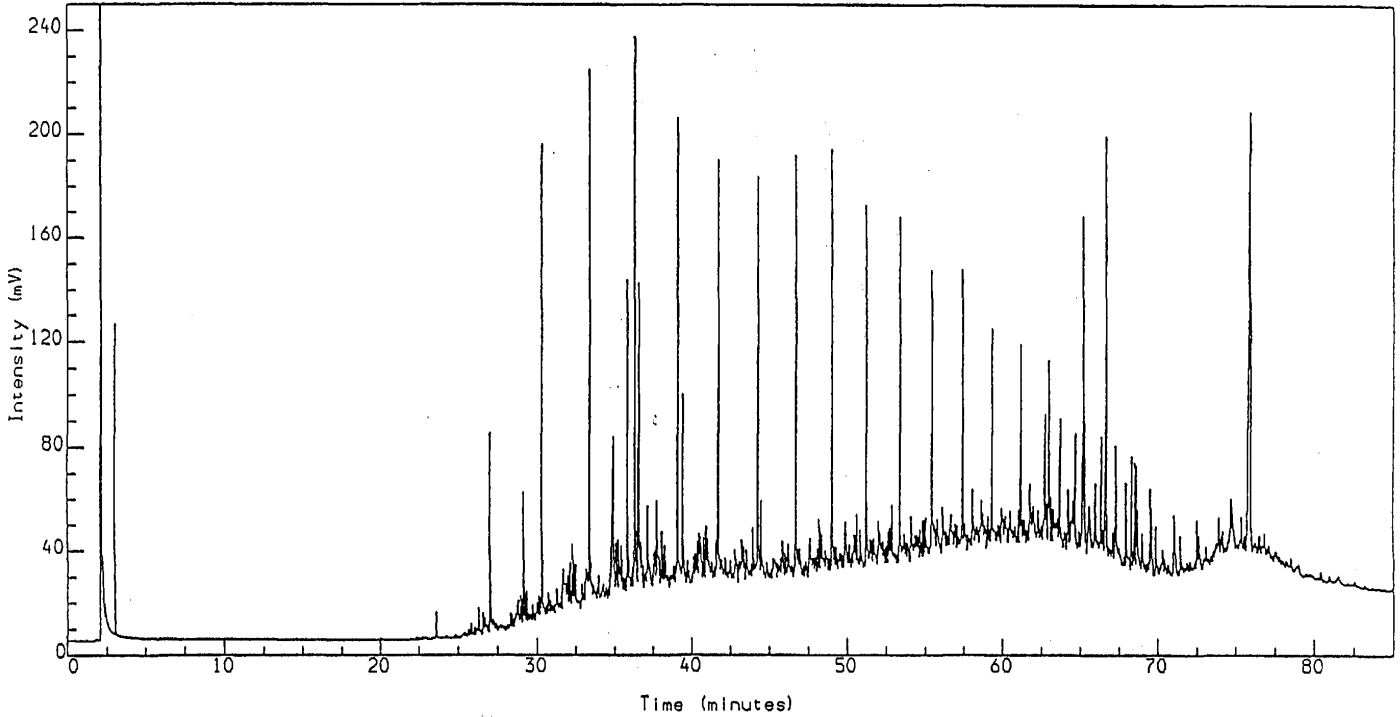
NORTH-SLOPE

AUFEIS UNIT 1

7850 7954 F

Analysis Name : [METHDEV] 3 1000787-SATAR,1,1.
1000787-SATAR, AMOCO AUFEIS UNIT#1,7850 Amount : 10.300
60M DB-1,0.25mm,0.25u, 35/1,4/350/.25

Multichrom



Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 14-AUG-1990 at 09:08
Reported on 15-AUG-1990 at 10:44

Method : oil
Calibration : oil
Run Sequence : OIL2

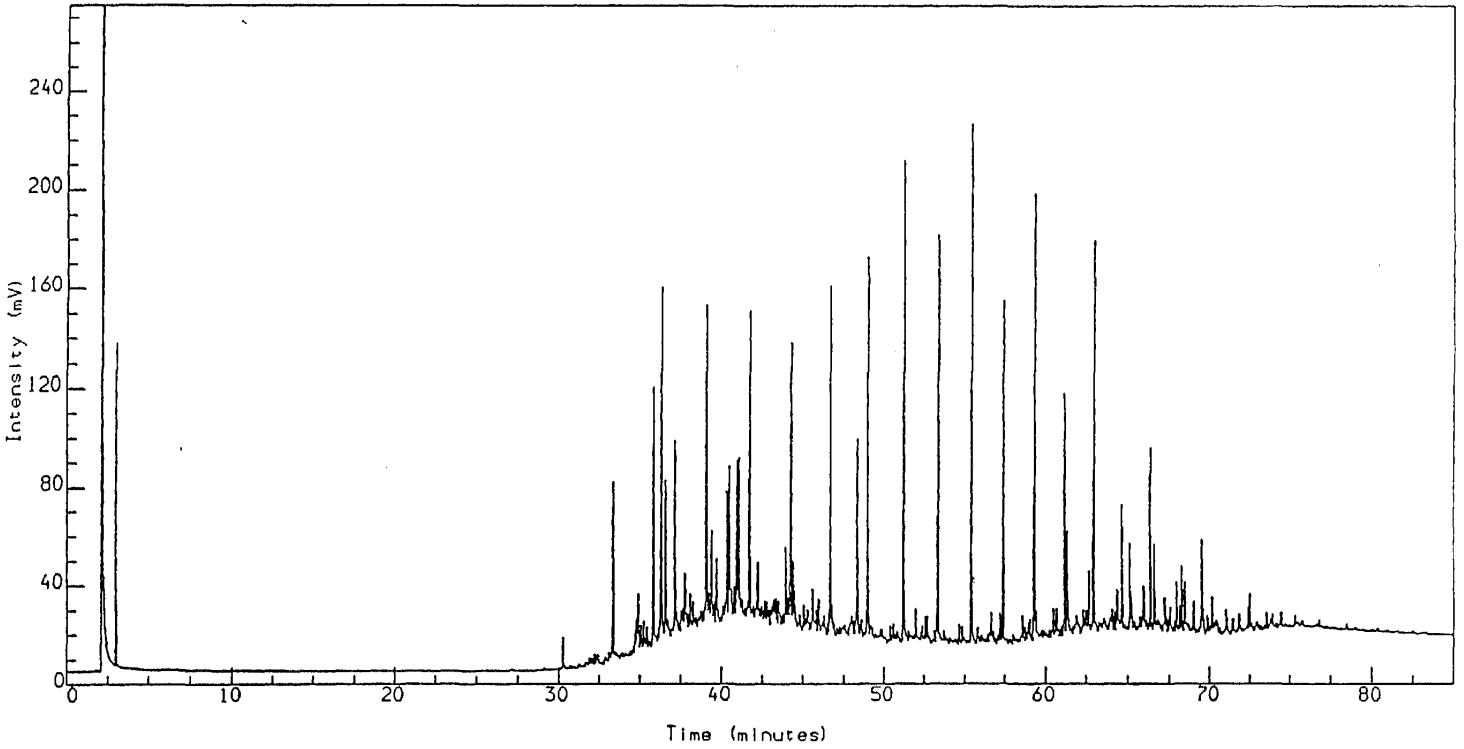
607 ppm

Unocal Geochemistry Group

Analysis Name : [METHDEV] 3 1000794-SATAR.1.1.
1000794-SATAR.CO SHAVIOVIK UNIT1,1754-61 Amount : 10.300
60M DB-1,0.25mm,0.25u, 35/1,4/350/.25

1000794 -
NORTH-SLOPE
SHAVIOVIK UNIT 1
1754 1761 F

Multichrom



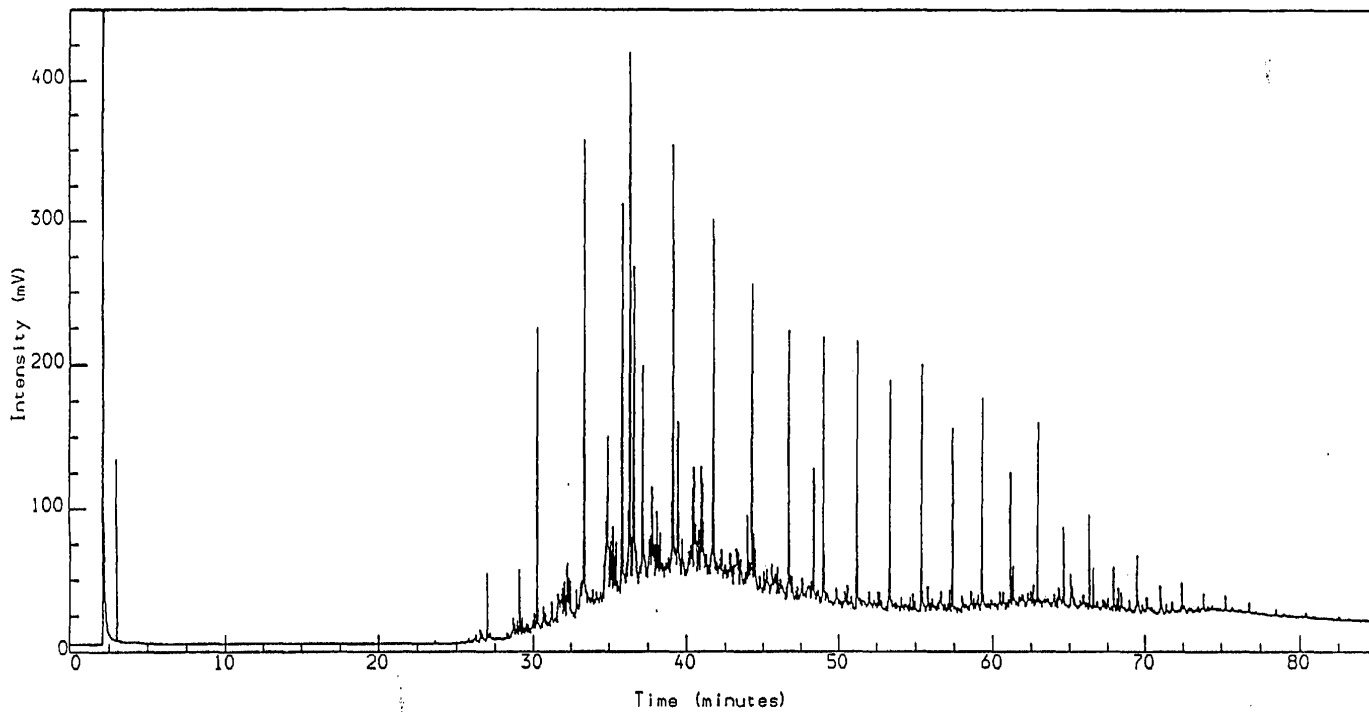
Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 14-AUG-1990 at 22:09
Reported on 15-AUG-1990 at 09:19

Method : oil
Calibration : oil
Run Sequence : OIL9

1162 ppm
Unocal Geochemistry Group

1000795
NORTH-SLOPE
SHAYIOVIK UNIT 1
1968 1977 F
Multichrom

Analysis Name : (METHDEV) 3 1000795-SATAR.1.1.
1000795-SATAR,CD SHAYIOVIK UNIT1,1968-77 Amount : 10.300
60M DB-1,0.25mm,0.25µi 35/1,4/350/.25



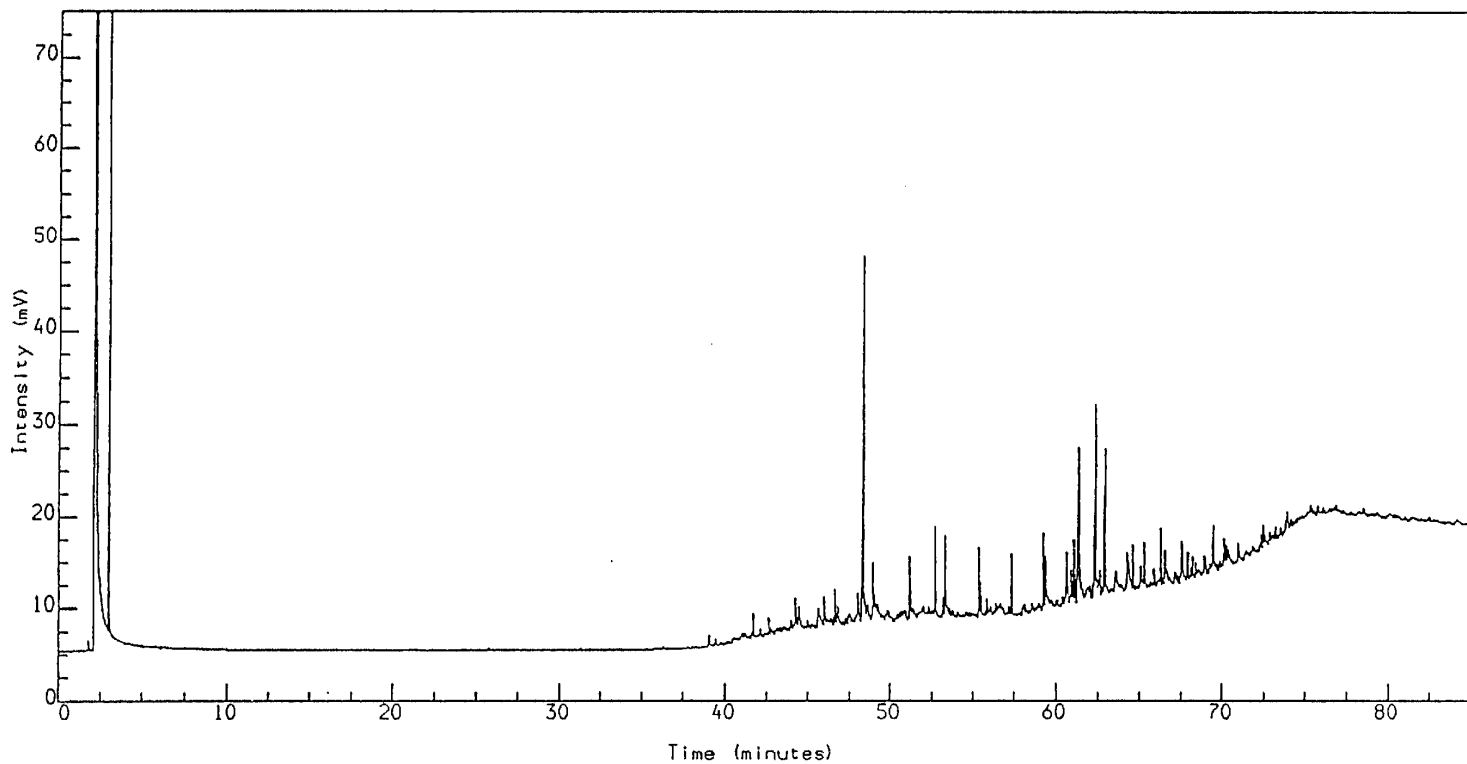
Instrument : HP5890 Method : oil1
Channel Title : Whole Oil/Ext (FID) Calibration : oil1
Lims ID : Run Sequence : OIL10
Acquired on 14-AUG-1990 at 23:55
Reported on 15-AUG-1990 at 10:21

814 ppm
Unocal Geochemistry Group

1000796 -
NORTH-SLOPE
TOOLIK FEDERAL 1
8360 . 8375 F

Analysis Name : [METHDEV] 3 1000796-SATAR,1,1.
1000796-SATAR,ARCO TOOLIK FED#1,8360-75. Amount : 10.300
60M DB-1,0.25mm,0.25µ: 35/1,4/350/.25

Multichrom



Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 15-AUG-1990 at 01:41
Reported on 15-AUG-1990 at 09:14

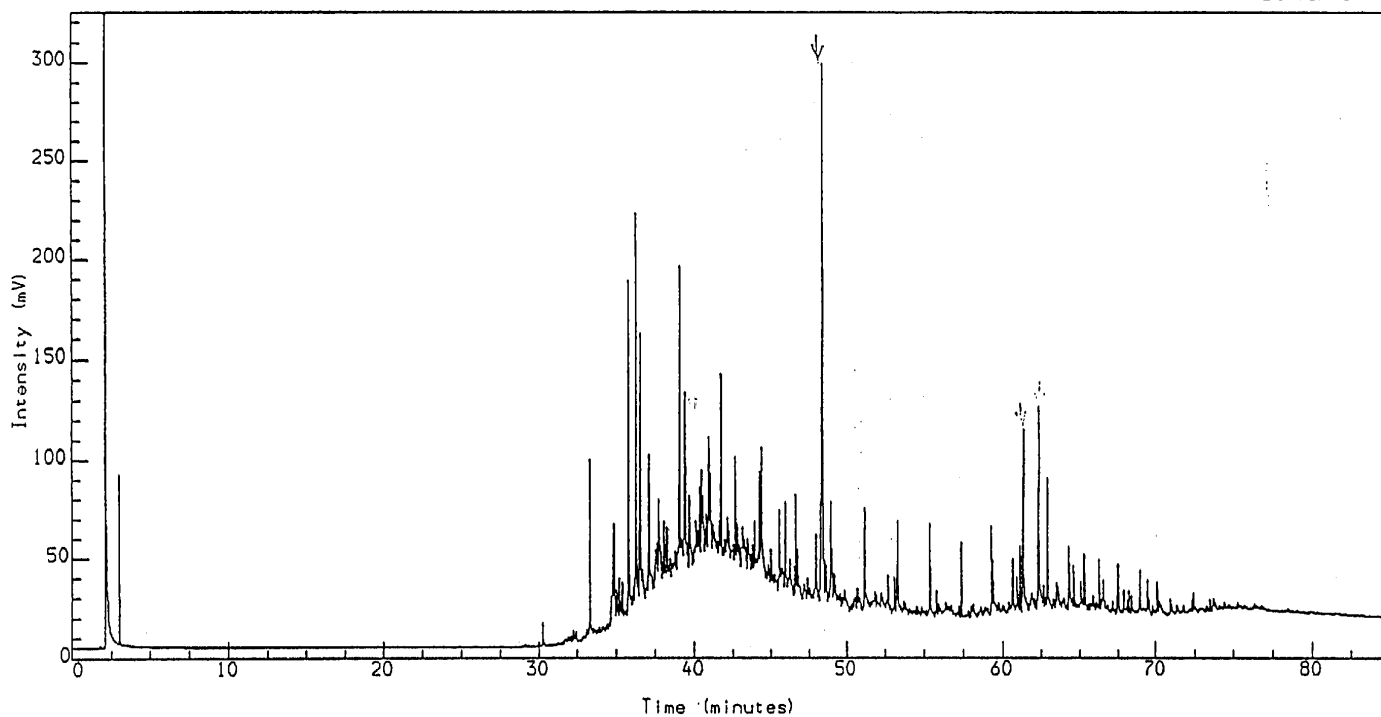
Method : oil
Calibration : oil
Run Sequence : OIL11

829 ppm
Unocal Geochemistry Group

1D00797
NORTH-SLOPE
TOOLIK FEDERAL 1
8375 8390

Analysis Name : [METHDEV] 3 1D00797-SATAR,1,1.
1D00797-SATAR,ARCO TOOLIK FED#1,8375-90 Amount : 10.300
60M DB-1,0.25mm,0.25u, 35/1,4/350/.25

Multichrom



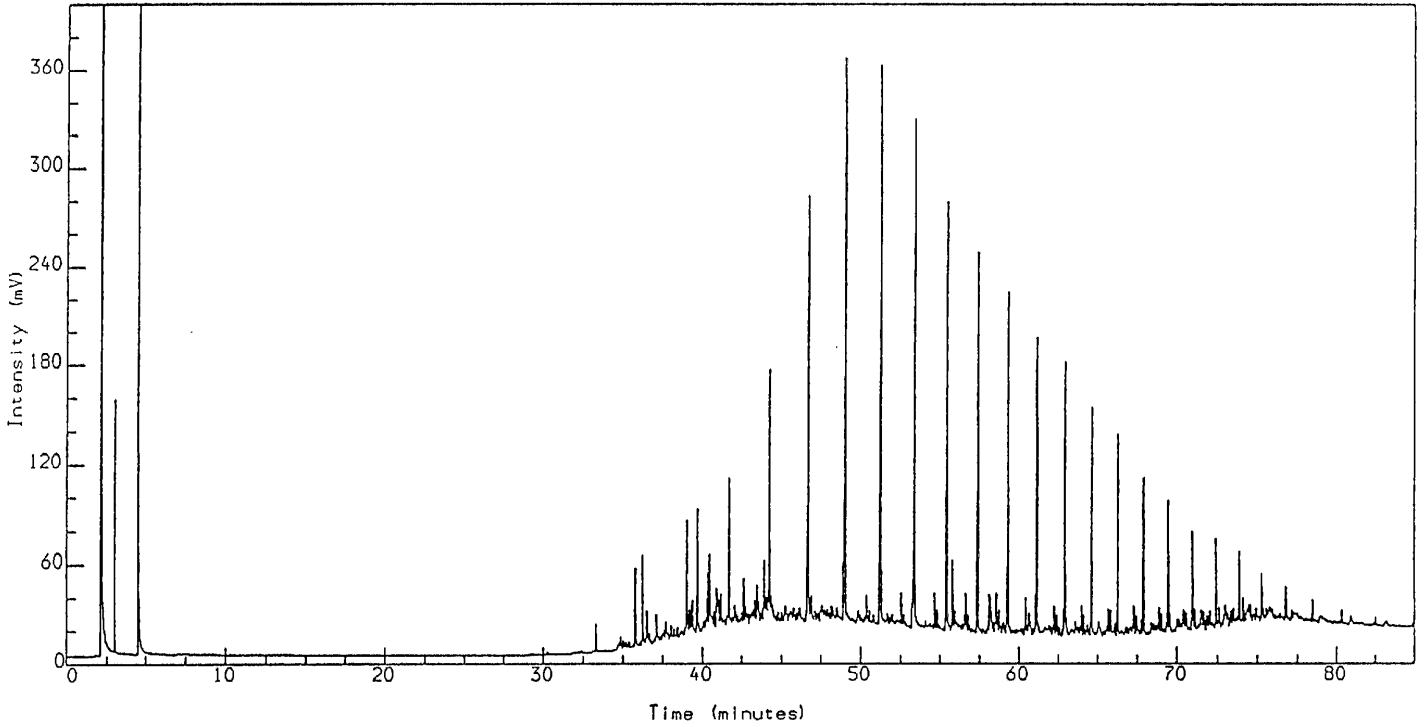
Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 15-AUG-1990 at 03:26
Reported on 15-AUG-1990 at 10:16

Method : oil
Calibration : oil
Run Sequence : OIL12

158 ppm
Unocal Geochemistry Group

1000803
NORTH-SLOPE
CANNING RIVER U-A1
3923 3940 F
Multichrom

Analysis Name : [METHDEV] 3 1000803-SATAR.1.1.
1000803-SATAR, EXXON CANN.R. UNIT#A1.3923 Amount : 10.300
60M DB-1, 0.25mm, 0.25µ: 35/1,4/350/.25



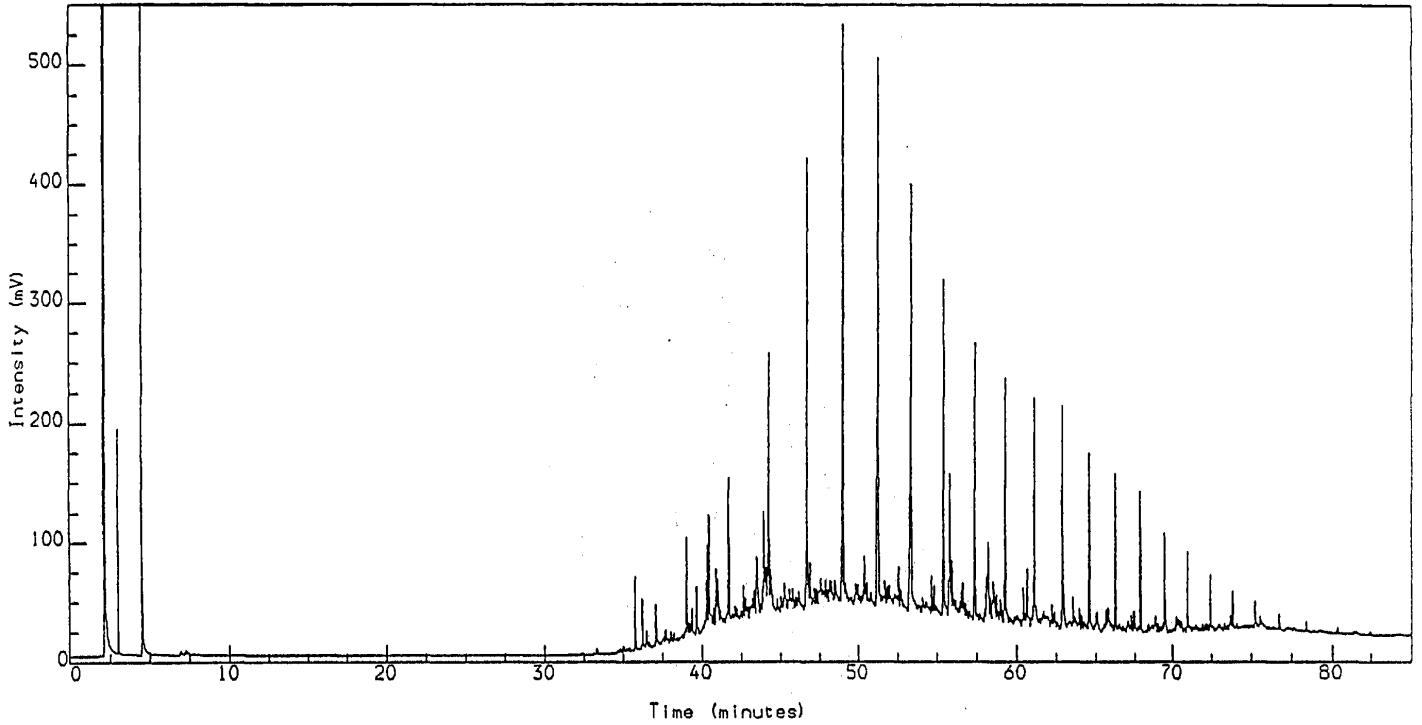
Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 15-AUG-1990 at 17:11
Reported on 20-AUG-1990 at 10:49

Method : oil1
Calibration : oil1
Run Sequence : OIL3

133 ppm
Unocal Geochemistry Group

1000804
NORTH-SLOPE
CANNING RIVER U• A1
3940 3958 F
Multichrom

Analysis Name : [METHDEV] 3 1000804-SATAR,1,1.
1000804-SATAR, EXXON CANN.R.UNIT#A1,3940' Amount: 10.300
60M DB-1,0.25mm,0.25u: 35/1,4/350/.25

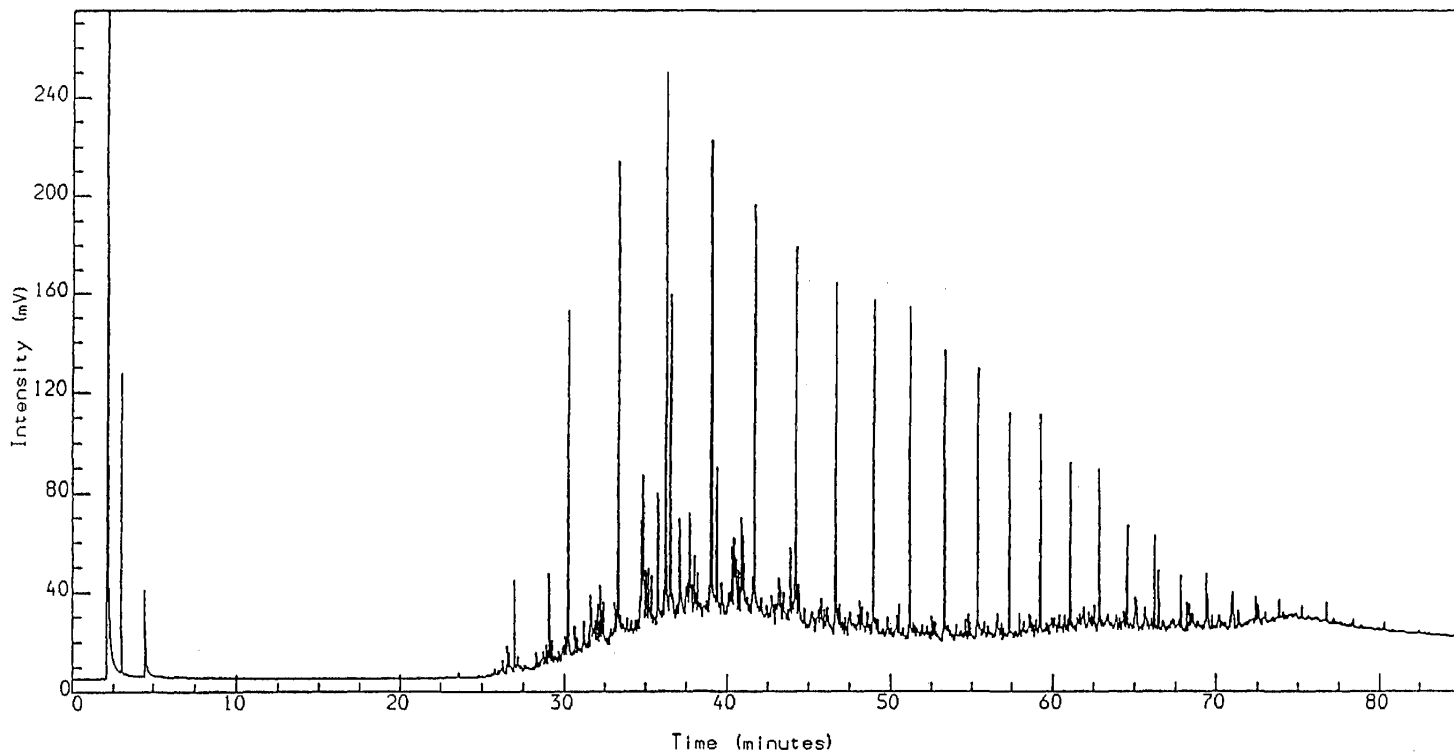


Instrument : HP5890 Method : oil
Channel Title : Whole Oil/Ext (FID) Calibration : oil
Lims ID : Run Sequence : OIL4
Acquired on 15-AUG-1990 at 18:59
Reported on 20-AUG-1990 at 12:07

2001 ppm
Unocal Geochemistry Group

1000805 -
NORTH-SLOPE
W. KUPARUK 1
8637 8646 F
Multichrom

Analysis Name : [METHDEV] 3 1000805-SATAR,1,1.
1000805-SATAR, MOBIL W.KUPARUK#1,8637-46 Amount : 10.300
60M DB-1,0.25mm,0.25u: 35/1,4/350/,25

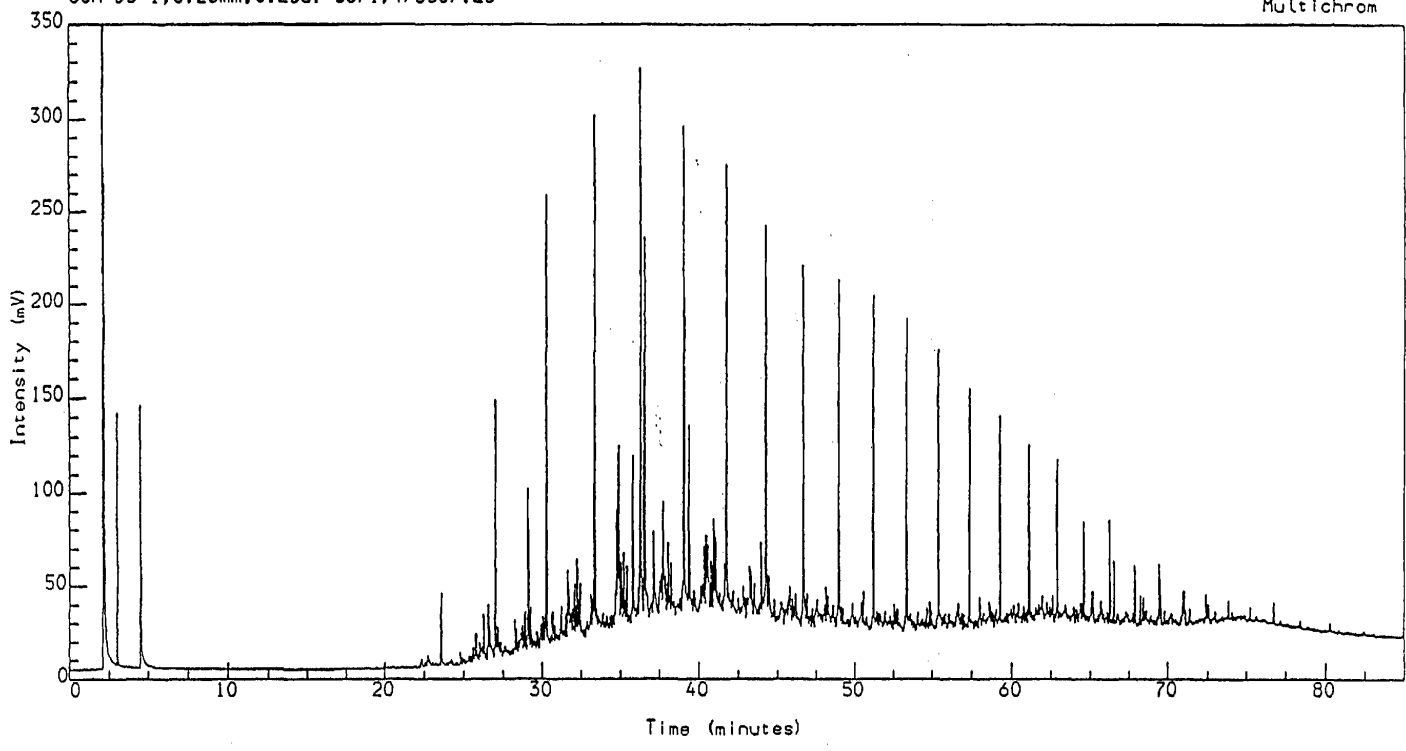


Instrument : HPS890 Method : oil
Channel Title : Whole Oil/Ext (FID) Calibration : oil
Lims ID : Run Sequence : OIL5
Acquired on 15-AUG-1990 at 20:46
Reported on 20-AUG-1990 at 13:19

2224 ppm
Unocal Geochemistry Group

1D00806
NORTH-SLOPE
W. KUPARUK 1
8646 8655 F
Multichrom

Analysis Name : [METHDEV] 3 1D00806-SATAR,1,1.
1D00806-SATAR,MOBIL W.KUPARUK#1,8646-55' Amount : 10.300
60M DB-1,0.25mm,0.25µ, 35/1,4/350/.25



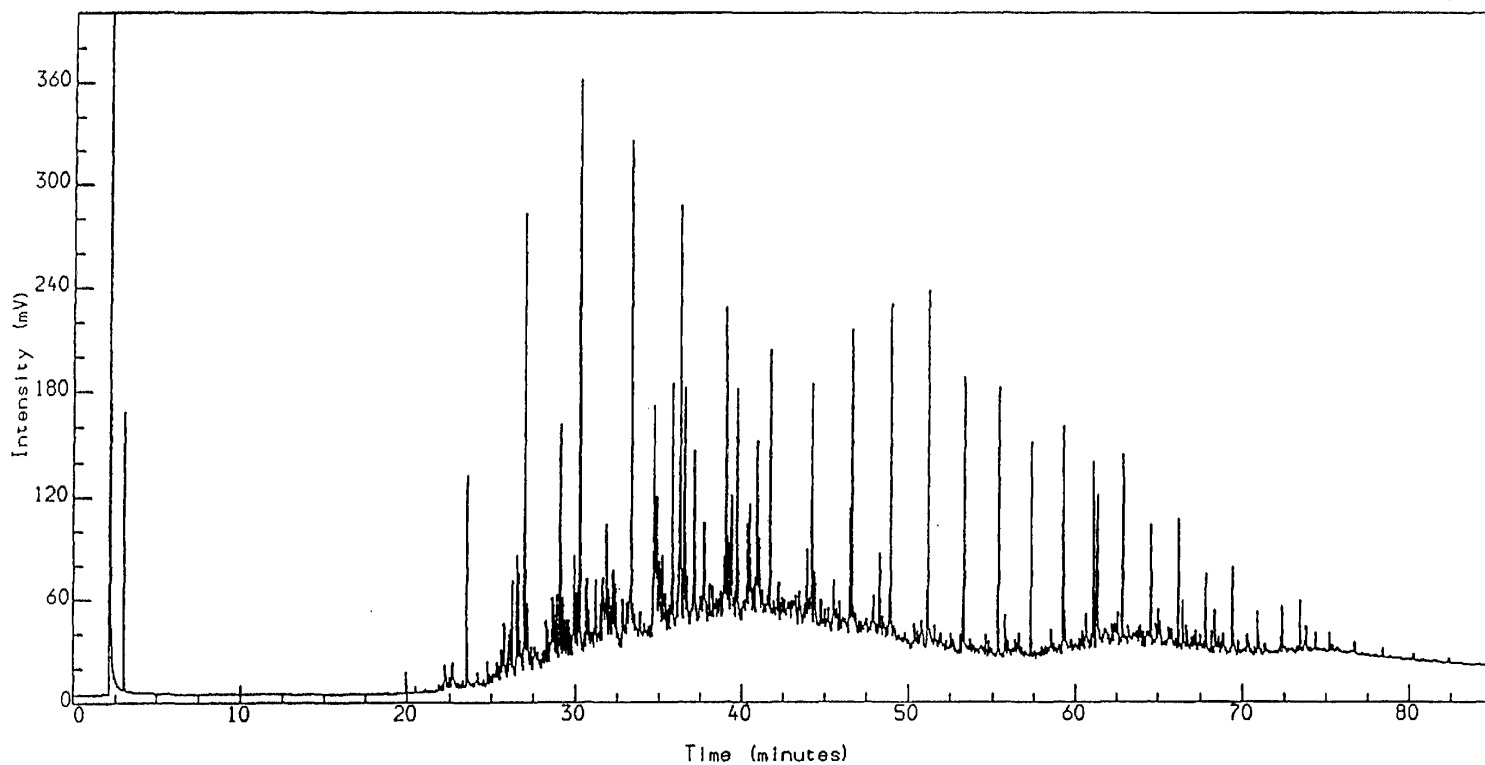
Instrument : HP5890 Method : oil
Channel Title : Whole Oil/Ext (FID) Calibration : oil
Lims ID : Run Sequence : OIL6
Acquired on 15-AUG-1990 at 22:31
Reported on 20-AUG-1990 at 12:14

385 ppm

Unocal Geochemistry Group

1D00830 -
NORTH-SLOPE
DREW POINT 1
4130 4134 F
Multichrom

Analysis Name : [METHDEV] 3 1D00830-SATAR,1,1.
1D00830-SATAR,HUSKY DREW PT=1,4130-4134 Amount : 10.300
60M DB-1,0.25mm,0.25µ 35/1,4/350/.25



Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 21-AUG-1990 at 02:27
Reported on 28-AUG-1990 at 17:00

Method : oil1
Calibration : oil1
Run Sequence : OIL15

906 ppm

Unocal Geochemistry Group

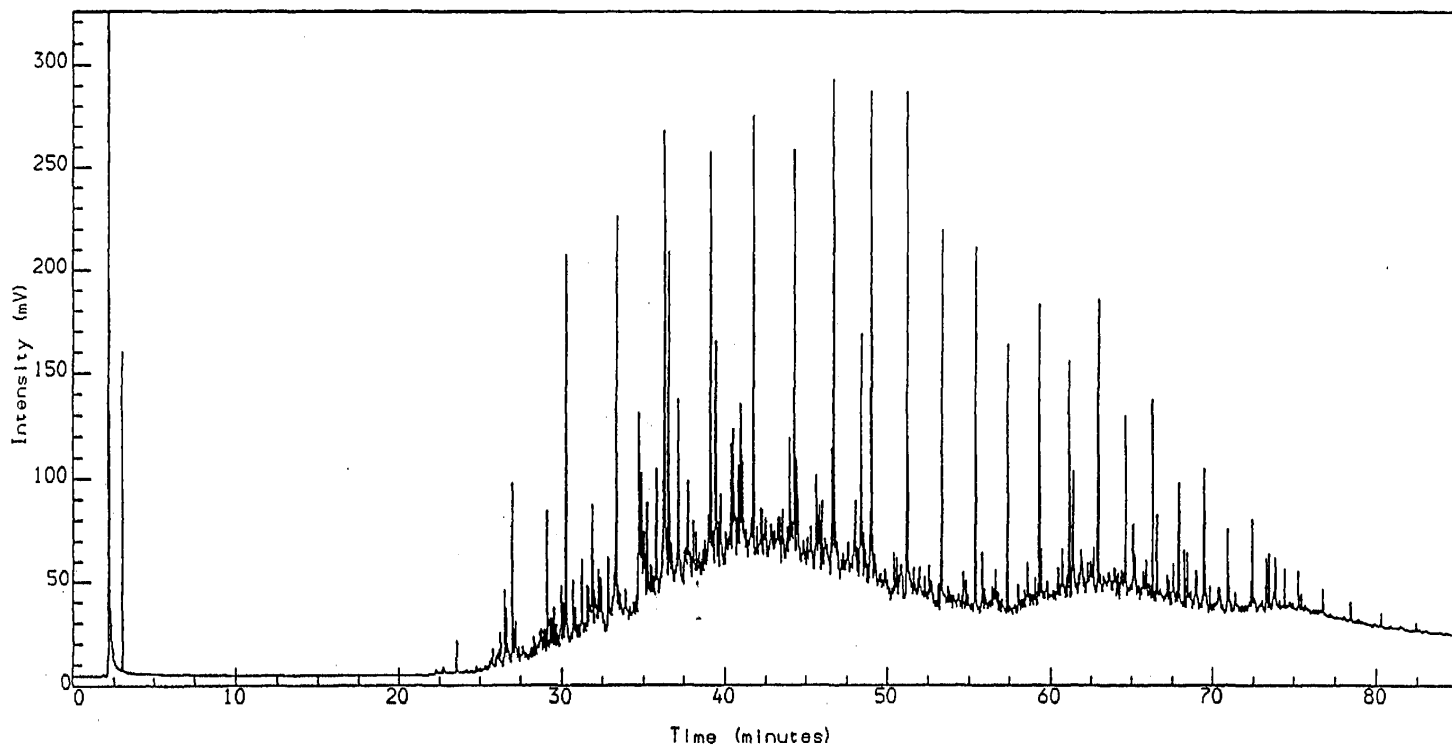
1000831

NORTH-SLOPE

DREW POINT 1

5530 . 5531 . F
Multichrom

Analysis Name : [METHDEV] 3 1000831-SATAR,1,1.
1000831-SATAR,HUSKY DREW PT#1,5530-5531* Amount: 10.300
60M DB-1,0.25mm,0.25µ, 35/1.4/350/.25



Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 21-AUG-1990 at 04:11
Reported on 28-AUG-1990 at 16:57

Method : oil1
Calibration : oil1
Run Sequence : OIL16

453 ppm

Unocal Geochemistry Group

1D00832

NORTH-SLOPE

DREW POINT 1

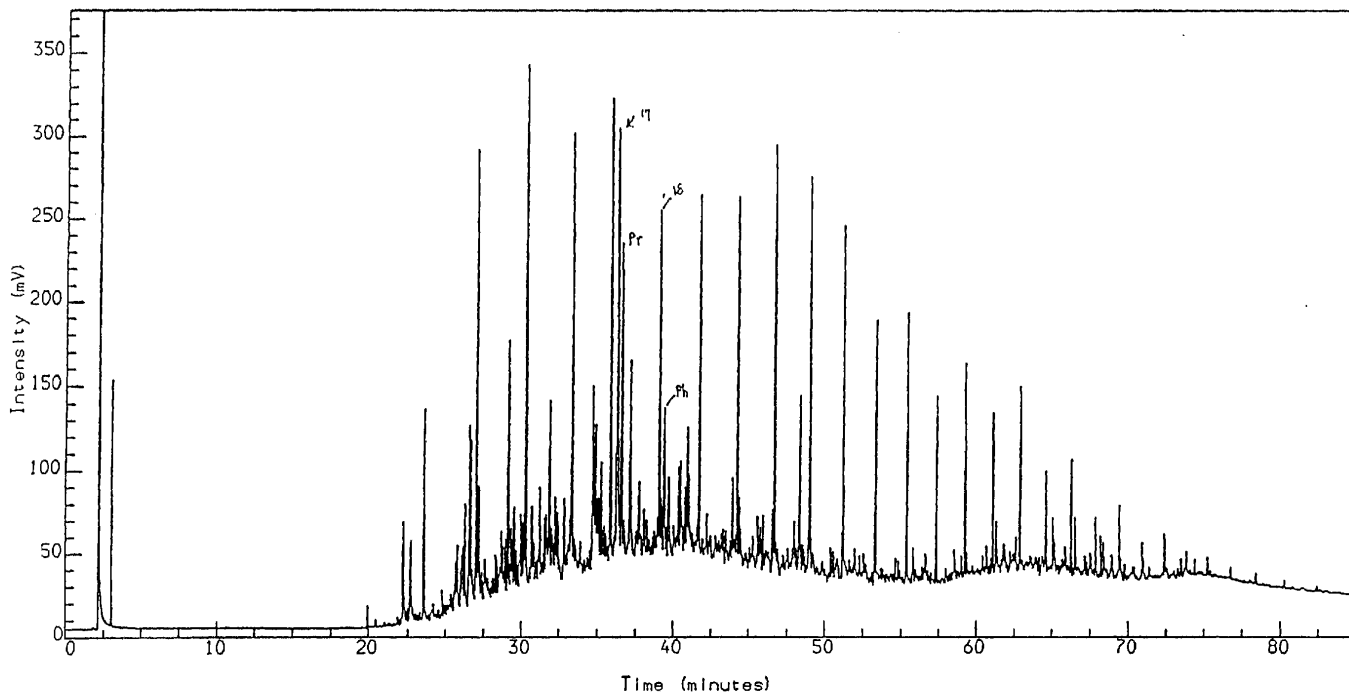
5910 5911 F

Multichrom

Analysis Name : (METHDEV) 3 1D00832-SATAR,1,1.

1D00832-SATAR,HUSKY DREW PT#1,5910-5911 Amount : 10.300

60M DB-1,0.25mm,0.25u, 35/1,4/350/.25



Instrument : HP5890

Method : oil1

Channel Title : Whole Oil/Ext (FID)

Calibration : oil1

Lims ID :

Run Sequence : OIL2

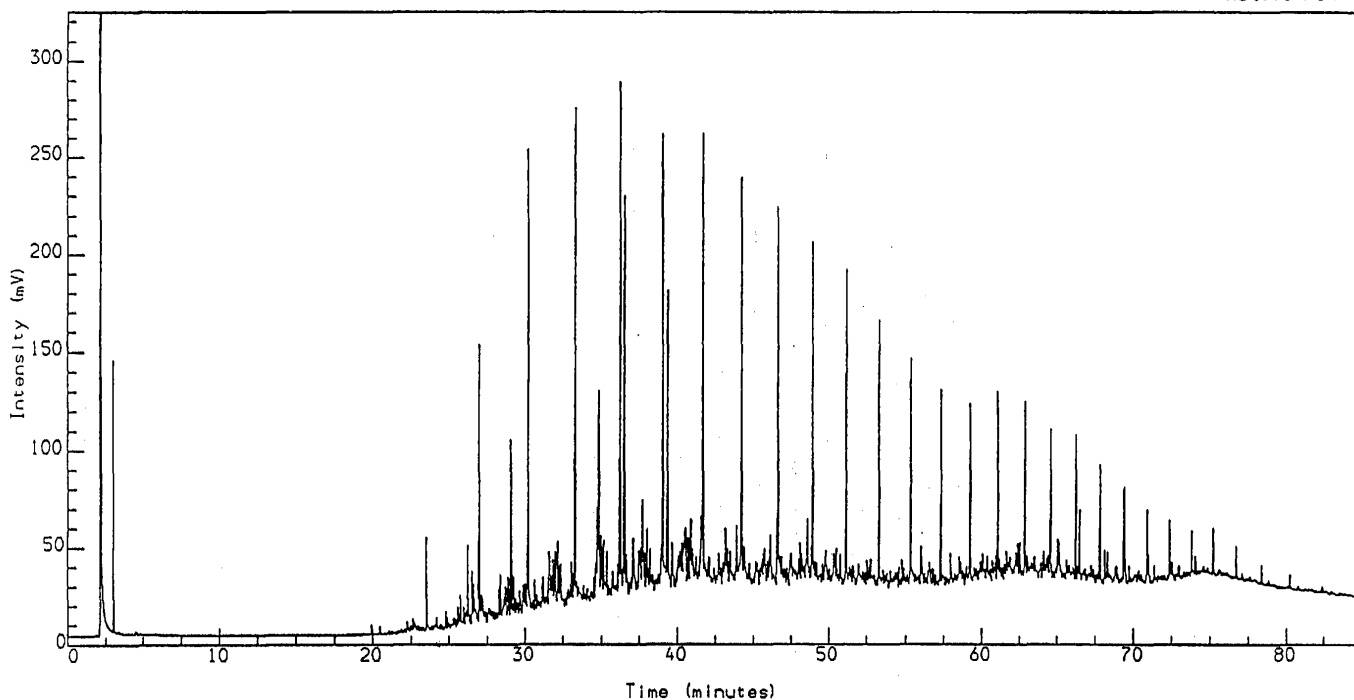
Acquired on 21-AUG-1990 at 15:10

Reported on 28-AUG-1990 at 15:26

1267 ppm
Unocal Geochemistry Group

1000833
NORTH-SLOPE
DREW POINT 1
7100 . 7102 . F
Multichrom

Analysis Name : [METHDEV] 3 1000833-SATAR,1,1.
1000833-SATAR,HUSKY DREW PT#1,7100-7102' Amount : 10.300
60M DB-1,0.25mm,0.25u, 35/1,4/350/.25



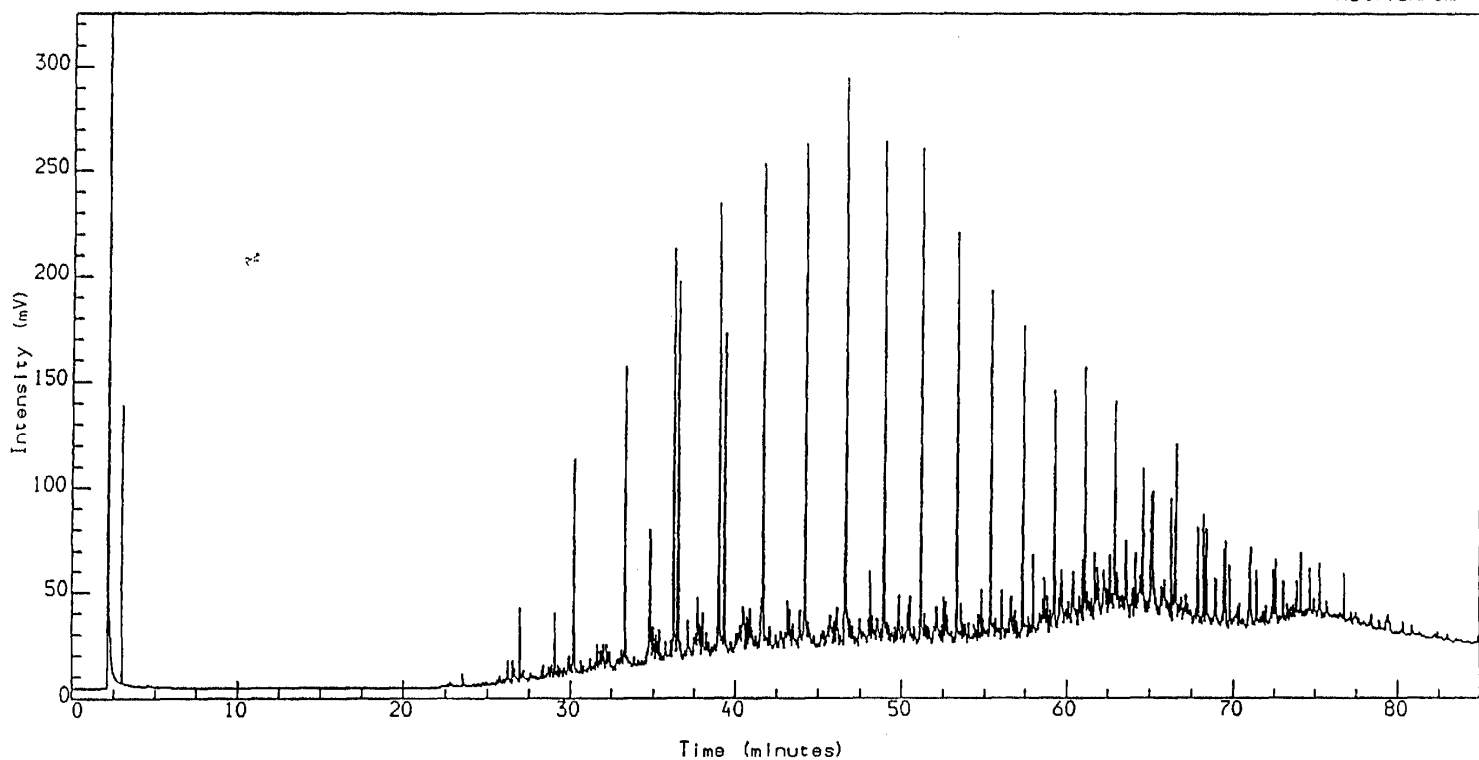
Instrument : HP5890 Method : oil1
Channel Title : Whole Oil/Ext (FID) Calibration : oil1
Lims ID : Run Sequence : OIL3
Acquired on 21-AUG-1990 at 17:03
Reported on 28-AUG-1990 at 14:31

4471 ppm

Unocal Geochemistry Group

1000834
NORTH-SLOPE
OCS-Y-0195 1
11789 11810 F
Multichrom

Analysis Name : (METHDEV) 3 1000834-SATAR,1,1.
1000834-SATAR,SHELL OCS-Y-0195#1,11789- Amount : 10.300
60M DB-1,0.25mm,0.25u: 35/1,4/350/.25



Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 21-AUG-1990 at 18:54
Reported on 28-AUG-1990 at 14:32

Method : oil1
Calibration : oil1
Run Sequence : OIL4

1146 ppm

Unocal Geochemistry Group

1D00835

NORTH-SLOPE

Analysis Name : [METHDEV] 3 1D00835-SATAR,1.1.

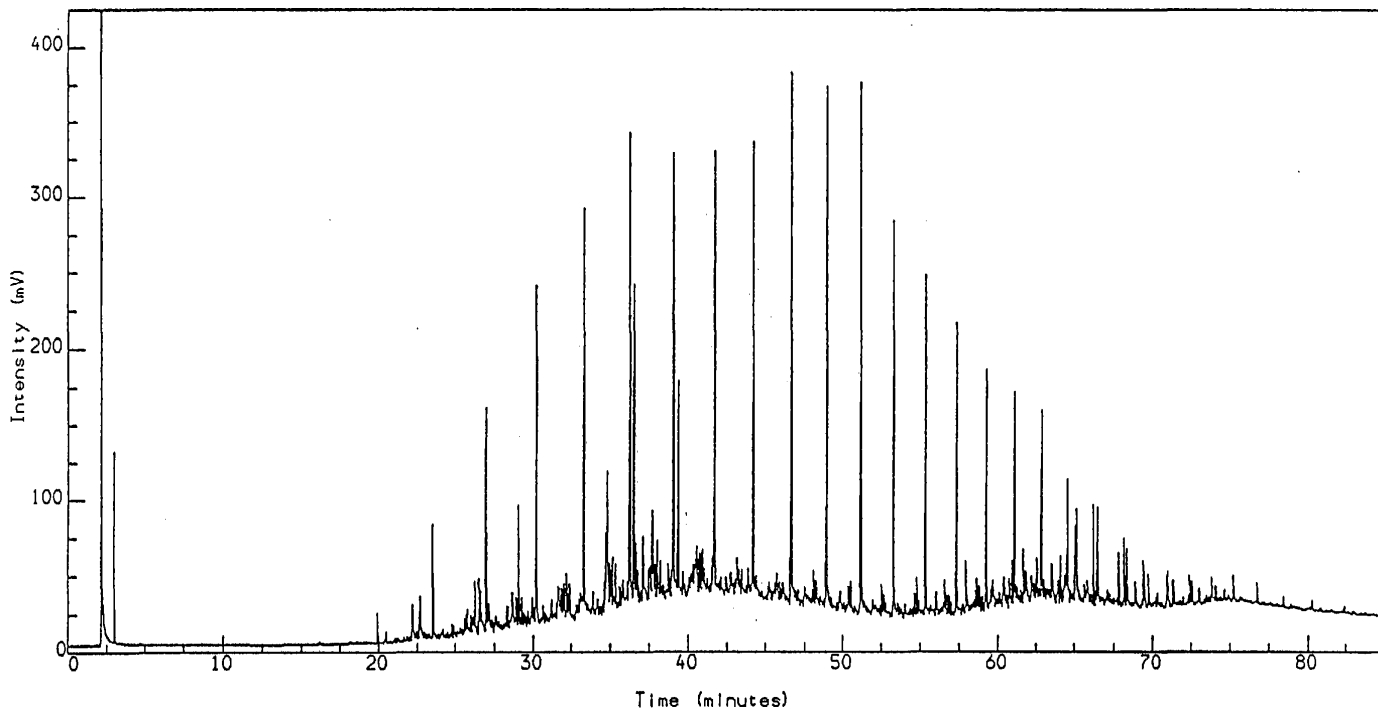
OCS-Y-0195 1

1D00835-SATAR, SHELL OCS-Y-0195#1,11810- Amount : 10.300

11810 11831 F

60M DB-1.0.25mm,0.25u: 35/1,4/350/.25

Multichrom



Instrument : HP5890

Method : oil1

Channel Title : Whole OIL/Ext (FID)

Calibration : oil1

Lims ID :

Run Sequence : OIL5

Acquired on 21-AUG-1990 at 20:44

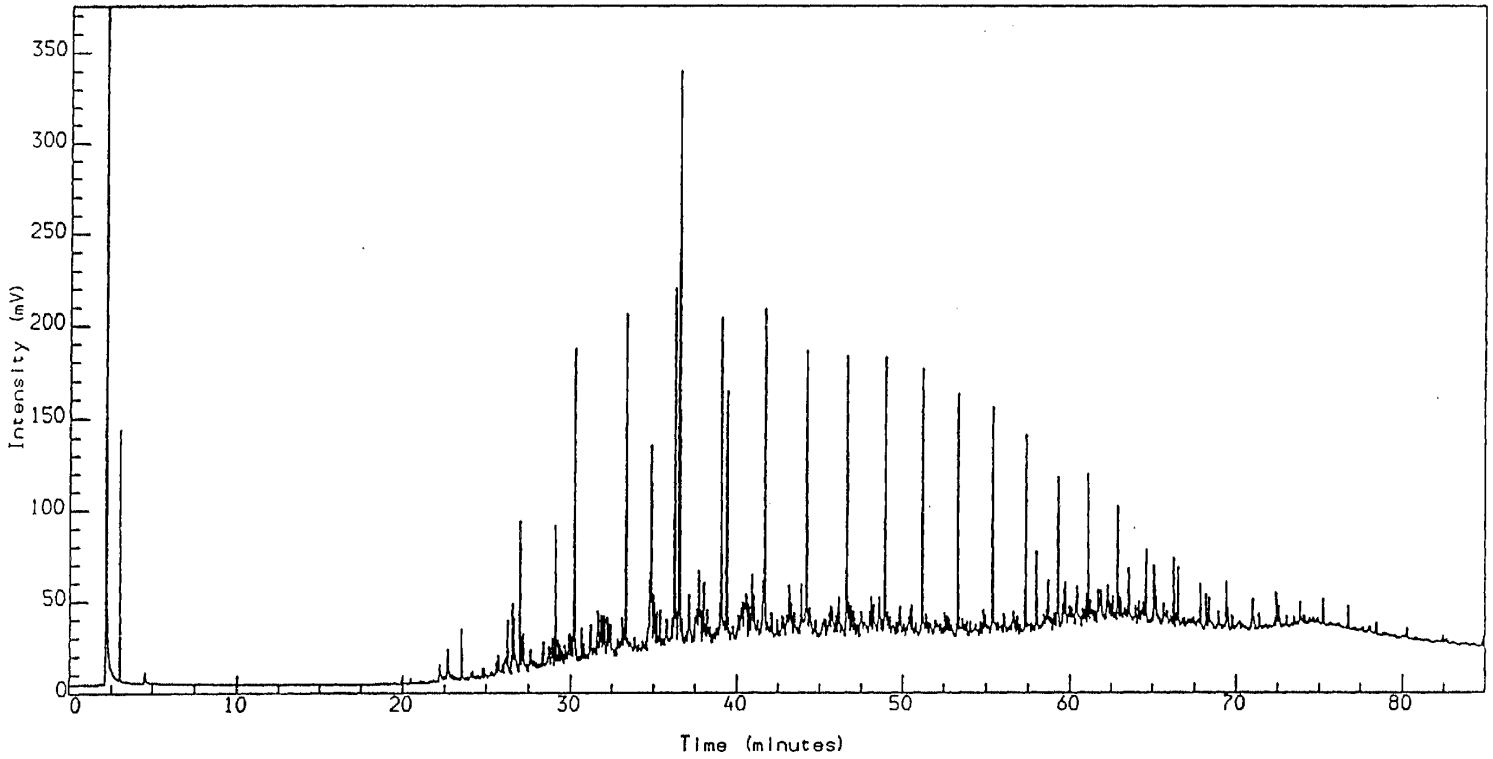
Reported on 28-AUG-1990 at 15:39

4666 ppm

Unocal Geochemistry Group

1D00836 -
NORTH-SLOPE
OCS-Y-0195 1
11922 11940 F
Multichrom

Analysis Name : [METHDEV] 3 1D00836-SATAR,1,1.
1D00836-SATAR,SHELL OCS-Y-0195*1,11922- Amount : 10.300
60M DB-1,0.25mm,0.25u, 35/1,4/350/.25

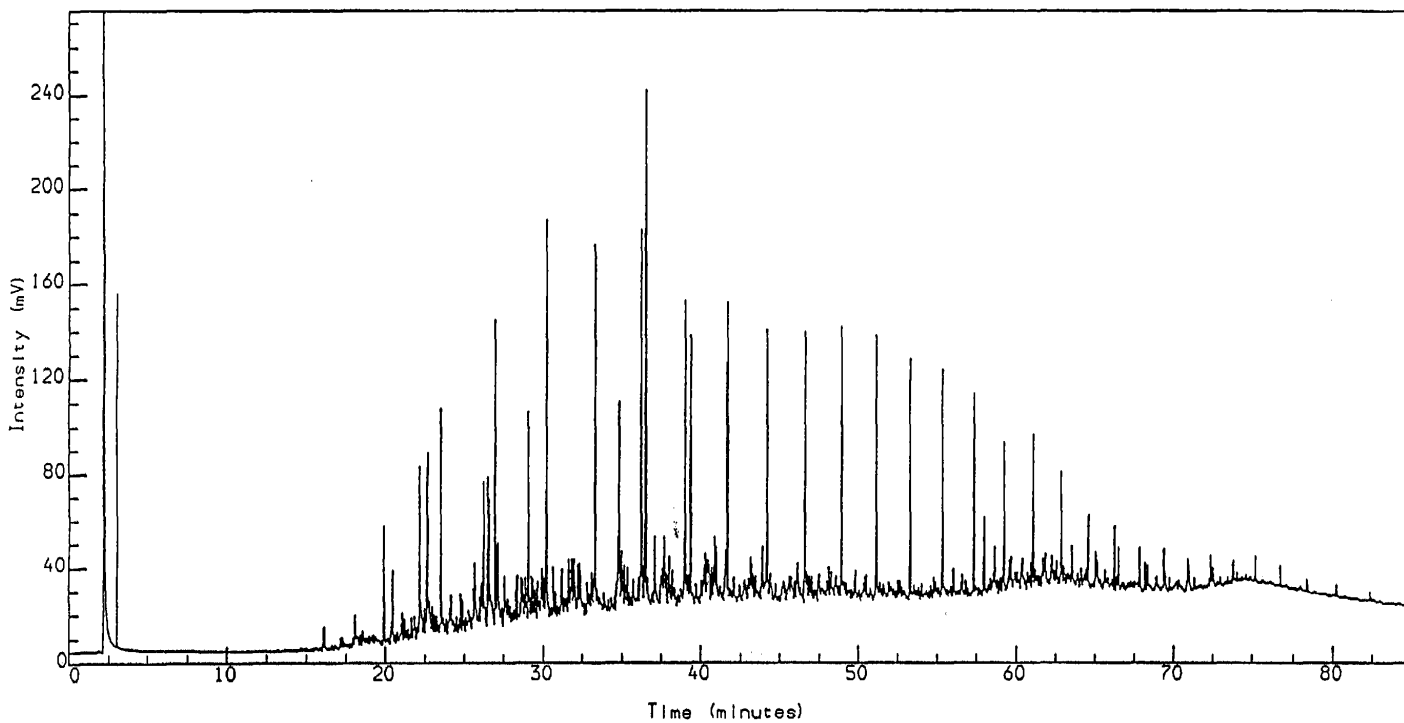


Instrument : HP5890
Channel Title : Whole Oil/Ext (FID)
Lims ID :
Acquired on 21-AUG-1990 at 22:31
Reported on 28-AUG-1990 at 15:27
Method : oil1
Calibration : oil1
Run Sequence : OIL6

5120 ppm
Unocal Geochemistry Group

1D00837
NORTH-SLOPE
OCS-Y-0195 1
11940 11960 F
Multichrom

Analysis Name : [METHDEV] 3 1D00837-SATAR,1,1.
1D00837-SATAR,SHELL OCS-Y-0195*1,11940- Amount : 10.300
60M DB-1,0.25mm,0.25u, 35/1,4/350/.25



Instrument : HP5890 Method : oil1
Channel Title : Whole Oil/Ext (FID) Calibration : oil1
Lims ID : Run Sequence : OIL7
Acquired on 22-AUG-1990 at 00.16
Reported on 28-AUG-1990 at 15.53