Vitrinite reflectance data of cuttings (2440′ - 8680′) and of core (7895′ - 7905′, and 7935′ - 7943.5′) from the Amoco Production Company Becharof No. 1 well.

Received 27 September 1990 Total of 18 pages in report

Alaska Geologic Materials Center Data Report No. 166

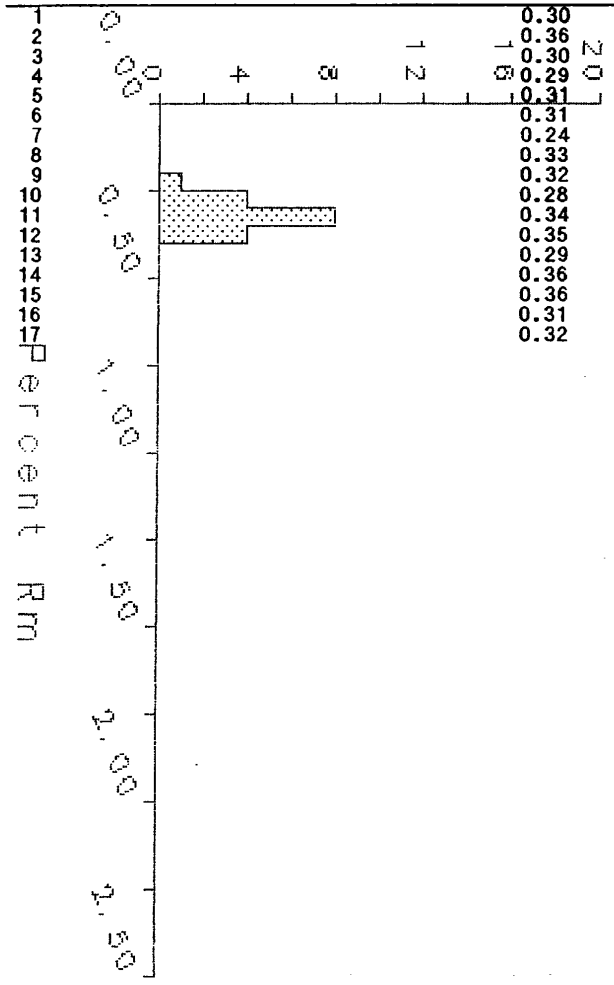
File Name: 90016001
Channel Name: Point 9
Description: 90016001 #1 Amoco Becharof 2,440- 710 Alaska ker VIGD

Frequency

90016001 #1 Amoco Becharof
0.32 SD: 0.03

Min: 0.24
Max: 0.36
Mean: 0.32
StDev: 0.03

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.30 | | | |
| 2 | | | | 0.36 | | | |
| 3 | | | | 0.30 | | | |
| 4 | | | | 0.29 | | | |
| 5 | | | | 0.31 | | | |
| 6 | | | | 0.31 | | | |
| 7 | | | | 0.24 | | | |
| 8 | | | | 0.33 | | | |
| 9 | | | | 0.32 | | | |
| 10 | | | | 0.28 | | | |
| 11 | | | | 0.34 | | | |
| 12 | | | | 0.35 | | | |
| 13 | | | | 0.29 | | | |
| 14 | | | | 0.36 | | | |
| 15 | | | | 0.36 | | | |
| 16 | | | | 0.31 | | | |
| 17 | | | | 0.32 | | | |

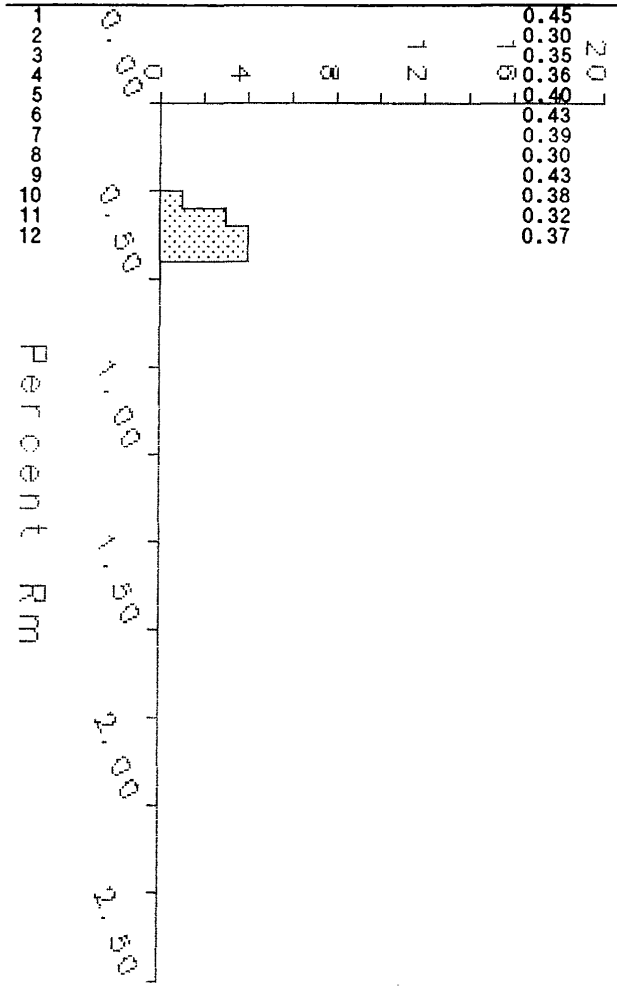


File Name: 90016002
Channel Name: Point 9
Description: 90016002 #1 Amoco Becharof 2,980- 3,250 Alaska ker VI90

Frequency

Min: 0.30
Max: 0.45
Mean: 0.37
StDev: 0.05

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.45 | | | |
| 2 | | | | 0.30 | | | |
| 3 | | | | 0.35 | | | |
| 4 | | | | 0.36 | | | |
| 5 | | | | 0.40 | | | |
| 6 | | | | 0.43 | | | |
| 7 | | | | 0.39 | | | |
| 8 | | | | 0.30 | | | |
| 9 | | | | 0.43 | | | |
| 10 | | | | 0.38 | | | |
| 11 | | | | 0.32 | | | |
| 12 | | | | 0.37 | | | |

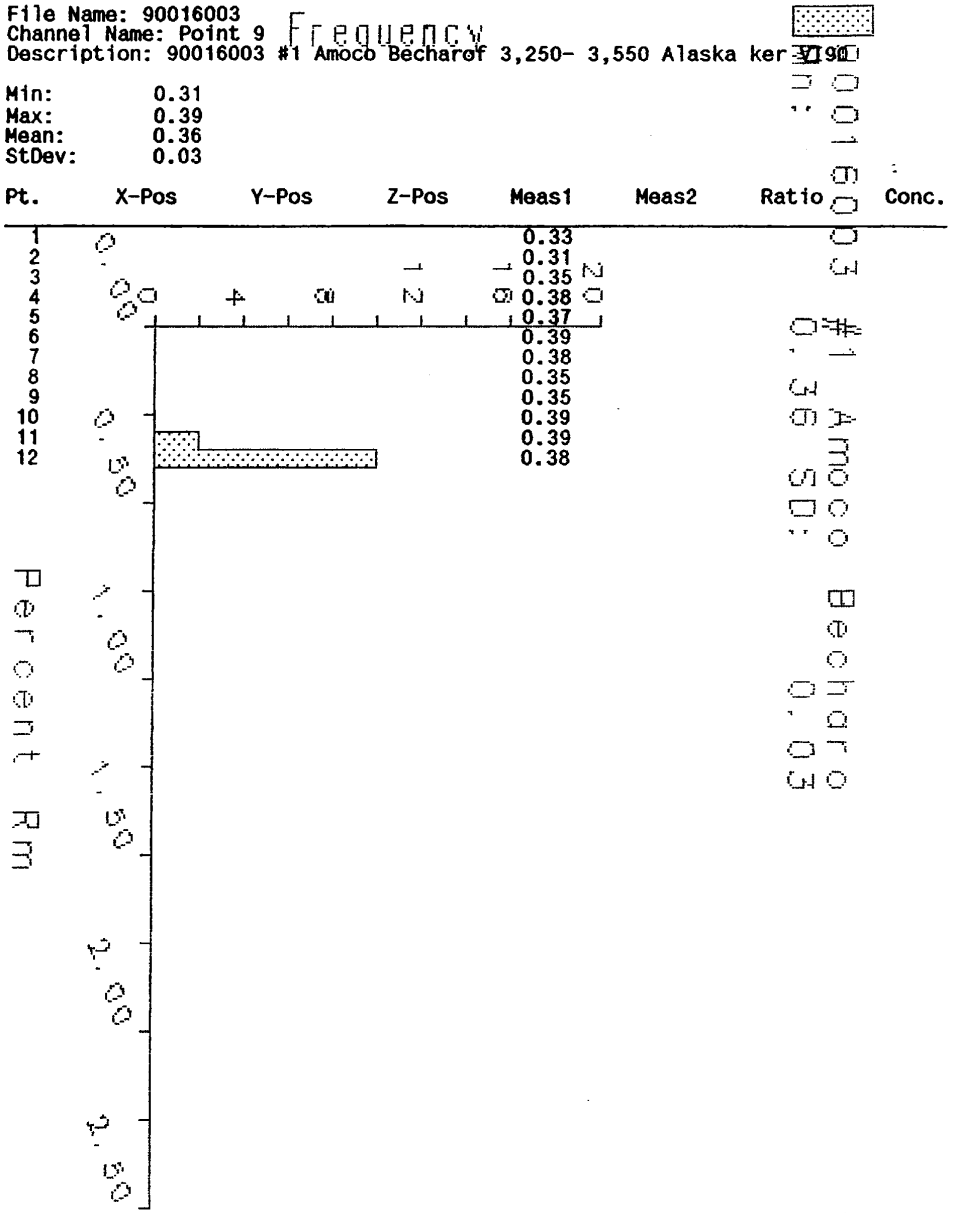



90016002 #1 Amoco Becharo
0.37 SD: 0.05

File Name: 90016003
Channel Name: Point 9
Description: 90016003 #1 Amoco Becharof 3,250- 3,550 Alaska ker

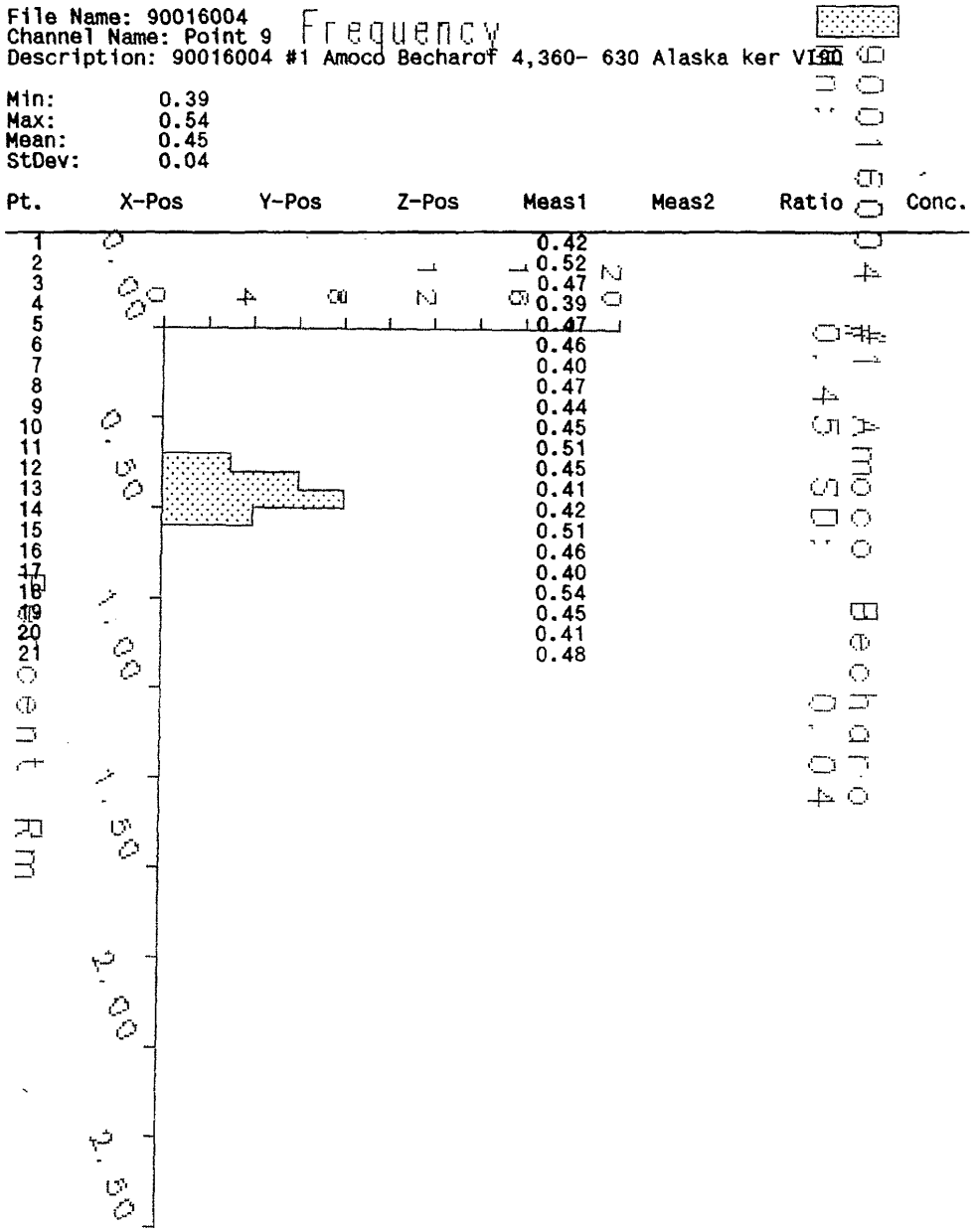
Min: 0.31
Max: 0.39
Mean: 0.36
StDev: 0.03

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.33 | | | |
| 2 | | | | 0.31 | | | |
| 3 | | | | 0.35 | | | |
| 4 | | | | 0.38 | | | |
| 5 | | | | 0.37 | | | |
| 6 | | | | 0.39 | | | |
| 7 | | | | 0.38 | | | |
| 8 | | | | 0.35 | | | |
| 9 | | | | 0.35 | | | |
| 10 | | | | 0.39 | | | |
| 11 | | | | 0.39 | | | |
| 12 | | | | 0.38 | | | |



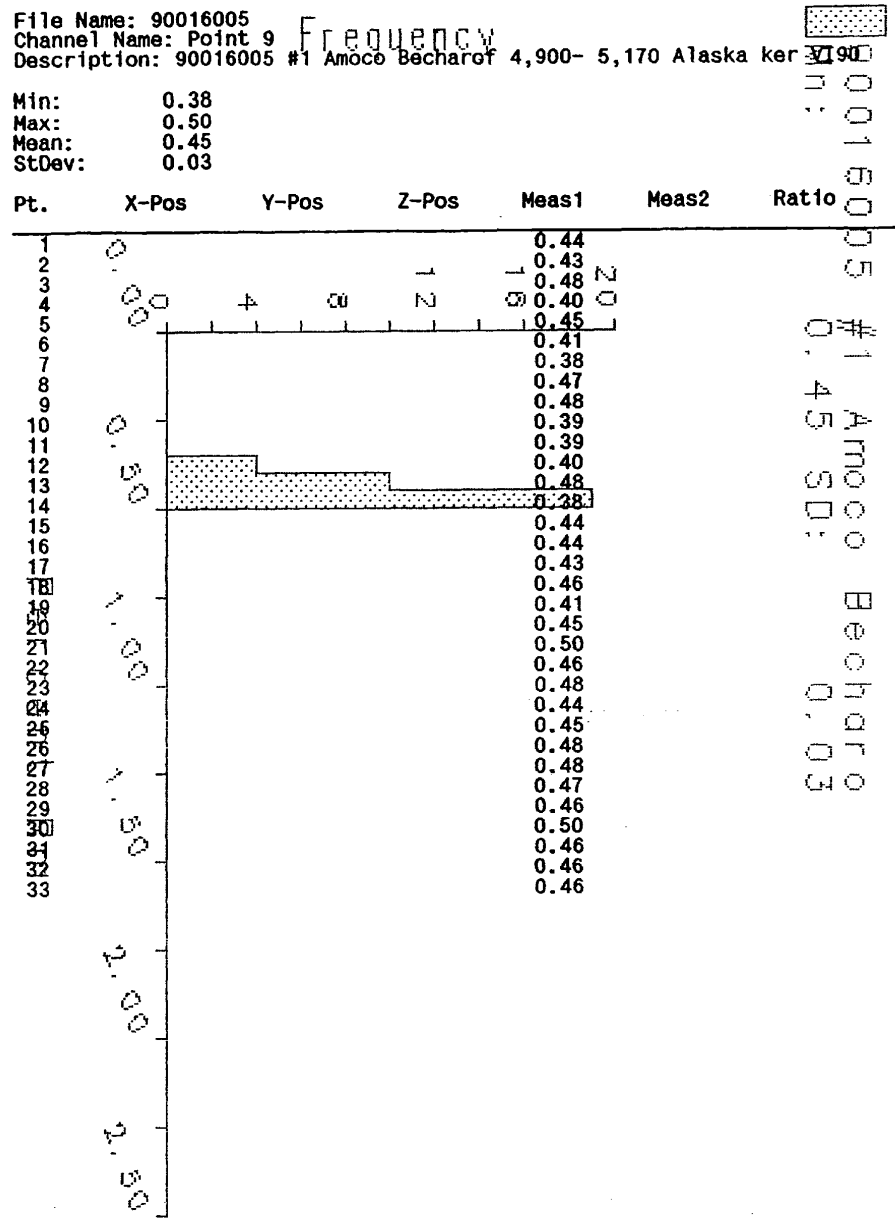
File Name: 90016004
Channel Name: Point 9
Description: 90016004 #1 Amoco Becharof 4,360- 630 Alaska ker VIBO

Min: 0.39
Max: 0.54
Mean: 0.45
StDev: 0.04



File Name: 90016005
Channel Name: Point 9
Description: 90016005 #1 Amoco Becharof 4,900- 5,170 Alaska ker

Min: 0.38
Max: 0.50
Mean: 0.45
StDev: 0.03

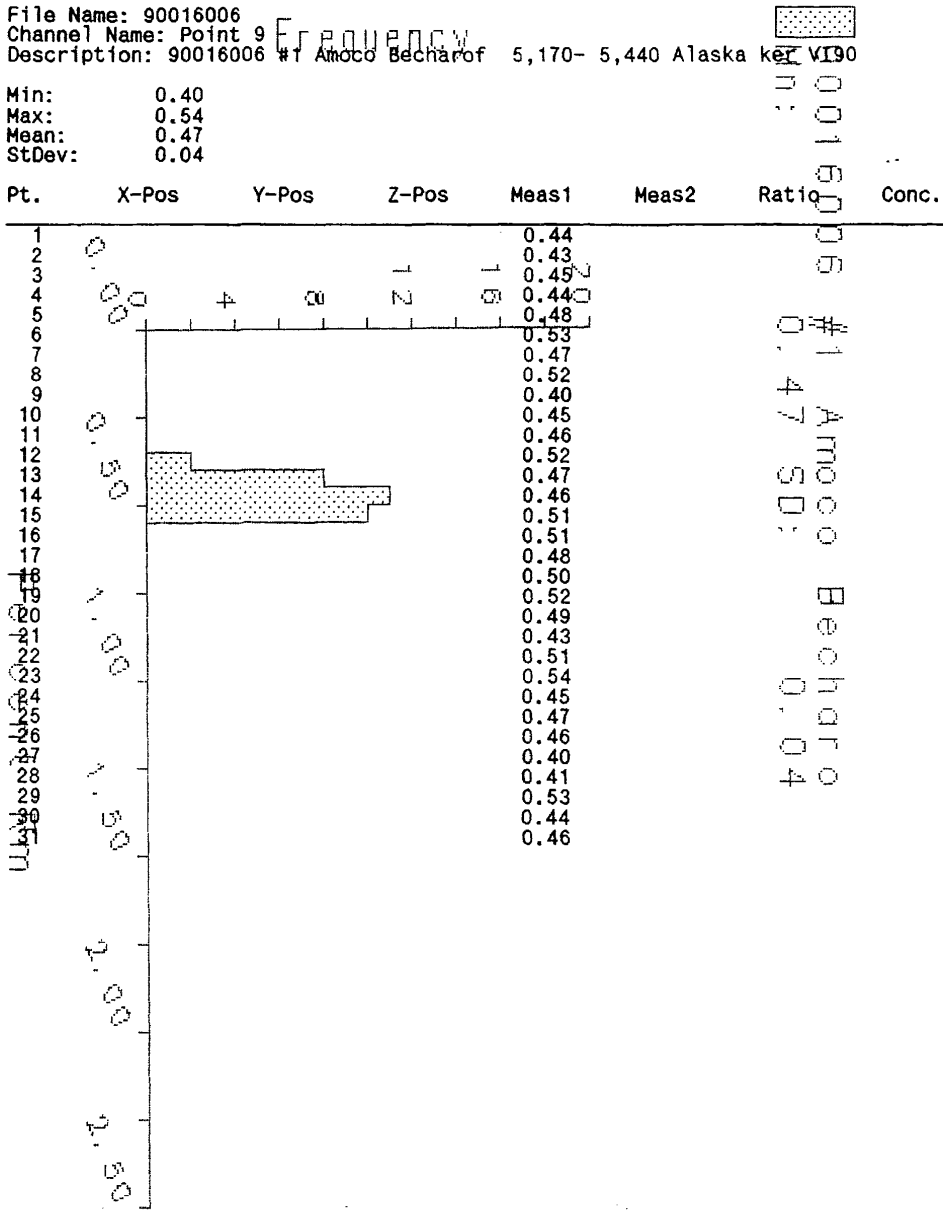



| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.44 | | | |
| 2 | | | | 0.43 | | | |
| 3 | | | | 0.48 | | | |
| 4 | | | | 0.40 | | | |
| 5 | | | | 0.45 | | | |
| 6 | | | | 0.41 | | | |
| 7 | | | | 0.38 | | | |
| 8 | | | | 0.47 | | | |
| 9 | | | | 0.48 | | | |
| 10 | | | | 0.39 | | | |
| 11 | | | | 0.39 | | | |
| 12 | | | | 0.40 | | | |
| 13 | | | | 0.48 | | | |
| 14 | | | | 0.38 | | | |
| 15 | | | | 0.44 | | | |
| 16 | | | | 0.44 | | | |
| 17 | | | | 0.43 | | | |
| 18 | | | | 0.46 | | | |
| 19 | | | | 0.41 | | | |
| 20 | | | | 0.45 | | | |
| 21 | | | | 0.50 | | | |
| 22 | | | | 0.46 | | | |
| 23 | | | | 0.48 | | | |
| 24 | | | | 0.44 | | | |
| 25 | | | | 0.45 | | | |
| 26 | | | | 0.48 | | | |
| 27 | | | | 0.48 | | | |
| 28 | | | | 0.47 | | | |
| 29 | | | | 0.46 | | | |
| 30 | | | | 0.50 | | | |
| 31 | | | | 0.46 | | | |
| 32 | | | | 0.46 | | | |
| 33 | | | | 0.46 | | | |

File Name: 90016006
Channel Name: Point 9
Description: 90016006 #1 Amoco Becharof 5,170- 5,440 Alaska ker VI90

Min: 0.40
Max: 0.54
Mean: 0.47
StDev: 0.04

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.44 | | | |
| 2 | | | | 0.43 | | | |
| 3 | | | | 0.45 | | | |
| 4 | | | | 0.44 | | | |
| 5 | | | | 0.48 | | | |
| 6 | | | | 0.53 | | | |
| 7 | | | | 0.47 | | | |
| 8 | | | | 0.52 | | | |
| 9 | | | | 0.40 | | | |
| 10 | | | | 0.45 | | | |
| 11 | | | | 0.46 | | | |
| 12 | | | | 0.52 | | | |
| 13 | | | | 0.47 | | | |
| 14 | | | | 0.46 | | | |
| 15 | | | | 0.51 | | | |
| 16 | | | | 0.51 | | | |
| 17 | | | | 0.48 | | | |
| 18 | | | | 0.50 | | | |
| 19 | | | | 0.52 | | | |
| 20 | | | | 0.49 | | | |
| 21 | | | | 0.43 | | | |
| 22 | | | | 0.51 | | | |
| 23 | | | | 0.54 | | | |
| 24 | | | | 0.45 | | | |
| 25 | | | | 0.47 | | | |
| 26 | | | | 0.46 | | | |
| 27 | | | | 0.40 | | | |
| 28 | | | | 0.41 | | | |
| 29 | | | | 0.53 | | | |
| 30 | | | | 0.44 | | | |
| 31 | | | | 0.46 | | | |

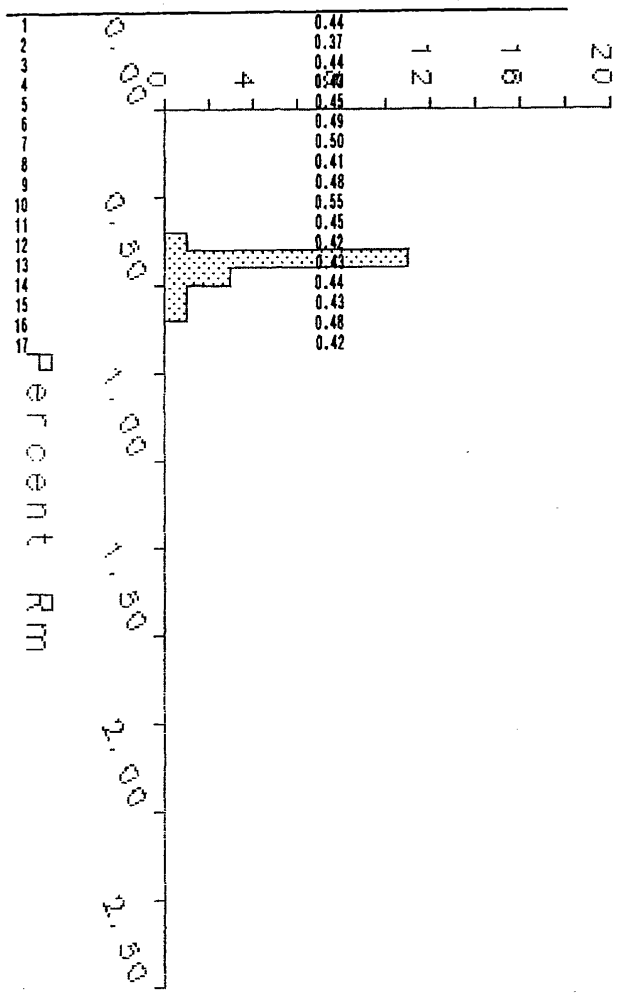


File Name: 90016007
Channel Name: Point 9
Description: 90016007 #1 Amoco Becharof 5,440- 710 Alaska ker VI90

Frequency

Min: 0.37
Max: 0.55
Mean: 0.45
StDev: 0.04

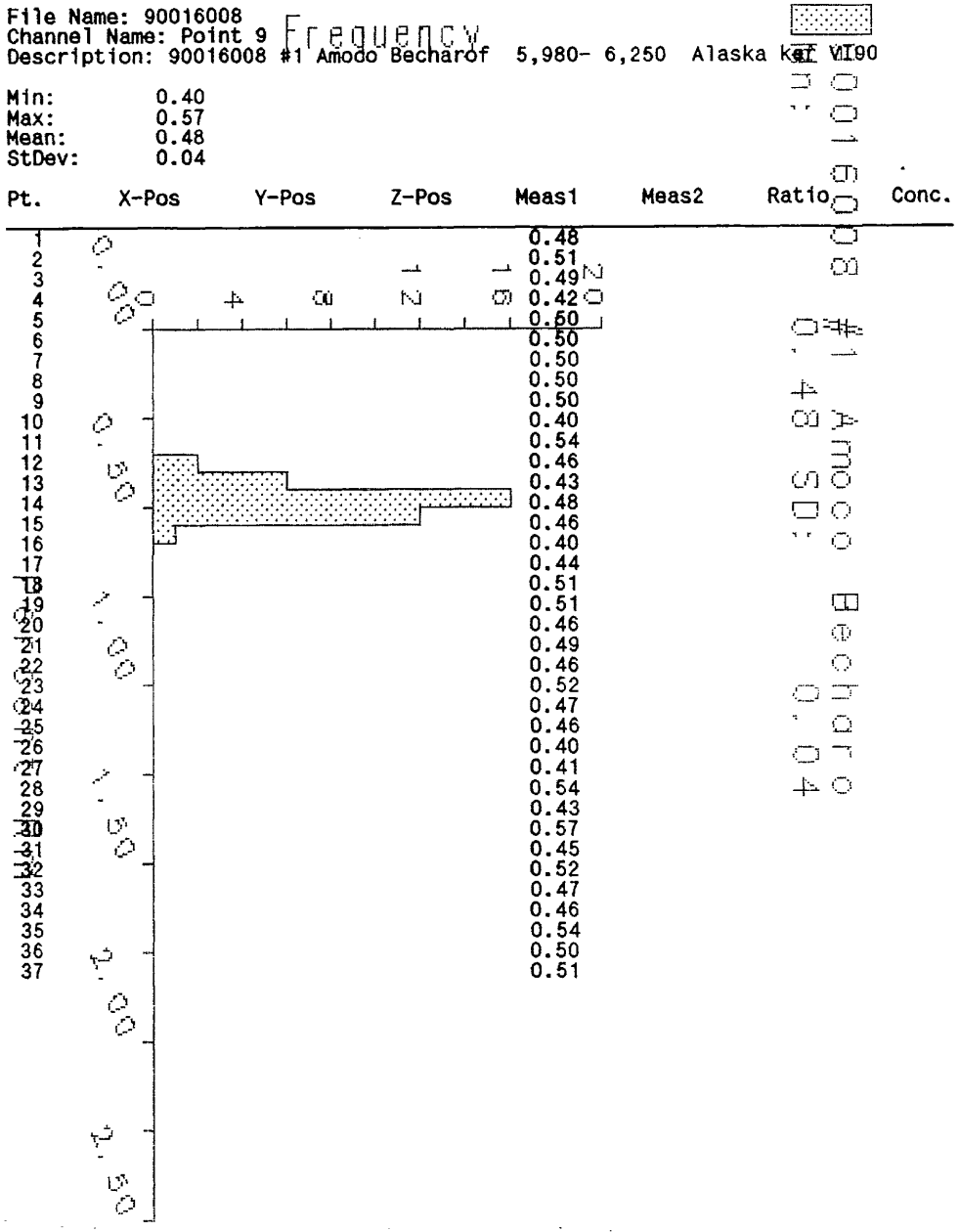
| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.44 | | | |
| 2 | | | | 0.37 | | | |
| 3 | | | | 0.44 | | | |
| 4 | | | | 0.40 | | | |
| 5 | | | | 0.45 | | | |
| 6 | | | | 0.49 | | | |
| 7 | | | | 0.50 | | | |
| 8 | | | | 0.41 | | | |
| 9 | | | | 0.48 | | | |
| 10 | | | | 0.55 | | | |
| 11 | | | | 0.45 | | | |
| 12 | | | | 0.42 | | | |
| 13 | | | | 0.43 | | | |
| 14 | | | | 0.44 | | | |
| 15 | | | | 0.43 | | | |
| 16 | | | | 0.48 | | | |
| 17 | | | | 0.42 | | | |




90016007 #1 Amoco Becharo
Mn: 0.45 SD: 0.04

File Name: 90016008
Channel Name: Point 9
Description: 90016008 #1 Amodo Becharof 5,980- 6,250 Alaska Kef VI90

Min: 0.40
Max: 0.57
Mean: 0.48
StDev: 0.04



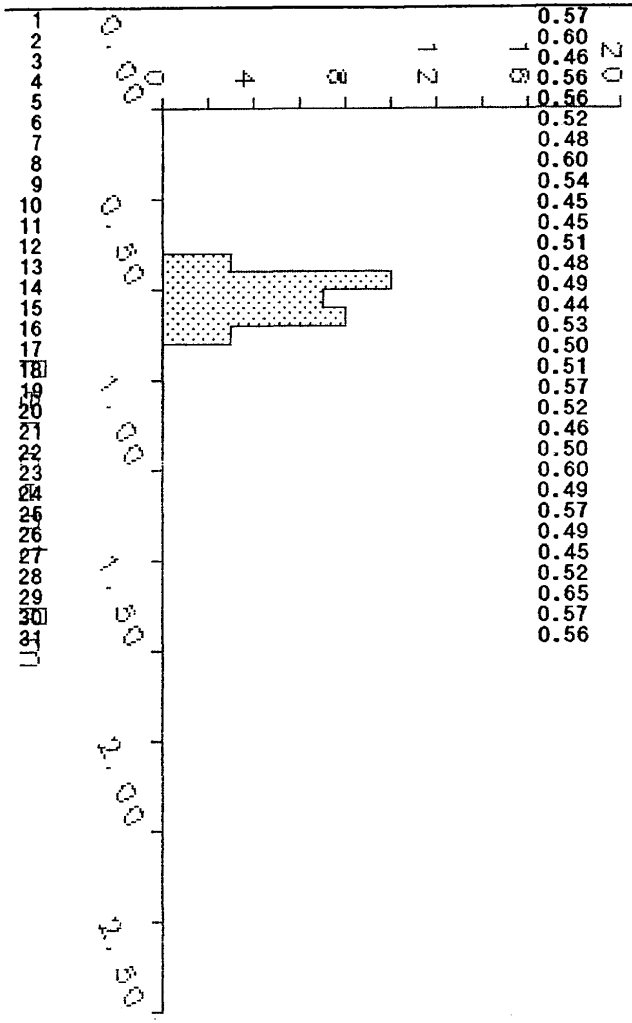

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.48 | | | |
| 2 | | | | 0.51 | | | |
| 3 | | | | 0.49 | | | |
| 4 | | | | 0.42 | | | |
| 5 | | | | 0.50 | | | |
| 6 | | | | 0.50 | | | |
| 7 | | | | 0.50 | | | |
| 8 | | | | 0.50 | | | |
| 9 | | | | 0.50 | | | |
| 10 | | | | 0.40 | | | |
| 11 | | | | 0.54 | | | |
| 12 | | | | 0.46 | | | |
| 13 | | | | 0.43 | | | |
| 14 | | | | 0.48 | | | |
| 15 | | | | 0.46 | | | |
| 16 | | | | 0.40 | | | |
| 17 | | | | 0.44 | | | |
| 18 | | | | 0.51 | | | |
| 19 | | | | 0.51 | | | |
| 20 | | | | 0.46 | | | |
| 21 | | | | 0.49 | | | |
| 22 | | | | 0.46 | | | |
| 23 | | | | 0.52 | | | |
| 24 | | | | 0.47 | | | |
| 25 | | | | 0.46 | | | |
| 26 | | | | 0.40 | | | |
| 27 | | | | 0.41 | | | |
| 28 | | | | 0.54 | | | |
| 29 | | | | 0.43 | | | |
| 30 | | | | 0.57 | | | |
| 31 | | | | 0.45 | | | |
| 32 | | | | 0.52 | | | |
| 33 | | | | 0.47 | | | |
| 34 | | | | 0.46 | | | |
| 35 | | | | 0.54 | | | |
| 36 | | | | 0.50 | | | |
| 37 | | | | 0.51 | | | |

File Name: 90016009
Channel Name: Point 9
Description: 90016009 #1 Amoco Becharof 6,250- 6,520 Alaska ker

Frequency

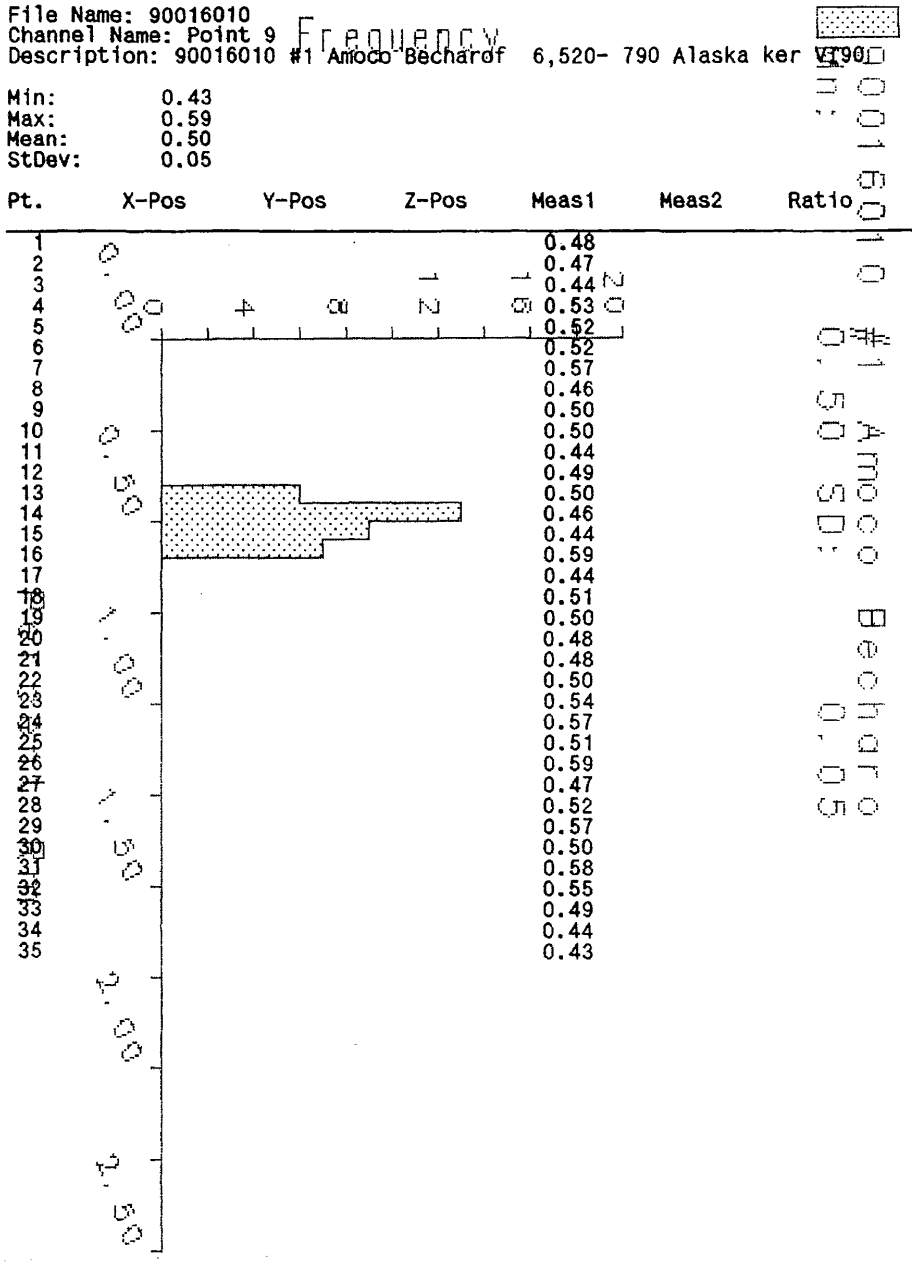
Min: 0.44
Max: 0.65
Mean: 0.52
StDev: 0.05

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.57 | | | |
| 2 | | | | 0.60 | | | |
| 3 | | | | 0.46 | | | |
| 4 | | | | 0.56 | | | |
| 5 | | | | 0.56 | | | |
| 6 | | | | 0.52 | | | |
| 7 | | | | 0.48 | | | |
| 8 | | | | 0.60 | | | |
| 9 | | | | 0.54 | | | |
| 10 | | | | 0.45 | | | |
| 11 | | | | 0.45 | | | |
| 12 | | | | 0.51 | | | |
| 13 | | | | 0.48 | | | |
| 14 | | | | 0.49 | | | |
| 15 | | | | 0.44 | | | |
| 16 | | | | 0.53 | | | |
| 17 | | | | 0.50 | | | |
| 18 | | | | 0.51 | | | |
| 19 | | | | 0.57 | | | |
| 20 | | | | 0.52 | | | |
| 21 | | | | 0.46 | | | |
| 22 | | | | 0.50 | | | |
| 23 | | | | 0.60 | | | |
| 24 | | | | 0.49 | | | |
| 25 | | | | 0.57 | | | |
| 26 | | | | 0.49 | | | |
| 27 | | | | 0.45 | | | |
| 28 | | | | 0.52 | | | |
| 29 | | | | 0.65 | | | |
| 30 | | | | 0.57 | | | |
| 31 | | | | 0.56 | | | |



File Name: 90016010
Channel Name: Point 9
Description: 90016010 #1 Amoco Becharof 6,520- 790 Alaska ker VT90

Min: 0.43
Max: 0.59
Mean: 0.50
StDev: 0.05



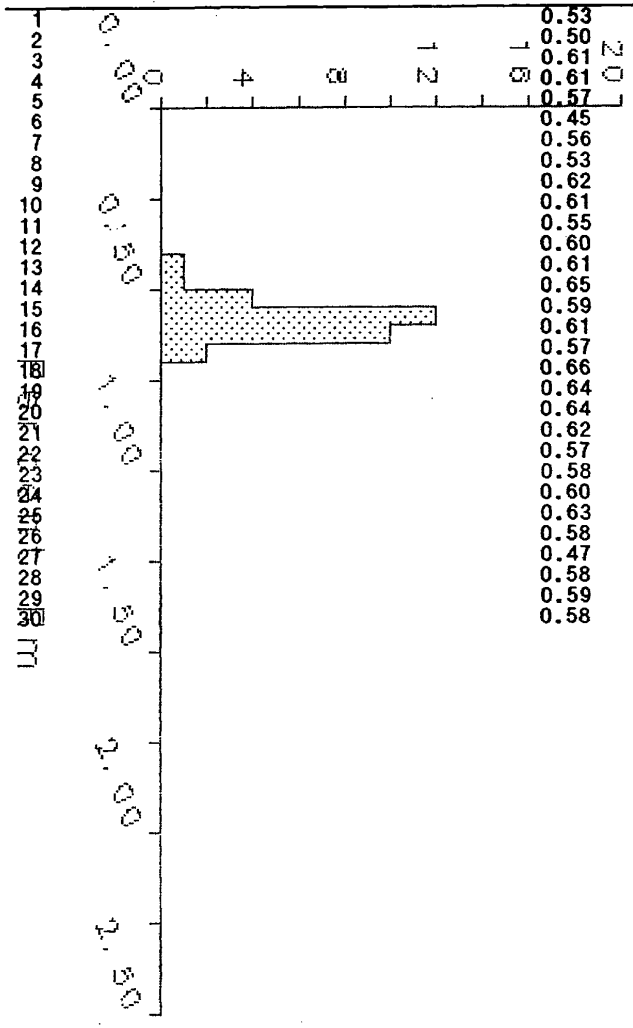

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.48 | | | |
| 2 | | | | 0.47 | | | |
| 3 | | | | 0.44 | | | |
| 4 | | | | 0.53 | | | |
| 5 | | | | 0.52 | | | |
| 6 | | | | 0.52 | | | |
| 7 | | | | 0.57 | | | |
| 8 | | | | 0.46 | | | |
| 9 | | | | 0.50 | | | |
| 10 | | | | 0.50 | | | |
| 11 | | | | 0.44 | | | |
| 12 | | | | 0.49 | | | |
| 13 | | | | 0.50 | | | |
| 14 | | | | 0.46 | | | |
| 15 | | | | 0.44 | | | |
| 16 | | | | 0.59 | | | |
| 17 | | | | 0.44 | | | |
| 18 | | | | 0.51 | | | |
| 19 | | | | 0.50 | | | |
| 20 | | | | 0.48 | | | |
| 21 | | | | 0.48 | | | |
| 22 | | | | 0.50 | | | |
| 23 | | | | 0.54 | | | |
| 24 | | | | 0.57 | | | |
| 25 | | | | 0.51 | | | |
| 26 | | | | 0.59 | | | |
| 27 | | | | 0.47 | | | |
| 28 | | | | 0.52 | | | |
| 29 | | | | 0.57 | | | |
| 30 | | | | 0.50 | | | |
| 31 | | | | 0.58 | | | |
| 32 | | | | 0.55 | | | |
| 33 | | | | 0.49 | | | |
| 34 | | | | 0.44 | | | |
| 35 | | | | 0.43 | | | |

File Name: 90016011
Channel Name: Point 9
Description: 90016011 #1 Amoco Becharof 7,060- 330 Alaska ker V190

Frequency

Min: 0.45
Max: 0.66
Mean: 0.58
StDev: 0.05

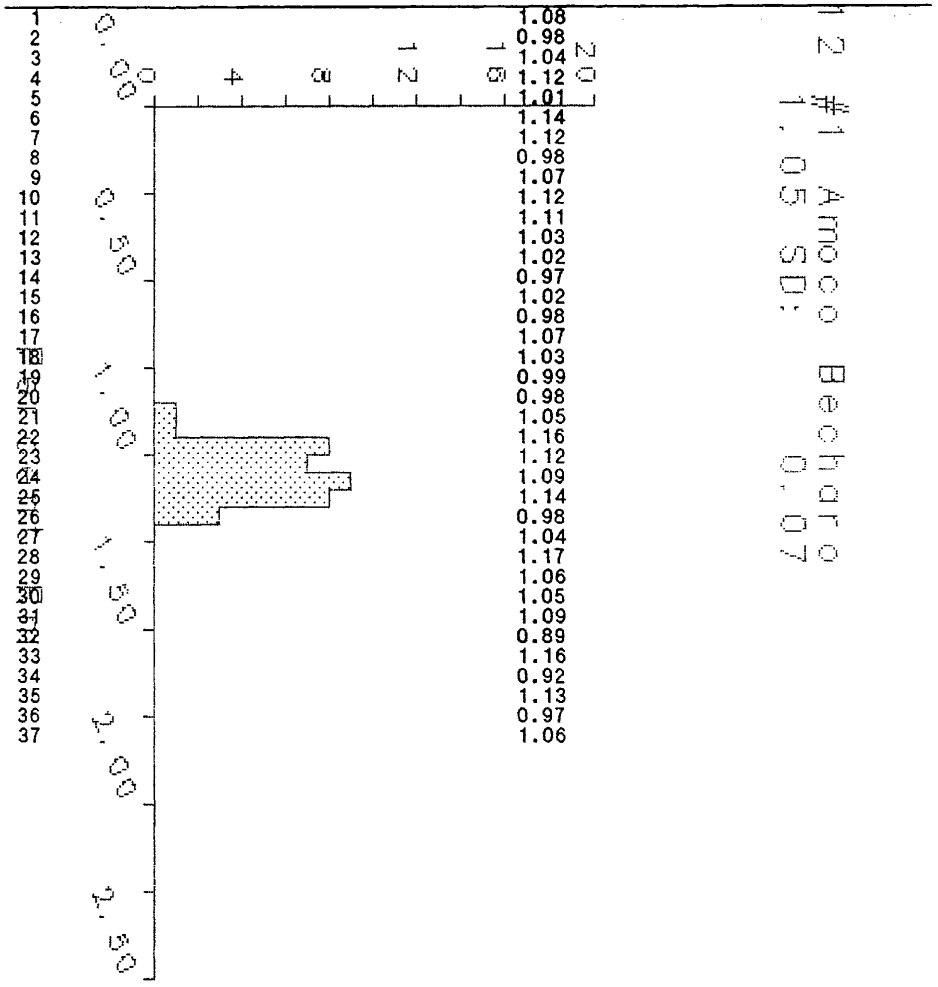
| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.53 | | | |
| 2 | | | | 0.50 | | | |
| 3 | | | | 0.61 | | | |
| 4 | | | | 0.61 | | | |
| 5 | | | | 0.57 | | | |
| 6 | | | | 0.45 | | | |
| 7 | | | | 0.56 | | | |
| 8 | | | | 0.53 | | | |
| 9 | | | | 0.62 | | | |
| 10 | | | | 0.61 | | | |
| 11 | | | | 0.55 | | | |
| 12 | | | | 0.60 | | | |
| 13 | | | | 0.61 | | | |
| 14 | | | | 0.65 | | | |
| 15 | | | | 0.59 | | | |
| 16 | | | | 0.61 | | | |
| 17 | | | | 0.57 | | | |
| 18 | | | | 0.66 | | | |
| 19 | | | | 0.64 | | | |
| 20 | | | | 0.64 | | | |
| 21 | | | | 0.62 | | | |
| 22 | | | | 0.57 | | | |
| 23 | | | | 0.58 | | | |
| 24 | | | | 0.60 | | | |
| 25 | | | | 0.63 | | | |
| 26 | | | | 0.58 | | | |
| 27 | | | | 0.47 | | | |
| 28 | | | | 0.58 | | | |
| 29 | | | | 0.59 | | | |
| 30 | | | | 0.58 | | | |



File Name: 90016012
Channel Name: Point 9
Description: 90016012 #1 Amoco Becharof 7,330- 600 Alaska ker V190

Min: 0.89
Max: 1.17
Mean: 1.05
StDev: 0.07

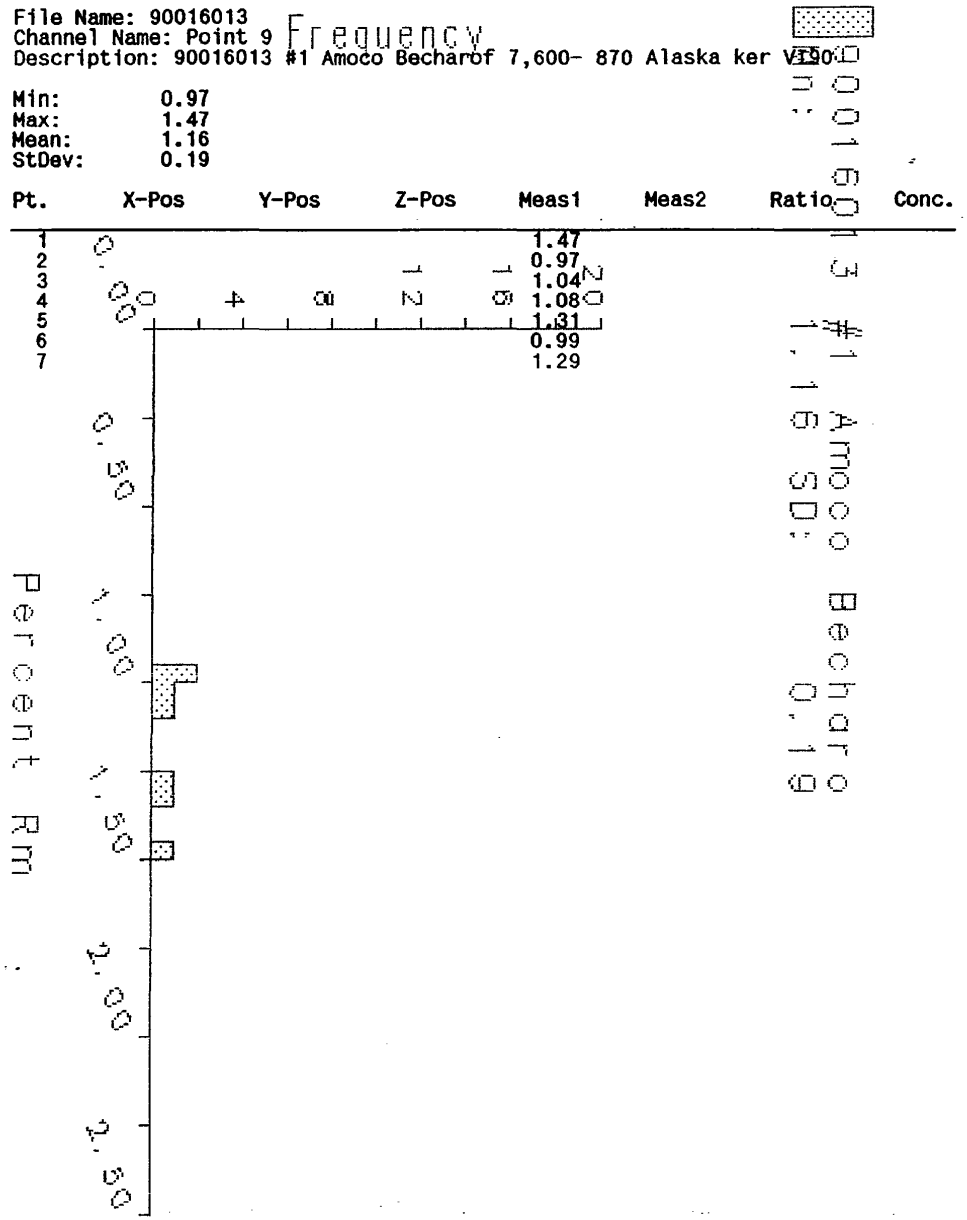
| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 1.08 | | | |
| 2 | | | | 0.98 | | | |
| 3 | | | | 1.04 | | | |
| 4 | | | | 1.12 | | | |
| 5 | | | | 1.01 | | | |
| 6 | | | | 1.14 | | | |
| 7 | | | | 1.12 | | | |
| 8 | | | | 0.98 | | | |
| 9 | | | | 1.07 | | | |
| 10 | | | | 1.12 | | | |
| 11 | | | | 1.11 | | | |
| 12 | | | | 1.03 | | | |
| 13 | | | | 1.02 | | | |
| 14 | | | | 0.97 | | | |
| 15 | | | | 1.02 | | | |
| 16 | | | | 0.98 | | | |
| 17 | | | | 1.07 | | | |
| 18 | | | | 1.03 | | | |
| 19 | | | | 0.99 | | | |
| 20 | | | | 0.98 | | | |
| 21 | | | | 1.05 | | | |
| 22 | | | | 1.16 | | | |
| 23 | | | | 1.12 | | | |
| 24 | | | | 1.09 | | | |
| 25 | | | | 1.14 | | | |
| 26 | | | | 0.98 | | | |
| 27 | | | | 1.04 | | | |
| 28 | | | | 1.17 | | | |
| 29 | | | | 1.06 | | | |
| 30 | | | | 1.05 | | | |
| 31 | | | | 1.09 | | | |
| 32 | | | | 0.89 | | | |
| 33 | | | | 1.16 | | | |
| 34 | | | | 0.92 | | | |
| 35 | | | | 1.13 | | | |
| 36 | | | | 0.97 | | | |
| 37 | | | | 1.06 | | | |



File Name: 90016013
Channel Name: Point 9
Description: 90016013 #1 Amoco Becharof 7,600- 870 Alaska ker V150

Min: 0.97
Max: 1.47
Mean: 1.16
StDev: 0.19

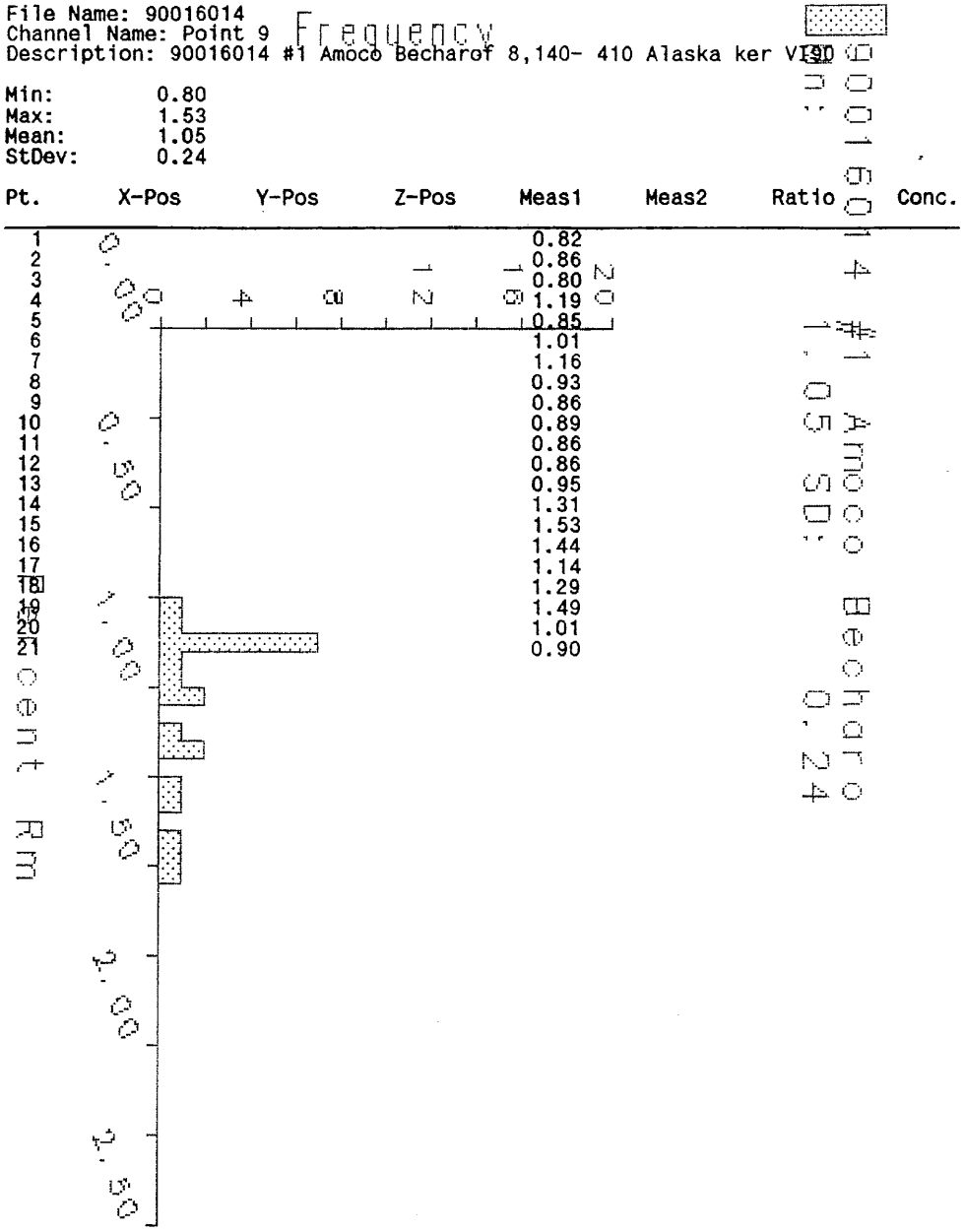
| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 1.47 | | | |
| 2 | | | | 0.97 | | | |
| 3 | | | | 1.04 | | | |
| 4 | | | | 1.08 | | | |
| 5 | | | | 1.31 | | | |
| 6 | | | | 0.99 | | | |
| 7 | | | | 1.29 | | | |



File Name: 90016014
Channel Name: Point 9
Description: 90016014 #1 Amoco Becharof 8,140- 410 Alaska ker VISD

Min: 0.80
Max: 1.53
Mean: 1.05
StDev: 0.24

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.82 | | | |
| 2 | | | | 0.86 | | | |
| 3 | | | | 0.80 | | | |
| 4 | | | | 1.19 | | | |
| 5 | | | | 0.85 | | | |
| 6 | | | | 1.01 | | | |
| 7 | | | | 1.16 | | | |
| 8 | | | | 0.93 | | | |
| 9 | | | | 0.86 | | | |
| 10 | | | | 0.89 | | | |
| 11 | | | | 0.86 | | | |
| 12 | | | | 0.86 | | | |
| 13 | | | | 0.95 | | | |
| 14 | | | | 1.31 | | | |
| 15 | | | | 1.53 | | | |
| 16 | | | | 1.44 | | | |
| 17 | | | | 1.14 | | | |
| 18 | | | | 1.29 | | | |
| 19 | | | | 1.49 | | | |
| 20 | | | | 1.01 | | | |
| 21 | | | | 0.90 | | | |

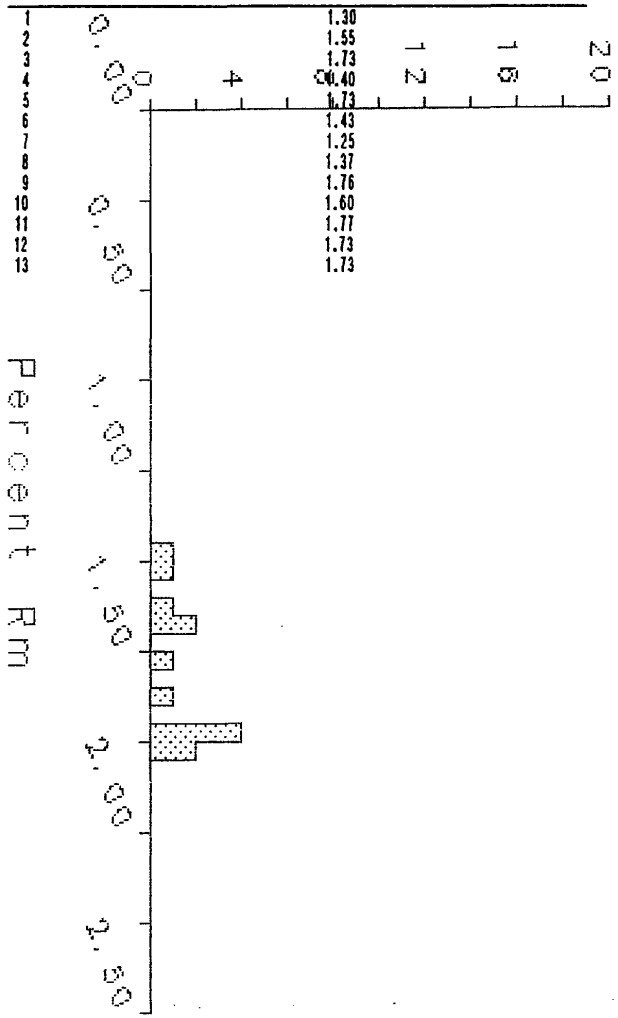


File Name: 90016015
Channel Name: Point 9
Description: 90016015 #1 Amoco Becharof 8,410- 680 Alaska ker VI90

# Frequency

Min: 1.25
Max: 1.77
Mean: 1.56
StDev: 0.19

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 1.30 | | | |
| 2 | | | | 1.55 | | | |
| 3 | | | | 1.73 | | | |
| 4 | | | | 1.40 | | | |
| 5 | | | | 1.73 | | | |
| 6 | | | | 1.43 | | | |
| 7 | | | | 1.25 | | | |
| 8 | | | | 1.37 | | | |
| 9 | | | | 1.76 | | | |
| 10 | | | | 1.60 | | | |
| 11 | | | | 1.77 | | | |
| 12 | | | | 1.73 | | | |
| 13 | | | | 1.73 | | | |

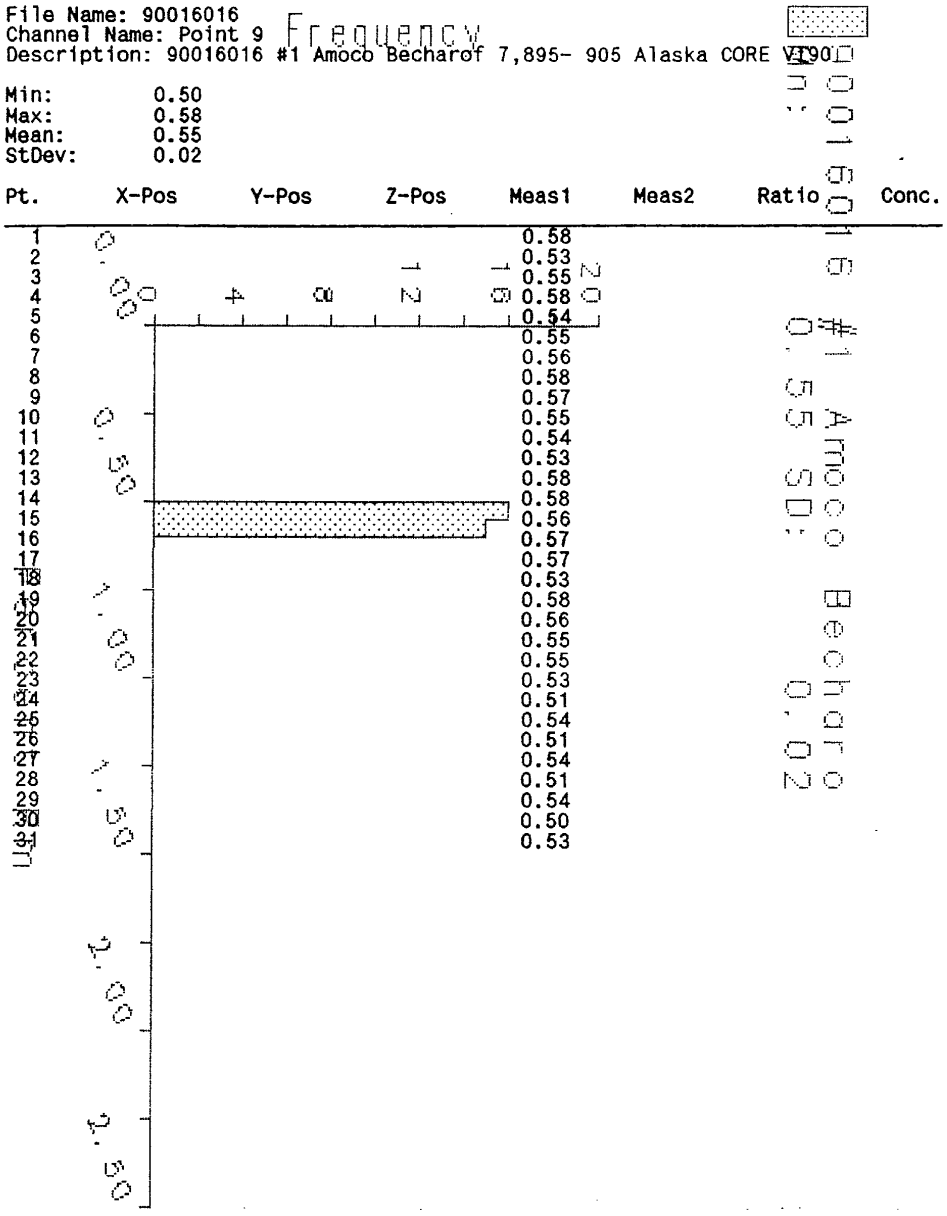



90016015 #1 Amoco Becharo
Min: 0.19
1.56 SD:

File Name: 90016016
Channel Name: Point 9
Description: 90016016 #1 Amoco Becharof 7,895- 905 Alaska CORE VT90

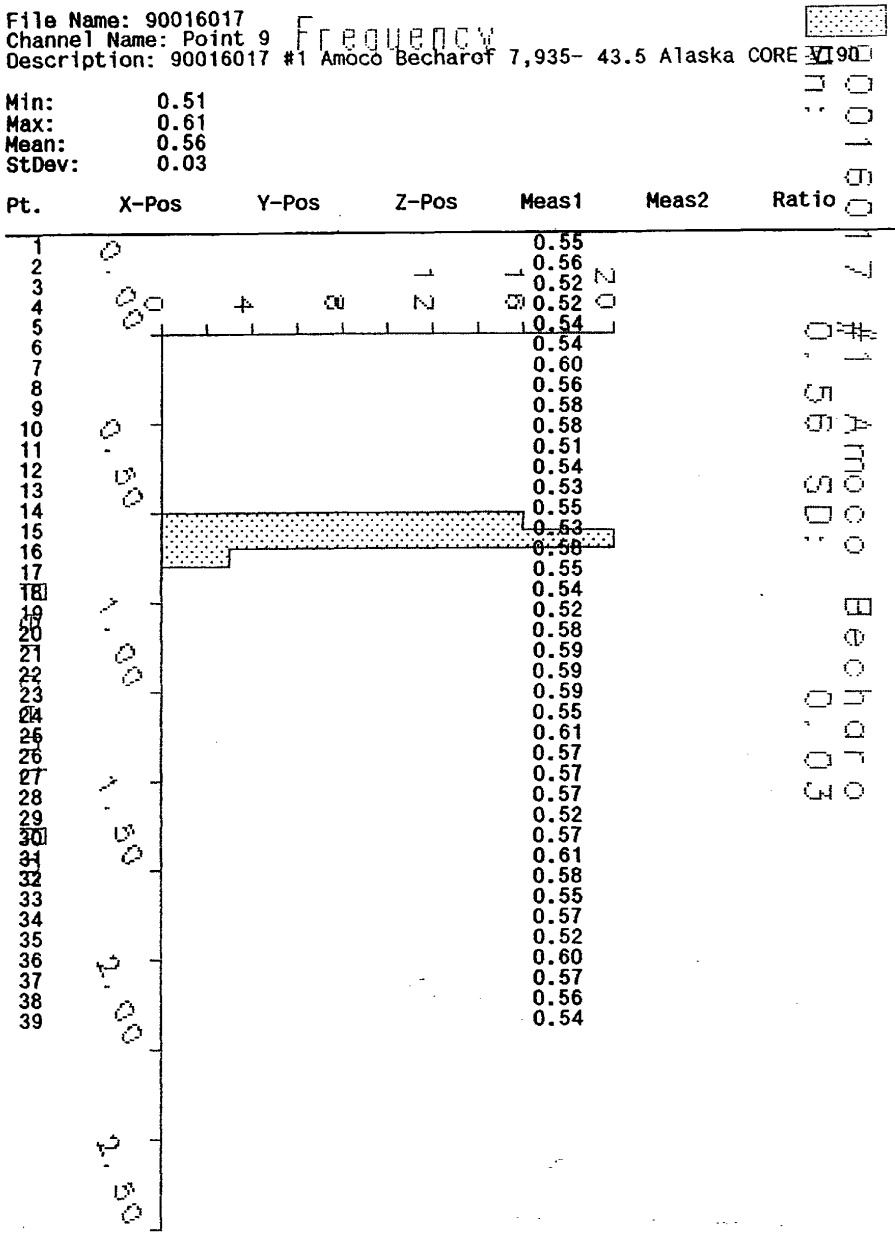
Min: 0.50
Max: 0.58
Mean: 0.55
StDev: 0.02

| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.58 | | | |
| 2 | | | | 0.53 | | | |
| 3 | | | | 0.55 | | | |
| 4 | | | | 0.58 | | | |
| 5 | | | | 0.54 | | | |
| 6 | | | | 0.55 | | | |
| 7 | | | | 0.56 | | | |
| 8 | | | | 0.58 | | | |
| 9 | | | | 0.57 | | | |
| 10 | | | | 0.55 | | | |
| 11 | | | | 0.54 | | | |
| 12 | | | | 0.53 | | | |
| 13 | | | | 0.58 | | | |
| 14 | | | | 0.58 | | | |
| 15 | | | | 0.56 | | | |
| 16 | | | | 0.57 | | | |
| 17 | | | | 0.57 | | | |
| 18 | | | | 0.53 | | | |
| 19 | | | | 0.58 | | | |
| 20 | | | | 0.56 | | | |
| 21 | | | | 0.55 | | | |
| 22 | | | | 0.55 | | | |
| 23 | | | | 0.53 | | | |
| 24 | | | | 0.51 | | | |
| 25 | | | | 0.54 | | | |
| 26 | | | | 0.51 | | | |
| 27 | | | | 0.54 | | | |
| 28 | | | | 0.51 | | | |
| 29 | | | | 0.54 | | | |
| 30 | | | | 0.50 | | | |
| 31 | | | | 0.53 | | | |



File Name: 90016017
Channel Name: Point 9
Description: 90016017 #1 Amoco Becharof 7,935- 43.5 Alaska CORE 3/90

Min: 0.51
Max: 0.61
Mean: 0.56
StDev: 0.03




| Pt. | X-Pos | Y-Pos | Z-Pos | Meas1 | Meas2 | Ratio | Conc. |
|---|---|---|---|---|---|---|---|
| 1 | | | | 0.55 | | | |
| 2 | | | | 0.56 | | | |
| 3 | | | | 0.52 | | | |
| 4 | | | | 0.52 | | | |
| 5 | | | | 0.54 | | | |
| 6 | | | | 0.54 | | | |
| 7 | | | | 0.60 | | | |
| 8 | | | | 0.56 | | | |
| 9 | | | | 0.58 | | | |
| 10 | | | | 0.58 | | | |
| 11 | | | | 0.51 | | | |
| 12 | | | | 0.54 | | | |
| 13 | | | | 0.53 | | | |
| 14 | | | | 0.55 | | | |
| 15 | | | | 0.53 | | | |
| 16 | | | | 0.56 | | | |
| 17 | | | | 0.55 | | | |
| 18 | | | | 0.54 | | | |
| 19 | | | | 0.52 | | | |
| 20 | | | | 0.58 | | | |
| 21 | | | | 0.59 | | | |
| 22 | | | | 0.59 | | | |
| 23 | | | | 0.59 | | | |
| 24 | | | | 0.55 | | | |
| 25 | | | | 0.61 | | | |
| 26 | | | | 0.57 | | | |
| 27 | | | | 0.57 | | | |
| 28 | | | | 0.57 | | | |
| 29 | | | | 0.52 | | | |
| 30 | | | | 0.57 | | | |
| 31 | | | | 0.61 | | | |
| 32 | | | | 0.58 | | | |
| 33 | | | | 0.55 | | | |
| 34 | | | | 0.57 | | | |
| 35 | | | | 0.52 | | | |
| 36 | | | | 0.60 | | | |
| 37 | | | | 0.57 | | | |
| 38 | | | | 0.56 | | | |
| 39 | | | | 0.54 | | | |

United States Department of the Interior

GEOLOGICAL SURVEY
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TAKE PRIDE IN AMERICA

IN REPLY REFER TO:

17 September, 1990

John Reeder
P.O. Box 772116
Eagle River, AK
99577-2116

John:

I am returning the prepared samples I borrowed from the state back in January. Enclosed, also, you will find data and histogram sheets for almost all the samples.

Some samples did have organic material I deemed good enough to measure. For the most part, the samples were good and the results are evident, at least individually. Taken on a well-by-well basis several were difficult to make good sense out of from an organic petrology point of view. The shape of the histograms is a good general indicator of consistency of the organics contained within and in the confidence I had while examining the samples. My technique was to measure at least 50 organic grains, while trying to stay within a narrow range. This becomes difficult with increased vitrinite reflectance, and the histogram spread increases. With adequate material and consistent rank (contamination from uphole cavings can introduce diverse groups of organics) the histogram will have some kind of a bell curve shape. Gaps in the histogram, relating to multiple populations of organics, are a problem and dilute the strength of the mean value as a good measure of the thermal maturity. These gaps are more common at the higher ranks, (> 1.5% reflectance), but occur at lower ranks when insufficient material exists or there is contamination in the sample. I admit to certain biases against samples prepared by people other than myself, and these samples were made by several different companies. I feel I lose too much control over the processing of the cuttings and do not have the confidence in other people's dedication to the work.

I hope these data can be of some use to you. If I can help by providing additional information, please let me know.

Thank you for providing the samples, and for your assisstance while I was visiting.

Mark Pawlewicz

Mark Pawlewicz