

Total organic carbon and Rock Eval pyrolysis data and analysis for the Consolidated Oil Iniskin Unit Zappa No. 1 well (See GMC Data Report No. 83), and for the Consolidated Oil Iniskin Unit Beal No. 1 well.

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Total of 22 pages in report

Geologic Materials Center Data Report No. 115

Iniskin Well (930' to 11200', samples 6436-001 to -014)

Organic Richness

From 930' to 5090' TOC values of 0.30 to 0.66 wt.% generally reflect poor source rock organic carbon quantity. A sample at 6240-6270' with TOC 0.87 wt.% has fair quantity, and from 6500' to 9080' three samples with values of 1.01 to 1.41 wt.% marginally qualify as good source quantities. The deepest sample, at 11170-11200', has poor quantity (0.28 wt.%).

Thermal Maturity

Based on  $T_{max}$  values for samples from 1430' to 4980' ( $T_{max}$  435-438°C), maturation varies from immature to marginally mature (early oil window). Marginally detectable  $S_1$  values (0.10) improve slightly for samples at 5060'. A shoulder on the  $S_2$  peak of the sample at 6500-6550' accounts for the break in the downhole increasing trend of  $T_{max}$ . The shoulder could reflect either early generated bitumen or contamination, which can reduce  $T_{max}$ .

Quantity of Organic Matter

At this early stage of maturity the low Hydrogen Indices (28-149) suggest a marginally gas prone source rock to non source rock quality (Type III-Type IV kerogen).

Iniskin Beal #1 (480' to 8760', samples 6438-023 to -041)

Organic Richness

Poor to fair TOC from 480' to 5120' (0.46-0.55 wt.%), good from 6510' to 8040' (0.99-1.55 wt.%), fair from 8520' to 8760' (0.55-0.90 wt.%).

Thermal Maturity

Clear unimodal  $S_2$  peaks have yielded apparently reliable  $T_{max}$  values throughout the well. They vary fairly consistently with depth from marginally mature at the surface (435-440°C) to well within the oil window for the deepest samples (up to 448°C). This is supported by increasing  $S_1$  values and Production Indices up to 0.29.

Quality of Organic Matter

No oil prone sample was apparent as the HI never significantly exceeded the HI=150 required to characterize a mixed oil and gas prone source. Several samples, however, had values near 150 and considering their having been in the oil window these values could have been reduced by early generation and expulsion.

These data correlate well with the "Iniskin well".

TABLE II

## Results of Total Organic Carbon Analysis and Rock-Eval Pyrolysis

Sample Number	Depth (ft)	TOC (Wt.%)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	Tmax (°C)	Production Index	Hydrogen Index	Oxygen Index
<u>Iniskin Well:</u>									
6436-001	930-960	0.30	---	---	---	---	---	---	---
6436-002	1430-1460	0.66	0.15	0.51	0.35	435	0.23	78	53
6436-003	2100-2130	0.50	<0.10	0.14	0.47	438	---	28	93
6436-004	2160-2190	0.57	<0.10	0.20	0.29	438	---	35	51
6436-005	3290-3320	0.54	<0.10	0.36	0.47	434	---	67	86
6436-006	4520-4540	0.53	<0.10	0.47	0.36	438	---	88	68
6436-007	4950-4980	0.46	<0.10	0.33	0.38	438	---	72	82
6436-008	5060-5090	0.58	0.11	0.65	0.37	441	0.15	112	64
6436-009	6240-6270	0.87	0.10	1.01	0.30	442	0.09	116	34
6436-010	6500-6550	1.41	0.13	1.50	0.72	438	0.08	107	51
6436-011	8180-8210	1.01	0.23	1.06	0.34	442	0.18	105	33
6436-012	9060-9080	1.11	0.36	1.65	0.30	441	0.18	149	27
6436-013	10370-10390	0.35	---	---	---	---	---	---	---
6436-014	11170-11200	0.28	---	---	---	---	---	---	---
<u>Well: Iniskin Beal #1</u>									
6438-023	480-570	0.58	0.10	0.56	0.16	438	0.15	96	28
6438-024	930-1020	0.75	<0.10	0.90	0.13	436	---	120	17
6438-025	1530-1620	0.53	<0.10	0.28	0.14	435	---	53	26
6438-026	1970-2030	0.55	<0.10	0.22	0.10	440	---	41	18
6438-027	2470-2500	0.79	<0.10	1.10	<0.10	436	---	140	---
6438-028	2990-3020	0.56	<0.10	0.28	<0.10	442	---	50	---
6438-029	3500-3530	0.66	<0.10	0.87	<0.10	441	---	131	---
6438-042	3530-3590	0.63	<0.10	0.60	<0.10	443	---	95	---
6438-030	3810-3840	0.46	<0.10	0.38	<0.10	439	---	83	---
6438-031	5070-5100	0.55	<0.10	0.44	<0.10	445	---	80	---
6438-032	5590-5620	0.55	<0.10	0.59	0.11	441	---	108	19
6438-033	5930-5960	0.85	0.15	0.96	0.12	443	0.14	113	14
6438-034	6510-6530	1.55	0.50	2.41	<0.10	444	0.17	156	---
6438-035	7000-7020	1.18	0.31	1.76	<0.10	446	0.15	149	---
6438-036	7500-7520	1.07	0.24	1.44	0.10	446	0.14	135	10
6438-037	8020-8040	0.99	0.22	1.25	0.16	445	0.15	126	16
6438-038	8520-8540	0.67	0.14	0.73	0.11	445	0.16	109	17
6438-039	8995-9020	0.70	0.28	0.69	0.42	440	0.29	98	59
6438-040	9380-9410	0.55	0.18	0.58	0.17	444	0.24	106	31
6438-041	8740-8760	0.90	0.34	1.09	0.16	448	0.24	121	18



BROWN & RUTH LABORATORIES, INC.  
**GEOCHEMICAL LOG**

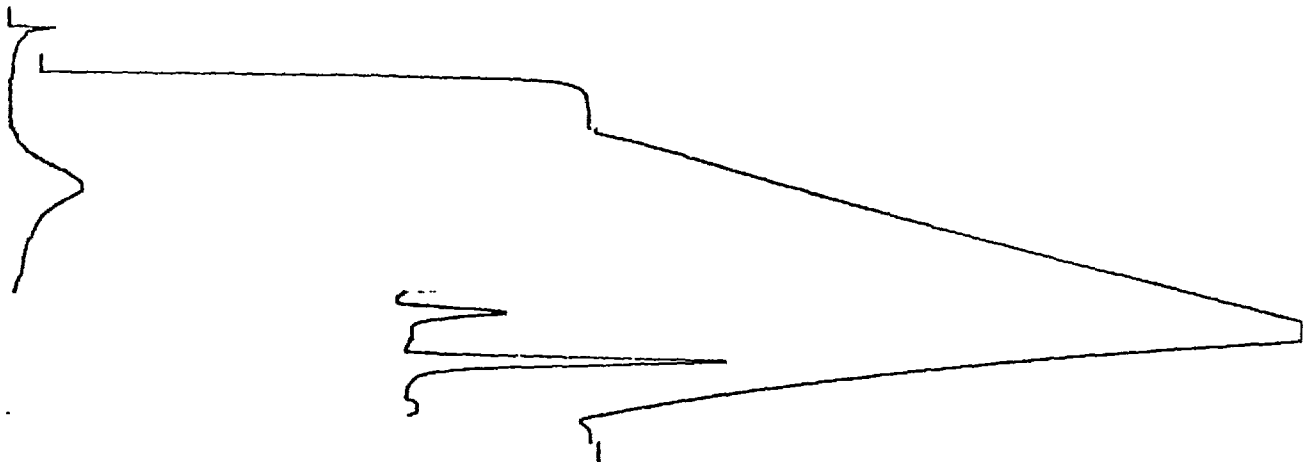
*Antonio Zappa* #  
 WELL NAME: INISKIN WELL

DEPTH (FT.)	AGE	FORMATION	LITHOLOGY	SOURCE BED POTENTIAL				MATURITY			HYDROCARBON INDICATIONS		
				T.O.C. (wt. %)	S2 (mg/g)	S2/S3	HYDROGEN INDEX	T.M.A.P.			S1 (mg/g)	S1 + S2	
				5 1 2 3 4	1 2 3 4 5 10 20 30	25 50 75	100 200 300 400 500	0.3 0.6 1.0 1.4 2.0 3.0	IMMATURE	OL	GAS	10 20	1 3 5 7 9
1000													
2000													
3000													
4000													
5000													
6000													
7000													
8000													
9000													
10000													
11000													
12000													
13000													
14000													
15000													
16000													

- |  |   |   |  |
|--|---|---|--|
| <ul style="list-style-type: none"> <li>☐ CONGLOMERATE</li> <li>☐ SANDSTONE</li> <li>☐ COAL</li> <li>☐ CASING CEMENT</li> </ul> | <ul style="list-style-type: none"> <li>☐ SHALE • SILTSTONE</li> <li>☐ LIMESTONE</li> <li>☐ DOLOMITE</li> <li>☐ CHERT</li> </ul> | <ul style="list-style-type: none"> <li>☐ HALITE</li> <li>☐ ANHYDRITE</li> <li>☐ IGNEOUS</li> <li>☐ VOLCANICS</li> </ul> | <ul style="list-style-type: none"> <li>S1 = Free Hydrocarbons Present in Rock</li> <li>S2 = Hydrocarbons from Kerogen Pyrolysis</li> <li>S3 = CO<sub>2</sub> from Kerogen Pyrolysis</li> <li>Hydrogen Index = S2/T.O.C.</li> </ul> |
|--|---|---|--|

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TCD ATTENUATION= 32

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100 350 550

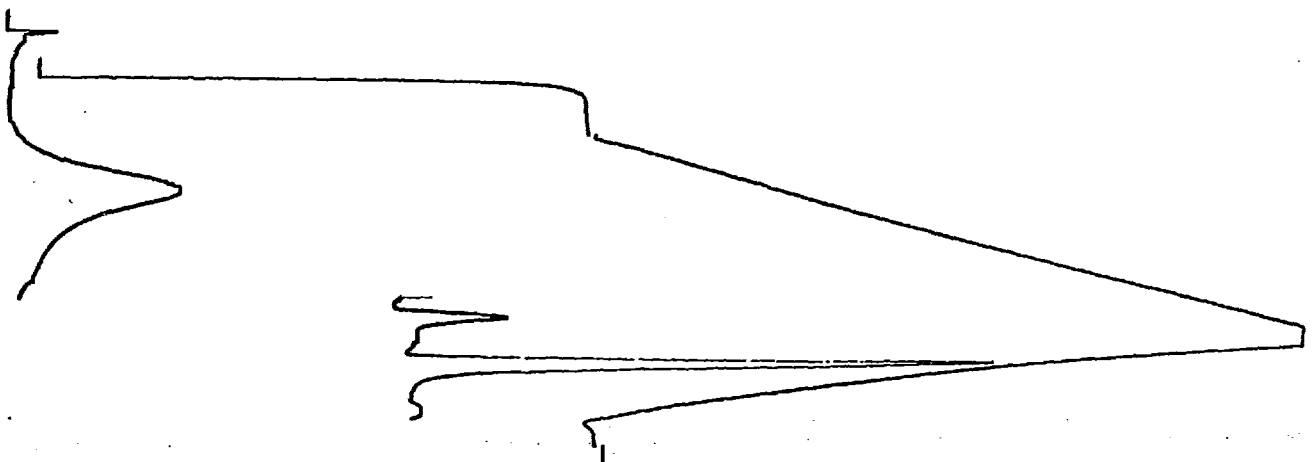


TOC = 0.79  
WT = 120.0  
TMAX = 436 DEGREES C  
S1= +4.059E-02 SUM= +3.070E+02  
S2= +5.684E-01 SUM= +4.299E+03  
S3= +2.606E-01 SUM= +3.804E+03  
UNKNOWN

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GEOCOM ROCK EVAL II

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TIME= 1712  
ID= 002  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550



TOC = 1.52  
WT = 119.6  
TMAX = 433 DEGREES C  
S1= +3.794E-02 SUM= +2.860E+02  
S2= +1.372E+00 SUM= +1.034E+04  
S3= +4.961E-01 SUM= +6.650E+03  
UNKNOWN

TIME= 1738  
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FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
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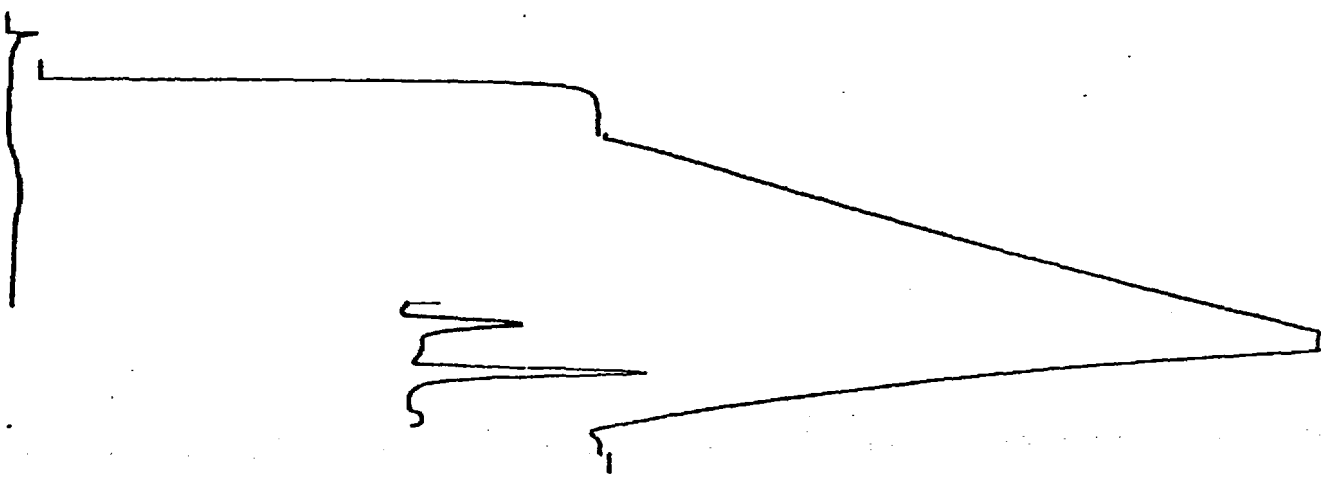


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WT = 117.5  
TMAX = 423 DEGREES C  
S1= +2.255E-02 SUM= +1.670E+02  
S2= +1.283E-01 SUM= +9.500E+02  
S3= +1.818E-01 SUM= +2.799E+03  
UNKNOWN

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GEOCOM ROCK EVAL II

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TCD ATTENUATION= 32

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100 350 550  
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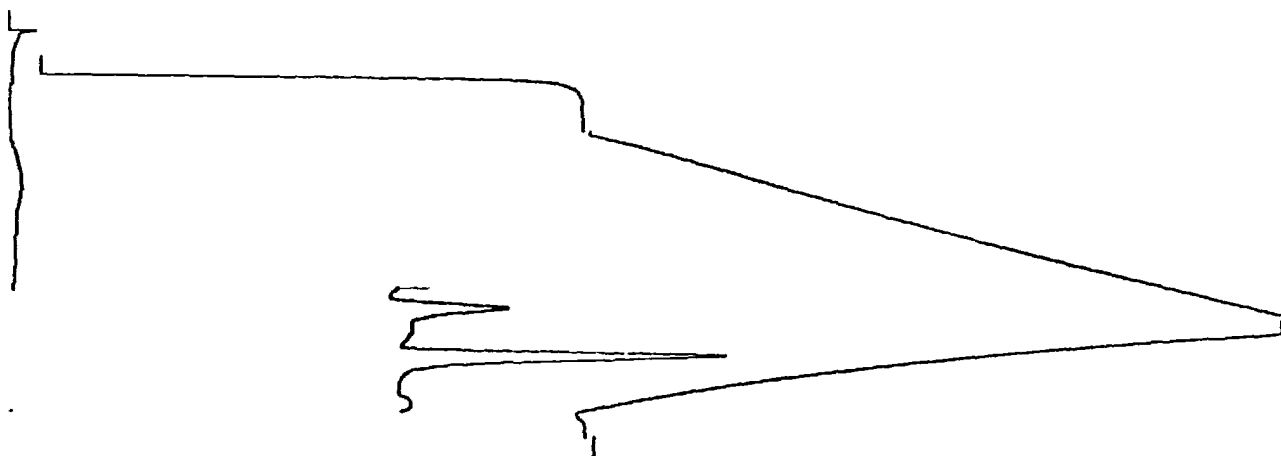


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WT = 121.7  
TMAX = 416 DEGREES C  
S1= +1.525E-02 SUM= +1.170E+02  
S2= +3.540E-02 SUM= +6.550E+02  
S3= +1.502E-01 SUM= +2.486E+03  
UNKNOWN

GEOCOM ROCK EVAL II

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TIME= 1831  
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FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
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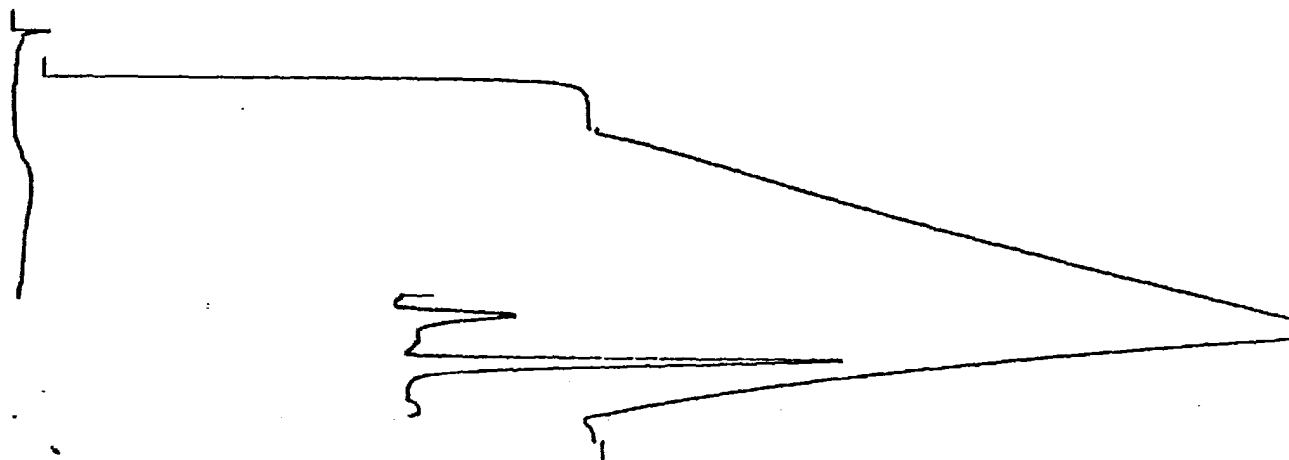


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WT = 120.0  
TMAX = 419 DEGREES C  
S1= +1.494E-02 SUM= +1.130E+02  
S2= +8.833E-02 SUM= +6.680E+02  
S3= +2.427E-01 SUM= +3.586E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 23, 1988  
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FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
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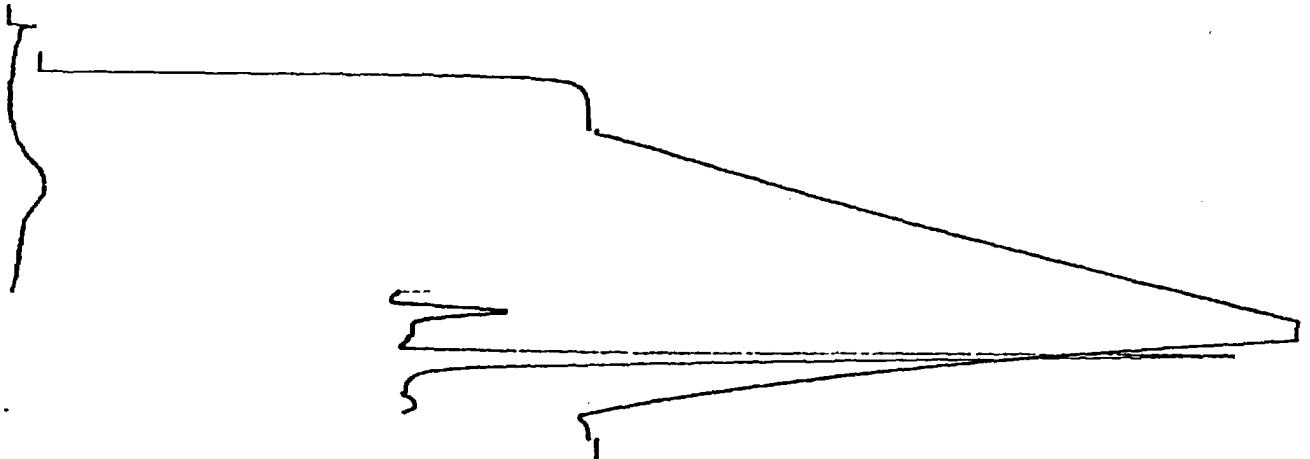


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WT = 120.0  
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S2= +1.848E-01 SUM= +1.398E+03  
S3= +3.399E-01 SUM= +4.769E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 23, 1988  
TIME= 1924  
ID= 007  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! ! !

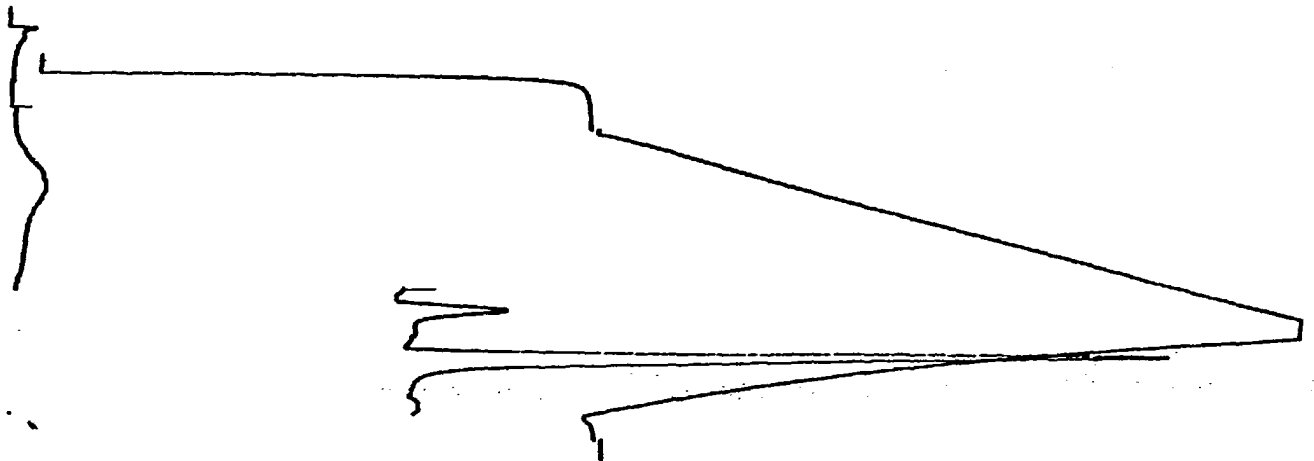


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WT = 120.7  
TMAX = 429 DEGREES C  
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S2= +3.544E-01 SUM= +2.696E+03  
S3= +7.174E-01 SUM= +9.416E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 23, 1988  
TIME= 1950  
ID= 008  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! ! !



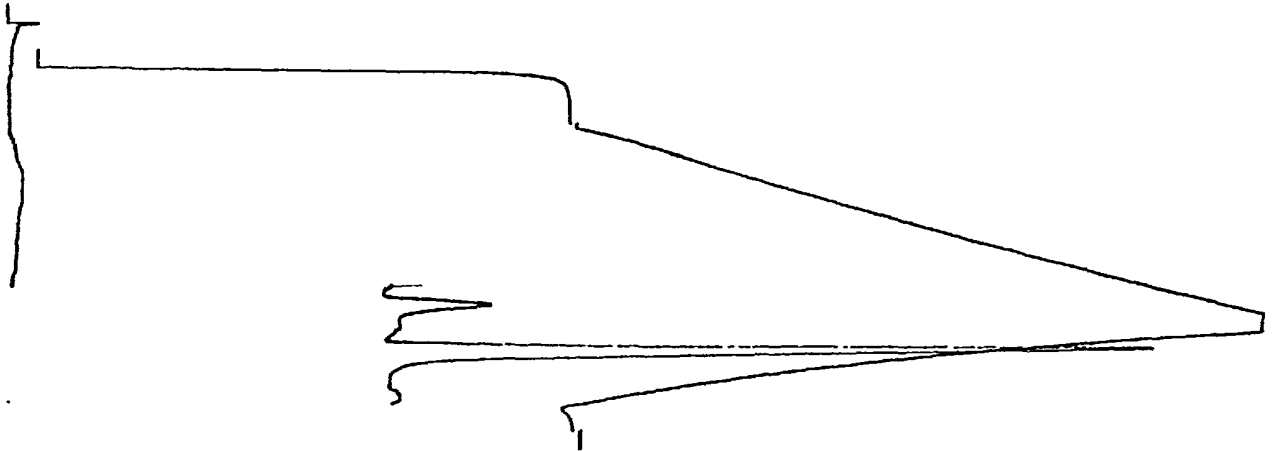
TOC = 0.92  
WT = 121.3  
TMAX = 432 DEGREES C  
S1= +2.995E-02 SUM= +2.290E+02  
S2= +3.458E-01 SUM= +2.644E+03  
S3= +6.589E-01 SUM= +8.779E+03



GEOCOM ROCK EVAL II

MAY 23, 1988  
TIME= 2016  
ID= 009  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! ! !

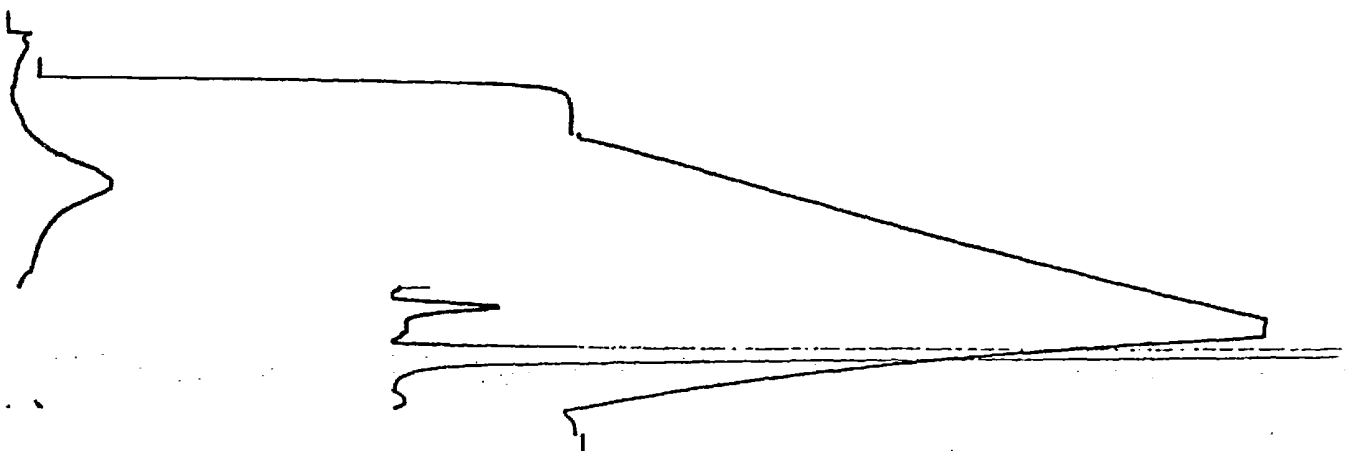


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WT = 120.9  
TMAX = 436 DEGREES C  
S1= +1.850E-02 SUM= +1.410E+02  
S2= +1.395E-01 SUM= +1.063E+03  
S3= +6.504E-01 SUM= +9.608E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 23, 1988  
TIME= 2043  
ID= 010  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! ! !



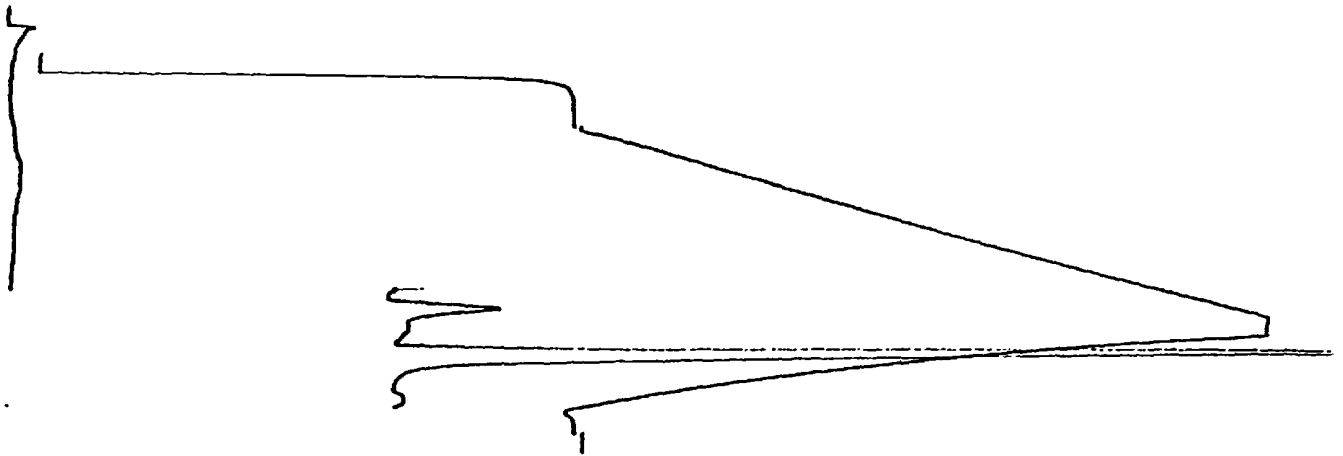
TOC = 1.98  
WT = 110.7  
TMAX = 430 DEGREES C  
S1= +6.390E-02 SUM= +4.780E+02  
S2= +1.074E+00 SUM= +8.034E+03  
S3= +1.707E+00 SUM= +1.111E+04

TIME= 2109  
ID= 011  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0%  
100

50%  
350

90%  
550



TOC = 0.57  
WT = 121.4  
TMAX = 418 DEGREES C  
S1= +3.516E-02 SUM= +2.690E+02  
S2= +1.266E-01 SUM= +9.690E+02  
S3= +9.412E-01 SUM= +1.222E+04  
UNKNOWN

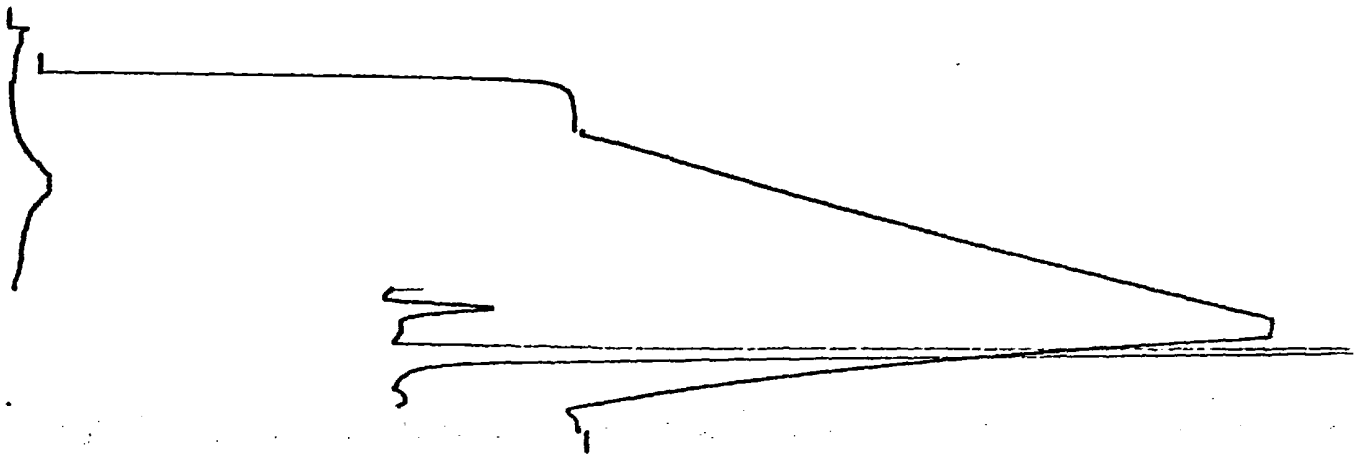
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TCD ATTENUATION= 32

0%  
100

50%  
350

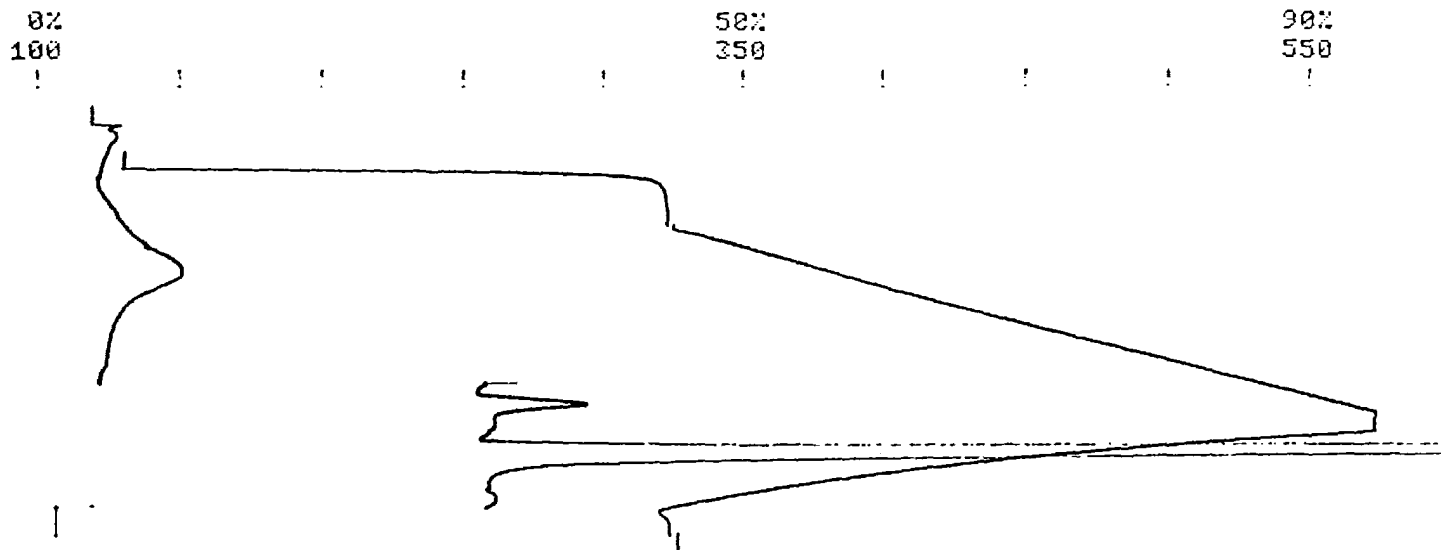
90%  
550



TOC = 1.00  
WT = 119.5  
TMAX = 428 DEGREES C  
S1= +2.921E-02 SUM= +2.200E+02  
S2= +3.849E-01 SUM= +2.899E+03  
S3= +1.191E+00 SUM= +1.507E+04  
UNKNOWN

GEOCOM ROCK EVAL II

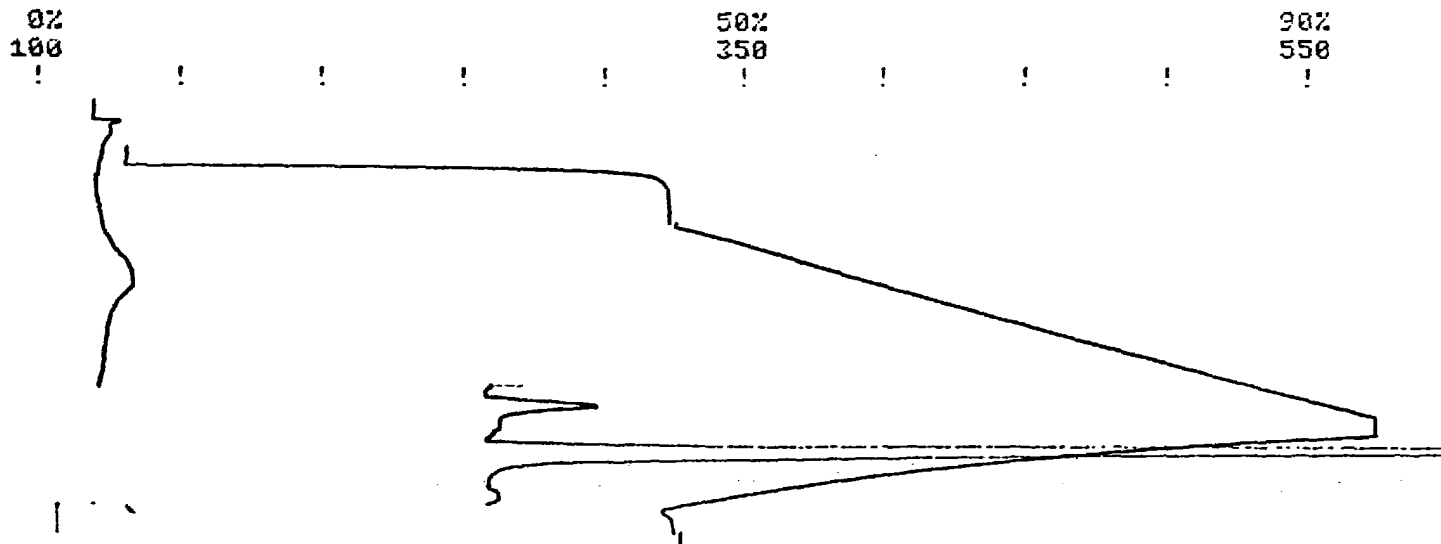
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TIME= 2202  
ID= 013  
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TOC = 1.28  
WT = 119.3  
TMAX = 424 DEGREES C  
S1= +9.084E-02 SUM= +6.838E+02  
S2= +8.847E-01 SUM= +6.652E+03  
S3= +2.265E+00 SUM= +2.805E+04  
UNKNOWN

GEOCOM ROCK EVAL II

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TIME= 2228  
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TCD ATTENUATION= 32

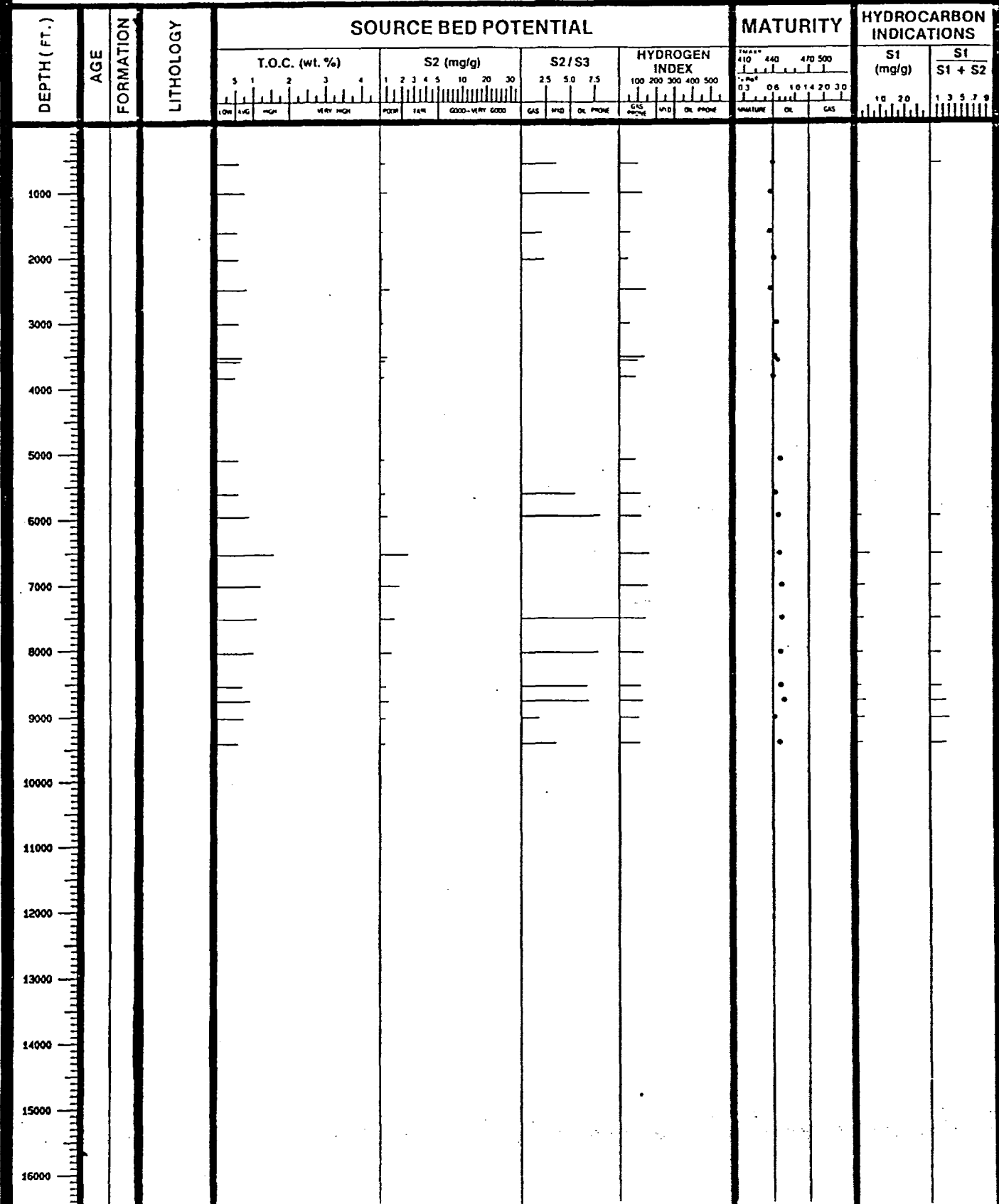


TOC = 1.08  
WT = 121.3  
TMAX = 427 DEGREES C  
S1= +4.500E-02 SUM= +3.440E+02  
S2= +3.812E-01 SUM= +2.914E+03  
S3= +1.473E+00 SUM= +1.875E+04



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**GEOCHEMICAL LOG**

WELL NAME: INISKIN BEAL #1



☐ CONGLOMERATE	▨ SHALE • SILTSTONE	⊗ HALITE	S1 = Free Hydrocarbons Present in Rock	S3 = CO <sub>2</sub> from Kerogen Pyrolysis
▨ SANDSTONE	▨ LIMESTONE	⊗ ANHYDRITE	S2 = Hydrocarbons from Kerogen Pyrolysis	Hydrogen Index = S2/T.O.C.
▨ COAL	▨ DOLOMITE	▨ IGNEOUS		
▨ CASING CEMENT	▨ CHERT	▨ VOLCANICS		

GEOCOM ROCK EVAL II

MAY 24, 1988

TIME= 1246

ID= 023

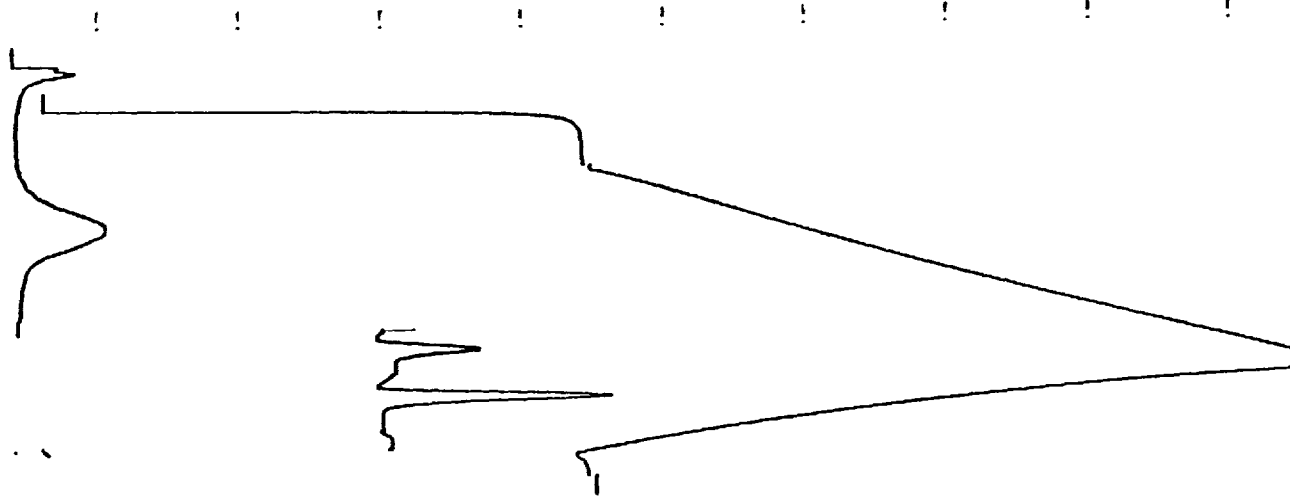
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TCD ATTENUATION= 32

0%  
100

50%  
350

90%  
550



TOC = 0.58

WT = 120.8

TMAX = 436 DEGREES C

S1= +9.539E-02 SUM= +7.720E+02

S2= +5.570E-01 SUM= +4.508E+03

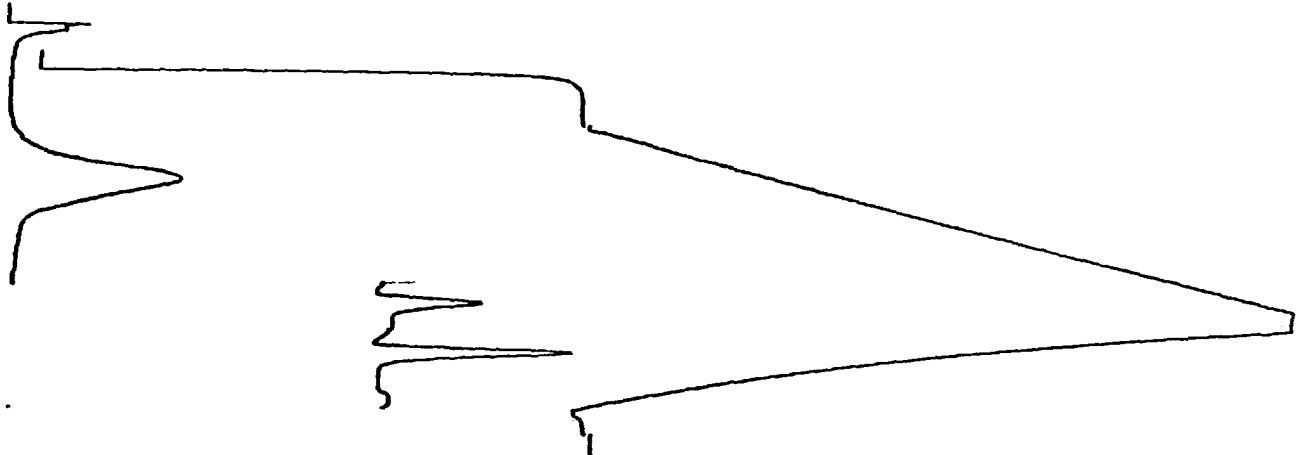
S3= +1.623E-01 SUM= +2.226E+03

MAY 24, 1988  
TIME= 1313  
ID= 024  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0%  
100

50%  
350

90%  
550



TOC = 0.75  
WT = 120.4  
TMAX = 434 DEGREES C  
S1= +7.860E-02 SUM= +6.340E+02  
S2= +9.006E-01 SUM= +7.264E+03  
S3= +1.263E-01 SUM= +1.803E+03  
UNKNOWN

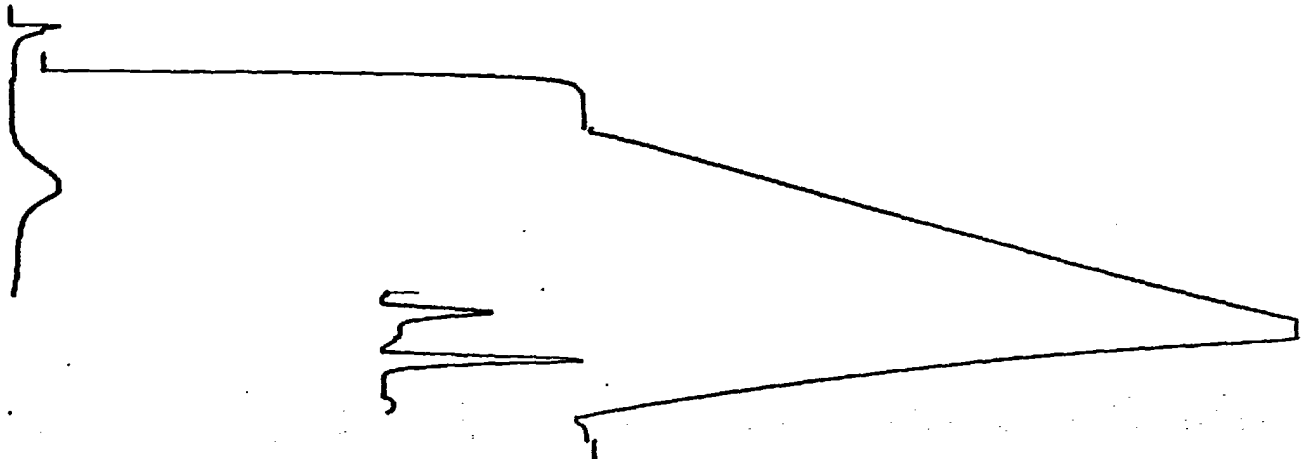
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GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1339  
ID= 025  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0%  
100

50%  
350

90%  
550



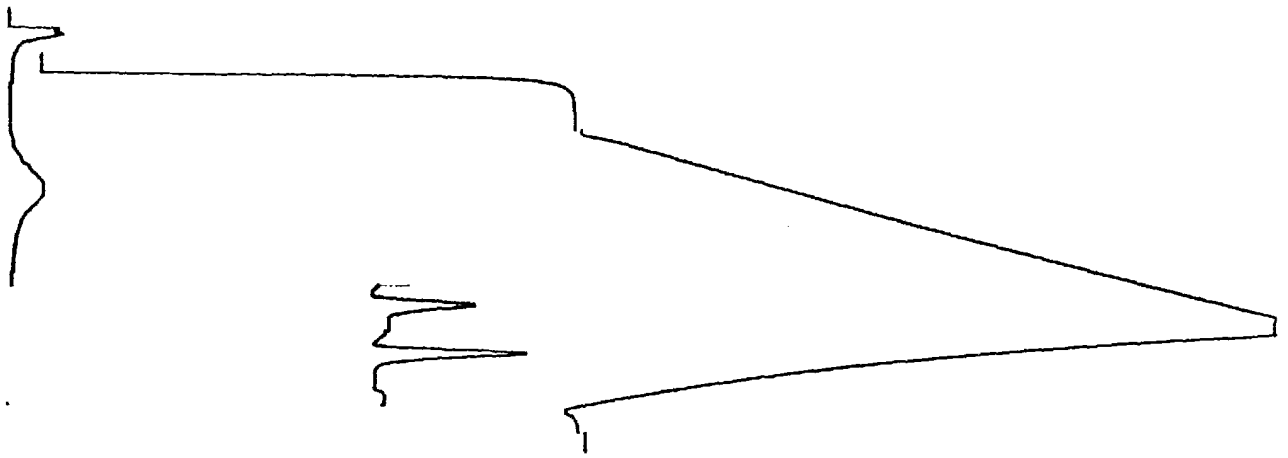
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WT = 120.8  
TMAX = 433 DEGREES C  
S1= +4.510E-02 SUM= +3.650E+02  
S2= +2.784E-01 SUM= +2.253E+03  
S3= +1.360E-01 SUM= +1.921E+03  
UNKNOWN

CMC Data Report 115

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1405  
ID= 026  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !



TOC = 0.55  
WT = 120.9  
TMAX = 438 DEGREES C  
S1= +7.433E-02 SUM= +6.020E+02  
S2= +2.244E-01 SUM= +1.818E+03  
S3= +9.623E-02 SUM= +1.460E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1431  
ID= 027  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !



TOC = 0.79  
WT = 123.4  
TMAX = 434 DEGREES C  
S1= +8.480E-02 SUM= +7.010E+02  
S2= +1.102E+00 SUM= +9.111E+03  
S3= +8.592E-02 SUM= +1.361E+03

GEOCOM ROCK EVAL II

MAY 24, 1988

TIME= 1458

ID= 028

FID ATTENUATION= 32

TCD ATTENUATION= 32

0%  
100

50%  
350

90%  
550



TOC = 0.56

WT = 124.2

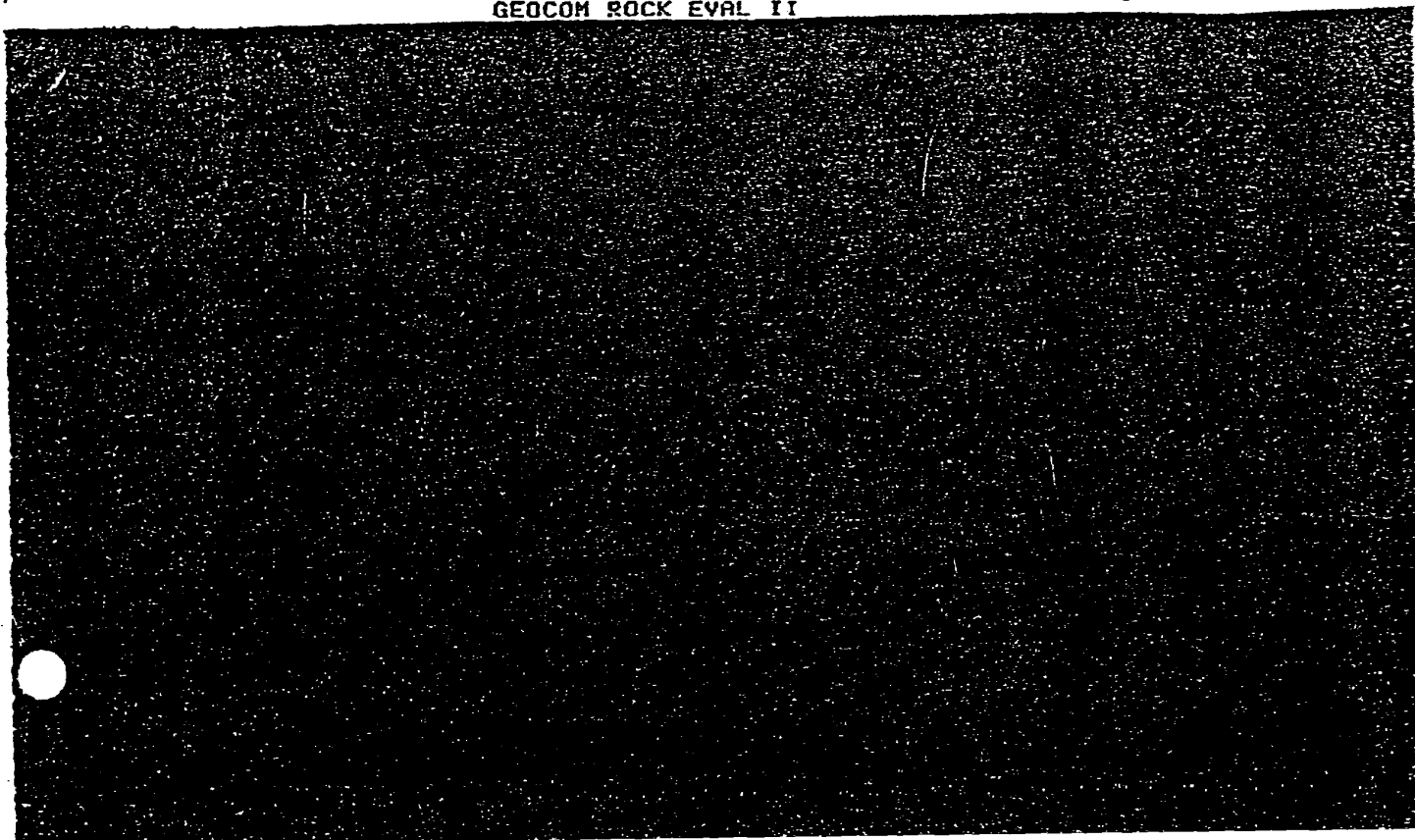
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S2= +2.799E-01 SUM= +2.329E+03

S3= +8.621E-02 SUM= +1.371E+03

UNKNOWN

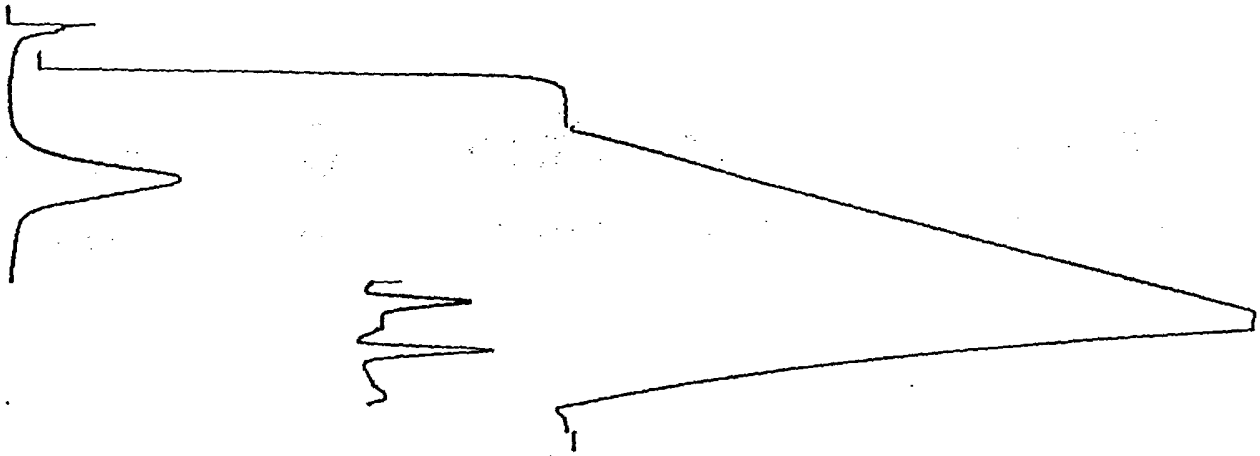




GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1743  
ID= 38029  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550



TOC = 0.66  
WT = 122.4  
TMAX = 438 DEGREES C  
S1= +8.422E-02 SUM= +6.800E+02  
S2= +8.674E-01 SUM= +7.003E+02  
S3= +7.552E-02 SUM= +1.101E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1809  
ID= 030  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

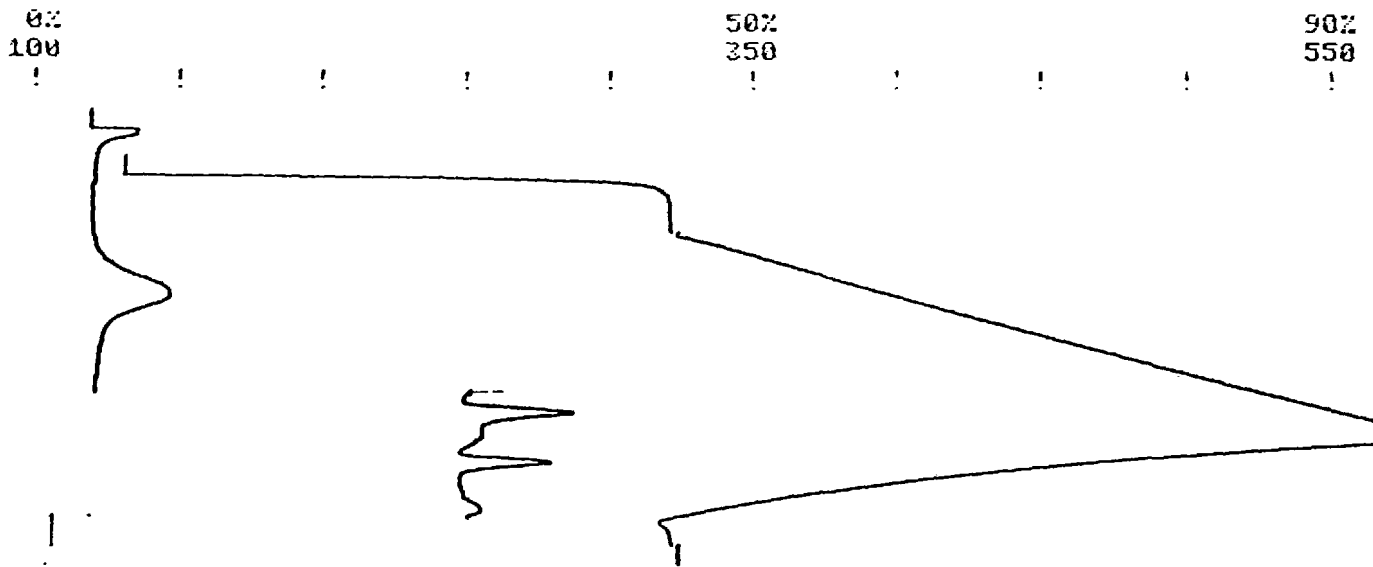
0% 50% 90%  
100 350 550



TOC = 0.46  
WT = 121.4  
TMAX = 436 DEGREES C  
S1= +4.945E-02 SUM= +3.960E+02  
S2= +3.803E-01 SUM= +3.046E+03  
S3= +4.767E-02 SUM= +1.101E+03

GEOCOM ROCK EVAL II

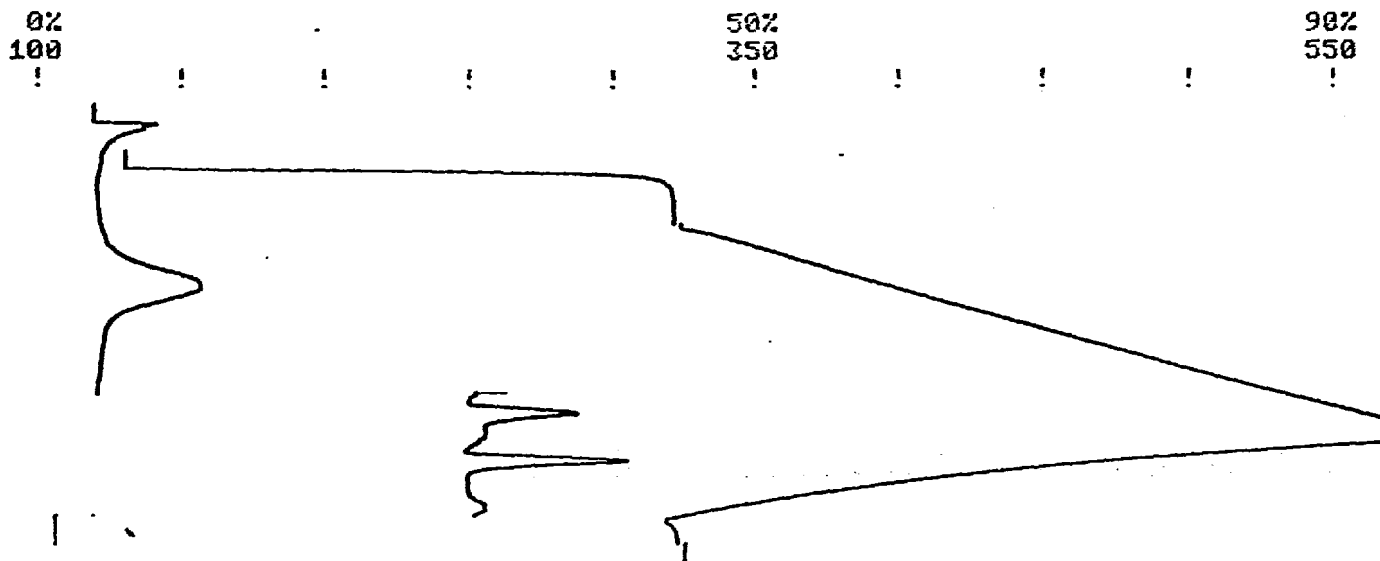
MAY 24, 1988  
TIME= 1835  
ID= 031  
FID ATTENUATION= 32  
TCD ATTENUATION= 32



TOC = 0.55  
WT = 120.0  
TMAX = 442 DEGREES C  
S1= +5.988E-02 SUM= +4.740E+02  
S2= +4.418E-01 SUM= +3.497E+03  
S3= +4.180E-02 SUM= +6.930E+02  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1902  
ID= 032  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

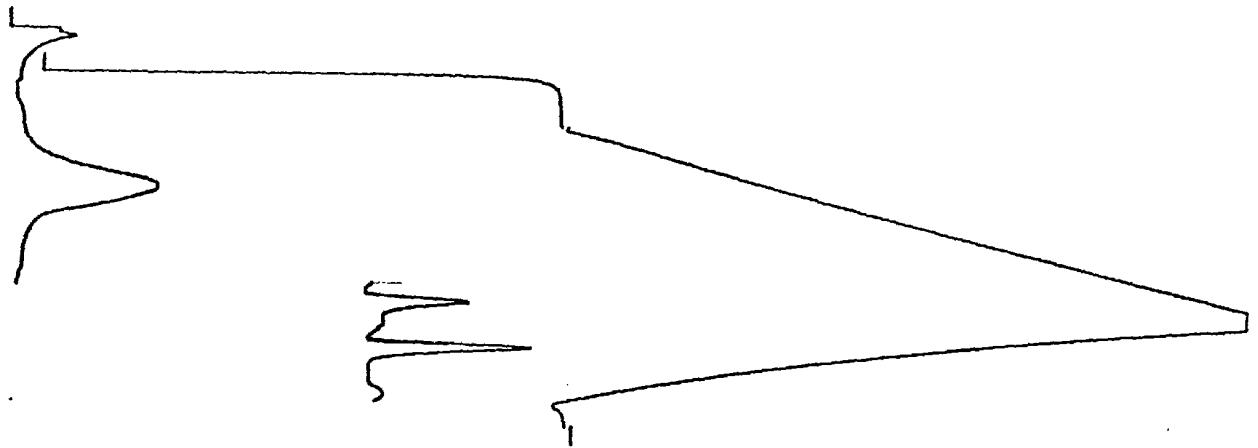


TOC = 0.55  
WT = 120.7  
TMAX = 438 DEGREES C  
S1= +9.458E-02 SUM= +7.530E+02  
S2= +5.916E-01 SUM= +4.710E+03

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1928  
ID= 033  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !

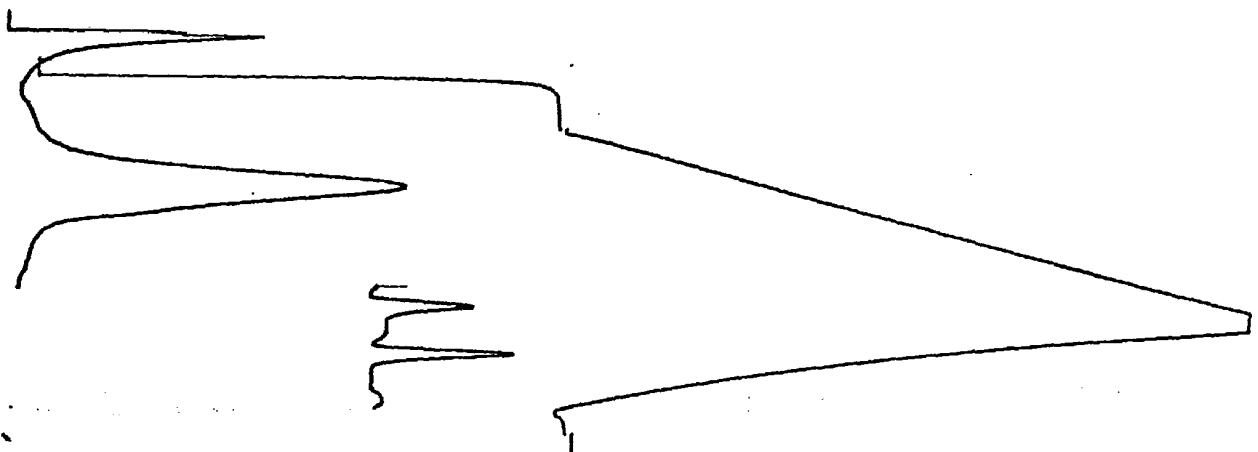


TOC = 0.85  
WT = 123.2  
TMAX = 440 DEGREES C  
S1= +1.533E-01 SUM= +1.246E+03  
S2= +9.620E-01 SUM= +7.818E+03  
S3= +1.193E-01 SUM= +1.628E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 1954  
ID= 034  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !

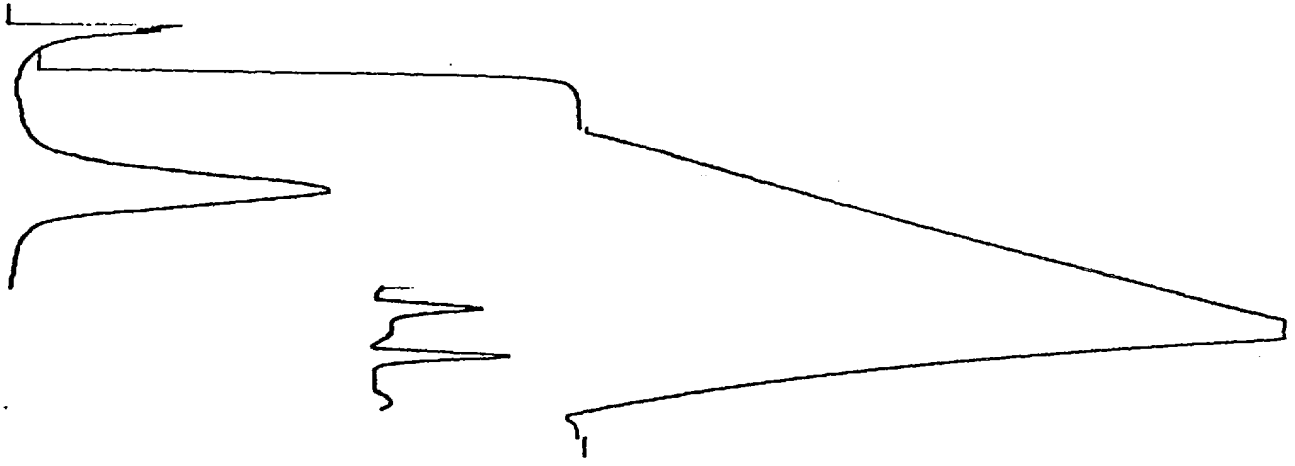


TOC = 1.55  
WT = 120.8  
TMAX = 441 DEGREES C  
S1= +4.995E-01 SUM= +3.980E+03  
S2= +2.411E+00 SUM= +1.921E+04  
S3= +8.985E-02 SUM= +1.247E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 2021  
ID= 035  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! ! !

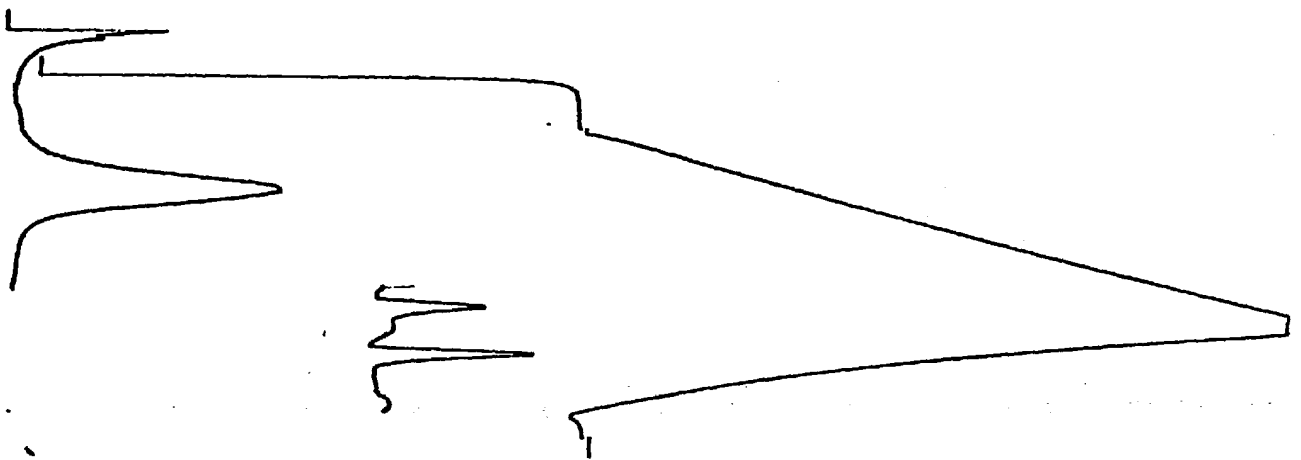


TOC = 1.18  
WT = 121.6  
TMAX = 443 DEGREES C  
S1= +3.099E-01 SUM= +2.485E+03  
S2= +1.755E+00 SUM= +1.407E+04  
S3= +7.662E-02 SUM= +1.108E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 2047  
ID= 036  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! ! !

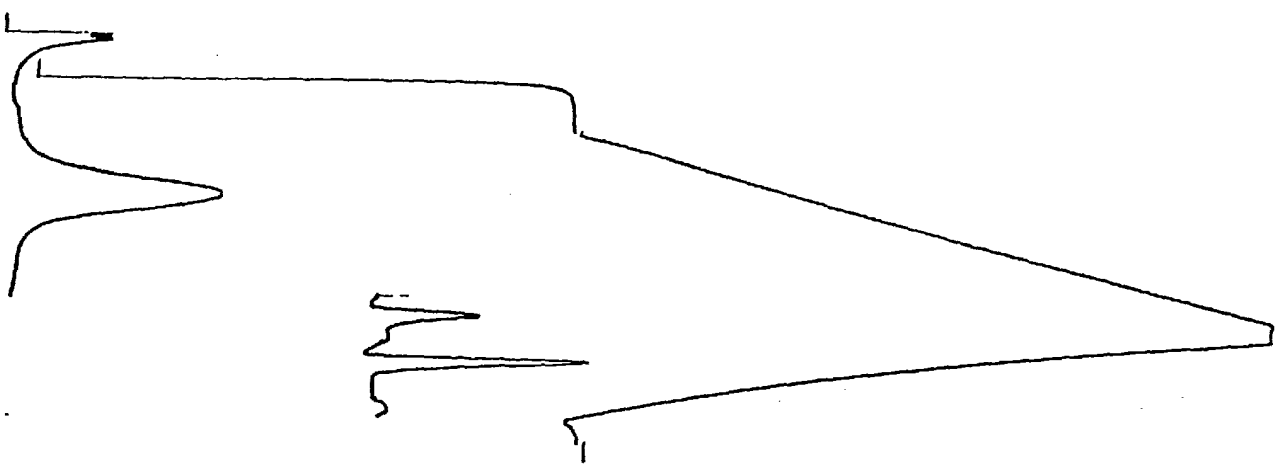


TOC = 1.07  
WT = 120.3  
TMAX = 443 DEGREES C  
S1= +2.383E-01 SUM= +1.891E+03  
S2= +1.441E+00 SUM= +1.143E+04  
S3= +1.013E-01 SUM= +1.391E+03

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 2113  
ID= 037  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !

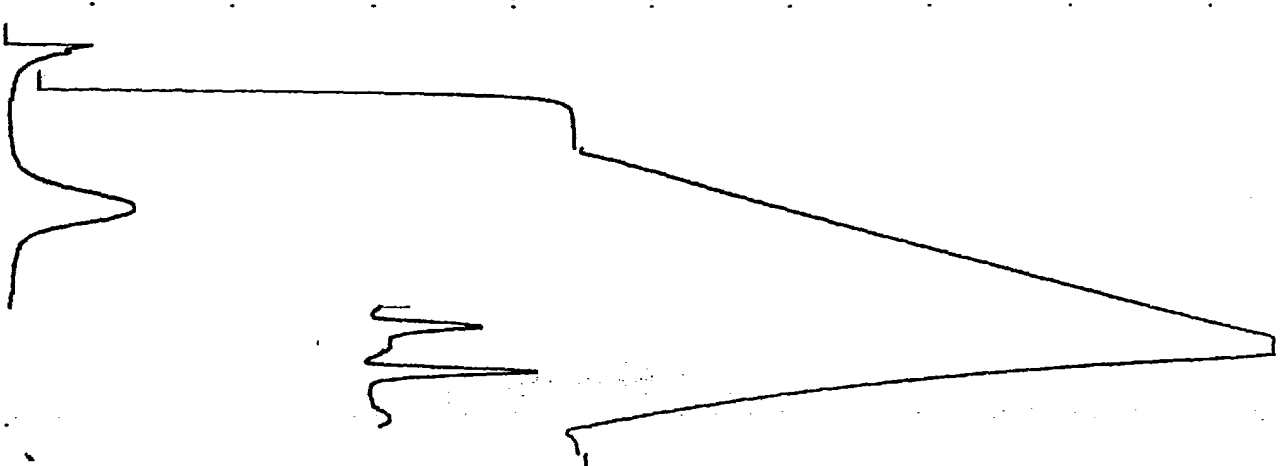


TOC = 0.99  
WT = 120.5  
TMAX = 442 DEGREES C  
S1= +2.247E-01 SUM= +1.786E+03  
S2= +1.245E+00 SUM= +9.898E+03  
S3= +1.604E-01 SUM= +2.074E+03  
UNKNOWN

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 2140  
ID= 038  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !

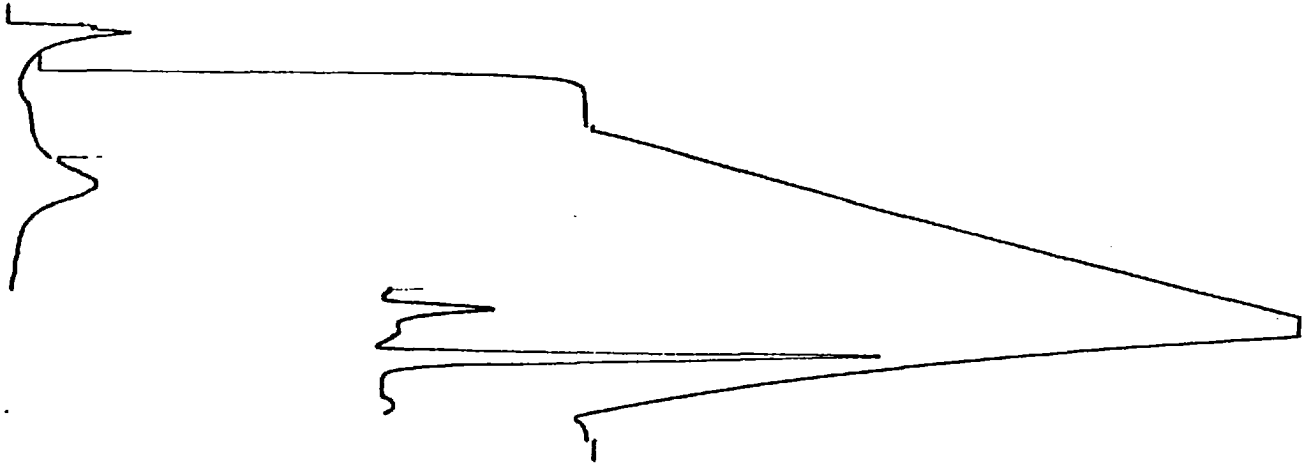


TOC = 0.67  
WT = 119.5  
TMAX = 442 DEGREES C  
S1= +1.409E-01 SUM= +1.111E+03  
S2= +7.292E-01 SUM= +5.748E+03  
S3= +1.120E-01 SUM= +1.501E+03

GEOCOM ROCK EVAL II

MAY 24, 1988  
TIME= 2206  
ID= 039  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !

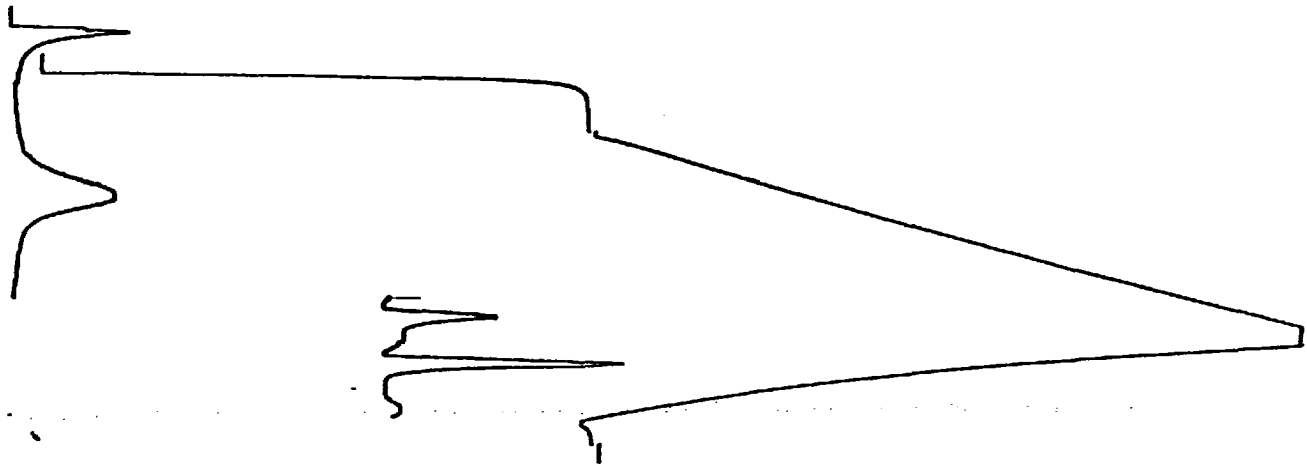


TOC = 0.70  
WT = 122.0  
TMAX = 437 DEGREES C  
S1= +2.809E-01 SUM= +2.261E+03  
S2= +6.889E-01 SUM= +5.544E+03  
S3= +4.156E-01 SUM= +5.102E+03  
UNKNOWN

GEOCOM ROCK EVAL II

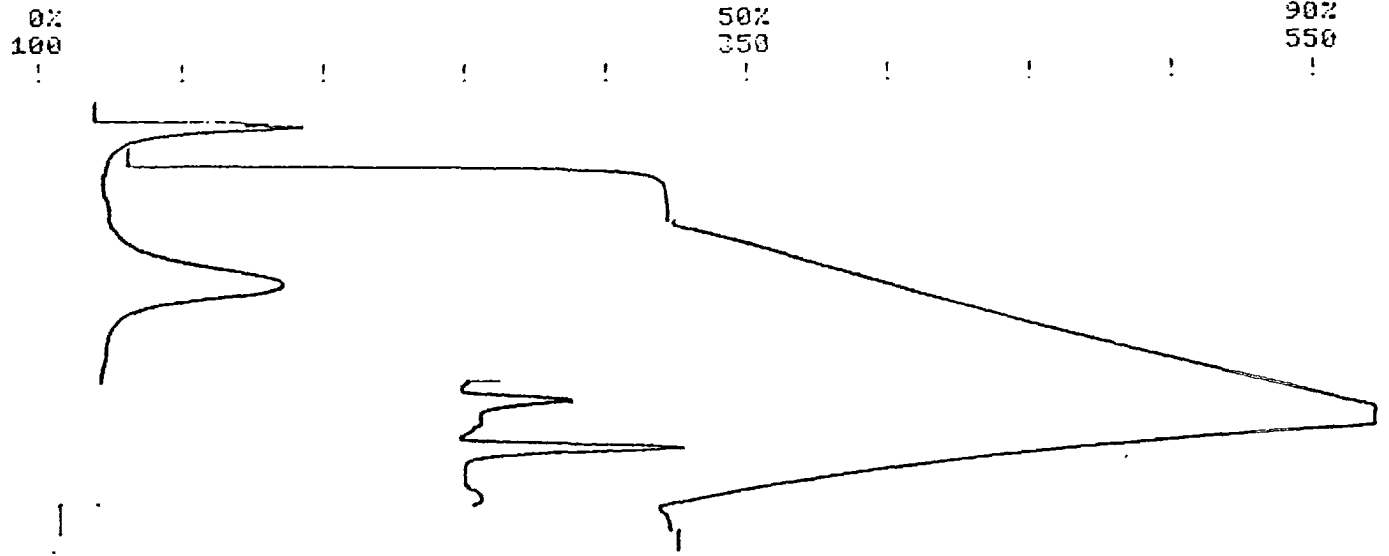
MAY 24, 1988  
TIME= 2232  
ID= 040  
FID ATTENUATION= 32  
TCD ATTENUATION= 32

0% 50% 90%  
100 350 550  
! ! ! ! ! ! ! ! !



TOC = 0.55  
WT = 120.5  
TMAX = 441 DEGREES C  
S1= +1.836E-01 SUM= +1.460E+03  
S2= +5.847E-01 SUM= +4.648E+03  
S3= +1.710E-01 SUM= +2.198E+03  
UNKNOWN

MAY 24, 1988  
TIME= 2258  
ID= 041  
FID ATTENUATION= 32  
TCD ATTENUATION= 32



TOC = 0.90  
WT = 122.5  
TMAX = 445 DEGREES C  
S1= +3.391E-01 SUM= +2.740E+03  
S2= +1.088E+00 SUM= +8.796E+03  
S3= +1.577E-01 SUM= +2.074E+03  
UNKNOWN

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