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POOR QUALITY

APPENDIX TO SCREENING REPORT OF WELL 34/7-4
 VITRINITE REFLECTANCE RESULTS

CLIENT/ OPPDRAGSGIVER			
Saga Petroleum a.s.			
PROJECT MANAGER/ PROSJEKTANSVARLIG			
Susannah Betts			
AUTHORS/ FORFATTERE			
L. Leith, S. Betts			
DATE/ DATO	REPORT NO./ RAPPORT NR.	NO. OF PAGES/ ANT. SIDER	NO. OF ENCLOSURES/ ANT. BILAG
15.5.85	22.1767.00/02/85	10	2



INSTITUTT FOR KONTINENTALSOKKELUNDERSØKELSER OG PETROLEUMSTEKNOLOGI A/S
 CONTINENTAL SHELF AND PETROLEUM TECHNOLOGY RESEARCH INSTITUTE LTD.

ARKIVET	
Nr.:	

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SUMMARY/SAMMENDRAG

Fifteen samples from well 34/7-4 were analyzed for vitrinite reflectance. Difficulties were encountered due to the poor content of measurable vitrinite in the samples. The most representative samples lie at 1922m, 1985m, 2044m, 2149m, 2291m and 2490m and have vitrinite reflectance values of between 0.39% and 0.45%, indicating thermal immaturity. In the remaining samples, the average vitrinite reflectance values are based on a very small number of readings and may reflect the presence of reworked material and/or mud additives such as lignite (2548m).

KEY WORDS

Maturity
34/7-4
Vitrinite reflectance
Fluorescence

STIKKORD

147/y/jbl/1



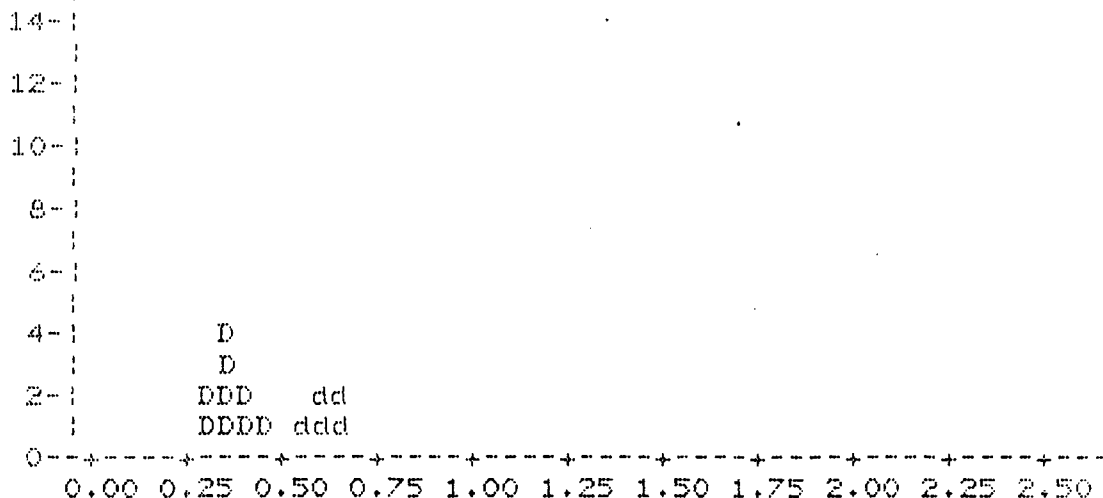
**MICROSCOPIC ANALYSIS -
REFLECTED LIGHT (NORMAL + U.V)**

Table no.: 1
Well no.: 34/7-4

IKU No.	Depth m	Dominant lithology	Ro value (%)	Popu- lation size	Dominant maceral type	Liptinities		Additive	Bitumen	Cave
						UV Fluorescence	Content			
SWC C-237	1922	Claystone	0.39	9	Reworked Vitrinite	3-4	Poor			
C-238	1985	Claystone	0.39	9	Reworked Vitrinite	3	Poor-Fair			
C-239	2044	Claystone	0.45	10	Reworked Vitrinite	-	Absent			
C-240	2099	Claystone	0.37	1	Reworked Vitrinite	-	Absent			
C-241	2149	Claystone/ Siltstone	0.45	13	Vitrinite	3	Trace			
C-242	2291	Claystone	0.45	15	Reworked Vitrinite	3-4	Poor			
C-244	2490	Claystone	0.44	16	Reworked	3-4	Poor	L?		
C-247	2518	Siltstone/ Sandstone	0.55	1	Reworked Vitrinite	4	Poor			
C-228	2540	Siltstone/ Claystone	0.80*	2	Inertinite/ Reworked Vitrinite	-	Absent	L?		
C-248	2542	Siltstone/ Marl	0.89*	2	Reworked Vitrinite	-	Absent			
C-232	2548	Sandstone/ Coal (Lignite)	0.30	20	Vitrinite	5-6	Trace	L?		
C-249	2562	Claystone	NDP	-	Reworked Vitrinite	5-7?	Trace			
C-252	2651	Claystone	0.56	1	Reworked Vitrinite	4-5	Trace			
C-254	2689	Claystone	0.35	1	Inertinite	5	Trace	L?		
C-256	2708	Sandstone	0.79*	2	Reworked Vitrinite	4	Trace			

NDP - No Determination Possible * - Probable Reworked Vitrinite
L? - Possible presence of lignite additive
147/D/jb1/1

IKU* C 237 1922.0M 34/7-4

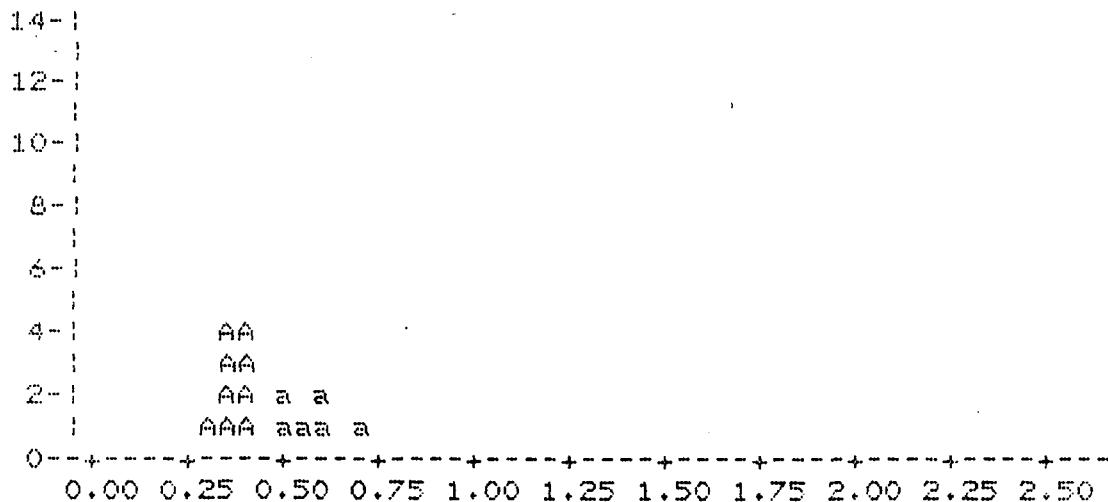


PP LOW HIGH LIT *VAL MEAN STDV
 Y 0.33 0.50 ALL 9 0.39 0.05
 N 0.55 0.69 ALL 5 0.62 0.05
 OVERALL 14 0.47 0.13

ORDERED VALUES FOLLOW:

0.33D 0.34D 0.35D 0.37D 0.38D 0.39D 0.41D 0.41D 0.49D 0.55d 0.60d
 0.61d 0.66d 0.68d

IKU* C 238 1985.0M 34/7-4

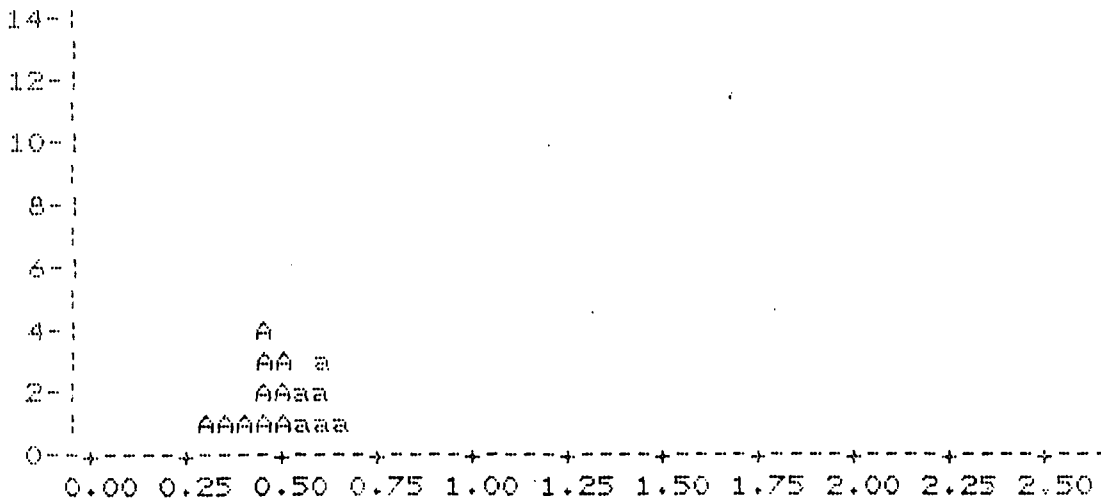


PP LOW HIGH LIT *VAL MEAN STDV
 Y 0.32 0.45 ALL 9 0.39 0.04
 N 0.51 0.71 ALL 6 0.59 0.07
 OVERALL 15 0.47 0.11

ORDERED VALUES FOLLOW:

0.32A 0.35A 0.37A 0.39A 0.39A 0.41A 0.42A 0.44A 0.44A 0.51a 0.52a
 0.58a 0.61a 0.64a 0.70a

IKU# C 239 2044.0M 34/7-4

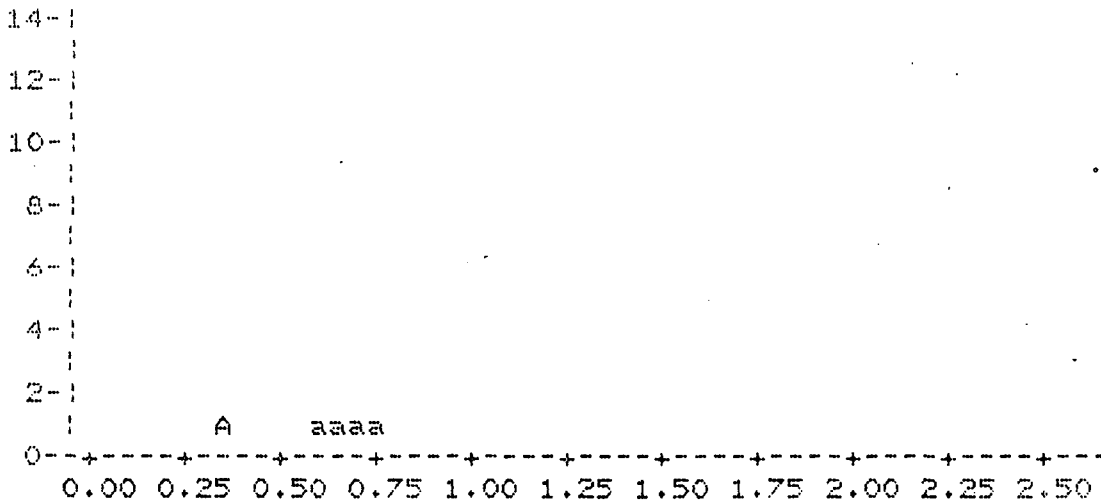


	PP	LOW	HIGH	LIT	#VAL	MEAN	STDV
Y	0.30	0.52	ALL	10	0.45	0.07	
N	0.55	0.66	ALL	6	0.60	0.04	
			OVERALL	16	0.50	0.10	

ORDERED VALUES FOLLOW:

0.30A 0.36A 0.41A 0.45A 0.46A 0.47A 0.48A 0.50A 0.51A 0.51A 0.55a
 0.57a 0.61a 0.62a 0.62a 0.65a

IKU# C 240 2099.0M 34/7-4

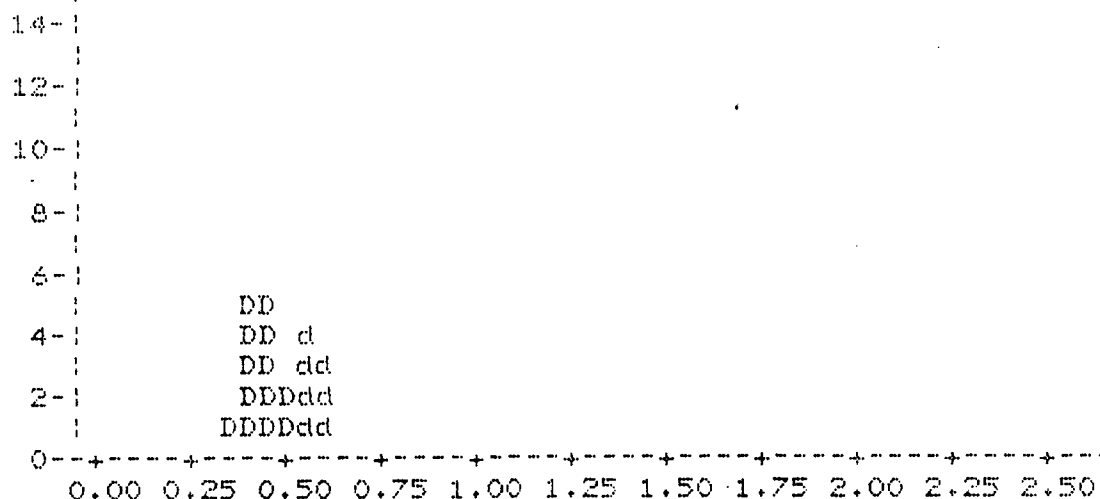


	PP	LOW	HIGH	LIT	#VAL	MEAN	STDV
Y	0.37	0.38	ALL	1	0.37	0.00	
N	0.60	0.76	ALL	4	0.68	0.06	
			OVERALL	5	0.62	0.15	

ORDERED VALUES FOLLOW:

0.37A 0.60a 0.67a 0.70a 0.75a

IKU* C 241 2149.0M 34/7-4

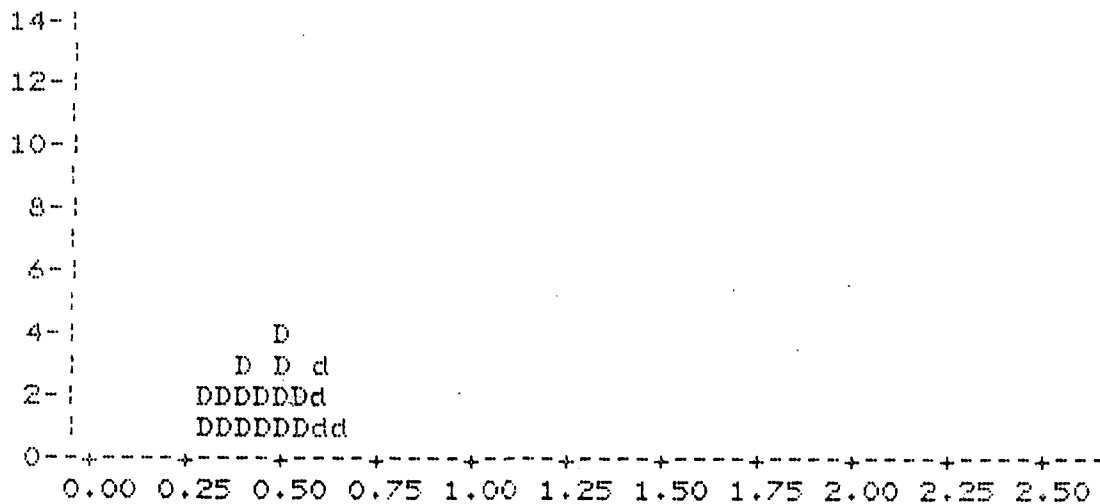


FP LOW HIGH LIT #VAL MEAN STDV
 Y 0.38 0.54 ALL 13 0.45 0.05
 N 0.55 0.64 ALL 7 0.59 0.03
 OVERALL 20 0.50 0.08

ORDERED VALUES FOLLOW:

0.38D 0.40D 0.41D 0.42D 0.42D 0.43D 0.45D 0.46D 0.48D 0.49D 0.49D
 0.53D 0.53D 0.55d 0.57d 0.57d 0.58d 0.60d 0.63d 0.63d

IKU* C 242 2291.0M 34/7-4

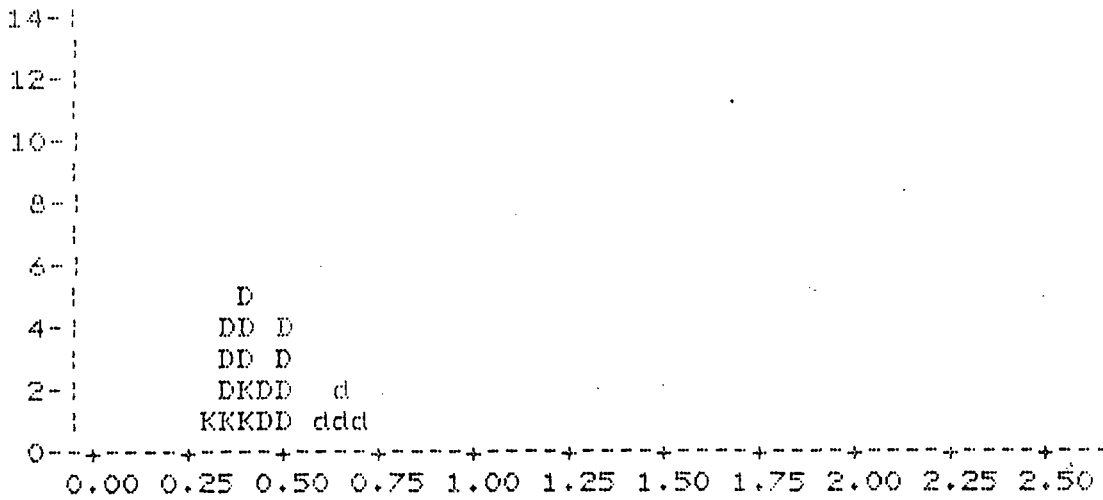


FP LOW HIGH LIT #VAL MEAN STDV
 Y 0.31 0.56 ALL 15 0.45 0.08
 N 0.60 0.70 ALL 4 0.64 0.04
 OVERALL 19 0.49 0.11

ORDERED VALUES FOLLOW:

0.31D 0.31D 0.36D 0.39D 0.41D 0.43D 0.44D 0.47D 0.49D 0.51D 0.51D
 0.53D 0.53D 0.55D 0.55D 0.60d 0.62d 0.64d 0.69d

IKU# C 244 2490.0M 34/7-4

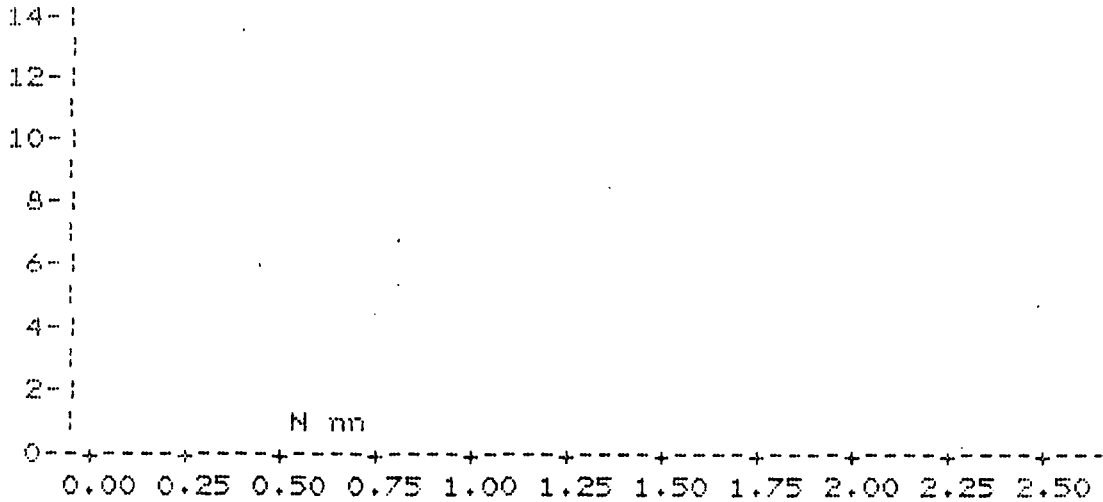


FP	LOW	HIGH	LIT	#VAL	MEAN	STDV
Y	0.34	0.55	ALL	16	0.44	0.07
N	0.60	0.74	ALL	4	0.66	0.05
OVERALL				20	0.48	0.11

ORDERED VALUES FOLLOW:

0.34K 0.35D 0.36D 0.38D 0.38K 0.40D 0.41K 0.43D 0.44D 0.44K 0.47D
 0.49D 0.50D 0.52D 0.52D 0.54D 0.60d 0.65d 0.66d 0.73d

IKU# C 247 2518.0M 34/7-4

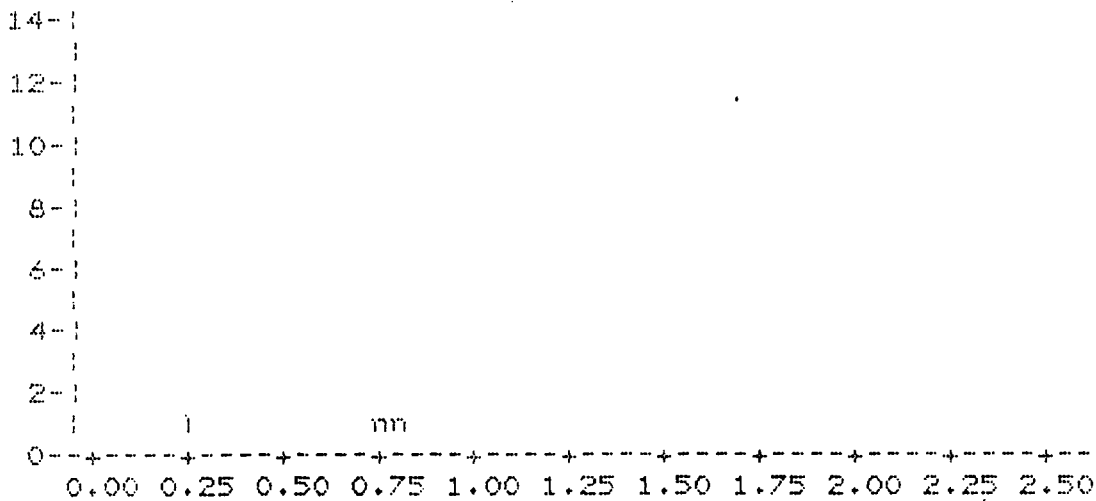


FP	LOW	HIGH	LIT	#VAL	MEAN	STDV
Y	0.55	0.56	ALL	1	0.55	0.00
N	0.67	0.71	ALL	2	0.69	0.02
OVERALL				3	0.64	0.08

ORDERED VALUES FOLLOW:

0.55N 0.67n 0.70n

IKU# C 228 2540.0M 34/7-4

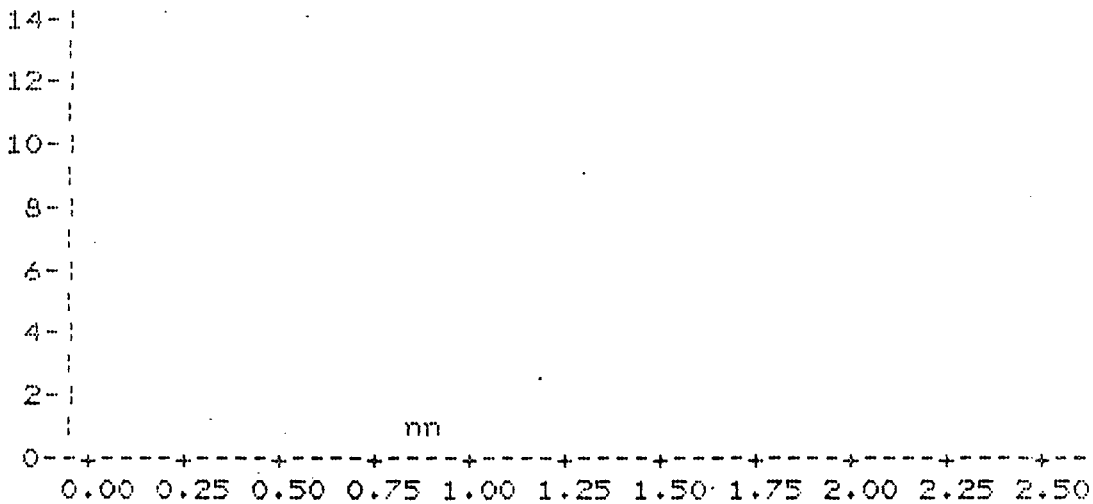


PP LOW HIGH LIT #VAL MEAN STDV
N 0.78 0.83 ALL 2 0.80 0.03
OVERALL 3 0.62 0.32

ORDERED VALUES FOLLOW:

0.25l 0.78n 0.82n

IKU# C 248 2542.0M 34/7-4

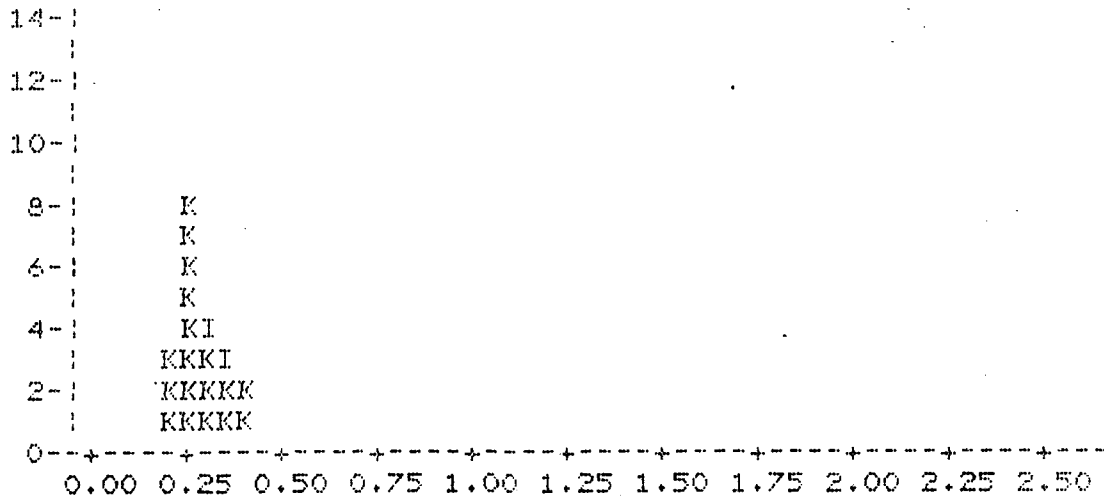


PP LOW HIGH LIT #VAL MEAN STDV
OVERALL 2 0.89 0.03

ORDERED VALUES FOLLOW:

0.87n 0.91n

IKU# C 232 2548.0M 34/7-4

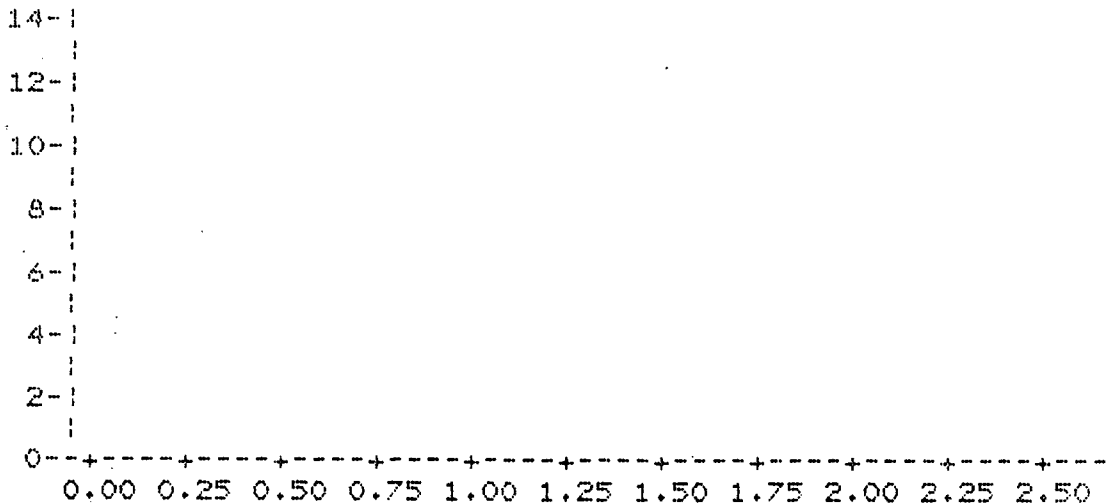


FP LOW HIGH LIT #VAL MEAN STDV
 Y 0.21 0.42 ALL 20 0.30 0.06
 OVERALL 20 0.30 0.06

ORDERED VALUES FOLLOW:

0.21K 0.22K 0.23K 0.25K 0.25K 0.26K 0.26K 0.27K 0.27K 0.29K 0.29K
 0.30K 0.31K 0.32I 0.33K 0.36K 0.39K 0.39I 0.40K 0.41K

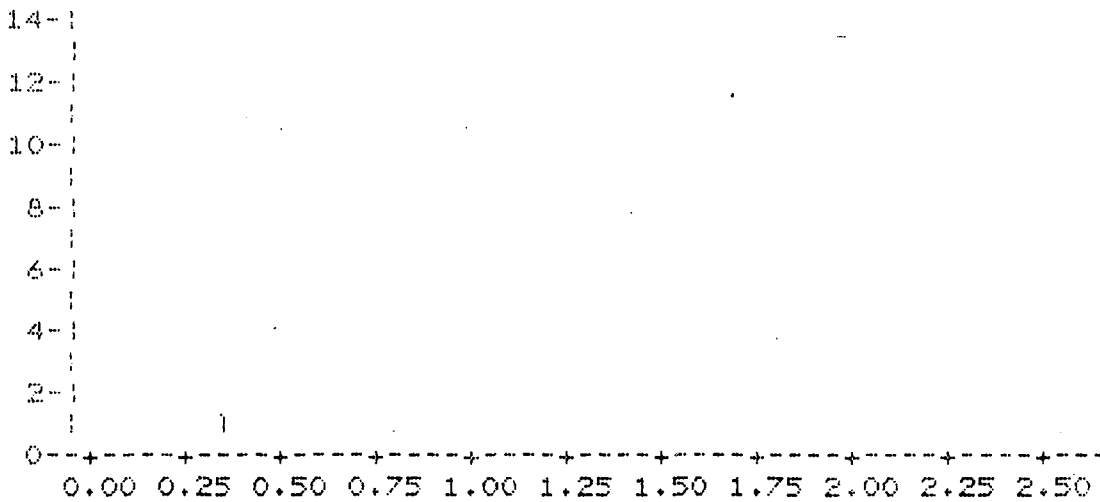
IKU# C 249 2562.0M 34/7-4



FP LOW HIGH LIT #VAL MEAN STDV
 OVERALL 0 0.00 0.00

ORDERED VALUES FOLLOW:

IKU# C 254 2689.0M 34/7-4

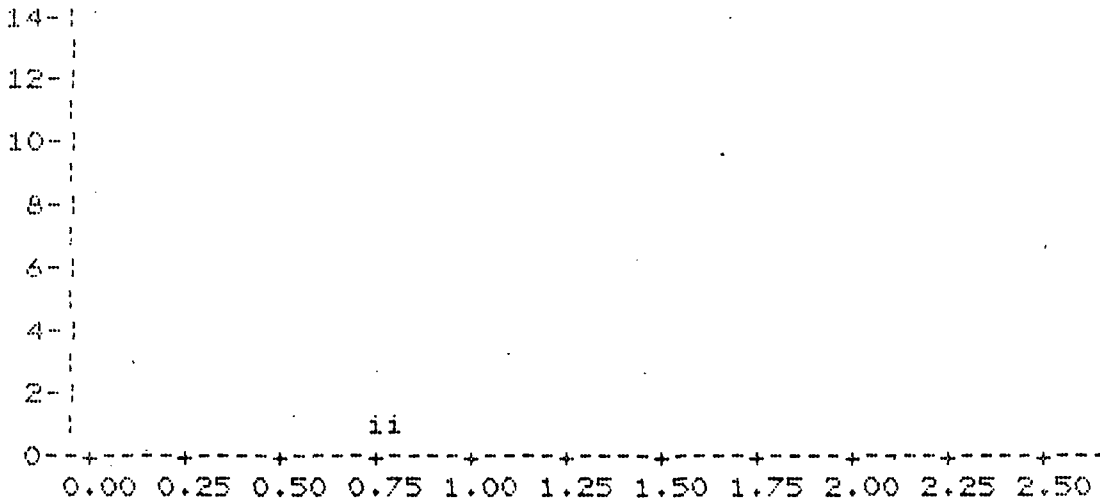


PP LOW HIGH LIT #VAL MEAN STDV
OVERALL 1 0.35 0.00

ORDERED VALUES FOLLOW:

0.35i

IKU# C 256 2708.0M 34/7-4



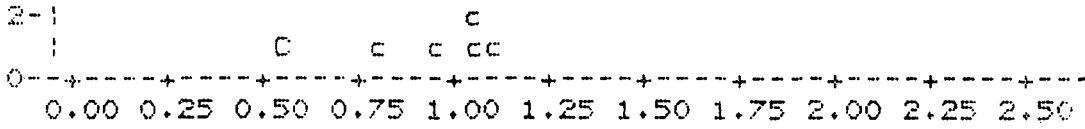
PP LOW HIGH LIT #VAL MEAN STDV
OVERALL 2 0.79 0.04

ORDERED VALUES FOLLOW:

0.76i 0.82i

IKU# C 252 2651.0M 34/7-4

14-
12-
10-
8-
6-
4-
2-
0-



PP	LOW	HIGH	LIT	#VAL	MEAN	STDV
Y	0.56	0.57	ALL	1	0.56	0.00
N	0.82	1.15	ALL	5	1.01	0.13
			OVERALL	6	0.93	0.22

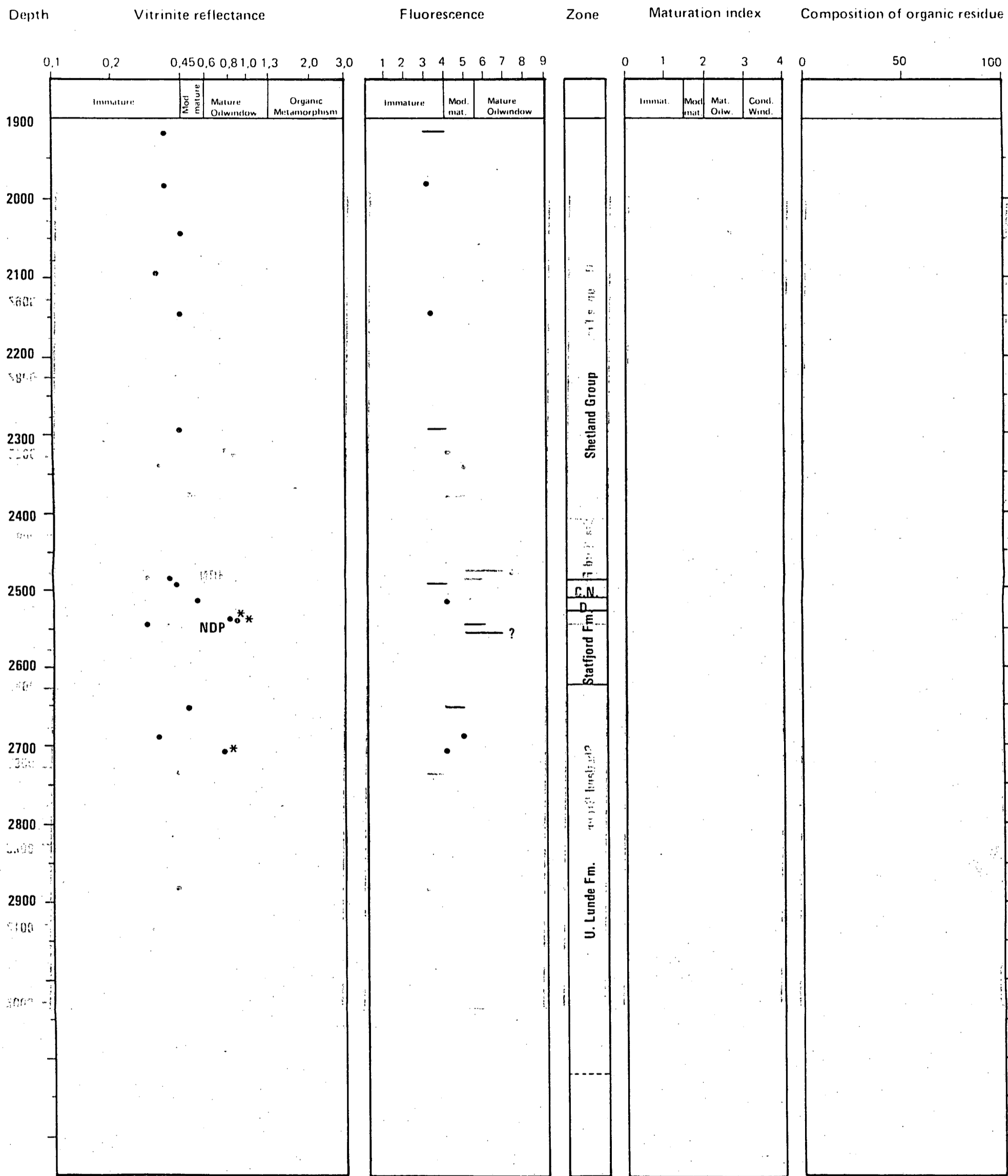
ORDERED VALUES FOLLOW:

0.56C 0.82c 0.95c 1.05c 1.09c 1.14c

Well no.: 34/7 - 4

Company: Saga Petroleum

VISUAL KEROGEN COLORATION AND COMPOSITION OF ORGANIC RESIDUE



* Probable reworked vitrinite

- | | | | |
|--|------------------------------|--|--|
| | Amorphous material, Sapropel | | Wood remains |
| | Algal | | Undifferentiated dispersed herbaceous material |
| | Spores and pollen | | Black coal fragments |
| | Cuticles | | |