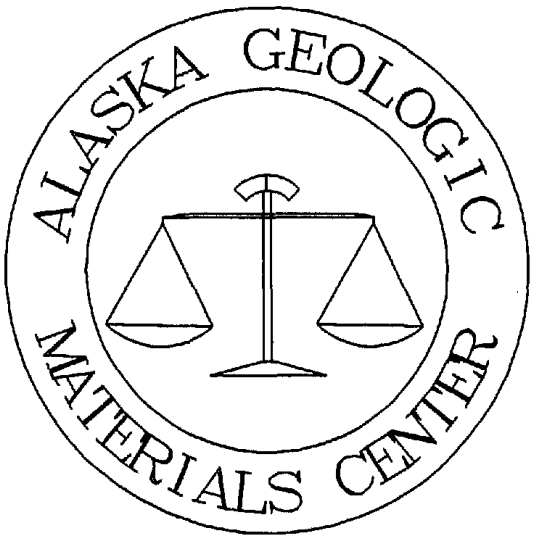
RockEval data from cuttings (580' - 11,060') and vitrinite reflectance maceral data from cuttings (1,890' - 11,060') of the Texaco Inc. West Kurupa Unit No. 1 well.



Received 20 October 1994

Total of 23 pages in report

Alaska Geologic Materials Center Data Report No. 235

Texaco West Kurupa No. 1

API No. 50-137-20001

Sec. 33, T. 6 S., R. 14 W.

RockEval Analysis by the U.S. Geological Survey, Branch of Petroleum Geology, Lakewood, CO

depth (ft)	spl wt.	T-Max	S1	S2	S3	PI	S2/S3	PC	TOC	HI	OI
600'- 580	118.6	434	0.09	0.6	0.7	0.13	0.85	0.05	0.92	65	76
1410'- 1380	78.4	435	0.14	0.89	1.19	0.14	0.74	0.08	1.39	64	85
2310'- 2290	102.1	432	0.23	1	2.35	0.19	0.42	0.1	1.45	68	162
2510'- 2490	102.7	430	0.19	1.03	2.02	0.16	0.5	0.1	1.7	60	118
2710'- 2690	103.4	436	0.15	0.86	1.81	0.15	0.47	0.08	1.76	48	102
3010'-2990	98.4	432	0.17	0.86	2.31	0.17	0.37	0.08	1.65	52	140
3260'-3240	118.9	431	0.16	0.82	2.22	0.16	0.36	0.08	1.62	50	137
3510'-3490	96.3	431	0.15	0.86	1.51	0.15	0.56	0.08	1.53	56	98
3760'-3740	142.7	422	0.18	2.17	1.51	0.08	1.43	0.19	1.94	111	77
4010'-3980	118.4	431	0.18	2.58	1.11	0.07	2.32	0.23	1.7	151	65
4360'-4340	151.8	430	0.13	0.92	0.81	0.12	1.13	0.08	1.07	85	75
4520'-4490	131.4	434	0.14	1.7	1.15	0.08	1.47	0.15	1.57	108	73
4760'-4740	143.3	431	0.23	1.64	1.25	0.12	1.31	0.15	1.69	97	73
5020'-4990	76.9	418	0.15	2.11	1.53	0.07	1.37	0.18	2.01	104	76
5260'-5240	79.6	428	0.18	1.46	1.25	0.11	1.16	0.13	1.67	87	74
5510'-5490	83.1	430	0.13	0.73	1.49	0.15	0.48	0.07	1.73	42	86
5750'-5730	66.2	422	0.18	2.08	1.38	0.08	1.5	0.18	2.13	97	64
6010'- 5980	60.1	418	0.11	1.23	1.49	0.08	0.82	0.11	1.78	69	83
6260'- 6240	124.6	456	0.2	0.81	1.7	0.2	0.47	0.08	1.63	49	104
6530'- 6500	95	456	0.16	0.64	1.32	0.2	0.48	0.06	1.59	40	83
6750'- 6730	117.3	462	0.15	0.57	1.26	0.21	0.45	0.06	1.26	45	100
7010'- 6980	71.4	456	0.18	0.53	1.14	0.26	0.46	0.05	1.27	41	89
7200'- 7180	142.3	452	0.18	0.78	1.09	0.19	0.71	0.08	1.53	50	71
7410'- 7380	107.7	471	0.15	0.47	1.02	0.24	0.46	0.05	1.38	34	73
7600'- 7570	148.5	491	0.16	0.45	1.21	0.27	0.37	0.05	1.35	33	89
8020'- 7990	112.7	499	0.14	0.42	0.72	0.25	0.58	0.04	1.06	39	67
8250'- 8230	152	471	0.14	0.48	0.75	0.23	0.64	0.05	1.2	40	62
8520'- 8490	143.2	504	0.13	0.43	0.57	0.23	0.75	0.04	1.03	41	55
8750'- 8730	163.9	498	0.15	0.74	0.56	0.17	1.32	0.07	1.07	69	52
9010'- 8980	160.7	496	0.23	0.72	0.58	0.24	1.24	0.07	1.05	68	55
9520'- 9490	116.1	510	0.12	0.56	0.65	0.18	0.86	0.05	0.96	58	67
10010'- 9990	160.4	500	0.13	0.54	0.53	0.2	1.01	0.05	1	54	53
10260'-10240	156.3	496	0.14	0.78	0.8	0.15	0.97	0.07	1.22	63	65
10510'-10480	131.5	428	0.21	1.06	0.73	0.17	1.45	0.1	1.38	76	52
10760'-10740	135.3	487	0.16	0.56	0.76	0.22	0.73	0.06	1.07	52	71
11060'-11028	164.1	501	0.2	0.65	0.57	0.24	1.14	0.07	1.24	52	45

U.S. Geological Survey
Branch of Petroleum Geology
345 Middlefield Road, MS 999
Menlo Park, California 94025

MEMORANDUM

DATE: 9 VI 93

TO: Ken Bird
FROM: Mark Pawlewicz Mark

Maceral vitrinite.
SUBJECT: Results of reflectance analysis, Texaco West Karupa #1.

The samples from the Texaco West Karupa #1 well, Alaska North Slope submitted for reflectance analysis have been completed and the results are presented.

The samples were processed by the crush and float method. For each sample approximately 20 grams were utilized for the concentration.

The samples exhibited a strong similarity in terms of amount and types of organic material (OM) present as a population of organic material persisted throughout a large segment of the samples in at least three situations. I would say that either the sampling method was weak or there was an extraordinary amount of caving throughout the entire borehole. The amount of OM repeated through multiple samples made the search for the indigenous OM quite time consuming.

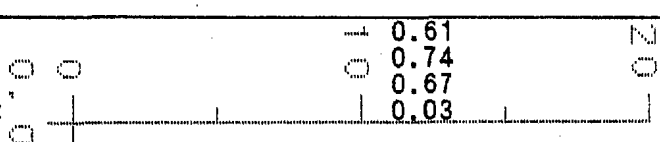
The OM ranged, in type, from solid bitumen to inertinite. There was abundant OM in all of the samples, but the diversity of OM overall, and the relative lack of indigenous material, made the selection of particles for measurement more difficult. The scheme for selection of OM for reading was modified for these samples due to the amount of up-hole contamination. Usually with cuttings the perceived modal population is measured. For this borehole the highest non-recycled material was measured. Adherence to the other method would have resulted in a near-vertical trend line for the entire sample set due, again, to the amount of cavings material. Discriminating between indigenous and recycled OM required serious consideration.

Overall the samples were good, but difficult. I believe the percent composition of organic material for these samples will push

the rock-eval results towards lower values. A subjective estimate of the indigenous and recycled material per sample is no more than 15 percent for any sample; the balance of OM was the lower maturity cavings. Solid bitumen was uncommon in about 6 samples, and absent in the remainder.

Any questions should be directed to me at 8 303 236-5734.

File Name: 93026005
Channel Name: Alaska
Description: 93 26-5 Alaska North Slope Texaco W. Karupa #1 1,890-910'
Comment 1: Very good sample. Abundant organics, very consistent.
Comment 2: Very little recycled material. Easy scan.
Comment 3:
Comment 4:
Comment 5:
Comment 6:



	Meas1	Meas2	Ratio	Conc.
Min:	0.61			
Max:	0.74			
Mean:	0.67			
StDev:	0.03			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.68			
2				0.62			
3				0.68			
4				0.66			
5				0.71			
6				0.70			
7				0.64			
8				0.66			
9				0.68			
10				0.67			
11				0.63			
12				0.63			
13				0.68			
14				0.62			
15				0.69			
16				0.68			
17				0.68			
18				0.67			
19				0.67			
20				0.66			
21				0.62			
22				0.70			
23				0.62			
24				0.70			
25				0.62			
26				0.72			
27				0.74			
28				0.64			
29				0.61			
30				0.64			
31				0.62			
32				0.63			
33				0.66			
34				0.63			
35				0.71			
36				0.68			
37				0.65			
38				0.69			
39				0.71			
40				0.68			
41				0.64			
42				0.62			
43				0.71			
44				0.68			
45				0.73			
46				0.68			
47				0.66			
48				0.65			
49				0.65			
50				0.70			
51				0.67			

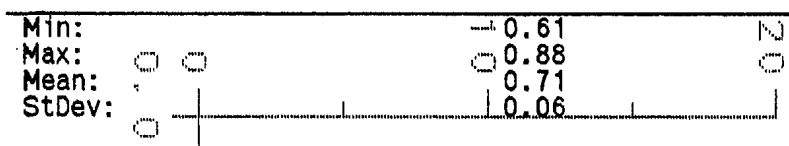
File Name: 93026007
Channel Name: Alaska
Description: 93 26-7 Alaska North Slope Texaco W. Karupa #1 2,490-510'
Comment 1: Very good sample. Abundant organics, fairly consistent.
Comment 2: About 10% high rank recycled pieces.
Comment 3:
Comment 4:
Comment 5:
Comment 6:

Frequency

	Meas1	Meas2	Ratio	Conc.
Min:	0.61			
Max:	0.77			
Mean:	0.69			
StDev:	0.04			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.64			
2				0.68			
3				0.71			
4				0.67			
5				0.71			
6				0.72			
7				0.63			
8				0.74			
9				0.70			
10				0.72			
11				0.61			
12				0.65			
13				0.71			
14				0.75			
15				0.72			
16				0.64			
17				0.68			
18				0.71			
19				0.72			
20				0.71			
21				0.70			
22				0.66			
23				0.69			
24				0.71			
25				0.66			
26				0.73			
27				0.72			
28				0.64			
29				0.69			
30				0.70			
31				0.71			
32				0.69			
33				0.68			
34				0.77			
35				0.72			

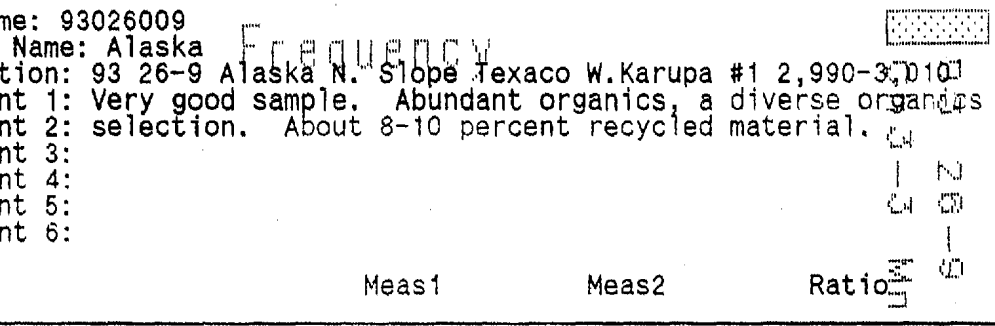
File Name: 93026008
Channel Name: Alaska
Description: 93 26-8 Alaska North Slope Texaco W. Karupa #1 2,690-710'
Comment 1: Very good sample. Abundant organics, a diverse organics
Comment 2: selection. About 12-15 percent recycled material.
Comment 3:
Comment 4:
Comment 5:
Comment 6:



	Meas1	Meas2	Ratio	Conc.
Min:	0.61			
Max:	0.88			
Mean:	0.71			
StDev:	0.06			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.67			
2				0.78			
3				0.68			
4				0.75			
5				0.74			
6				0.68			
7				0.72			
8				0.70			
9				0.75			
10				0.67			
11				0.67			
12				0.78			
13				0.68			
14				0.78			
15				0.65			
16				0.65			
17				0.65			
18				0.67			
19				0.61			
20				0.70			
21				0.62			
22				0.68			
23				0.71			
24				0.64			
25				0.72			
26				0.65			
27				0.78			
28				0.81			
29				0.80			
30				0.69			
31				0.63			
32				0.66			
33				0.88			
34				0.83			
35				0.74			
36				0.65			
37				0.65			
38				0.71			
39				0.78			
40				0.78			
41				0.70			

File Name: 93026009
Channel Name: Alaska
Description: 93 26-9 Alaska N. Slope Texaco W.Karupa #1 2,990-3,010
Comment 1: Very good sample. Abundant organics, a diverse organics
Comment 2: selection. About 8-10 percent recycled material.
Comment 3:
Comment 4:
Comment 5:
Comment 6:



	Meas1	Meas2	Ratio	Conc.
Min:	0.67			
Max:	0.88			
Mean:	0.77			
StDev:	0.07			

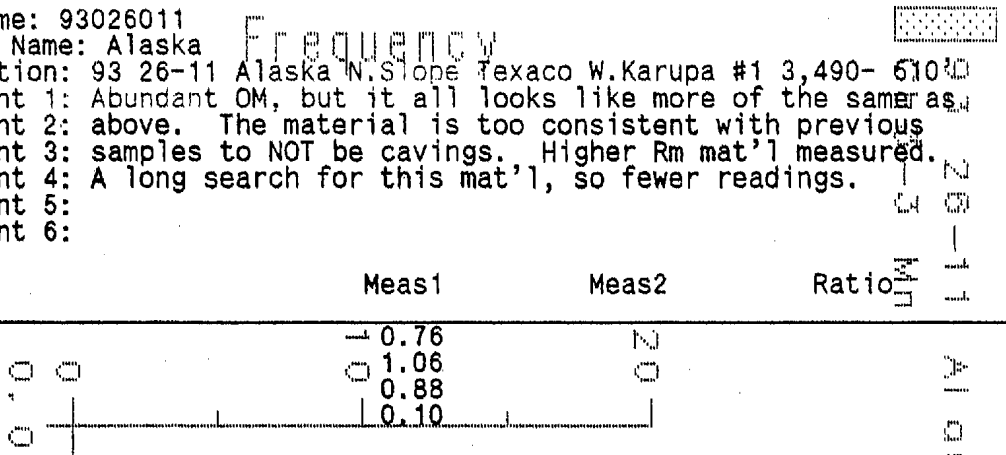
Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.67			
2				0.67			
3				0.68			
4				0.73			
5				0.71			
6				0.86			
7				0.87			
8				0.72			
9				0.77			
10				0.76			
11				0.80			
12				0.73			
13				0.70			
14				0.74			
15				0.86			
16				0.88			
17				0.78			
18				0.67			
19				0.67			
20				0.78			
21				0.79			
22				0.70			
23				0.73			
24				0.87			
25				0.77			
26				0.77			
27				0.77			
28				0.81			
29				0.87			
30				0.77			
31				0.83			
32				0.73			
33				0.69			
34				0.88			
35				0.81			

File Name: 93026010
Channel Name: Alaska
Description: 93 26-10 Alaska N.Slope Texaco W.Karupa #1 3,240- 260'
Comment 1: Abundant organics, but very diverse. Some obviously
Comment 2: recycled mat'l, but additional higher rank OM
Comment 3: that looks indigenous. Intermediate rank OM is most
Comment 4: common, but is probably cavings material.
Comment 5:
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	0.73			
Max:	1.04			
Mean:	0.83			
StDev:	0.09			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.82			
2				0.81			
3				0.90			
4				0.77			
5				0.73			
6				0.82			
7				0.82			
8				0.78			
9				0.74			
10				0.94			
11				0.74			
12				0.78			
13				0.80			
14				0.86			
15				1.04			
16				0.78			
17				0.75			
18				0.84			
19				0.95			
20				1.01			
21				0.80			
22				0.98			
23				0.74			
24				0.73			
25				0.83			

File Name: 93026011
Channel Name: Alaska
Description: 93 26-11 Alaska N.Slope Texaco W.Karupa #1 3,490- 610
Comment 1: Abundant OM, but it all looks like more of the same as
Comment 2: above. The material is too consistent with previous
Comment 3: samples to NOT be cavings. Higher Rm mat'l measured.
Comment 4: A long search for this mat'l, so fewer readings.
Comment 5:
Comment 6:



	Meas1	Meas2	Ratio	Conc.
Min:	0.76			
Max:	1.06			
Mean:	0.88			
StDev:	0.10			

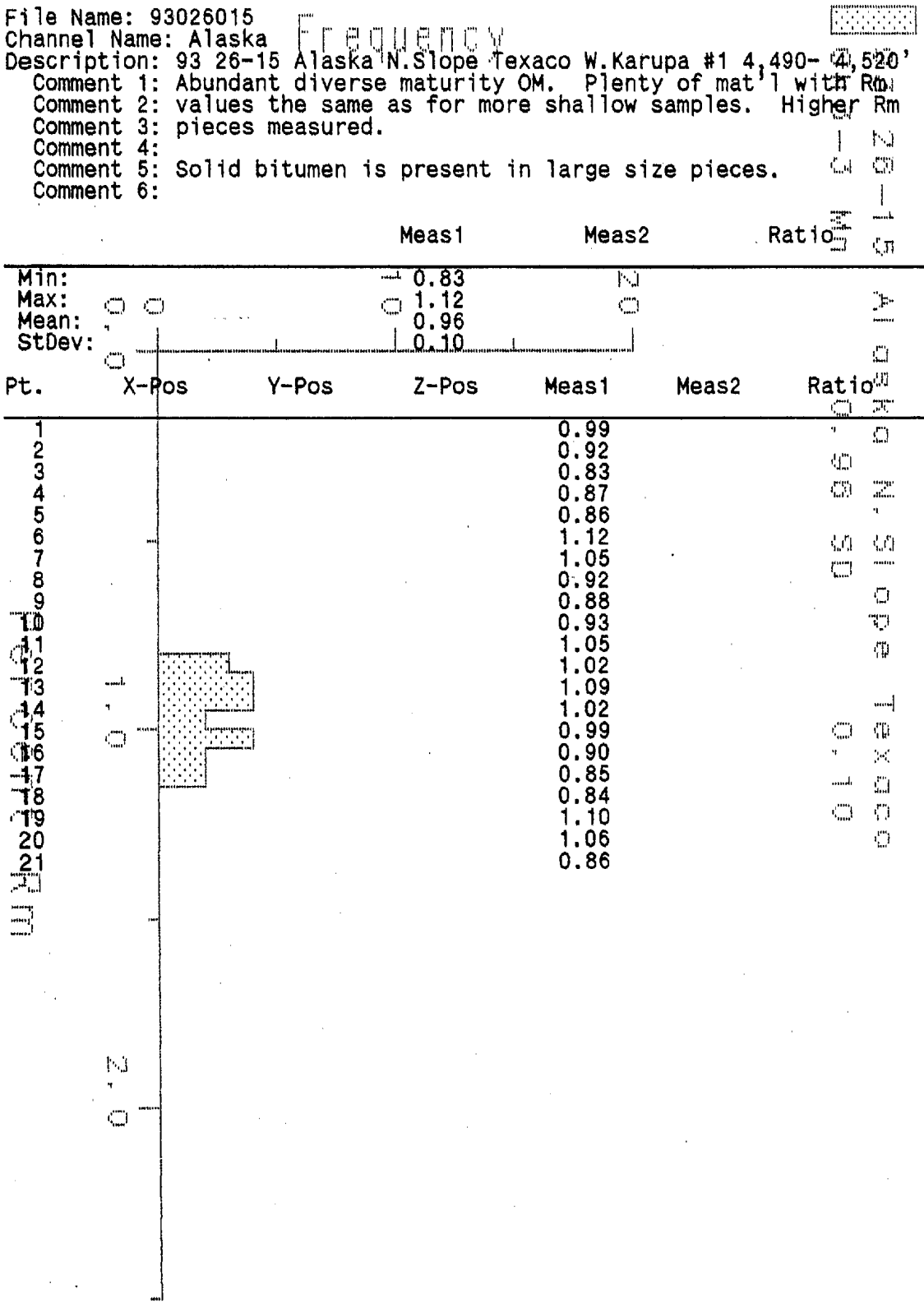
Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.76			
2				0.95			
3				0.81			
4				0.89			
5				0.76			
6				0.92			
7				0.89			
8				0.98			
9				0.80			
10				0.77			
11				0.86			
12				1.04			
13				0.80			
14				1.06			
15				0.97			

File Name: 93026013
Channel Name: Alaska
Description: 93 26-13 Alaska N.Slope Texaco W.Karupa #1 3,980- 4,010'
Comment 1: Abundant OM, but it all looks like more of the same as
Comment 2: above. The material is too consistent with previous
Comment 3: samples to NOT be cavings. Higher Rm mat'l measured.
Comment 4: A long search for this mat'l, so fewer readings.
Comment 5: Solid bitumen is present in large size pieces.
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	0.89			
Max:	1.20			
Mean:	1.07			
StDev:	0.10			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.90			
2				0.89			
3				0.93			
4				1.11			
5				1.16			
6				1.11			
7				1.15			
8				1.20			
9				1.00			
10				1.07			
11				1.07			
12				1.05			
13				1.16			
14				1.20			
15				1.03			
16				1.17			

File Name: 93026015
Channel Name: Alaska
Description: 93 26-15 Alaska N.Slope Texaco W.Karupa #1 4,490- 4,520'
Comment 1: Abundant diverse maturity OM. Plenty of mat'l with Rm
Comment 2: values the same as for more shallow samples. Higher Rm
Comment 3: pieces measured.
Comment 4:
Comment 5: Solid bitumen is present in large size pieces.
Comment 6:



Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				0.99			
2				0.92			
3				0.83			
4				0.87			
5				0.86			
6				1.12			
7				1.05			
8				0.92			
9				0.88			
10				0.93			
11				1.05			
12				1.02			
13				1.09			
14				1.02			
15				0.99			
16				0.90			
17				0.85			
18				0.84			
19				1.10			
20				1.06			
21				0.86			

File Name: 93026017
Channel Name: Alaska
Description: 93 26-17 Alaska N.Slope Texaco W.Karupa #1 4,990-5,020'
Comment 1: Abundant diverse maturity OM. Plenty of mat'l with Rm
Comment 2: values the same as for more shallow samples. Higher Rm
Comment 3: pieces measured as being the indigenous OM population.
Comment 4:
Comment 5:
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	0.93			
Max:	1.16			
Mean:	1.03			
StDev:	0.07			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.00			
2				1.03			
3				1.16			
4				1.14			
5				0.96			
6				0.99			
7				0.97			
8				0.93			
9				1.08			
10				0.95			
11				1.06			
12				1.02			
13				1.06			
14				1.01			
15				0.98			
16				1.04			
17				0.93			
18				1.14			
19				0.99			
20				1.05			
21				0.99			
22				1.04			
23				1.16			

File Name: 93026019
Channel Name: Alaska
Description: 93 26-19 Texaco W.Karupa #1 Alaska NSlope 5,490- 510 cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l less common, requiring a long search. Some solid
Comment 5: bitumen, in addition.
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	0.95			
Max:	1.27			
Mean:	1.09			
StDev:	0.09			

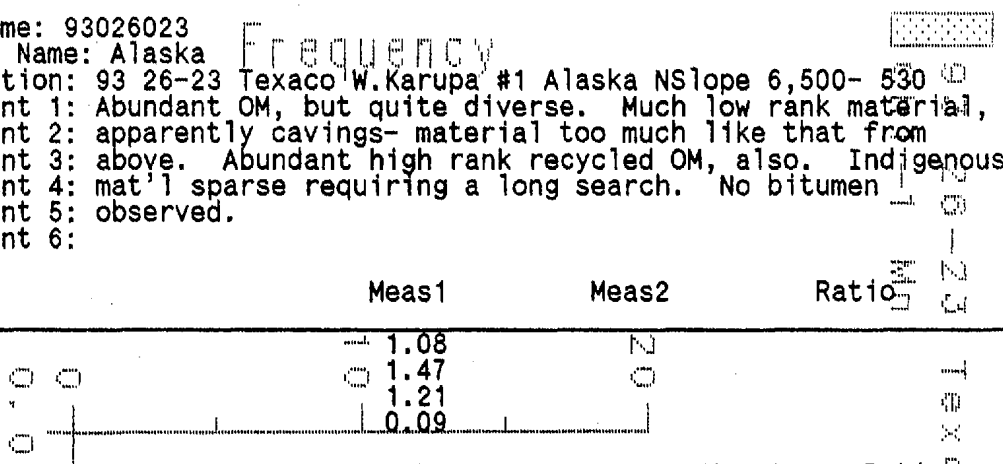
Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.11			
2				0.99			
3				0.98			
4				1.09			
5				1.10			
6				0.95			
7				1.00			
8				1.01			
9				1.05			
10				1.27			
11				1.21			
12				1.08			
13				1.13			
14				1.12			
15				1.14			
16				1.20			
17				1.18			
18				1.12			
19				1.08			
20				0.97			
21				1.04			

File Name: 93026021
Channel Name: Alaska
Description: 93 26-21 Texaco W.Karupa #1 Alaska NSlope 5,980-6,010 cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l less common, requiring a long search. Some soild
Comment 5: bitumen.
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	0.98			
Max:	1.41			
Mean:	1.21			
StDev:	0.12			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.02			
2				1.19			
3				0.98			
4				1.07			
5				1.14			
6				1.30			
7				1.27			
8				1.31			
9				1.20			
10				1.12			
11				1.18			
12				1.37			
13				1.27			
14				1.21			
15				1.08			
16				1.07			
17				1.16			
18				1.03			
19				1.30			
20				1.27			
21				1.37			
22				1.41			
23				1.19			
24				1.18			
25				1.15			
26				1.41			
27				1.12			
28				1.23			
29				1.13			
30				1.22			
31				1.41			

File Name: 93026023
Channel Name: Alaska
Description: 93 26-23 Texaco W.Karupa #1 Alaska NSlope 6,500- 530
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Abundant high rank recycled OM, also. Indigenous
Comment 4: mat'l sparse requiring a long search. No bitumen
Comment 5: observed.
Comment 6:



	Meas1	Meas2	Ratio	Conc.
Min:	1.08			
Max:	1.47			
Mean:	1.21			
StDev:	0.09			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.15			
2				1.30			
3				1.18			
4				1.19			
5				1.08			
6				1.19			
7				1.11			
8				1.17			
9				1.47			
10				1.15			
11				1.10			
12				1.21			
13				1.27			
14				1.28			
15				1.16			
16							
17				1.19			
18				1.25			
19				1.16			
20				1.23			
21				1.28			
22				1.23			

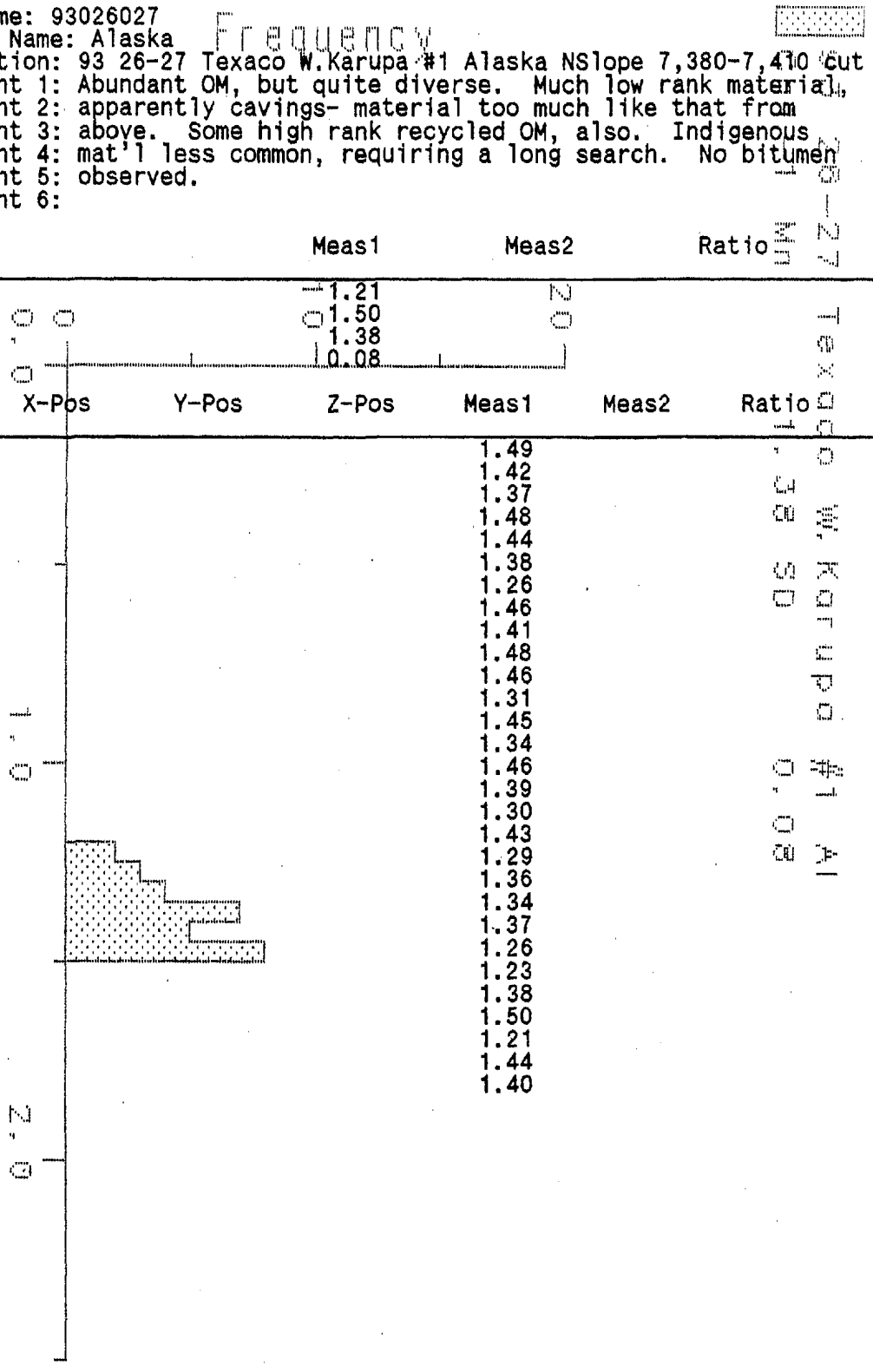
File Name: 93026025
Channel Name: Alaska
Description: 93 26-25 Texaco W.Karupa #1 Alaska NSlope 6,980-7,010' cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l less common, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:

Frequency

	Meas1	Meas2	Ratio	Conc.
Min:	1.15			
Max:	1.43			
Mean:	1.27			
StDev:	0.08			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.17			
2				1.28			
3				1.22			
4				1.20			
5				1.40			
6				1.26			
7				1.43			
8				1.29			
9				1.27			
10				1.23			
11				1.19			
12				1.33			
13				1.21			
14				1.20			
15				1.29			
16				1.31			
17				1.30			
18				1.42			
19				1.24			
20				1.38			
21				1.17			
22				1.33			
23				1.21			
24				1.38			
25				1.26			
26				1.21			
27				1.21			
28				1.40			
29				1.16			
30				1.15			
31				1.28			
32				1.25			
33				1.42			

File Name: 93026027
Channel Name: Alaska
Description: 93 26-27 Texaco W.Karupa #1 Alaska NSlope 7,380-7,410 cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l less common, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:

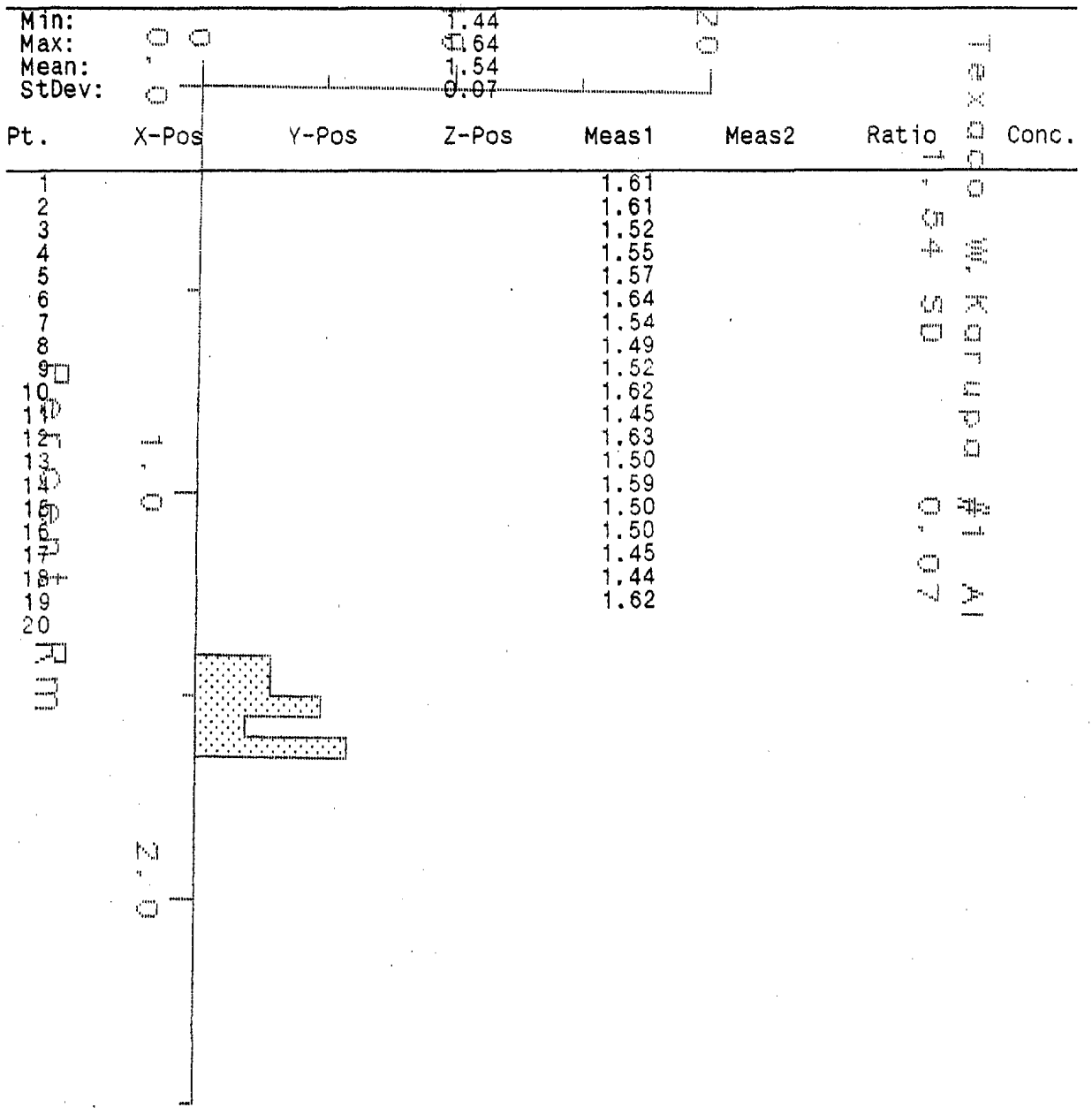


File Name: 93026029
Channel Name: Alaska
Description: 93 26-29 Texaco W.Karupa #1 Alaska NSlope 7,990-8,020 cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l less common, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:

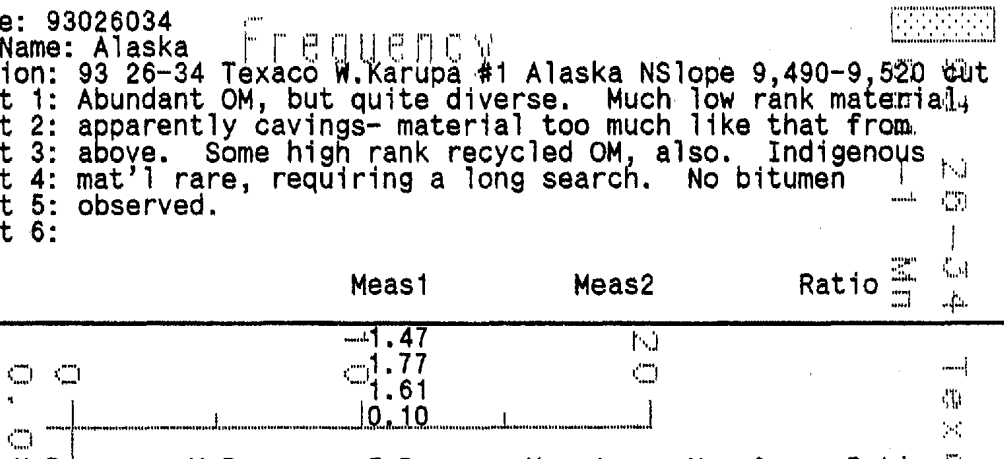
	Meas1	Meas2	Ratio	Conc.
Min:	1.22			
Max:	1.67			
Mean:	1.43			
StDev:	0.16			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.23			
2				1.64			
3				1.35			
4				1.22			
5				1.52			
6				1.52			
7				1.62			
8				1.59			
9				1.29			
10				1.67			
11				1.52			
12				1.30			
13				1.32			
14				1.63			
15				1.35			
16				1.27			
17				1.36			

File Name: 93026031
Channel Name: Alaska
Description: 93 26-31 Texaco W.Karupa #1 Alaska NSlope 8,490-8,520 cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l less common, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:



File Name: 93026034
Channel Name: Alaska
Description: 93 26-34 Texaco W.Karupa #1 Alaska NSlope 9,490-9,520 cut
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l rare, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:



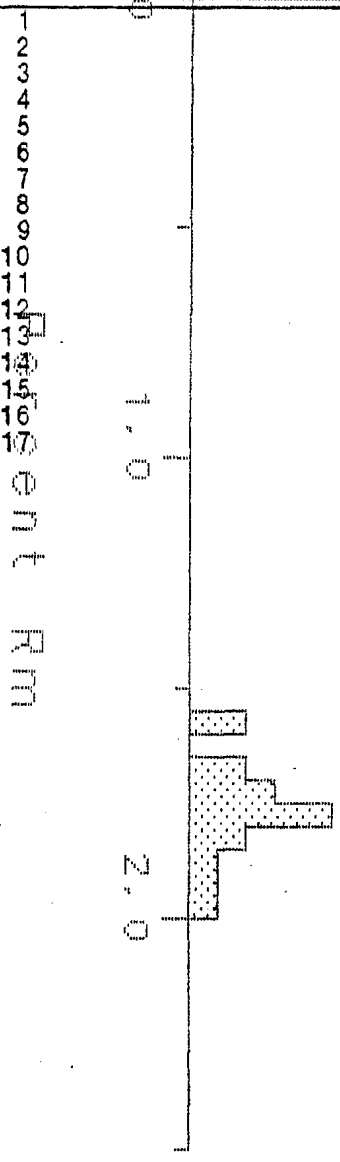
	Meas1	Meas2	Ratio	Conc.
Min:	1.47			
Max:	1.77			
Mean:	1.61			
StDev:	0.10			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.66			
2				1.77			
3				1.52			
4				1.58			
5				1.55			
6				1.47			
7				1.61			
8				1.74			

File Name: 93026035
Channel Name: Alaska
Description: 93 26-35 Texaco W.Karupa #1 Alaska NSlope 9,990-10,010
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings. material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l rare, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	1.57			
Max:	1.96			
Mean:	1.76			
StDev:	0.10			

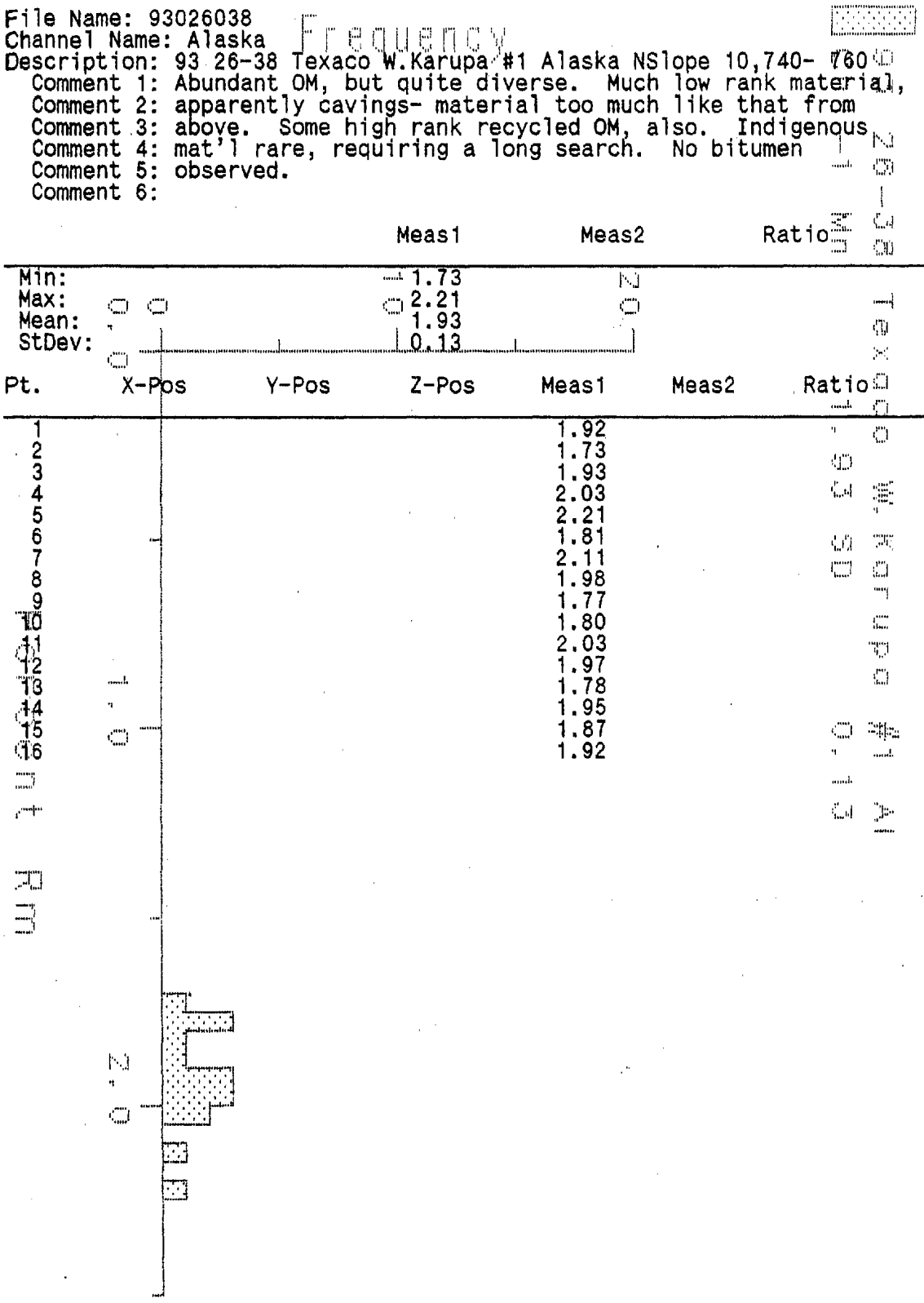
Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.66			
2				1.76			
3				1.94			
4				1.57			
5				1.72			
6				1.77			
7				1.85			
8				1.74			
9				1.78			
10				1.75			
11				1.84			
12				1.77			
13				1.70			
14				1.80			
15				1.96			
16				1.70			
17				1.60			



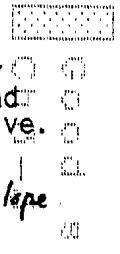
File Name: 93026038
Channel Name: Alaska
Description: 93 26-38 Texaco W.Karupa #1 Alaska NSlope 10,740- 760
Comment 1: Abundant OM, but quite diverse. Much low rank material,
Comment 2: apparently cavings- material too much like that from
Comment 3: above. Some high rank recycled OM, also. Indigenous
Comment 4: mat'l rare, requiring a long search. No bitumen
Comment 5: observed.
Comment 6:

	Meas1	Meas2	Ratio	Conc.
Min:	1.73			
Max:	2.21			
Mean:	1.93			
StDev:	0.13			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				1.92			
2				1.73			
3				1.93			
4				2.03			
5				2.21			
6				1.81			
7				2.11			
8				1.98			
9				1.77			
10				1.80			
11				2.03			
12				1.97			
13				1.78			
14				1.95			
15				1.87			
16				1.92			



File Name: 93026039
Channel Name: Alaska
Description: Good sample. Organic material is common and fairly
Comment 1: consistent. A bit of higher rank recycled pieces and
Comment 2: some very low rank material, perhaps lignite additive.
Comment 3:
Comment 4:
Comment 5: Texaco W. Karupa #1 Alaska North slope
Comment 6: 11,028 – 60'



	Meas1	Meas2	Ratio	Conc.
Min:	1.78			
Max:	2.12			
Mean:	1.91			
StDev:	0.08			

Pt.	X-Pos	Y-Pos	Z-Pos	Meas1	Meas2	Ratio	Conc.
1				2.00			
2				1.92			
3				1.95			
4				1.95			
5				1.81			
6				1.80			
7				1.94			
8				2.03			
9				1.91			
10				1.92			
11				1.90			
12				1.85			
13				1.88			
14				1.90			
15				1.85			
16				1.84			
17				1.88			
18				1.86			
19				1.94			
20				2.04			
21				1.98			
22				2.04			
23				1.80			
24				1.96			
25				1.96			
26				1.79			
27				2.12			
28				1.79			
29				1.94			
30				1.78			
31				1.90			