SM-32 (REV. 5-78)

Shell Oil Company
Interoffice Memorandum

APRIL 30, 1982

SUBJECT: MICROPALEONTOLOGY REPORT
AMOCO CATHEDRAL RIVER UNIT #1
ALASKA PENINSULA, ALASKA

The AMOCO Cathedral River Unit #1 well ditch cuttings and core material were sampled at the Alaska Oil and Gas Conservation Commission, (ditch cuttings composited into 90-foot samples) and prepared in our laboratory for microfossil analysis. Attached is a list of all intervals sampled and examined -- 159 ditch and 5 core samples. In most cases there are two samples to each prepared slide.

An analysis of the microfossil content shows the following general results:

50-6170'	Upper Jurassic. Foraminiferal genera present include: Bathysiphon, Ammobaculites, Spiroplectammina, Haplophragmoides, Trochammina, Gaudryina, Recurvoides, Lenticulina, Astacolus, Dentalina, Eoguttulina, Conorboides. Both nassellarian and spumellarian radiolarians are present with spumellarians dominant in numbers.
6170- 14,360'	Probably Middle Jurassic. Foraminiferal genera present in addition to those listed above include: Ammodiscus, Verneuilinoides, Textularia, Nodosaria, Lingulina, Marginulinopsis. Nassellarian and spumellarian radiolarians are present in most samples and abundances of both kinds are very high in many samples. Inoceramus fragments are present through most of this interval.

Four core samples between 7405 and 7425 feet were essentially barren of organic material. One core sample at 12,100-12,110 feet contained rare arenaceous foraminifers, some nassellarian radiolarians, and fragments of Inoceramus. Abundant pyritic fragments present may represent remains of spumellarian radiolarians.

Samples Prepared For Foraminiferal Examination on the
AMOCO Cathedral River Unit #1 Well

Ditch Samples	Ditch Samples	Ditch Samples
50- 140	3110-3200	6170-6260
140- 230	3200-3290	6260-6350
230- 320	3290-3380	6350-6440
320- 410	3380-3470	6440-6530
410- 500	3470-3560	6530-6620
500- 590	3560-3650	6620-6710
590- 680	3650-3740	6710-6800
680- 770	3740-3830	6800-6890
770- 860	3830-3920	6890-6980
860- 950	3920-4010	6980-7070
950-1040	4010-4100	7070-7160
1040-1130	4100-4190	7160-7250
1130-1220	4190-4280	7250-7340
1220-1310	4280-4370	7340-7430
1310-1400	4370-4460	7430-7520
1400-1490	4460-4550	7520-7610
1490-1580	4550-4640	7610-7700
1580-1670	4640-4730	7700-7790
1670-1760	4730-4820	7790-7880
1760-1850	4820-4910	7880-7970
1850-1940	4910-5000	7970-8060
1940-2030	5000-5090	8060-8150
2030-2120	5090-5180	8150-8240
2120-2210	5180-5270	8240-8330
2210-2300	5270-5360	8330-8420
2300-2390	5360-5450	8420-8510
2390-2480	5450-5540	8510-8600
2480-2570	5540-5630	8600-8690
2570-2660	5630-5720	8690-8780
2660-2750	5720-5810	8780-8870
2750-2840	5810-5900	8870-8960
2840-2930	5900-5990	8960-9050
2930-3020	5990-6080	9050-9140
3020-3110	6080-6170	9140-9230

Samples Prepared For Foraminiferal Examination on the
AMOCO Cathedral River Unit #1 Well

Ditch Samples	Ditch Samples	Core Samples
9230-9320	12,200-12,290	7405-7410
9320-9410	12,290-12,380	7410-7415
9410-9500	12,380-12,470	7415-7420
9500-9590	12,470-12,560	7420-7425
9590-9680	12,560-12,650	12,100-12,110
9680-9770	12,650-12,740	
9770-9860	12,740-12,830	
9860-9950	12,830-12,920	
9950-10,040	12,920-13,010	
10,040-10,130	13,010-13,100	
10,130-10,220	13,100-13,190	
10,220-10,310	13,190-13,280	
10,310-10,400	13,280-13,370	
10,400-10,490	13,370-13,460	
10,490-10,580	13,460-13,550	
10,580-10,670	13,550-13,640	
10,670-10,760	13,640-14,730	
10,760-10,850	13,730-13,820	
10,850-10,940	13,820-13,910	
10,940-11,030	13,910-14,000	
11,030-11,120	14,000-14,090	
11,120-11,210	14,090-14,180	
11,210-11,300	14,180-14,270	
11,300-11,390	14,270-14,360	
11,390-11,480		
11,480-11,570		
11,570-11,660		
11,660-11,750		
11,750-11,840		
11,840-11,930		
11,930-12,020		
12,020-12,110		
12,110-12,200		

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