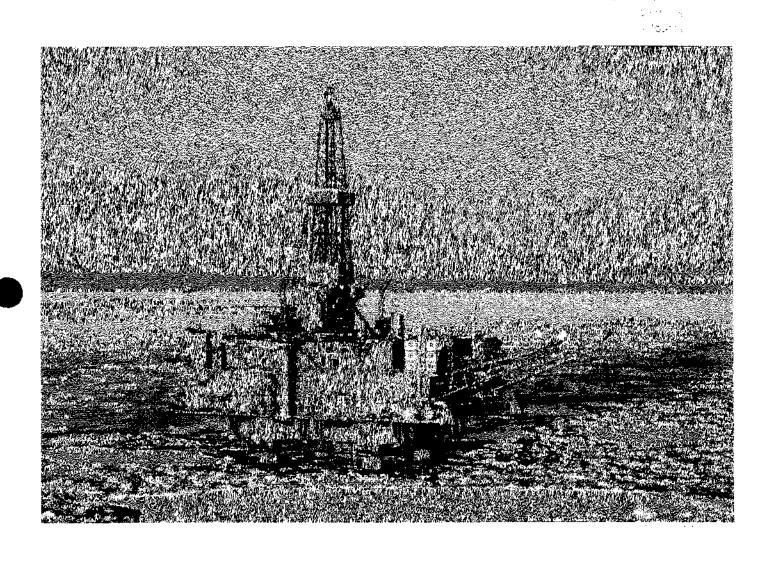
PLATFORM STEELHEAD

McARTHUR RIVER FIELD

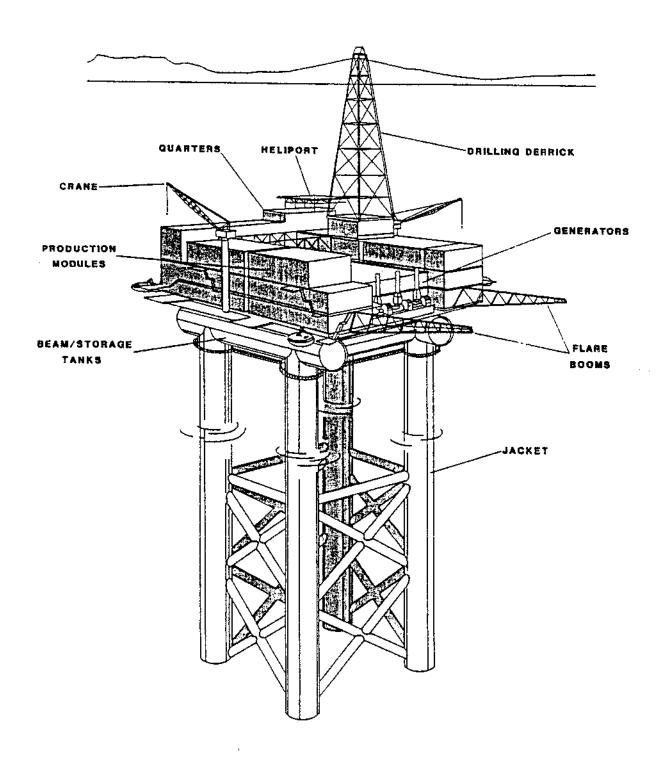
INSTALLED 1986

Platform Steelhead

_	F . (1)	MoArthur Divor field
	Field name:	
	Platform operator:	
	Platform owner(s):	
4.	Original operator:	
-	Structural design firm:	
6 .	Fabrication yard (structure):	
7.	Installation year and contractor:	
8.	Waterdepth (at MLLW):	
9,	Number and diameter of legs:	
10.	Number, size and penetration of piling:	
11.	Number, size and penetration of inner piling:	Ten 26 inch drilled inner piling installed to 650 feet in leg B1 following 1989 blowout
12	Method of installation (driven, drilled, combination):	24 driven, 24 combination with drilled pilot hole
13.	Length of grouted interval in legs:	Annulus grouted from bottom to top of leg
14.	Design codes used (UBC, AISC, API RP 2A, etc):	API RP 2A
	······································	
15.	Number of completed wells in each leg through piling:	injection wells
16.	Other completed wells in each leg:	
17.	Top girders used as storage tanks ?	Yes
18.	If so, what type of liquid:	Water, diesel oil
19.	Design criteria used:	
	(1) Ice thickness and strength:	
	(2) Wave height and period:	
	(3) Wind:	
	(4) Earthquake:	
		Minus 20° F above water, plus 28.6° F below water
	(6) Current:	12.65 feet per second
20.	Design considerations:	Twenty year design life
21.		Yes, derrick barge crane collapse. No structural damage
22.	Significant modification or additions to topsides:	Waterflood and gas transmission module added (part of original design)
23.	Any significant structural damage incidents?	Blowout under leg B1 in 1989; dumped 60,000 ton of gravel and added ten 26 inch diameter insert piling.
24.	Has platform structural design been re-assessed ?	Yes
	If so, by whom and for what reason:	
26.		
2 7.	Steel corrosion allowance used:	1/2 inch
28.	Type of cathodic protection:	Impressed current plus sacrificial anodes.
29.	Dates and API RP 2A levels of underwater inspection:	Level II inspections in 1986 (boom collapse) and 1989 (blowout)



Platform Steelhead in the McArthur River field.



Isometric view of platform Steelhead