

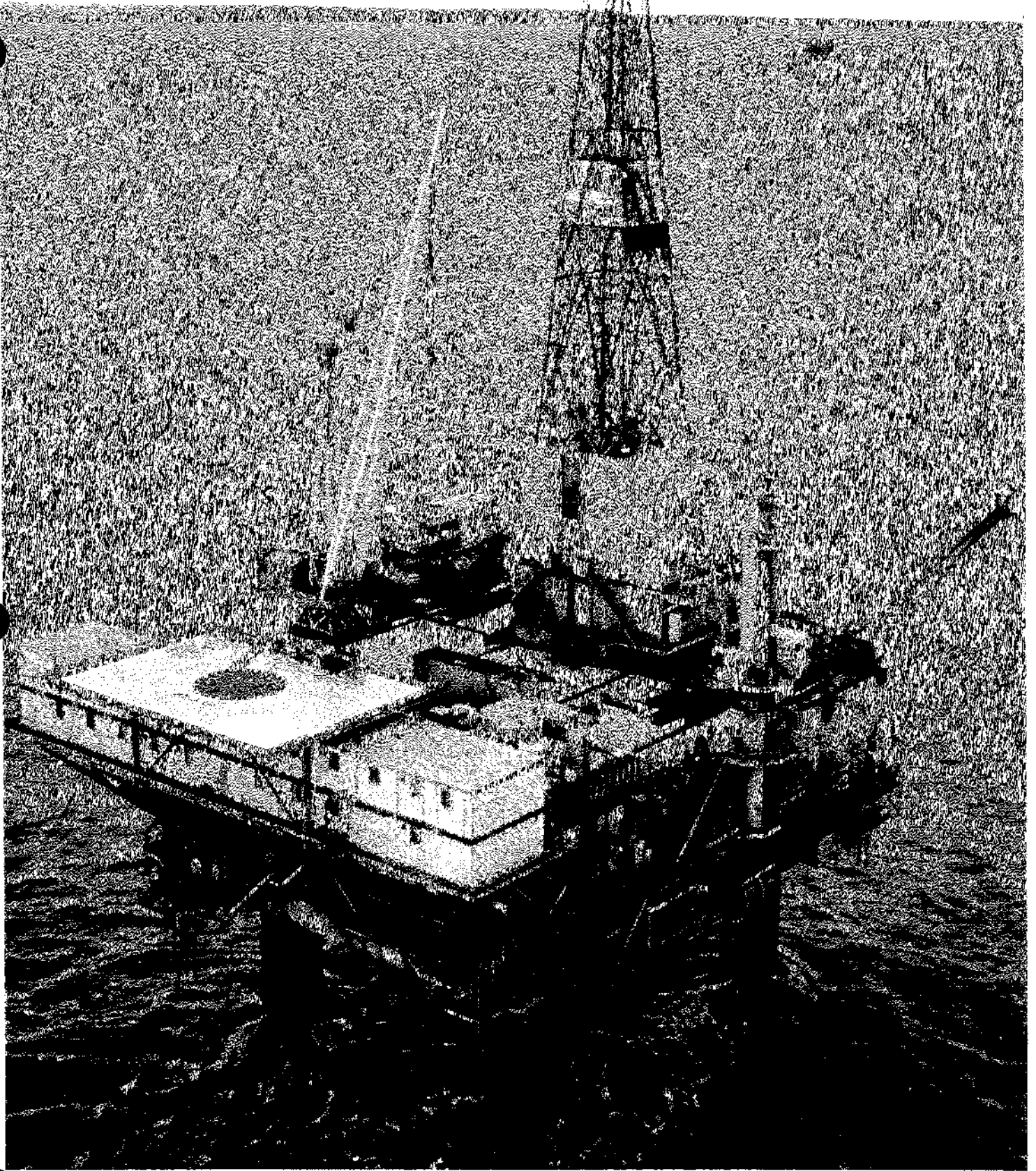
PLATFORM DILLON

MIDDLE GROUND SHOAL FIELD

INSTALLED 1966

Platform Dillon

1. *Field name:*.....Middle Ground Shoal field
 2. *Platform operator:*.....Unocal
 3. *Platform owner(s):*.....Unocal
 4. *Original operator:*.....Amoco
 5. *Structural design firm:*.....Earl & Wright/McDermott
 6. *Fabrication yard (structure):*.....Kaiser Steel in Oakland, California
 7. *Installation year and contractor:*.....1966; McDermott
 8. *Waterdepth (at MLLW):*.....92 feet
 9. *Number and diameter of legs:*.....Four legs; 14 feet diameter
 10. *Number, size and penetration of piling:*.....Eight piles per leg; 30 inch diameter; 88 feet penetration.
 11. *Number, size and penetration of inner piling:*.....None
 12. *Method of installation (driven, drilled, combination):*.....Combination
 13. *Length of grouted interval in legs:*.....152 feet
 14. *Design codes used (UBC, AISC, API RP 2A, etc):*.....UBC, AISC
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15. *Number of completed wells in each leg through piling:*.....Eleven total wells in two legs
 16. *Other completed wells in each leg:*.....None
 17. *Top girders used as storage tanks ?*.....Yes
 18. *If so, what type of liquid:*.....Drill water, potable water, produced water, diesel oil, power oil, crude oil.
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19. *Design criteria used:*
 - (1) *Ice thickness and strength:*.....Front legs 120 kips/ft of diameter, back legs 50 kips/ft
 - (2) *Wave height and period:*.....30 feet with 9 second period
 - (3) *Wind:*.....80 mph above elevation 25 feet
 - (4) *Earthquake:*.....0.1 g seismic ground motion
 - (5) *Temperature:*.....
 - (6) *Other:*.....3900 kips per leg impact load, seismic, ice and current loads applied simultaneously.
 20. *Design considerations:*.....Shadow effect
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21. *Unusual circumstances during installation ?*.....Decks were lost en-route. Replaced following year
 22. *Significant modification or additions to topsides:*.....Sea King crane
 23. *Any significant structural damage incidents ?*.....One dent found; poor grout job which was corrected.
 24. *Has platform structural design been re-assessed ?*.....Yes, 1993; Quarters support frame.
 25. *If so, by whom and for what reason:*.....McDermott; evaluation of non-low temperature steel concerns.
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26. *Type of steel used; above water and below water:*.....A-537 Sheffield above water; 50 MV below water.
 27. *Steel corrosion allowance used:*.....An 1/2 inch thick A-36 wear plate in the tidal zone.
 28. *Type of cathodic protection:*.....Impressed current
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29. *Dates and API RP 2A levels of underwater inspection:*.....1993 - Level III; 1990 - Cathodic protection survey.



Platform Dillon in the Middle Ground Shoal field.

Installed 1967
 Designed by Earl & Wright
 Jacket Wt. 1585 tons
 Deck Wt. 1200 tons

8 Piles per leg 30" dia.
 Penetration 88'

Leg dia. 14.0'

Wind Speed
 80 mph above 25' elev.

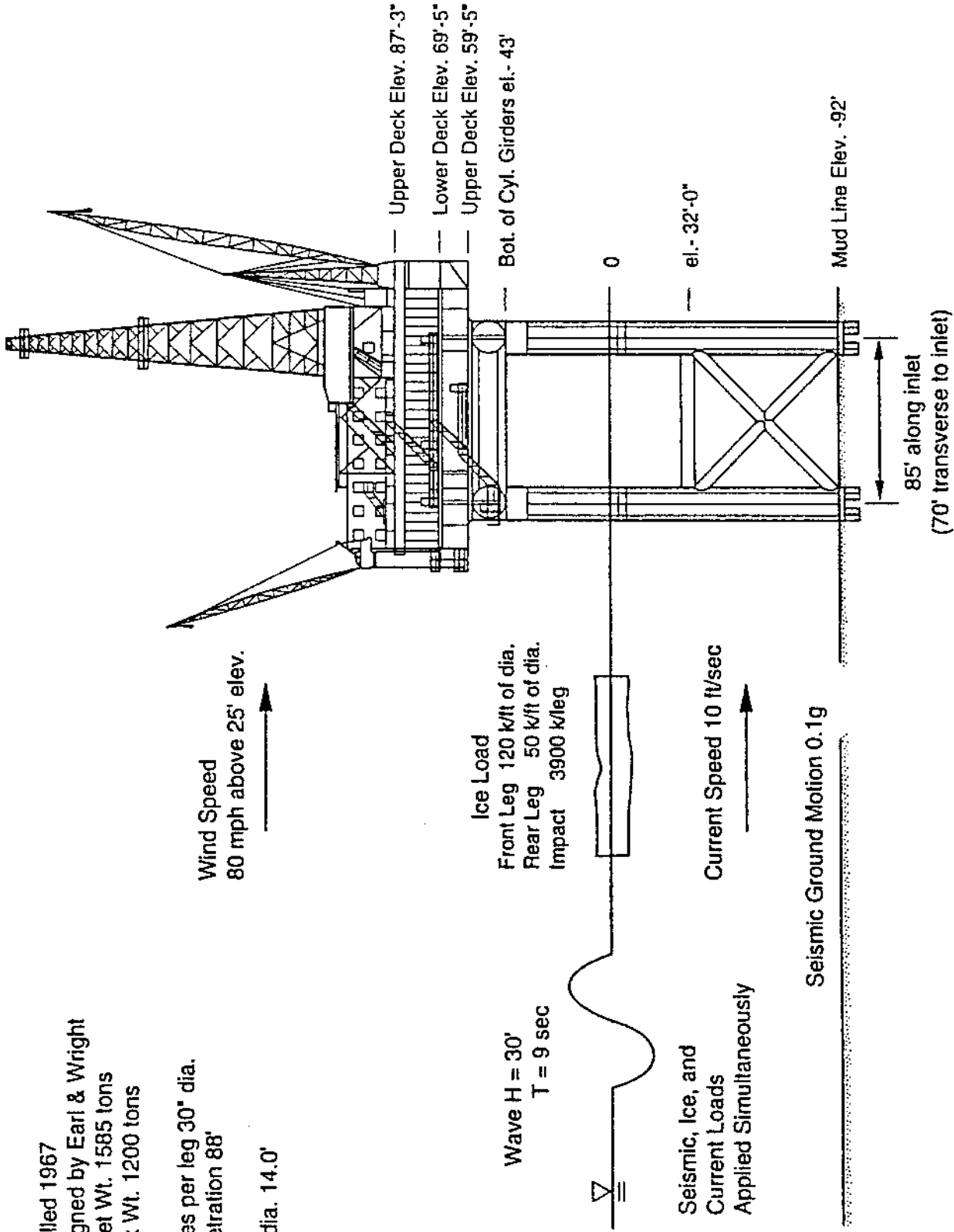
Ice Load
 Front Leg 120 k/ft of dia.
 Rear Leg 50 k/ft of dia.
 Impact 3900 k/leg

Wave H = 30'
 T = 9 sec

Seismic, Ice, and
 Current Loads
 Applied Simultaneously

Current Speed 10 ft/sec

Seismic Ground Motion 0.1g



Elevation view and summary details of platform Dillon.