

# PLATFORM OSPREY

REDOUBT SHOAL FIELD

INSTALLED 2000

## LOCATION

Geographic, NAD27:

Latitude: 60° 41' 44.2", Longitude: 151° 40' 14.5"

XY coordinates, ASP, Zone 4, NAD27, in feet:  
2,449,990 Northing/Y, 200,627 Easting/X

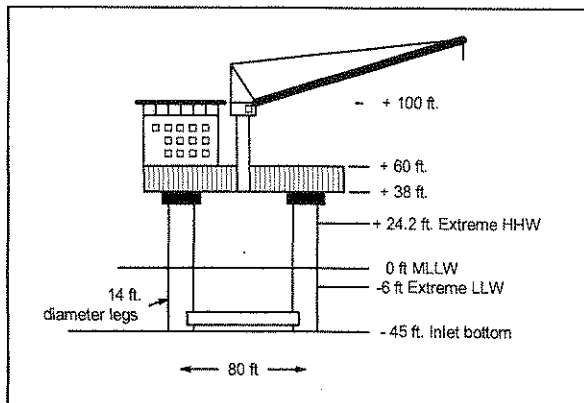
Database prepared by:  
Belmar Engineering  
Torrance, CA

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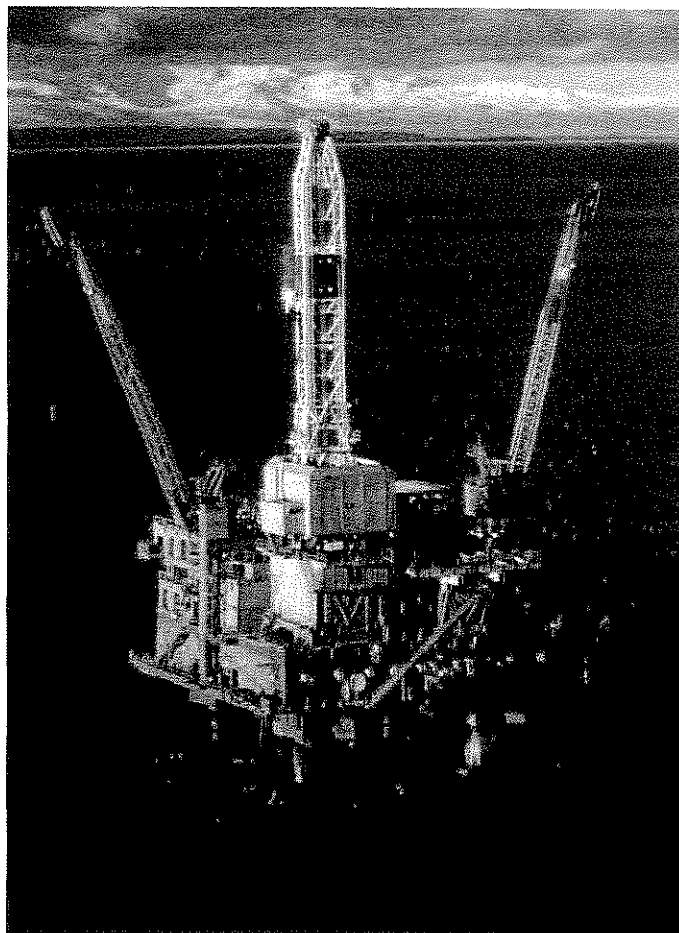
## Platform Osprey

1. *Field name:*..... Redoubt Shoal Field
  2. *Platform operator:*..... Pacific Energy Resources Ltd.
  3. *Platform owner(s):*..... Pacific Energy Resources Ltd.
  4. *Original operator:*..... Forest Oil Corporation
  5. *Structural design firm:*..... Winzler & Kelly and Ideas
  6. *Fabrication yard (structure):*..... Hyundai Heavy Industries, Ulsan, Korea
  7. *Installation year and contractor:*..... 2000 Stolt Offshore / Crowley
  8. *Waterdepth (at MLLW):*..... 45 feet MLLW
  9. *Number and diameter of legs:*..... four legs, 14-foot diameter
  10. *Number, size and penetration of piling:*..... 4-30" and 3-36" each leg; 70' penetration.
  11. *Number, size and penetration of inner piling:*..... NA
  12. *Method of installation (driven, drilled, combination):*..... Driven
  13. *Length of grouted interval in legs:*..... 135 feet
  14. *Design codes used (UBC, AISC, API RP 2A, etc):*..... API RP 2A
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15. *Number of completed wells in each leg through piling:*..... Seven wells in Leg 3, One well in Leg 2
  16. *Other completed wells in each leg:*..... None
  17. *Top girders used as storage tanks ?*..... No
  18. *If so, what type of liquid:*..... NA
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19. *Design criteria used:*
    - (1) *Ice thickness and strength:*..... 3.5 feet, 300 psi
    - (2) *Wave height and period:*..... 28.0 feet, 8.5 seconds
    - (3) *Wind:*..... 80 mph, 100 mph gusts
    - (4) *Earthquake:*..... API RP 2A Seismic Zone 4
    - (5) *Temperature:*..... - 40 degrees F
    - (6) *Other:*..... Bottom scour: - 5 feet
  20. *Design considerations:*.....
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21. *Unusual circumstances during installation?*..... Platform raised to proper elevation using eight 850-ton capacity hydraulic jacks.
  22. *Significant modification or additions to topsides:*..... Cantilevers were added in 2001 and 2003.
  23. *Any significant structural damage incidents?:*..... None
  24. *Has platform structural design been re-assessed?:*..... Yes
  25. *If so, for what reason and by whom:*..... Re-assessed by Winzler & Kelly for cantilever addition.
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26. *Type of steel used; above water and below water:*..... API Spec 2H
  27. *Steel corrosion allowance used:*..... 0.625" through splash zone from -18' to + 26' (MLLW)
  28. *Type of cathodic protection:*..... Impressed current
  29. *Dates and API RP 2A levels of underwater inspection:*..... 2003, 2007
  30. *Background information:*..... Visser, R.C. & Carlson, G.E.: "Osprey Project: Design and Installation of a Novel Platform in Cook Inlet, Alaska," OTC 14221, 2002.

# Platform Osprey



Schematic of platform Osprey



Osprey platform in 2002