



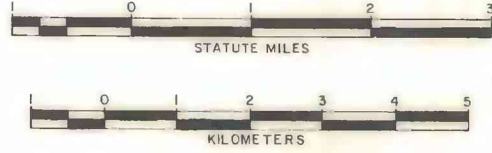
**GEOLOGIC HAZARDS**  
FAULT, DASHED WHERE INFERRED, QUESTIONABLE U, UPTHROWN SIDE, D, DOWNTOWN SIDE, BOX AND BAR ON DOWNTOWN SIDE, WHERE FAULT OFFSETS SEA FLOOR, NUMBER ALONG FAULT INDICATES DEPTH BELOW SEA FLOOR TO TOP OF FAULT, IN METERS

**EXPLANATION**

**CONSTRAINTS**  
BURIED CHANNEL BOUNDARY DASHED WHERE INFERRED, NUMBER INDICATES DEPTH BELOW SEA FLOOR TO TOP OF CHANNEL FILL, IN METERS  
GAS CHARGED SEDIMENT, BOUNDARY DASHED WHERE INFERRED  
SHALLOW GAS (BRIGHT SPOT), BOUNDARY DASHED WHERE INFERRED, NUMBER INDICATES DEPTH BELOW SEA FLOOR TO TOP OF GAS ZONE, IN METERS  
HYDROCARBON SEEP

**BASE MAP**  
BEDROCK OUTCROPS (TERTIARY, CRETACEOUS, AND JURASSIC) UNPATTERNED AREAS ARE QUATERNARY SEDIMENTS OR SEDIMENTARY ROCKS  
SURVEY LINES AND NAVIGATIONAL AIDS  
BATHYMETRIC CONTOUR, IN FEET (METERS)

**GEOLOGIC HAZARDS AND CONSTRAINTS  
OCS SALE 53 AREA  
NORTHERN AND CENTRAL CALIFORNIA**



Bathymetry prepared by Fairfield Industries under contract to the U.S. Geological Survey. Navigation base map prepared by Navigation Services Inc. for Fairfield Industries. Traction based on the Universal Transverse Mercator Grid System, zone 10N, 4,700 meters on a side and contour 7,304 meters.

**SANTA CRUZ AREA  
PLATE 4**