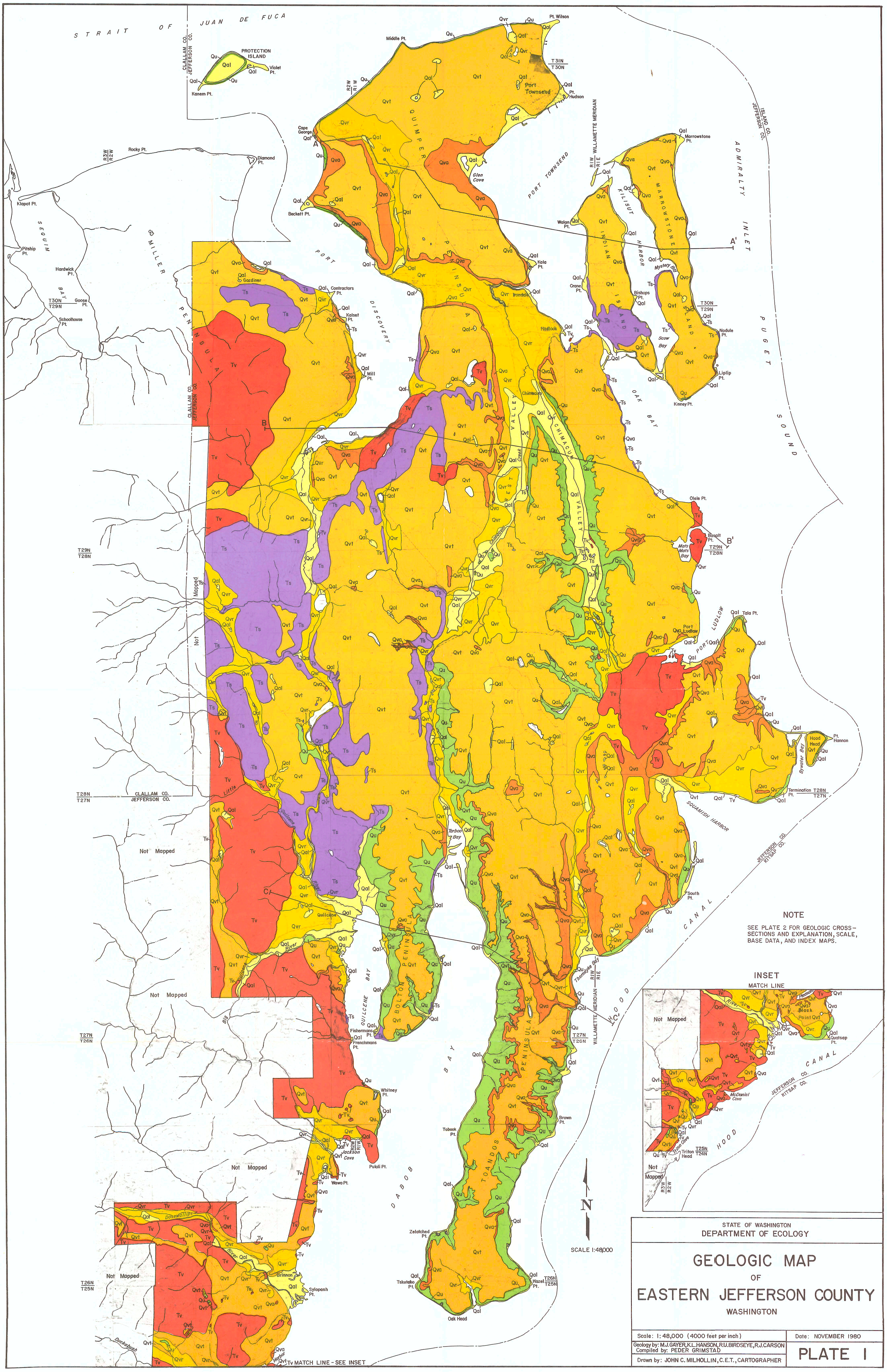
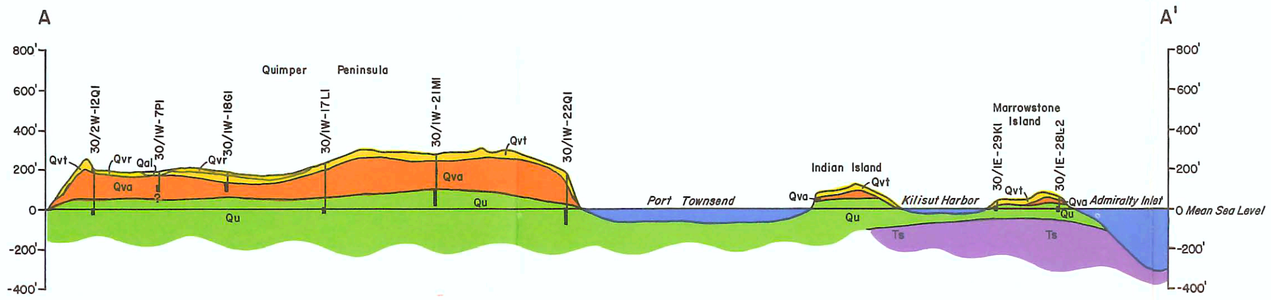
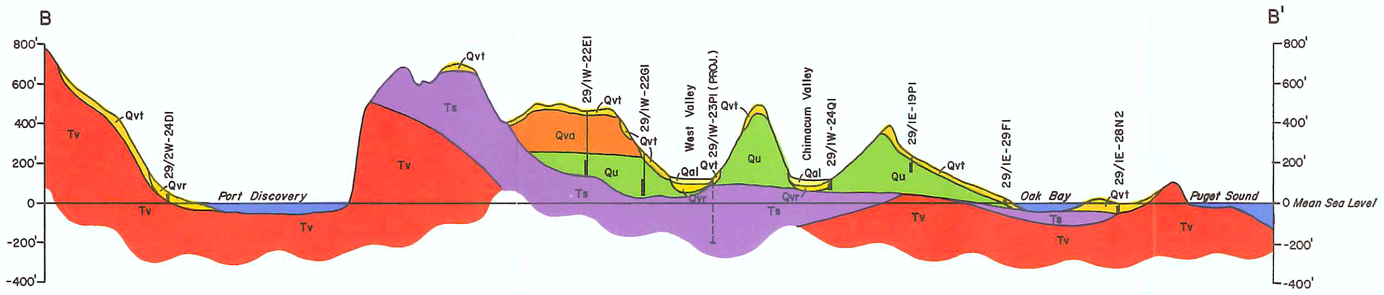
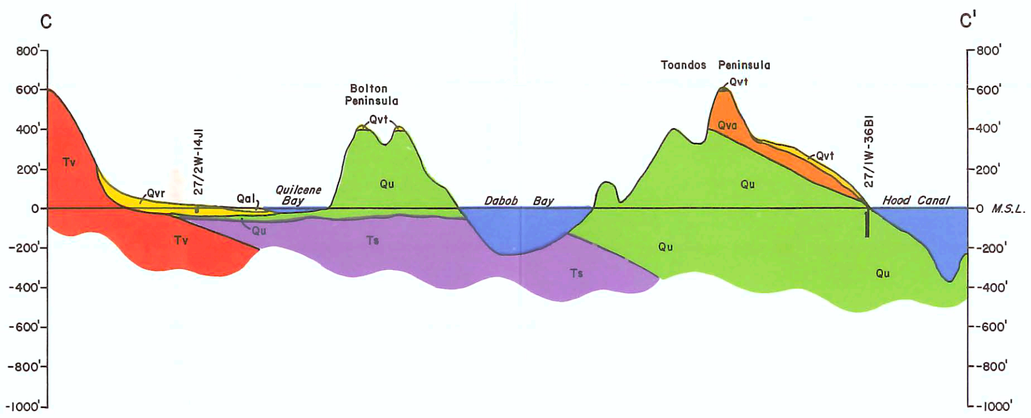

STRAIT OF JUAN DE FUCA
PROTECTION ISLAND
Violet Pt.
Kanem Pt.
CLALLAM CO.
JEFFERSON CO.
Pt. Wilson
Middle Pt.
T31N
T30N
Port Townsend
Pt. Hudson
QUIMPER
PENINSULA
Cape George
Beckett Pt.
Glen Cove
PORT TOWNSEND
Rocky Pt.
Diamond Pt.
Klapot Pt.
Pitship Pt.
Hardwick Pt.
Goose Pt.
Schoolhouse Pt.
SEQUIM BAY
MILLER PENINSULA
Gardiner
Contractors Pt.
Kalset Pt.
Mill Pt.
DISCOVERY
Kala Pt.
Irondale
Hadlock
Walan Pt.
Crane Pt.
Bishops Pt.
KILISUT HARBOR
INDIAN ISLAND
MARROWSTONE ISLAND
Marrowstone Pt.
Mystery Bay
Scow Bay
Nodule Pt.
Liplip Pt.
Kinney Pt.
OAK BAY
ADMIRALTY INLET
PUGET SOUND
WILLAMETTE MERIDIAN
R1W
R1E
R2W
R3W
Chimacum
CHIMACUM VALLEY
WEST VALLEY
Olele Pt.
Basalt Pt.
Mats Mats Bay
T29N
T28N
Mapped
Not
LUDLOW
Port Ludlow
Tala Pt.
Hood Head
Pt. Hannon
Bywater Bay
Termination Pt.
T28N
T27N
SQUAMISH HARBOR
Little Quilcene River
Tarboo Bay
South Pt.
JEFFERSON CO.
KITSAP CO.
HOOD CANAL
Not Mapped
Big Quilcene River
QUILCENE BAY
BOLTON PENINSULA
Fishermans Pt.
Frenchmans Pt.
Thorndyke Bay
T27N
T26N
Whitney Pt.
Jackson Cove
Pulali Pt.
Wawa Pt.
DABOB BAY
TOANDOS PENINSULA
Tabook Pt.
Brown Pt.
Zelatched Pt.
Tskutako Pt.
Hazel Pt.
T26N
T25N
Oak Head
Dosewallips River
Brinnon
Sylopash Pt.
Duckabush River
Hoodsport
Tv MATCH LINE - SEE INSET
N
SCALE 1:48,000
NOTE
SEE PLATE 2 FOR GEOLOGIC CROSS-SECTIONS AND EXPLANATION, SCALE, BASE DATA, AND INDEX MAPS.
INSET
MATCH LINE
Pleasant Harbor
Black Point
Quatsap Pt.
McDaniel Cove
Triton Cove
Triton Head
T25N
T24N
STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
GEOLOGIC MAP
OF
EASTERN JEFFERSON COUNTY
WASHINGTON
Scale: 1:48,000 (4000 feet per inch)
Date: NOVEMBER 1980
Geology by: M.J. GAYER, K.L. HANSON, R.U. BIRDSEYE, R.J. CARSON
Compiled by: PEDER GRIMSTAD
Drawn by: JOHN C. MILHOLLIN, C.E.T., CARTOGRAPHER
PLATE 1







GEOLOGIC EXPLANATION

QUATERNARY	HOLOCENE	POSTGLACIAL
	1x10⁴ Yrs.	
	PLEISTOCENE	FRASER GLACIATION
		PRE-FRASER GLACIATIONS — INTERGLACIATIONS
	? 2x10⁴ Yrs.	
	2x10⁶ Yrs.	
TERTIARY	EOCENE-OLIGOCENE	
	65x10⁶ Yrs.	

Qal — Postglacial sediments: Recent stream, lake, marsh, swamp, lagoon, beach, and eolian deposits of gravel, sand, silt, clay and peat. Unit yields small quantities of water to driven wells; stream gravels in hydraulic continuity with streams or in combination with ressional outwash gravels yield moderate to large quantities to large diameter wells. Water quality problems may occur because of organic materials associated with deposition and/or proximity of man related contaminants.

Qvr — Recessional outwash and ice-contact stratified drift: deltas, alluvial fans, channel fills, kames, kame terraces, eskers and other sedimentary bodies deposited by streams from receding ice lobes of the Fraser Glaciation. Includes some ablation till. Consists primarily of gravel with some sand, silt, and clay; generally unconsolidated. Unit yields small to large quantities of ground water where it occurs in sufficient thickness below saturated zone.

Qvt — Lodgment till: boulders, cobbles and pebbles in matrix of sand, silt and clay; a compact and unsorted mixture. Generally covered by a few feet of recessional drift or Holocene sediments. Includes some Everson glaciomarine drift. Generally unit is impermeable but has lenses of sand and gravel which may yield small quantities of water; serves as an aquiclude and as impermeable barrier below perched water.

Qva — Advance outwash: gravel and sand with some silt and clay; will yield moderate to large quantities of water where gravel and sand underlie zone of saturation.

Qu — Undifferentiated glacial, fluvial, glaciofluvial, lacustrine, and glaciolacustrine deposits: includes sediments resulting from pre-Fraser Glaciations (Possession Drift, Double Bluff Drift), interglaciation (Whidbey Formation), and advance outwash sands of the Fraser Glaciation. The sands and gravels of the pre-Fraser units are of varying permeability and areal extent and generally yield little or no water.

Ts — Sedimentary rocks, undifferentiated: mudstone, siltstone, sandstone, conglomerate; generally impermeable and yield little or no water.

Tv — Volcanics, undifferentiated: basalt flows predominate with some mud flows (Crescent Formation); generally impermeable except between flows and along joints and fractures; yield small to moderate amounts of water.

WELL EXPLANATION

30/1W-21M1 — Well number

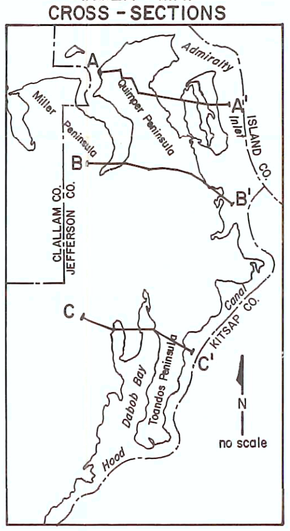
Land surface

Static water level

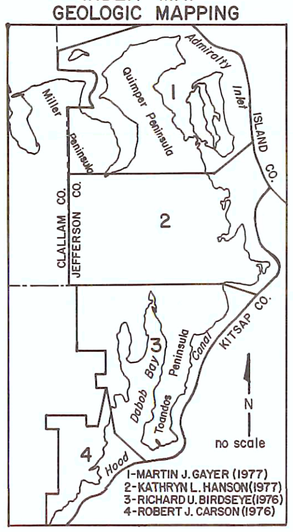
Total depth of well

? Total depth unknown

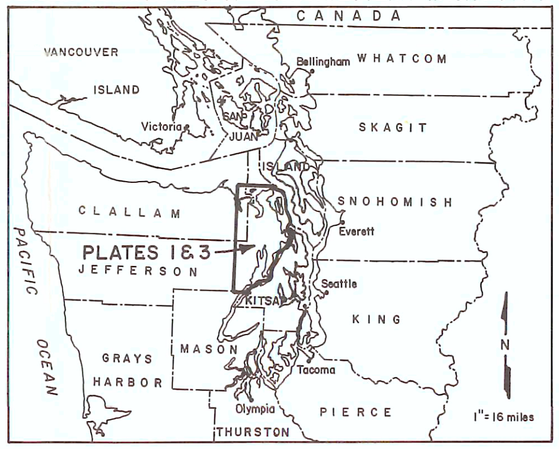
INDEX MAP CROSS-SECTIONS



INDEX MAP GEOLOGIC MAPPING



INDEX TO COUNTIES OF NORTHWESTERN WASHINGTON



1 1/2 0 1 2 3 4 MILE

4000 2000 0 4000 8000 12000 16000 FEET

1 .5 0 1 2 3 KILOMETER

CONTOUR INTERVAL 40 FEET
DATUM IS MEAN SEA LEVEL

BASE DATA

Reduction (7.5 minute series) of U.S. Geological Survey topographic quadrangle mapping series. These reductions have been screened 50% to provide land net, cultural and topographical features. Bathymetric contours were removed to accentuate the land masses.

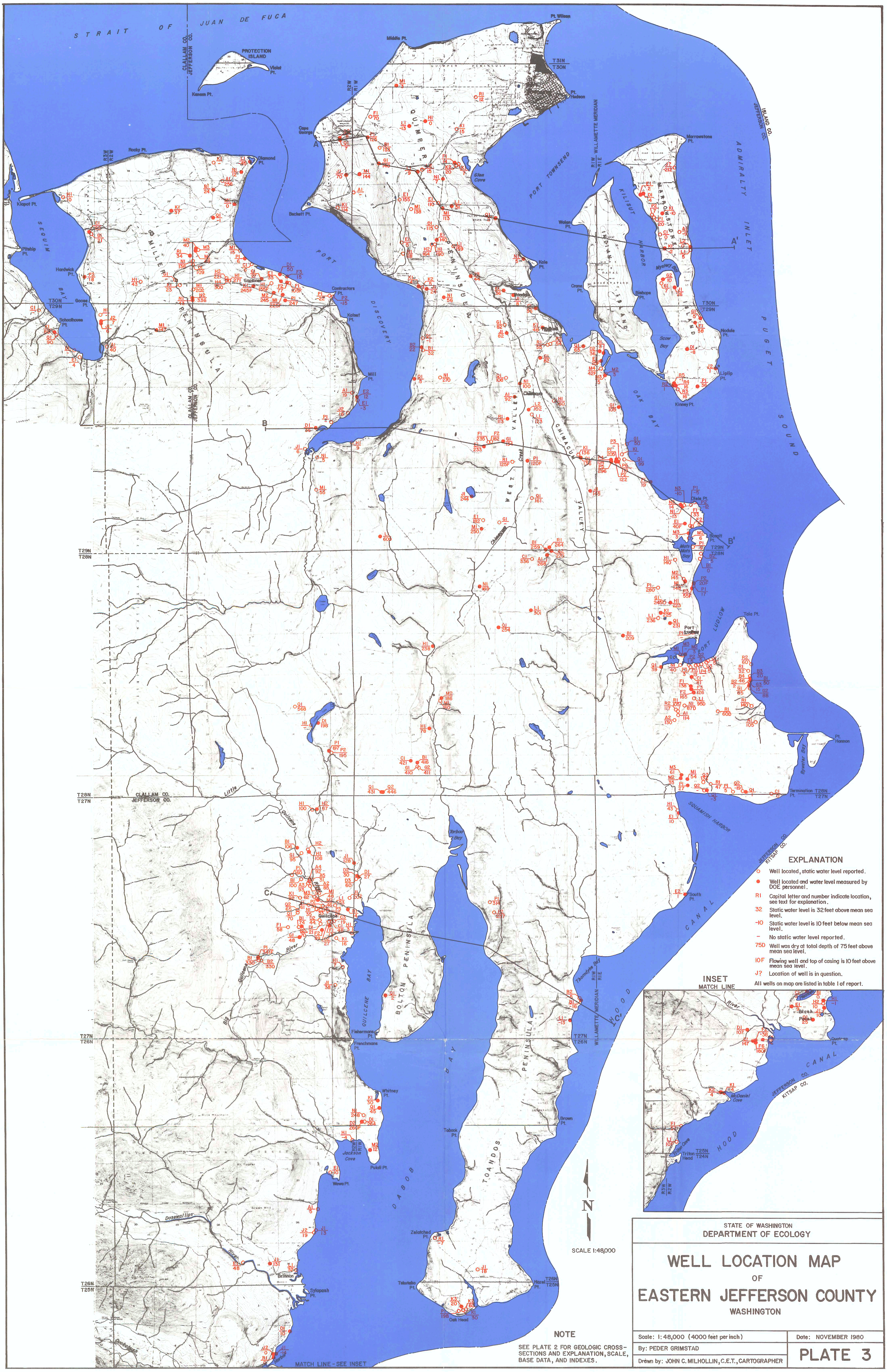
7.5 minute series (scale 1:24,000);
Sequim (1956), Gardiner (1953), Port Townsend (1953), Nordland (1953), Uncas (1953), Center (1953), Port Ludlow (1953), Hansville (1953-68PR), Mt. Walker (1953), Quilcene (1953), Lofall (1953), Brinnon (1953), Seabeck (1953-68PR), and Holly (1953-68PR).

These maps were photoinspected and revised by the U.S.G.S. in 1973; no major cultural or drainage changes.

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

GEOLOGIC CROSS-SECTIONS AND GEOLOGIC LEGEND
EASTERN JEFFERSON COUNTY
WASHINGTON

Scale: HORIZ. 1:48,000 (4,000 ft./in.) – VERT. 500 ft./in.	Date: NOVEMBER 1980
By: PEDER GRIMSTAD AND ROBERT J. CARSON	PLATE 2
Drawn by: JOHN C. MILHOLLIN, C.E.T., CARTOGRAPHER	


STRAIT OF JUAN DE FUCA
PROTECTION ISLAND
Violet Pt.
Kanem Pt.
CLALLAM CO.
JEFFERSON CO.
Pt. Wilson
Middle Pt.
T31N
T30N
QUIMPER PENINSULA
Pt. Hudson
R2W
R1W
Cape George
Glen Cove
PORT TOWNSEND
R1W WILLAMETTE MERIDIAN
R1E
Marrowstone Pt.
ISLAND CO.
JEFFERSON CO.
ADMIRALTY INLET
Rocky Pt.
Diamond Pt.
Klapot Pt.
Bechett Pt.
Walan Pt.
KILISUT HARBOR
MARROWSTONE
Mystery Bay
Pitship Pt.
SEQUIM BAY
MILLER PENINSULA
Hardwick Pt.
Kala Pt.
Crane Pt.
Bishops Pt.
T30N
T29N
Goose Pt.
Schoolhouse Pt.
Contractors Pt.
Kalset Pt.
DISCOVERY BAY
Scow Bay
Nodule Pt.
Lipilip Pt.
Kinney Pt.
Mill Pt.
CLALLAM CO.
JEFFERSON CO.
OAK BAY
PUGET SOUND
B
CHIMACUM VALLEY
WEST VALLEY
Olele Pt.
Bagalt Pt.
Mats Mats Bay
T29N
T28N
B'
Tala Pt.
PORT LUDLOW
Port Ludlow
Pt. Hannon
Bywater Bay
Termination Pt.
T28N
T27N
CLALLAM CO.
JEFFERSON CO.
Little Quilcene River
SQUAMISH HARBOR
Tarboo Bay
JEFFERSON CO.
KITSAP CO.
C
Quilcene
South Pt.
CANAL
HOOD
Big Quilcene River
QUILCENE BAY
BOLTON PENINSULA
Thorndyke Bay
WILLAMETTE MERIDIAN
R1W
R1E
C'
Fishermans Pt.
Frenchmans Pt.
T27N
T26N
BAY
PENINSULA
Whitney Pt.
Brown Pt.
Tabook Pt.
TOANDOS
Jackson Cove
Pulali Pt.
Wawa Pt.
DABOB
Dosewallips River
Brinnon
Zelatched Pt.
Tekekwe Pt.
Hazel Pt.
T26N
T25N
Sylopash Pt.
Oak Head
Dosewallips
MATCH LINE - SEE INSET
N
SCALE 1:48,000
INSET
MATCH LINE
Black Point
Quatrap Pt.
McDaniel Cove
Triton Cove
Triton Head
T25N
T24N
R3W
R2W
EXPLANATION
Well located, static water level reported.
Well located and water level measured by DOE personnel.
R1 Capital letter and number indicate location, see text for explanation.
32 Static water level is 32 feet above mean sea level.
-10 Static water level is 10 feet below mean sea level.
– No static water level reported.
75D Well was dry at total depth of 75 feet above mean sea level.
10F Flowing well and top of casing is 10 feet above mean sea level.
J? Location of well is in question.
All wells on map are listed in table 1 of report.
NOTE
SEE PLATE 2 FOR GEOLOGIC CROSS-SECTIONS AND EXPLANATION, SCALE, BASE DATA, AND INDEXES.
STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
WELL LOCATION MAP
OF
EASTERN JEFFERSON COUNTY
WASHINGTON
Scale: 1:48,000 (4000 feet per inch)
Date: NOVEMBER 1980
By: PEDER GRIMSTAD
Drawn by: JOHN C. MILHOLLIN, C.E.T., CARTOGRAPHER
PLATE 3