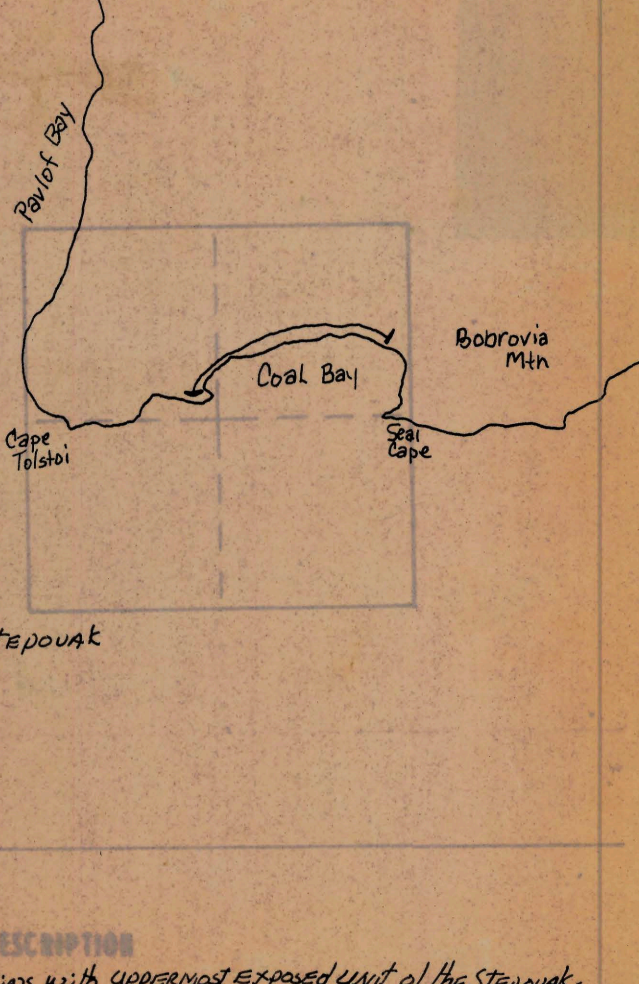


R _____ STAT

^D
THE APPARENT UPPERMOST AND ENDED WITH THE LOWEST EXPOSED:

LOCATION 55° 22' 161° 22'

PLANTED 10/3/2000 DATE 25 JUNE 77

[illegible]

UNIT 1
 Sandstone, green-gray, coarse-medium (occasional granules) grades downward to very fine, poorly sorted, sh-sa, argillaceous, grayish, flags, occasional red chert, qtz 20%, feldspar 20%, with 25% x-bedding, climbing ripples?, best seen x-bed.
 Siltstone, 5' thick, includes petrified logs.
 ss as above, parallel beds 1'-3' thick, sub-spherical concretions, numerous calcite veins.
 Scattered burrows, highly weathered/clayey, capped by recent dunes, sparse mollusk shells.
 Covered Interval: estimated dip 12° $\therefore \sin 12 \times 490' \approx 100'$
 it is assumed that the above sequence of siltstone, as sh has continued.

UNIT 2
 Mudstone/claystone, gray, fissile to hackley fracture, highly jointed, concretions (slightly calcareous), some interbedded sandstone: gray, med, poorly sorted, subangular. 1-2' to 10' thick.
 Partly covered interval, outcrops every 10'-20'.
 Mudstone as above
 E-W strike
 shale + siltstone, gray, fissile, as above
 Partly covered interval as above
 shale, gray, fissile

UNIT 3
 Possible fault in this vicinity, partially covered interval, beach intersected by a stream.

UNIT 4
 Sandstone, gray, medium-coarse, poorly sorted, angular, bedded 2-3' thick, interbedded with shale, primarily, siltic frags, some biotite. N70W 46°SW
 shale, gray-black, in part iron rich, fissile-hackley, beds 10'-15' thick with 18"-3' thick interbeds of ss as above.
 Sandstone interbeds: gray-green, med grain, poor sorting, angular, otherwise massive.
 Calcite veins throughout this unit, no concretions.
 shale as above
 Partly covered interval, ss, siltstone, sh outcrops 10'-40' as above.
 shale, silty, other wise as above

UNIT 5
 Sandstone, gray-green, medium, poor sorting, angular, 2-3' thick beds, some biotite.
 shale as above, thinly bedded, with thin interbeds (1"-3") of ss as above.
 Pebbles, clay, gray, bedded, matrix argillaceous med. ss, andesite clasts, pebble size, sub rounded. At bottom of unit 10'.

UNIT 6
 Faulted zone, highly disturbed, convoluted, brecciate with gouge. Plastic deformation, numerous calcite veins. Shump features of soft sediment deformation. Unable to determine direction of fault.

UNIT 7
 Shale, dark black, fissile, thinly bedded
 Strike E-W, 40°S
 Silty mudstone, gray, hackly fracture
 Sandstone, gray-green, med, p. sorting, ang, 3' thick, low porosity
 shale as above
 Sandstone, green, medium, p. sorting, ang, laminated, x-bed, flagstone "like" medium, in part massive x-bed strike N60E, spars, bedding irregular strike N60W, faint oscillation ripples, poorly poor.
 Rhythmic sequence of sh, siltstone, ss, green med ss as above, resembles an air fall bluff?
 Rhythmic deposition as above, here ss contains numerous carbonized wood. Some sand has ang. v. coarse volcanic clasts, laminated otherwise as above.
 Inclusion N63E, ripple? - 1/2" amplitude symmetrical.
 Structural strike E-W, 45°S
 ss + sh as above, some ss 1/2"-1" thick "sand paper" sand, possible airfall interbedded in sh.

UNIT 8
 Mudstone, green, very highly indurated with some calcite veins.

UNIT 9
 Sandstone, gray-green, very coarse-med, very poorly sorted, ang-sub ang. Alternating well/poorly cemented beds, poorly developed iron concretions, some chloritized clasts, carbonized wood. Ripples E-W, in part soft deformation 3'-4' diameter structures, linear E-W.
 Rhythmic sequence of gray shale and ss as above; ss gray-green, med-fine, poorly sorted, ang, massive, thin beds, highly volcanic.
 Very black shale, otherwise as above
 shale is predominant over ss, which is thinly interbed in sh. 1"-4" thick
 Some calcite veins conformable to bedding.
 shale as above
 Highly altered rhythmic ss + sh as above - baked/bleached by andesite intrusions.
 Diorite intrusion, green, very mafic, med. grain xls, numerous calcite veins

UNIT 10
 Shale, gray, laminated, slightly fissile, baked near contact
 Diorite intrusion, similar/same as above

UNIT 11
 Mudstone, dark gray, N85E, 37°SE
 ss, yellow-gray, fine-med, p-mod sort, ang, laminated carb-plant frags.
 shale, dark, very thin laminations, numerous plant impressions
 ss gray med-top, med sort, ang, largest inclusion gravel/pebbles bedded x-bedded at the bottom, 1" thick (wood) ripples/linear. Trend of x-bed 316W, SRSW. Strike N78E, S55E
 sh siltstone, gray, v. fine
 ss, green, fine to med, coarse at bottom, poor-uniformly sorted, ang, well bedded in the upper lower (lower) laminated to massive above.
 wide included sh clasts 2-2 1/2" dia - ripple clasts, channel deposit volcanic sand, chloritized, soft sediment deformation, dip-ir structures 2'-4' N60E, 45°SE
 sh, thinly laminated as above
 ss, gray-green, v. f. med sorting, sub ang, thinly bedded 1/2"-1" coarsly seam 2-8" thick. N88E 26SE
 Rhythmic sequence of fine-v. fine ss gray, med sorting, ss with gray to black shale interbedded 3'-15" thick
 E-W, 31°S
 ss, gray, f-m, p-mod sort, sa, argillaceous, groove casts orientated 316°W, 1" thick interbed of green friable sh.
 shale as above with 3"-4" dia concentric lies any banding
 50' COVERED Interval, assumed to be a global lithologic continuation
 Rhythmic sequence as above
 ss dike, vertical with carbonaceous clasts
 Andesite dike, vertical, calcite veins, baked/altered sh, nearby

UNIT 12
 Siltstone/shale, as above, jointing conc. 2-4" dia, numerous carbonized wood + plant frags. More siltstone + upper than shale 2-4".
 sandstone, lt. green, very fine-silty, ang, med sorted volcanic tuff-argous, weathered ash (clayey) matrix, soft sediment deformation structure N60E, 33S. E-W direction of deformation structure 2-2' dia. Ang green at the bottom.

UNIT 13
 Rhythmic sequence of sh, ss, siltstone, black sh, highly friable green ash, siltstone, ss, green, of sub ang, p-mod sort, 1"-10" thick max. Every 15'-20'. N60W, 28°SW
 Andesite silty, strike of all N60W 35°SW
 graded beds: 1" thick beds toward dip S55E
 coarsly spars 2-3' sub bituminous
 N88E, 38SE
 ANDESITE SILL
 COVERED INTERVAL, appears to be as above rhythmic sequence

UNIT 14
 Breccia, bc-granular, purple, tuff, needs, highly weathered
 Large fault here, directions not known, but 12 ss are similar to Unit 5 ss ie sand paper "ss. N85E, 66°SE

UNIT 15
 Rhythmic sequence of sh, sandstone, siltstone, v. ss + some coarse ss. Very similar to Unit 5.
 Sandstone tan-green, of fine, poor-mod sorting, low porosity, thinly laminated beds 6"-3".
 discordant calcite veins, hackly fracture, non equal interbedding, primarily mudstone + siltstone.
 Numerous carbonaceous woody inclusions on bedding planes, some iron concretions 2 1/2" dia
 Bottom of the Section
 Last visible outcrop going down section in the Steepoak. After the covered interval the next outcrop is where the bay curves around + the outcrops are up section.