

AREA  
ID  
Cassia  
RR  
Core

Raft River Well #RRGE-1

- 4495-4500.5: Argillite(?); highly altered and fractured, weathered pisolitic-like texture with numerous micro-faults, white to med. gray, highly porous, some calcite, prob. silica cemented.
- 4506-4509.5: Felsite; highly altered, med. gray - lt. gray, calcite & silica cementing, argillic alteration poss. andesite flow. Spherulitic, also chlorite/epidote alt. in metarox, highly frac. (meta-siltst.). Calc. on weathered surfaces.
- 4509.5-4516: Alternating chl./Ep. alt. meta-siltstone, & poss. altered and highly fractured intrusive. Limonite stain along slickensides. Microfaults 50-55° in metarox.
- 4686-4690: Metasiltstone; med. gray to brown w/layered quartz(?) qtz veins along fracs. subparallel to bedding. High angle microfaults (>80°). Hematite stained along fracs.
- 4694-4696: AA.

Inventory of Raft River samples  
in ESL storage as of 1/26/81

Raft River Well #RRGE-2

- 3072-3074.9: Siltstone; lt. gray w/moderate angle microfaults.
- 3074.9-3077.9: Tuff (?); Rhyolitic, non-welded or tuffaceous seds. very light, porous, prob. high angle frags.
- 3077.9-3080.2: AA.
- 3080.2-3083: AA.
- 3083-3085.7: AA.
- 3085.7-3088.5: AA.
- 3735.9-3737.8: Congl; calcite cement. clasts of quartzite & metarox. Some limestone clasts (weathered).
- 4370-4376: Slate; black, bedding 50° from horizontal numerous frags. vert. to bedding w/ calcite along frags. & bedding.

Raft River Well #RRGE-3C

- 2806.7-f2807.5: Sandstone & Claystone; med. gray to dk. gray locally carbonaceous w/convolute bedding, sediments tuffaceous, inclined to core 20°-25° from horizontal, Ss. is MG to FG arkose(?)
- 2809.2-2811.0: Sandstone & Siltstone; lt. gray to lt. green, tuffaceous, calcareous, bedding inclined to direction of core 30° from horizontal. Core #1, box 1 of 5.
- 2812-2815: AA. sandstone - VFG to FG.
- No Depths: Siltstone & Claystone; very thin bedded, inclined to core direction 10-20°. Core #1, box 5 of 5.
- 3967-3975: Sandstone & Claystone; irregularly bedded w/local convolutions, sandstone dominantly MG to FG, tuffaceous and micaceous, minor calcite cement.
- 3976-3977: AA.
- 4977-4978: Claystone; lt. gray to med. gray and green, high angle frags. (+75°), some frac. filling, inclined bedding.
- 4994-4995: Siltstone & Claystone; thinly laminated, inclined to core - 20 to 25° from horizontal, high angle frags. filled w/calcite, angles between joints 45-60°, med. gray to light tan.
- 5270-5272: Siltstone & Claystone; irregular to convolute bedding, micro-faults offset horizons < 1/2', bedding inclined to core direction up to 30°, prob. soft sediment deformation.
- 5550-?: Mica Schist; w/calcite veinlets (one very small piece of core).
- No Depths: Tuff, non-welded, lt. gray, w/calcite veinlets. Core #2, box 3 of 5.
- No Depths: Siltstone & Claystone; very thin bedded, inclined to core direction 10 to 20°.

Raft River Well #RRGI-4

- 2840.8-2845: Sandstone; med. gray, FG to MG, tuffaceous, biotite appears fresh.
- 2845.8-2854: Sandstone, Siltstone, Claystone; irregular bedded w/clasts of rhyolite(?) incorporated, some convolutions, prob. rhyolitic ash flow or dacite flow.
- 4644-4645.8: Sandstone, Siltstone, and Claystone; broken, w/carb. horizons, finer grained fractions are convoluted, numerous micro-faults, prob. soft sediment deformation, sand is calcite cemented, qtz. veinlets x-cut bedding.
- 4645.8-4655: Gneiss; Altered, w/low angle (35°) fault w/slickensides showing strike slip component. Also brecciated metasiltstone w/some pyrite, epidote, and chlorite alteration.
- 4655-4656.5: AA.
- 4655-4659.5: Metamorphic breccia; some pyrite & clays along fault planes.
- 4659.5-4670: AA.

Raft River Well #RRGP-5

- 3727-3728: Siltstone & Claystone; minor interstrat. SS. (FG)
- 3729-3732: Siltstone & Claystone; AA., slickensides on low angle surface near 3729, poss. produced by coring.
- 3732-3735: AA. vertical frags. w/calcite w/ $<1/2'$  offset. Well cemented.
- 3735-3738: Claystone: lt. gray - med. gray. Calcareous, inclined strat. ( $15^\circ$ ), high angle calcite veins & low angle micro faults.
- 3738-3741: AA.; w/thin beds of VFG Ss.
- 3741-3743: Siltstone/Claystone; AA. grading downward into lithic arkose(?) w/grains of mafic volc., microfaults & calcite veins.

Raft River Well #RRGI-6

- 3005-3007: Sandstone; Lt. gray-med. gray, locally calc., VFG silty, bedding inclined 20° from horizontal thin carb. zones. fresh, unfractured.
- 3007-3010: A.A.
- 3010-3013: A.A.
- 3013-3016: A.A.
- 3016-3019: Siltstone/Sandstone; lt.-med. gray, tuffaceous thinly laminated and convolute bedding, sand component. VFG to FG.
- 3019-3022: A.A. more highly contorted and convolute bedding, bedding often obliterated, sometimes inclined w/carb. zones along planes. Sample interval prob. wrong (too much core!!).
- 3022-3028: AA.
- 3732-3735: Claystone; med-dk. gray, massive, calcareous, high angle (near vert.) frags. filled w/calcite, some frags. w/displacements < 1/2" inclined bedding (5°) w/micaceous zones. Vert. frags. w/some slickensides (prob. drilling).
- 3880-3882: Tuffaceous Ss. & pebble congl.; pebbles composed of quartzite & meta rock frags. also limestone & dolomite frags.
- 3883-3885: Tuffaceous Ss. & Claystone; inclined bedding some carb. horizons, calcite filling of near vert. frags.
- 3886-3888: Poss(?) lithic tuff; or water reworked (minor?) lithics 2-5 mm, biotite up to 3mm±, calcite cement.

Raft River Well #RRGI-7

3829-3832: Claystone, siltstone, sandstone; tuffaceous lt. gray to med. gray locally carb. w/convolute bedding, calcareous & micaceous.

3832-3835: Claystone, siltstone, sandstone; tuffaceous lt. gray local inclusions of Ss. clasts; thinly laminated irregular bedding. Fracs. gen. 45-80° from vertical. Sandstone - calc., micaceous, VFG to CG.

3835-3838: Lithic Sandstone; coarse grained, abundant qtz. grains, lithic clasts prob. mafic, volc., large calcite crystals around grain bndys.

3838-3841: Claystone & Siltstone; weak calc., local sandy possible mudflow near 3840, core sometimes rubble., no visible frags. in +4" pieces.

3841-3844: A.A., more rubblized core.