HOPE-U-LIKE IT

Bulloch Co. Statesboro Sayre-Atlantic Gas Co #1

0-36' - white → grey clay
Fe staining
trace black rounded phosphate
{sand - fine to coarse
angular to subrounded
milky - clear

36-71' - predominately (95%) sand - clear to milky
angular → subrounded - Fe staining - clay
arkosic - finely disseminated black rounded
phosphate nodules inclusions (black) within
qtz grains

71-94' - sand subrounded-angular fine to coarse
Fe stained clear to milky
phosphate (fine) white clay
these sand grains are not as clear as those
in the 36-71' interval

94-116' sand subrounded-angular fine to coarse
Fe stained clear to milky
phosphate (fine) white clay - more Fe
stained than above (possible green)

116'-138' - sand - more coarse than above
much clearer - some milkiness - subrounded to
angular slight Fe staining - qtz has some
black inclusions (phosphate for sure in some cases)
white clay possible feldspars

133-161' - sand - clear to milky, coarse grained to very fine to clayey, significant increase in size and amount of black phosphate white clay
brown (tan) rounded nodules - not easily broken - reacts oddly w/ HCL black inclusions very very finely disseminated within the nodule - chert? dolomitized something? No Phosphate

161-184' sand - clear to milky - not as coarse as above - subrounded to angular, phosphate as above white/cream clay
pyrite, chalcopyrite?
much more brassy; pyrite is easily broken into single tiny tiny xls. phosphate - not as individual nodules but as inclusions in or within the qtz grains.)

184-207' sand - clear to milky, subrounded to angular white - cream clay - phosphate - trace of glauconite

207-229' - sand - clear to milky - at times opaline - subrounded pred over angular - no clay except in veinlets - phosphate - significant increase in size and amount than before - ranges in color from tan-brown, to grey-to black, qtz grains have acicular inclusions (rutile?)

was this sample washed?

229-252' - same as previous sample

252-275' - sand - subrounded to angular, clear to milky
rose qtz — fe stained - clay for some (white) phosphate as
before - more calcitized than previous sample
(reacts readily with HCl)

275-298' - sand - subrounded to angular, clear to milky
rose qtz white clay, phosphate as before - more calcitized than
previous sample - inclusions within qtz grains
phosphatized shells

298-320' - sand - subrounded to angular, clear to milky
rose qtz white clay, phosphate as decreased in amount -
Shell fragments dominant

320-342' - 1st. fossiliferous - shell frag - forams
coral - phosphate (may be contamination from above)
some qtz grains - gastropods, lepidos, bryozoans

342-363' chock full of fossils - lepidos - bryozoans -
globulas - others accretions no shell fragments

363-423' - 1st- fossils - same as above -
qtz + phosphate may be contamination - lepidos -
bryozoans - globulas

423-446' - much whiter than before - more lst than fossils shell frag - bry, glauc, phosphate maybe contamination

446-478' fossiliferous lst - creme to white - echinos, bry, globula, other strange accretions qtz (clear) phosphate - (sparse) [dolomite?]

478-502' fossiliferous lst - creme to white echinos - bry, other accretions - more clear qtz + black - to brown phosphate than before - coral some pieces distinctly pink (possibly dolomite) pyrite/marcasite - glauconite - some qtz grains have acicular inclusions

502-524' - fossiliferous lst - creme to white much less fossils than previous sample - bryozoans, coral, phosphate, pyrite - lst is uniform in size and type

524-547' lst - creme to white - even fewer fossils than previous sample - some bryozoan stems - pyrite

561-570' - lst. few fossils. significant increase in qtz + phosphate

570-592' - lst + sand w/ some phosphate bryozoan stems, shell frag, coral?. sand is subrounded to angular - clear frosted coarse

592-615' - same as above

615-636' - much whiter lst than previous samples coarser xlline - pyrite; glauconite clear qtz grains

636-659' - ditto - more qtz than above

659-682' - ditto - more qtz than 636-659'

682-705' - ditto - more pyrite

705-728' ditto

728-750' - lst (cream-to white) brown dolomite qtz(clear) pyrite glauconite

750-772' grey-to brown dolo predominate w/ cream lst pyrite, glauconite; clear qtz

772-795' - White to cream glauconitic lst trace dolo, pyrite - some fossils - very clayey

795-818' - glauconitic, clayey, minor dolo phosphate (trace) - possibly some pyrite

818-841' ditto - more glauconitic - not as chunky as previous sample - appear to be more fossils

841-864' cream fossiliferous lst; bulk of sample ≥ 30% glauconite, some qtz + phosphate; lst is only slightly fossiliferous

866-909 - cream fossiliferous lst - hardly any glauconite - increase in phosphate increase in clear qtz