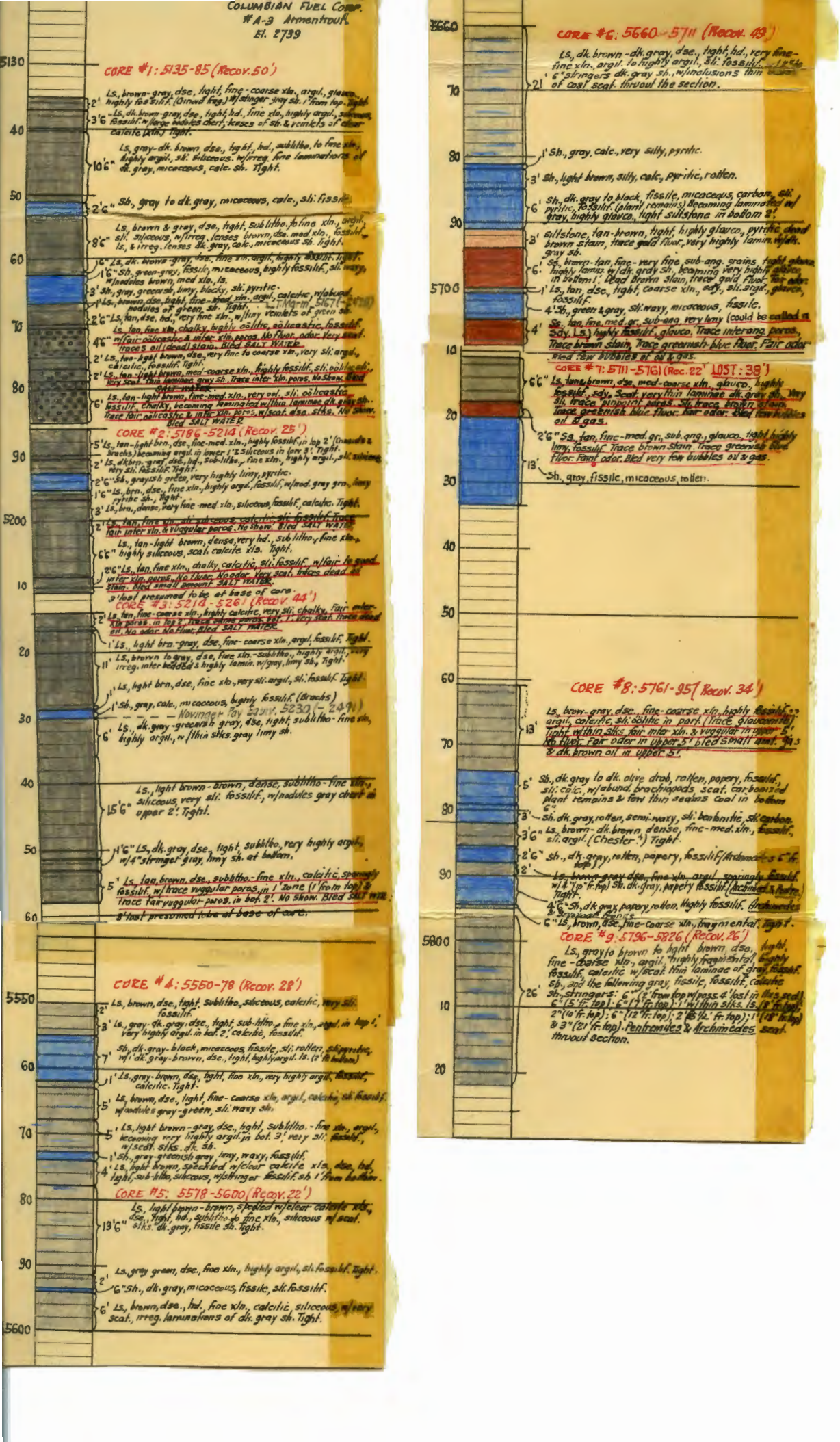

COLUMBIAN FUEL CORP.
#A-3 Armentrout
El. 2739
CORE #1: 5135-85 (Recov. 50')
Ls., brown-gray, dse., tight, fine-coarse xln., argil., glauco. highly fossilif. (Gnawd frag.) w/stringer gray sh. 1' from top. Tight
Ls., dk. brown-gray, dse., tight, hd., fine xln., highly argil., siliceous, fossilif. w/large nodules chert; lenses of sh. & remlets of clear calcite (ptfx.) Tight.
Ls., gray-dk. brown dse., tight, hd., sublitho. to fine xln., highly argil., sli: siliceous. w/irreg. fine laminations of dk. gray, micaceous, calc. sh. Tight.
Sh., gray to dk. gray, micaceous, calc., sli: fissile
Ls., brown & gray, dse., tight, sublitho. to fine xln., argil., sli: siliceous, w/irreg. lenses brown, dse. med xln., fossilif. ls., & irreg. lenses dk. gray, calc., micaceous sh. Tight.
Ls., dk. brown-gray, dse., fine xln, argil., highly fossilif. Tight.
Sh., green-grey, fissile, micaceous, highly fossilif., sli: waxy, w/nodules brown, med xln., ls.
Sh., gray, greenish, limy, blocky, sli: pyritic.
Ls., brown, dse., tight, fine-med. xln., argil., calcitic, w/abund. nodules of green sh. Tight.
Ls., tan, dse., hd., very fine xln., w/limy vamlets of green sh.
Ls. tan, fine xln., chalky, highly oolitic, oölicastic, fossilif.
w/fair oölicastic & inter xln. poros. No Show. Bled SALT WATER. trace s oil (dead) stain.
Ls., tan-lgt brown, dse., very fine to coarse xln., very sli: argil., calcitic, fossilif. Tight.
Ls., tan-light brown, med-coarse xln., highly fossilif. sli: oolitic ab. Very Scat. thin laminae gray sh. Trace inter xln. poros. No Show. Bled SALT WATER.
Ls., tan-light brown, fine-med. xln., very ool., sli: oölicastic, fossilif., chalky, becoming laminated w/thin laminae dk. gray sh. trace fair oölicastic & inter xln. poros. w/scat. dse. stks. No Show. Bled SALT WATER.
CORE #2: 5186-5214 (Recov. 25')
Ls., tan-light brn., dse., fine-med. xln., highly fossilif. in top 2' (Gnawds & brachs.) becoming argil. in lower 1'. Siliceous in low 3'. Tight.
Ls., dkbrn.-gray, dse., hd., sub-litho., fine xln., highly argil., sli: siliceous very sli. fossilif. Tight.
Sh., grayish green, very highly limy, pyritic.
Ls., brn., dse., fine xln., highly argil., fossilif., w/mod. gray grn., limy pyritic sh., tight.
Ls., brn., dense, very fine-med xln., siliceous, fossilif., calcitic. Tight.
Ls., tan, fine xln., sli: siliceous, calcitic, sli: fossilif. Trace fair inter xln. & vuggular poros. No Show. Bled SALT WATER
Ls., tan-light brown, dense, very hd., sublitho., fine xln., highly siliceous, scat. calcite vlts. Tight.
Ls., tan, fine xln., chalky, calcitic, sli: fossilif. w/fair to good inter xln. poros. No Fluor. Weaker, very scat. traces dead oil stain. Bled small amount SALT WATER.
3' lost presumed to be at base of core.
CORE #3: 5218-526' (Recov. 44')
Ls. tan, fine-coarse xln., highly calcitic, very sli. chalky, fair inter. xln. poros. in top 2'. Trace vuggular poros. bot. 1'. Very scat. traces dead oil. No odor. No Fluor. Bled SALT WATER.
Ls., light brn.-gray, dse., fine-coarse xln., argil., fossilif. Tight.
Ls., brown to gray, dse., fine xln.-sublitho., highly argil., very irreg. inter bedded & highly lamin. w/gray, limy sh., tight.
Ls., light brn., dse., fine sh., very sli: argil., sli: fossilif. Tight.
Sh., gray, calc., micaceous, highly fossilif. (Brachs)
— — — — Novinger Pay Equiv. 5230 - 24'
Ls., dk. gray-greenish gray, dse., tight, sublitho.- fine xln., highly argil., w/thin stks. gray limy sh.
Ls., light brown-brown, dense, sublitho.-fine xln., siliceous, very sli: fossilif., w/nodules gray chert in upper 2'. Tight.
Ls., dk. gray, dse., tight, sublitho., very highly argil., w/4" stringer gray, limy sh. at bottom.
Ls., tan, brown, dse., sublitho.-fine xln., calcitic, spongily fossilif., w/trace vuggular poros. in 1' zone (1' from top) & trace fair vuggular poros. in bot. 2'. No Show. Bled SALT WATER.
3' lost presumed base of core.
CORE #4: 5550-78 (Recov. 28')
Ls., brown, dse., tight, sublitho., siliceous, calcitic, very sli: fossilif.
Ls., gray-dk. gray, dse., tight, sub-litho., fine xln., argil. in top 4', very highly argil. in bot. 2', calcitic, fossilif.
Sh., dk. gray-black, micaceous, fissile, sli: rotten, shippy-tex., w/dk. gray-brown, dse., tight, highly argil. ls. (2' th bottom)
Ls., gray-brown, dse., tight, fine xln., very highly argil., fossilif., calcitic. Tight.
Ls., brown, dse., tight, fine-coarse xln., argil., calcitic, sli: fossilif. w/nodules gray-green, sli: waxy sh.
Ls., light brown-gray, dse., tight, sublitho.-fine xln., argil., becoming very highly argil. in bot. 3', very sli: fossilif., w/scat. stks. dk. sh.
Sh., gray-greenish gray, limy, waxy, fossilif.
Ls., light brown, speckled w/clear calcite xls., dse., hd., tight, sub-litho, siliceous, w/stringer fossilif. sh 1' from bottom.
CORE #5: 5578-5600 (Recov. 22')
Ls., light brown-brown, speckled w/clear calcite xls., dse., tight, hd., sublitho. to fine xln., siliceous w/ scat. stks. dk. gray, fissile sh. tight.
Ls., gray green, dse., fine xln., highly argil., sli. fossilif. Tight.
Sh., dk. gray, micaceous, fissile, sli: fossilif.
Ls., brown, dse., hd., fine xln., calcitic, siliceous, w/very scat., irreg. laminations of dk. gray sh. Tight.
CORE #6: 5660-5711 (Recov. 49')
Ls., dk. brown-dk. gray, dse., tight, hd., very fine-fine xln., argil. to highly argil., sli: fossilif.
6" stringers dk. gray sh., w/inclusions thin stks of coal scat. throut the section.
Sh., gray, calc., very silty, pyritic
Sh., light brown, silty, calc., pyritic, rotten.
Sh., dk. gray to black, fissile, micaceous, carbon., sli: pyritic, fossilif. (plant remains) Becoming laminated w/ gray, highly glauco., tight siltstone in bottom 2'
Siltstone, tan-brown, tight, highly glauco., pyritic, dead brown stain, trace gold fluor, very highly lamin. w/dk. gray sh.
Ss. brown-tan, fine-very fine, sub-ang. grains, tight, glauco. highly lamin. w/dk. grdy sh., becoming very highly glauco. in bottom 1'. Dead brown stain, trace gold fluor. Fair odor.
Ls., tan, dse., tight, coarse xln., sdy., sli. argil., glauco., fossilif.
Sh., green & gray, sli: waxy, micaceous, fissile.
Ss. tan, fine-med. gr., sub-ang very limy (could be called a Sdy. Ls.) highly fossilif., glauco, Trace interang. poros. Trace brown stain, Trace greenish-blue fluor. Fair odor. Bled few bubbles of oil & gas.
CORE #7: 5711-5761 (Rec. 22' LOST: 38')
Ls., tan-brown, dse., med-coarse xln., glauco., highly fossilif., sdy. Scat. very thin laminae dk. gray sh. Very sli. trace diagonal poros. sli. trace brown stain, trace greenish blue fluor. Fair odor. Bled few bubbles oil & gas.
Ss. tan, fine-med. gr., sub. ang., glauco., tight, highly limy, fossilif. Trace brown stain. Trace greenish blue fluor. Faint odor. Bled very few bubbles oil & gas.
Sh., gray, fissile, micaceous, rotten.
CORE #8: 5761-95 (Recov. 34')
Ls. brown-gray, dse., fine-coarse xln., highly fossilif., argil., calcitic, sli: oolitic in part (trace glauconite), tight within stks. fair inter xln. & vuggular in upper 5'. No fluor. Fair odor in upper 5' bled small amt. gas & dk. brown oil in upper 5'.
Sh., dk. gray to dk. olive drab, rotten, papery, fossilif., sli: calc., w/abund. brachiopods scat. carbonized plant remains & few thin seams coal in bottom 6".
Sh. dk. gray, rotten, semi-waxy, sli: bentonitic, sli: carbon.
Ls. brown-dk. brown, dense, fine-med. xln., fossilif., sli. argil. (Chester-?) Tight.
Sh., dk. gray, rotten, papery, fossilif/brachs - 5 6" fr. top)
Ls. brown-gray dse. fine xln. argil. sparingly fossilif. w/4" (10' fr. top) Sh. dk. gray, papery fossils (Archimed & Fenes.) Tight.
Sh., dk. gray, papery, rotten, highly fossilif. Archimedes & Pinnacloid Fenestes
Ls., brown, dse., fine-coarse xln., fragmental. Tight.
CORE #9: 5796-5826 (Recov. 26')
Ls. gray to brown to light brown, dse., tight, fine-coarse xln., argil. highly fragmental, highly fossilif., calcitic w/scat. thin laminae of gray, fossilif. sh., and the following gray, fissile, fossilif., calcitic sh. stringers: 6" (2' from top w/pass 4' last in this zone) 6" (5' fr. top); 6" (7' fr. top); 1' w/thin stks. ls. (8' fr. top); 2" (10' fr. top); 6" (12' fr. top); 2" (15 1/2' fr. top); 1" (18' fr. top) & 3" (21' fr. top). Fenestrates & Archimedes scat. throut section.