## SAMPLE DESCRIPTION OF GREEN RIVER Q-12 COREHOLE

## SW NW SE Sec 24 T 18 N R 107 W, Sweetwater Co., Wyo. February 1971

G. F. (Pete) Dana

## Secret Food 10 - 6210.6

- 375.0-377.0 Core begins in Wilkins Peak Mbr of Green River Formation.

  Interbedded dolomitic siltstone and very fine-grained sandstone,
  light to medium gray, distinctly bedded, some thin layers of
  pyrite and light dolomite.
- 377.0-381.0 Siltstone, dolomitic, medium to dark gray, distinctly layered, thin beds of pyrite and light dolomite, very finely crystalline.
- 381.0-381.9 Mudstone, gray to grayish-green, dolomitic, same beds with pyrite as above.
- 381.9-382.9 Mudstone and some siltstone, dolomitic, gray to brownish-gray, distorted and wavy bedding.
- 382.9-384.1 Oil shale, gray, brownish-gray, abundant scattered pyrite crystal faces, faintly varved.
- 384.1-384.7 Oil shale, medium gray to black, pyrite as above, faintly varved.
- 384.7-387.5 Oil shale, tan to brownish-gray with band of dark gray at 385.1-385.2', abundant crystals, both scattered and in veinlets, rare wavy bedding.
- 387.5-388.3 Oil shale (?) or siltstone, dolomitic (?) faintly layered, light to medium gray, some tannish-gray, abundant to rare scattered pyrite crystals.
- 388.3-391.1 Siltstone and interbedded mudstone, light to medium gray, pyrite veinlets and thin layers, rare black to gray thin layers.
- 391.1-392.9 Oil shale, medium gray to olive drab, some scattered crystals, faintly varved. Top of Tipton member.
- 392.9-396.2 Oil shale, brown, dark brownish-gray, some black, fairly massive with some faint varying, some scattered pyrite crystals.
- 396.2-398.6 Oil shale (?) or mudstone, light gray to gray, tan to light brown, dolomitic, some scattered crystals and some discontinuous layers of pyrite.
- 398.6-399.7 Oil shale, gray, discs easily, probably higher clay content.
- 399.7-401.0 Oil shale, brown, gray to dark brownish-gray, firm, hard, very faintly varved.

- 401.0-402.5 Oil shale, gray to dark gray, discs easily.
- 402.5-406.6 Oil shale, gray and brown to some dark brown and dark gray, varved, some scattered small pyrite crystal faces, rare brown dolomite inclusion at 405.3, firm.
- 406.6-408.6 Oil shale, dark gray to black, faintly varved. Thin bed of crystalline pyrite at 406.65', not as firm as 402.5-406.6'.
- 408.6-408.7 Tuff, tan and gray, slightly sandy, variable thickness, minor pyrite.
- 408.7-409.9 Oil shale, dark gray to black, some dark brownish-gray, very faintly varved, rare pyrite crystals in basal 0.1'.
- 409.9-410.2 Tuff, tan to brown, interlaced with stringers of dark oil shale to the point of appearing mottled, tan layer at 410.1', brown dolomite inclusion at 409.9'.
- 410.2-410.5 Oil shale, dark gray to black, faintly varved in part.
- 410.5-412.2 Oil shale, gray, olive-drab, greenish-gray, very faintly varved, rare zones of scattered pyrite crystals, dolomite layers, tan, semi-lithographic, at 411.25' and 411.3'.
- 412.2-418.1 Oil shale, dark gray to black, bed of brown resinous shale, distorted, at 412.35'. Some shale faintly varved.
- 418.1-418.2 Dolomite, reddish-brown, dense, hard.
- 418.2-418.3 Oil shale, black with layer of brown containing inclusion of drusy crystalline pyrite.
- 418.3-418.5 Tuff, white and yellow, silty, porous, laced with hairline fractures filled with gray shale. Immediately above and below white tuff are yellow tuffs, interbedded with black shale.
- 418.5-418.9 Oil shale, gray to black, interbedded with dolomite, brown to maroonish-brown, hard, dense, both as beds and as inclusions, some purple.
- 418.9-418.95- Tuff, brown, resinous, oil saturated, porous, contorted bedding, with some dolomite, tan, dense underlying tuff.
- 418.95-420.15 Oil shale gray, black with scattered large pyrite crystal faces, interbedded with dolomite, tan, brown, maroonish-brown as both beds and inclusions, some purple.
- 420.15-421.6- Oil shale, gray to black, rare brownish-gray.

- 421.6-421.7 Tuff, gray, maroon, reddish-brown, mottled, oil-saturated at top, slight porosity.
- 421.7-424.3 Oil shale, gray to black, with rare tan and brown dolomite beds, discs easily.
- 424.3-424.4 Tuff, gray, brown, mottled, porous, pyritic in part, zones of oil saturation, capped by layer dolomite, tan, dense, silty.
- 424.4-425.75- Oil shale, gray, dark gray, black, faintly varved, layers of tan to brown dolomite, hard, dense at 424.7-424.75', 424.9', 425.9'.
- 425.75-426.15 Tuff or fine-grained sandstone, brown, maroon, hairline fractures filed with tan dolomite (?) porous, some residue oil content M-BED.
- 426.15-426.6- Oil shale, dark gray to black, upper 0.2' interbedded with dolomite, brown, dense, thus displaying distinctive beds.
- 426.6-427.8 Oil shale, gray, some brownish-gray, discs easily, slightly dolomitic.
- 427.8-427.9 Tuff, tan, gray, maroon, numerous oil residue patches, fractured, underlain by dolomite inclusion, tan, purple, gray, hard.
- 427.9-428.1 Dolomite, tan, brown, layered and interbedded with thin oil shale beds, gray, brown, pyritic inclusions and discontinuous layers, secondary flow features evident.
- 428.1-428.85- Oil shale, gray to dark gray, varved in part, tan silty coprolites at 428.4', 428.75'.
- 428.85-428.9 Dolomite, tan, silty, as inclusion.
- 428.9-429.4 Oil shale, gray, rare pyrite crystal faces, distinct flow feature as emphasized by lighter colored, fracture-filling material.
- 429.4-429.6 Dolomite, tan, brown, layered, dense.
- 429.6-431.6 Oil shale, gray to black, faintly laminated, discs easily.
- 431.6-431.8 Tuff, gray, maroon, fine-grained, trace oil stain, porous, white chalky layer overlying tuff. Dolomite, tan, dense, both underlies and overlies the tuff.
- 431.8-433.0 Oil shale (?) lean, or mudstone, light to medium gray, tan to brown, discs easily, rare dolomite layers, tan, dense.