

CORE DESCRIPTIONS
STANDARD OIL COMPANY OF CALIFORNIA "HOAGLAND" #1
Location - Sec. 11, T-7-N, R-10-W
Clatsop County, Oregon

Spudded 4/27/55
Abandoned 6/17/55
T.D. 7,101

- CORE #1 - 719'-734'. Recovered 17'. Clayey siltstone to silty claystone, faintly olive gray, firm, brittle and very slightly fissile, non-calcareous, common to abundant fossil fragments and very finely disseminated carbonaceous material. Occasional very thin (1/16" to 1/8") clayey very fine grained blue gray sandstone streaks. N.O.S.C.F. No flash. Very good dips on sandy bedding of 11°.
- CORE #2 - 988'-1000'. Recovered 13'. Cross-bedded siltstone and some claystone, medium greenish gray, firm, rather dense, compact, generally brittle and non-calcareous, very cross bedded and lenticular with common irregular thin streaks, pods and lenses of dirty, fine grained sandstone. No apparent fossils. N.O.S.C.F. No flash.
- CORE #3 - 1083'-1100'. Recovered 19'.
1083'-1090'. Siltstones and some silty sandstones, interbedded light buff gray to medium gray, generally very firm, dense and compact, very thin color laminations, locally slightly calcareous and micro-micaceous, slightly fossiliferous, grading down into:
1090'-1100'. As above but becoming slightly more coarse grained and very lenticular. Local lenses of sub-rounded to rounded coarse sand size grains are common but well cemented, very clayey and dirty. Rough field core analyses of the best looking sandstone at 1097' gave a porosity of 22.6% and permeability of 1 md. No shows. No flash. Dips vary from 3° - 5° to as high as 15°, and average 5° - 8°.
- CORE #4 - 1297'-1307'. Recovered 11'. Silty sandstone with interbedded siltstone and claystones. The silty sandstone is pale greenish gray, very firm, very dense and compact, locally slightly calcareous, commonly rather well sorted very fine sand to silt size grains, feldspathic, slightly fossiliferous, rare to occasional finely disseminated pyrite, generally thin bedded (2" - 6") with irregular repetitions of claystone, dark gray, hard, rather brittle and slightly fissile, dense and compact, very irregular and lenticular thin (1/2" thick) bedding, slightly silty and fossiliferous. No flash. Fair low angle dips of 0° - 8°.
- CORE #5 - 1512'-1522'. Recovered 10'. Silty sandstone with interbedded siltstone and claystone. Very similar to Core #4 except locally very slightly more sandy. No shows. No flash. Dips are also similar to Core #4, generally 0° - 5°.
- CORE #6 - 1727'-1737'. Recovered 10'. Claystone, medium blue gray, very firm to hard, tough, dense and compact, slightly fossiliferous, common to abundant very finely disseminated pyrite, very smooth creamy texture but with a rather blocky fracture, slightly calcareous to very locally calcareous, very homogeneous but with two (at 1735' and 1727') very distinct thin (2" - 3") intra beds of graywacke, very dirty blue gray, hard, dense and compact but rather easily shattered, very thin bedded, tuffaceous, gritty, rather poorly sorted, very coarse to medium sand size grains of generally metamorphic appearance in a very dirty extremely pyritic clayey matrix. No shows. No flash. No saline taste. Fair to good dips on the sandy bedding of 5° - 8°.
- CORE #7 - 1971'-1981'. Recovered 10'. Claystone and sandy siltstone. Claystone, dark brownish gray, hard, very dense and compact, faintly micro-micaceous, very locally slightly silty but generally homogeneous and very fine textured, thin (1/2" - 1") bedded. Sandy siltstone, greenish gray, very firm to hard, dense and compact, very tuffaceous, commonly calcareous, very tight appearing, micro-micaceous, common very fine sand size dark green to black grains. No shows. No flash. No saline taste. Dip varies from 0° - 12° but averages a good 5°.
- CORE #8 - 2183'-2198'. Recovered 10'. Claystone with streaks and interbeds of sandy siltstone, very similar to Core #7 in all details except this claystone is more silty and fossiliferous with abundant tiny brown carbonaceous fragments and the sandy siltstone is more lenticular and streaked, only locally calcareous. No shows. No flash. Fair low angle dips of 5°.
- CORE #9 - 2408'-2418'. Recovered 10'. Claystone and sandy siltstone, all details as in Core #8. No shows. No flash. No saline taste. Fair low angle dips averaging 5°.
- CORE #10 - 2653'-2663'. Recovered 10'. Claystone with lenses and interbeds of sandy siltstone, very similar to Cores 7, 8 and 9. Rare tiny clumps of pyrite crystals. No shows. No flash. Consistently low angle dips of 5° - 10°.
- CORE #11 - 2904'-2914'. Recovered 10'. Claystone and interbedded siltstone, all details as in cores 7, 8, 9 and 10. No shows. No flash. No saline taste. Fair dips of 7° - 11°.
- CORE #12 - 3143'-3153'. Recovered 10'. Sandy siltstone and some claystone, as in previous cores. Fair to good dips of 10° - 15°, predominantly 13°. No shows. No flash.
- CORE #13 - 3393'-3400'. Recovered 7'. Extremely shattered sandy siltstone and some very silty claystone of similar lithology to the previous cores. No shows. No flash. No saline taste. No dips.
- CORE #14 - 3455'-3465'. Recovered 15'. 11' Cavings and wall cake, hard packed and studded with small fragments of formation. 4' Predominantly sandy siltstone, medium gray with a slight greenish cast. Somewhat calcareous. Slightly micromicaceous. Occasional thin laminae of partially pyritized carbonaceous material. Thin interbeds of silty claystone, darker gray than above, slightly bentonitic. Good dips of 15°. Dip of a single smooth, calcite filled fracture is 60°. No odor, stain or cut. No flash. Lacks saline taste.
- CORE #15 - 3652'-3662'. Recovered 4'. 4' Claystone, medium to dark gray with a slight brownish cast. Slightly silty. Compact, moderately hard and brittle. Thinly bedded, but lacks good fissility. Local thin laminae and blebs of very fine sandy siltstone, of a lighter gray color as described above. Scattered, very fine carbonaceous material in claystone, partially pyritized and locally concentrated in very thin laminae along bedding planes. Good dips on bedding of 14° - 15°. No odor, stain, cut or fluorescence. Negative flame test.
- CORE #16 - 3844'-3854'. Recovered 8'.
3844'-3849' - Claystone, dark gray with a slight brownish cast. Very slightly silty. Compact, moderately hard and weakly fissile. Badly fractured by coring. Claystone contains scattered tiny streaks and blebs of very fine, silty sand, rare fish scales and shell fragments. Rare forams? Common, disseminated, fine carbonaceous material, partially replaced by crystalline pyrite.
3849'-3852' - Sandy siltstone, medium gray, and interbedded silty claystone. Scattered rods and platelets of carbonaceous material. Very rare fish scales. Several smooth bedding plane partings. Partial lime cementation. Very tight appearing. Fair dips of 15° - 16°. Single smooth parting of flat dip. No odor, stain, cut or fluorescence. Negative flame test.
- CORE #17 - 4087'-4097'. Recovered 10'. Claystone, medium gray-brown, slightly silty. Compact, moderately hard and brittle. Thinly bedded, with a moderately well developed fissility. Grades locally to 1/4" - 3/8" laminae of light gray siltstone, showing slight cross-bedding. A single jointing plane, smooth surfaced, stands vertical and cuts the core in half from top to bottom. (Hole deviation 2.5°). Common, scattered, fine carbonaceous material. Silty portions are somewhat calcareous. Few shell fragments and fish scales. Good 9° - 12° dips. No odor, stain, cut or fluorescence. Negative flame test.
- CORE #18 - 4328'-4338'. No recovery.
- CORE #19 - 4338'-4348'. Recovered 10'. Claystone with occasional very thin siltstone intrabeds as in Core #17. Dirty, milk chocolate brown when wet to medium brownish gray when dry, very firm to hard, brittle and rather platy, becoming more fissile and shaly, dense and compact, locally silty, slightly micro-micaceous, non-calcareous, locally fossiliferous with several very thin foraminite? streaks and common tiny pods of very dark gray carbonaceous? extremely pyritic material, thin bedded (1" ±) with occasional very thin (1/16" - 1/8") streaks and intrabeds of siltstone, light greenish gray, very firm, very tight, calcareous, very tuffaceous, occasionally abundant fine to medium sand size grains. No shows (N.O.S.C.F.) No flash. Good dips of 8° - 10°.
- CORE #20 - 4583'-4587'. No recovery.
- CORE #21 - 4790'-4795'. Recovered 5'. Claystone, very similar to Core #19 except slightly less fossiliferous and more creamy bentonitic textured, with thin (1/8" - 1/4") streaks of intrabeds of extremely tuffaceous graywacke and tuff. No shows. No flash. Fair to good dips of 9° - 12°.
- CORE #22 - 5048'-5051'. Claystone, similar to Core #21 but slightly harder and much more poorly bedded. Dips are vague and questionable but vary from 5° - 20°.
5051'-5058'. Andesite? - Basalt? flows, medium greenish gray; finely crystalline, hard, brittle, amygdaloidal with calcite, argonite and zeolite fillings, very locally tuffaceous, common very finely disseminated pyrite, slightly altered. The contact with the claystone is irregular, slightly darker and more altered with abundant tiny calcite stringers. Overall, very rough dip of this contact is flat. No shows. No dips.
- CORE #23 - 5357'-5364'. Recovered 4'. Basalt, medium to dark grayish green, hard, rather tough and dense, fine to medium crystalline, abundant amygdules with aragonite and calcite and possibly some zeolite fillings, very finely disseminated pyrite, slightly altered. The core recovery is mostly in large pieces and irregular fragments. No shows. No flash. No dips.
- CORE #24 - 5388'-5398'. Recovered 10'. Interbedded sandstones and claystones. The sandstone is light salt and pepper gray, hard, very tough, very dense and compact, non-calcareous, very micaceous (biotite and muscovite) with common black ferromags, rather arkosic, angular to sub-rounded very fine to medium sand size grains, thin bedded (to 12") with common streaks and interbeds of claystone, very dark gray, hard, dense and compact, slightly fissile, extremely micro-micaceous, locally silty and sandy, carbonaceous appearing, occasional tiny pods of very abundant pyrite or marcasite. No shows (N.O.S.C.F.) No flash. Dips on good bedding of 10° - 18°, predominantly 12° - 14°.
- CORE #25 - 5464'-5471'. Recovered 6'. Interbedded sandstone and claystone similar to Core #24 except slightly more common claystone streaks. Bedding planes, within the sandstone, are commonly dotted with abundant paper thin small rectangles and irregular shonks (to 1" in longest dimension) of black coal to dark brown carbonaceous material. The recovery is badly broken, especially in the claystone portions, and the sandstone core sections commonly show several planes of offset within any one interval. These, apparently minor faults, appear to be completely calcite cemented and it is probably the coring action that is responsible for much of the broken recovery. Several yellow fluorescent spots on fracture surfaces at 5470' and 5465'. No flash. No shows while coring. One 8" section of core shows fair to good dips of 10°.
- CORE #26 - 5772'-5781'. Recovered 8'. Top 3" claystone, as before. This recovery is in several fragments which have no apparent cored side or contact with the basalt, suggesting these pieces may be caving and are not in place. Basalt, dark greenish gray, hard, very dense and tough, finely crystalline, rare to occasional biotite flakes and some pyrite. No flash. No shows. No dips.
- CORE #27 - 6269'-6281'. Recovered 4'. Spherulitic felsite, medium lead gray to faintly greenish gray speckled with dots of very dark green, hard, dense, rather tough, finely crystalline groundmass, occasional tiny pods and streaks of pyrite or marcasite, occasional to common small (fine to coarse sand size) calcite and zeolite? filled amygdules in little clusters and widely scattered, extremely abundant very soapy generally uniform medium to coarse sand size very dark green spherulites are evenly disseminated throughout but with some suggestion of vertical lineation. No shows. No flash. No dips.
- CORE #28 - 6410'-6420'. Recovered 10'. Amygdaloidal basalt, very dark greenish gray to very dark gray, lithologically similar to the basalt in Core #26. No shows. No flash. No dips.