

STATOIL/ESSO/HYDRO 15/9-1
DESCRIPTION OF SHOWS CORE 8

WELLFILE

Depth: 3639.14 - 3657.44 Rec. 18.3 m 100%

Notes:

1. Fluor. Determined from large rock chips or from full core section.
2. Cuts taken on uniform size samples.
3. All cuts are from crushed sample.
4. Cut liquid is chloroethene (fresh).
5. See details for boxed intervals (total 24 boxes).

I. Unit No. 1: 3639.14 - 3645.67 (6.35 m) sandstone

Two samples taken from most core boxes.

a) 3639.14 - 42.60 m (box 1 through 5).

Vague fluor, (?) pale blue with traces (?) pale yellow. Quick, weak white cut fluor, requiring 2 or 3 minutes to develop into a good, milky-white fluorescence. The cut residue filled the dishes and had a good, strong silver-white fluor. The residue is not visible in white light.

b) 3642.60 - 45.67 (box 6 through 9)

First definite yellow fluor occurs in box 6. The fluor is pale yellow, and appears to intensify with each box down to top of coal at 3645.67 m. Fluor is uniform throughout rock chips. The probable changes in cut and residue fluor were too subtle to be observed: (as were changes in stain).

II. 3645.7 - 3648.10 m Coal (2.43 m) (box 10 - 12)

No reservoir rock present.

Cont'd

III. 3648.10 - 57.44 Sandstone (9.34 m) (box 13 - 24)

This unit includes all the sandstone below the last thin (± 10 cm) coal in box 13 at about 3648.34 m. All the rock has a good brown oil stain. (A large number of samples were taken throughout interval).

a) 3648.10 - 50.45 (box 13 through 15)

Good, uniform yellowish gold fluor. Instant, excellent yellowish-white cut fluorescence (liquids were amber colored in white light), giving thick full-dish, white cut residues having a creamy yellow tinge. The cut residue is medium brown colored in white light.

b) 3650.45 - 3657.44 (box 15 - 24)

The shows throughout this interval were essentially as (a) except fluor becomes a darker yellow or "gold" with increasing depth. The cut residue also is a deeper yellow. The residue in white light is also brown (probably darker than above, but too subtle to be seen).

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Box	Depth (M)	Fluorescence	Crushed sample Cut in chlorethene			Cut residue		
			Quality	Fluorescence	White Light	Amount	Fluorescence	White Light
1	3639.14-39.75 Upper	Pale blue	Quick Weak Agesto good	Pale Blue-White Milky-White	Invisible	Full dish	Silver-White	Invisible
	Lower	A/A Trace Yellow	"	"	"	"	"	"
2	3639.76-40.21 Middle	None	"	"	"	"	"	"
3	3640.21-40.97	Weak blue	"	"	"	"	"	"
4	3640.97-41.78 Upper	Weak blue, Trace yellow	"	"	"	"	"	"
	Lower	A/A	"	"	"	"	"	"
5	3641.78-42.60 Upper	A/A	"	"	"	"	"	"
	Lower	A/A	"	"	"	"	"	"
6	3642.60-43.38 Upper	Irregular very pale, but distinct yellow	"	"	"	"	"	"
	Lower	A/A	"	"	"	"	"	"
7	3643.38-44.26 Upper	Uniform, pale yellow, improving over box 6	"	"	"	"	"	"
	Lower	A/A	"	"	"	"	"	"
8	3644.26-45.01 Upper	A/A, im- proving over box 7	"	"	"	"	"	"
	Lower	"	"	"	"	"	"	"
9	3645.01-45.84 Upper	Pale yellow, improving over box 8	"	"	"	"	"	"
	Middle	"	"	"	"	"	"	"
Above 3644 m, stain is light brown: below, rock is dark brown to top of coals. (this should be checked out for rock or hydrocarbons colors).								
10, 11, 12	3645.84-47.90 Coals-gassy							
Below the coals the sands have a uniform, heavy, medium brown stain about like a melkesjokolade or a little darker.								
13	3647.90-48.77 Lower (3 samples)	Uniform bright yellow	Instant, excellent	Yellowish- White	Amber	Full	Bright cream- yellow	light- medium brown
	14	3648.77-49.55	A/A	"	"	"	"	"
15	3649.55-50.45	"	"	"	"	"	"	
16	3650.45-51.21	A/A-more golden than above	"	"	"	"	"	
17	3651.21-52.12	Gold-yellow	"	"	"	"	Whitish yellow	"
18	3652.12-52.84	A/A	"	"	"	"	"	"
19	3652.84-53.56	Good gold	"	"	"	"	"	"
20	3653.56-54.39	"	"	"	"	"	"	"
21	3654.39-55.14	"	"	"	"	"	"	"
22	3655.14-55.94	"	"	"	"	"	"	"
23	3655.94-56.74	"	"	"	"	"	"	"
24	3656.74-57.44	"	"	"	"	"	"	"

There was no apparent bleeding of oil from the core.

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DESCRIPTION OF SHOWS

CORE NO. 9

Depth: 3657.4 - 3675.5 m.

- a) To a depth of 3667.5 m (top of coal), all sands had uniform gold fluorescence, instant, excellent milky-white to withish yellow (creamy) cut fluorescence. The cut liquids were amber colored in plain light. The cut residues filled the dish and had yellow (top) to almost gold fluorescence in lower part. The residues appeared brown in plain light. (Sands had a brown oil stain).
- b) The coal from 3667.5 m to about 3671.60 m bled gas.
- c) The siltstone 3671.6 m to about 3675.4 m had no shows except that the (abundant) plant detritus in the lower part of the core had a deep gold fluorescence (almost golden-brown).
- d) The (10 - 15 cm) sandstone present at the bottom of the core had no fluorescence, a very slow crushed cut, bluish white, which was still very weak after 10 - 15 min. There was a very thin white residue which was invisible in white light. This sand is fine to medium grained with fair to poor porosity.

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