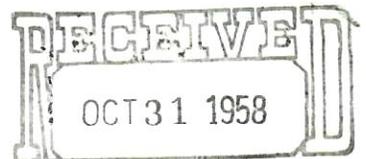




00792515

DRILLING SAMPLE DESCRIPTION



OIL & GAS  
CONSERVATION COMMISSION

10' samples start at 3500'.

<u>DEPTH</u>	<u>DESCRIPTION</u>
3500-10	Shale, dark gray, slightly silty, slightly micaceous, w/tr gray siltstone and tr bentonite.
10-20	Shale, as above, w/tr coal and some surface sand contamination.
20-30	Shale, as above, w/tr coal and bentonite.
30-40	Shale, as above.
40-50	Shale, as above, w/tr gray siltstone.
50-60	Shale, as above, w/much surface sand and tr gray siltstone.
60-70	Shale, as above, w/some bentonite.
70-80	No sample.
80-90	Shale, as above, w/tr gray siltstone, some bentonite.
3590-3600	Shale, as above, w/some bentonite and tr pyrite.
3600-10	Shale, dark gray, slightly silty, slightly micaceous, w/tr white and gray bentonite.
10-20	Shale, as above, w/tr gray, very fine grained, silty sand.
20-30	Shale, as above, w/tr bentonite.
<u>Top of the Hygiene zone at 3630-40' by sample lag. No drilling break.</u>	
30-40	Shale, as above, w/tr bentonite and pyrite, calcite prism.
40-50	Shale, as above.
50-60	Shale, as above, w/tr bentonite.
60-70	Shale, as above, w/tr gray siltstone.
70-80	Shale, as above, w/tr bentonite.
80-90	Shale, as above, w/some gray, very fine grained, silty sand.
3690-3700	Shale, as above, w/more very fine grained sand as above, no show.
3700-10	Shale, as above, w/some sand as above, tr coal.
10-20	Shale, as above, w/some sand as above. - New bit at 3717'.

- [REDACTED]
- 3720-30 Shale, as above, w/tr sand as above.
- 30-40 Shale, as above, w/tr sand as above, tr bentonite.
- 40-50 Shale, as above, w/tr gray, very fine grained, silty sand as above.
- 50-60 Shale, as above, w/tr gray, very fine grained, silty sand as above, tr coal.
- 60-70 Shale, as above, w/much gray, very fine grained, silty sand.
- 70-80 Shale, as above, w/much gray, very fine grained, silty sand, tr bentonite.
- 80-90 Shale, as above, w/tr gray, very fine grained, sand and tr tan siltstone.
- 3790-3800 Shale, as above, w/tr gray, very fine grained, sand.
- 3800-10 Shale, dark gray, fissile, slightly micaceous, w/tr gray, very fine grained, tight sand.
- 10-20 Shale, dark gray, fissile, slightly micaceous, w/tr bentonite.
- 20-30 Shale, as above, w/much gray, very fine grained, tight silty sand.
- 30-40 Shale, as above, w/tr sand as above, tr bentonite, tr pyrite.
- 40-50 Shale, as above, w/tr sand as above, w/tr bentonite.
- 50-60 Shale, as above, w/tr sand as above, w/tr bentonite.
- 60-70 Shale, as above, w/tr sand as above.
- 70-80 Shale, as above.
- 80-90 Shale, as above, w/tr sand as above, poor sample.
- 90-3900 Shale, as above, w/tr sand as + , poor sample.
- 3900-10 Shale, as above, w/tr sand as
- 10-20 Shale, as above, w/tr gray silty
- 20-30 Shale and sand as above, tr coal, tr bentonite.
- 30-40 Shale, dark gray, fissile, slightly silty, w/tr sand, gray, very fine grained, silty.
- 40-50 Shale, dark gray, fissile, slightly silty, w/tr sand, gray, very fine grained, silty.

3983-60 Shale, as above, w/tr sand, as above, w/tr bentonite.

60-70 Shale, as above.

Drilling time break at 3981' - top of Sussex sand.

- 70-81 Shale, as above, w/tr sand, gray, very fine grained, silty, tight, no show, bentonite.
- 80-90 Shale, dark gray, fissile, slightly silty, slightly micaceous w/tr sand, gray, very fine grained, tight, silty, no show, tr bentonite.
- 90-4000 Shale, as above, w/much sand, gray, very fine grained, tight, silty, poorly cemented w/clay, micaceous, no show, w/some pyrite.
- 4000' Circulated 15 minutes: Shale, as above, w/much sand, as above, no show.
- 4000' Circulated 30 minutes: Shale, as above, w/much sand, as above, w/tr bentonite.
- 4000-10 Shale, as above, w/much sand, as above, tr calcite.
- 10-20 Shale, as above, w/some sand, as above, tr bentonite.
- 20-30 Shale, as above, w/some sand, as above, tr pyrite.
- 30-40 Shale, as above, w/tr sand, as above, tr bentonite.
- 40-50 Shale, as above, w/tr sand, as above, tr bentonite, tr coal.
- 50-60 Shale, as above, w/some sand, gray, very fine grained, silty, tight, no show.
- 60-70 Shale, dark gray, fissile, slightly silty, w/some sand, as above, w/tr bentonite.
- 70-80 Shale, as above, and sand, as above.
- 80-90 Shale, as above, and sand, as above, w/tr bentonite.
- 90-4100 Shale, as above, and sand, as above, w/tr calcite.

Top of "J" Sand at 6381' by drilling time break.

- 6370-80 Shale, dark gray, fissile, w/some pyrite, gray shale, tr bentonite.
- 6382 Circulated 15 minutes: Shale, dark gray, fissile, w/tr bentonite, tr tan siltstone.
- Circulated 30 minutes: Shale, dark gray, fissile, w/tr silty bentonite, shale, tr bentonite, w/tr gray, very fine grained silty sand, tight.
- Circulated 45 minutes: Shale, as above, w/tr light gray, silty, very fine grained, sand.

CORE #1, 6382-6422' - Recovered 38 1/2'.

- 6382-6414 Sand, gray, very fine grained, silty, tight, fair gas odor in lenses, reworked and interbedded w/shale, dark gray, fissile w/occasional shaly silt lense and occasional very thin coal stringers.
- 6414-6418 1/2 Sand, white, fine grained, fairly well sorted, fairly clean, poor to fair porosity, poor to fair permeability, good oil stain, odor and fluorescence, slightly fractured.
- 6418 1/2-6420 1/2 Shale, dark gray, fissile, slightly micaceous.
- 6422-30 Shale, dark gray, fissile, micaceous w/much sand, white, fine grained, clean, well sorted, good oil stain, good golden fluorescence w/some bentonite.
- 6430-40 Shale, as above, w/some sand, as above.
- 6440-50 Shale, as above, w/some sand, as above, tr bentonite.
- 6450-60 Shale, dark gray, fissile, micaceous, w/tr sand, as above, tr bentonite.
- 6460-70 Shale, as above, w/tr gray silty shale and tr sand, as above.
- 6470-80 Shale, as above, w/tr gray silty shale and tr sand, as above, tr bentonite.
- 6480-90 Shale, as above, w/tr sand, as above, tr bentonite.
- 6490-6500 Shale, as above, w/tr dark gray, fine grained sand ("J" sand) tight, silty.

6500

Circulated 15 minutes: Shale, dark gray, fissile w/tr sand, white fine grained, clean, well sorted, wet, slight oil stain w/tr fluorescence - may be invasion from mud.

Circulated 30 minutes: Shale, as above, and sand, as above, w/some bentonite.

Circulated 45 minutes: Shale, as above, and sand, as above, w/much bentonite.

Circulated 1 hour: Shale, dark gray, fissile, w/much sand, white, fine grained, clean, well sorted, wet.

6500

Total Depth

6502 Schlumberger