

# SAMPLE LOG

DRILL HOLE: Long # 8  
PROP. OWNER: Long  
DRILL CONTRACTOR: Lamampco  
DRILL OPERATOR: Jim Miller  
DATE STARTED: March 10, 1980  
CASING LEFT IN HOLE:

LOC: S<sup>2</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub>  
LOGGED BY: MRG  
ELEV: 855.31 ft.  
DATE COMPLETED: March 13, 1980  
TOTAL DEPTH: 301'

- 30 - 40 - Limestone, light gray, crystalline & silty, fossiliferous 100%  
U. V. Poor show without fluid, good with
- 40 - 50 - Shale, black, silty 85%  
Shale, gray silty, calcareous 30%  
Limestone, light gray, crystalline & silty 15%
- 50 - 60 - Limestone, gray, crystalline 100%
- 60 - 70 - Shale, black, silty, trace of pyrite 50%  
Limestone, gray, crystalline, fossiliferous 45%  
Siltstone, light gray, poorly indurated 5%
- 70 - 80 - Siltstone, light gray, locally micaceous 90%  
Shale, black, silty, trace of pyrite 10%
- 80 - 90 - Siltstone, light gray, local carbonaceous plant fragments 60%  
Shale, gray, very silty 40%
- 90 - 130 - Shale, gray, silty 100%
- 130 - 140 - Shale, gray, silty, slightly calcareous 100%
- 140 - 150 - Shale, gray, silty 100%
- 150 - 160 - Shale, gray, 65%  
Shale, black, silty, trace of pyrite 35%
- 160 - 170 - Shale, dark gray-black, limey & silty locally fossiliferous 70%  
Coal fragments 30%
- 170 - 180 - Shale, black, silty, very calcareous 85%  
Limestone, dark gray, crystalline, fossiliferous 15%
- 180 - 190 - Shale, black, silty & sandy 75%  
Sandstone, light gray, fine grained, micaceous 20%  
Coal Fragments 5%
- 190 - 198 - Shale, black, silty, locally sandy & micaceous 100%
- Bottoms at 198 - Sandstone, fine grained, brown, micaceous, locally carbonaceous 50%  
Shale, dark gray, silty locally sandy very slightly calcareous 50%  
U. V. Good show

## CORE # 1 (198-218.6)

- 198 -218.6- Sandstone, fine grained, brown and black micaceous. Sand is calcareous throughout. Carbonate laminations (200.7-200.8) (201-201.1) both about horizontal; 206.1 about 80 degrees from core axis; 209.2-209.3 about horizontal; (210.2-210.3), (210.8-210.9) about horizontal. All ooze very slight amounts of free oil. Carbonaceous whisps and lenses 213.1-213.2. Sand becomes asphaltic below 213.7. Shale pebbles 204.4-204.5 3/4" by 1/2", & 218.1 1/4" by 1/4". Shaley, micaceous sand 218.1-218.6.

Core ooze no free oil except in carbonate laminations. First presence of water 198.9. Pit show rainbow cover over pit.

- 225 - Sandstone, fine grained, brown, micaceous & carbonaceous 70%  
Shale, dark gray, silty 30%  
U. V. good show
- 225 - 230 - Shale, gray, silty calcareous 35%  
Sandstone, fine grained, gray, micaceous & carbonaceous 25%  
Shale, black, silty 20%  
Limestone, gray silty & crystalline 15%  
Coal fragments 5%  
U. V. fair show without fluid good with
- 230 - 235 - Shale, dark gray-blac, silty 85%  
Sandstone, fine grained, brownish, micaceous 10%  
Coal fragments 5%  
U. V. Fair show without fluid, good with

CORE # 2 233-253.8

- 233 -243.1- Interlaminated Shale, sand and siltstone. Pure sand 233-234, slight oil ooze here 235-237.1. Mostly shale some silty laminations. 239.9-240.1 Beading broken by mid intrusion? Irregular beading 239.9-240 (discontinuous) Some silty bands ooze slight oil 236.8-242.2
- 243.1 -249.1 Interlaminated shales silt. Shale dominant silt occurs in laminations whisps and lenses.
- 249.1 -253.8 Shale, gray silty, Occassional whisps of silt throughout.

Presence of water indeterminent. Presence of oil on freshly broken surface at 233.8.

Pit show rainbown while coring.

- 250 - 260 - Shale, medium dark gray, silty & locally sandy and micaceous, slightly calcareous
- 260 - 270 - Shale, gray, silty 60%  
Shale, black, silty calcareous 40%
- 270 - 280 - Shale, black, silty & limey, trace of pyrite 95%  
Coal Fragments 5%
- 280 - 290 - Shale, black, silty, slightly calcareous 70%  
Shale, gray silty 30%
- 290 - 300 - Shale, gray, silty 50%  
Siltstone, light gray, local concentrations of light brown, well-rounded metal oxides 1-3 mm. clacareous 50%

MARCH 12

Hammered

Long 8

HCO # 139

Core # 2 233-2538

(233-243.1)

Interlaminated Shale, Sand, &

siltstone. Pure sand 233-234, slight

oil occ here 235-237.1 Mostly Shale

some silty laminations. 239.9-

240.1 Bedding broken by mud intrusion?

Irregular bedding 239.9-240 (discontinuous)

Some silty bands are slight oil

236.8-242.2

243.1-249.1

Interlaminated Shale & Silt.

Shale dominant Silt occurs in

laminations whisps & lenses.

249.1-253.8

Shale, gray silty Occasional

whisps of silt throughout

Presence of water indeterminate  
Presence of oil on fresh broken  
surface at 233.8

Pit show rainbow white coloring

End Core # 2

HCO # 139

March 12 Rain cool Lamampco

Long #8

HCO # 139

Core #1 (198-218.6)

198-218.6

Sandstone, fine, brown black micaceous.

Sand is calcareous throughout

Carb. laminations (200.7-202.8)

(201-201.1) both  $\approx$  horizontal; 206.1

$\approx$  80° from core axis; 209.2-209.3  $\approx$

horizontal; (210.2-210.3), (210.8-210.9).

$\approx$  horizontal all or very slight amounts

of free oil. Carbonaceous - thin part

lenses 213.1-213.2. Sand becomes

asphaltic below 213.7. Shale

pebbles 204.4-204.5 3/4" by 1/2"

218.1 1/4" by 1/4". Shale, micaceous

sand 218.1-218.6.

Core core no free oil except in  
Carb. laminations. First presence  
of water 198.9 Pit shows  
Rainbow color over pit.

End Core #1

HCO # 139