



To: Mr. B. T. Barber
Mr. Ron Stewart

Date: 1980 01 30

Our File: 8161

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Re: Application to convert a currently suspended well to a Water Disposal Well by Chevron Standard, 80 01 21.
Well Name - Chevron Amoco Ekwan, b-56-E/94-I-10 WA# 4367
Water Disposal Formation - Debolt Formation (Mississippian age)

I have analyzed the pertinent geology in reference to the subject application and can offer no geologic objection to Chevron's water disposal proposition.

Details:

The top of the Mississippian was encountered at a depth of 460.8 m (s.s. elev. minus 52 metres) or 1512 ft. (-171 ft.).

The prime porous carbonate zones of the Debolt were encountered at depths:

- 460.8 m to 465.7 m
- 469.7 m to 470.9 m
- 472.1 m to 473.7 m
- 475.5 m to 480.97 m
- 482.2 m to 486.5 metres

Porous zones below these depths are of much poorer quality.

The upper Debolt section was perforated over the interval 463 m to 465.4 m (1519 ft. to 1527 ft.). A flow and pressure build-up test was conducted. The well was flowed for eight hours and produced water with a trace of heavy black oil and a very small amount of gas. No commercial hydrocarbon production was indicated from this test.

Wells to the north, south and east of this location drilled Debolt sections exhibiting very poor porosity. The nearest up dip well, Chevron Amoco Ekwan d-65-E/94-I-10 encountered the Debolt at a subsea elevation of minus 45 metres. A drill stem test of this formation resulted in a flow of natural gas at a rate of 30 mcf/d, with a fluid recovery of 120 feet of gas cut drilling mud, indicative of a low porosity and permeability section.

On the basis of the current well control, there is no indication of the existence of a commercially potential gas or oil trap in the Debolt formation in the immediate up-dip vicinity of this proposed water disposal well.

J. J. English
Reservoir Geologist

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