

Amoco Production Company

Surface Log

Well: Billy River Section

Well Number (S-1) 142,360

State: Alaska

Location: Bear Lake area

24,31, 24,35

485 486 487

Measurer: Wm. Connelly, L. Linnhoff, G. Brown, E. Armstrong

DATE: 28-29 July 6 Aug 77

Interval: Bear Lake Fm. and Stepanak Fm.

Remarks: Measured on ridges from top down. Exposure excellent; only minor faulting.

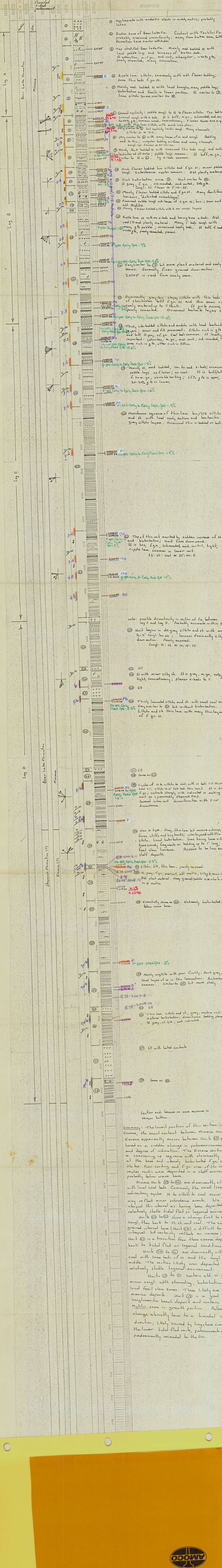
* Samples with asterisk only approximately located

LOCATION: 55° 59' 160° 02'

Wm. Connelly 8 Aug 77

Recovery
P = Poor
G = Good
M = Moderate
● Pollen
● Dinos.
● No Recovery

MS = Non-Sed.
P = Poor
F = Fair
G = Good
V = Very Good



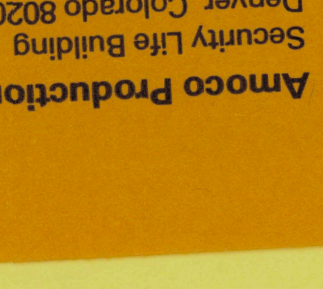
Section ends because no more exposure in canyon bottom.

Summary: The lowest portion of this section is Eocene; the exact contact between Miocene and Eocene apparently occurs between Units 25 & 26 based on a sudden change in paleoenvironment and degree of induration. The Eocene section a coarsening up sequence with dominantly ss at the base and intensely bioturbated f.gn. ss the top. Poor sorting and f.gn. size of the ss implies rocks were deposited in a shelf environ. probably below wave base.

Miocene Units 23 to 24 are dominantly siltstn with local coal beds. Commonly the small local sedimentary cycles ss to siltstn to coal occur may reflect minor subsidence events. We interpret this interval as having been deposited relatively stable tidal flat or lagoonal environ. Units 25 to 26 show a change first to ss congl., then back to ss, sh and coal. The coa grained interval here (Unit 25) is difficult to interpret but certainly reflects an increase in Unit 24 is a transition from these coarse depo back to tidal flat or lagoonal conditions.

Units 26 to 27 are dominantly siltstn coal with some beds of ss and thin congl. middle. The section likely was deposited in relatively stable lagoonal environment.

Units 28 to 29 contain abt. ss or minor congl. with channeling, bioturbation, local fossil clam zones. These likely are s. marine deposits. Unit 30 is a good conglomeratic beach deposit and contains a mytilus, some in growth position. Paleoc change abruptly here to a bimodal N direction, likely caused by longshore cur. The lower tidal flat units, paleocurrents are predominantly unimodal to the SW.



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