Geol. Memo. #152 Encl. # 43

CF71 1-025 0036

MONOTIS CREEK SECTION

Central Brooks Range, Alaska

Chandler Lake Quad NW 1/4 T.13S. R.4W.

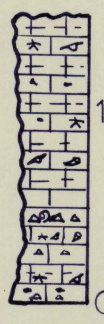
Interval: Lisburne Fm.

By: W. Dalness, D. Abrahamson

June 12, 1970

CVMS
92-00662797-046

sample lith lith description



2012 C
2011 L
2010 C
2009 C, L
2007 C, L, G, F
2008 L

Erosion surface.

Intbd arg Lmst - mdst + m bdd mdst. arg mdst is dk gy, wthrs m gy paper thn to thn bdd, planar fissile, < arg upwards. m. bdd mdst rare crin, sol cor + brac, rare blk cht nod; wthrs wht-yel., planar bds, burrows filled with FeS common; sl fetid odor. All contacts depositional

Bdd cht m gy wthrs rust colored, lensoid bds, v thn to thn bdd w/ mdst len.

Intbd Lmst + cht: Lmst - mdst/wkst w/ mnr pkst, h. arg in part dk gy, wthrs yel-gy; pkst m bdd w/ sol cor, brac, crin. wkst/mdst paper thn to thn, planar, in part h-burrowed w/ brac, crin. cht blk fresh + wthr. v. thn to thn bdd mnr pinch + swell structures w/ fossils gastro. Arg mdst commonly burrowed parallel to bdd. phosphorite bd. near base of unit. Bitumen along some fractures + vugs

MONOTIS CREEK SECTION, DETAILED

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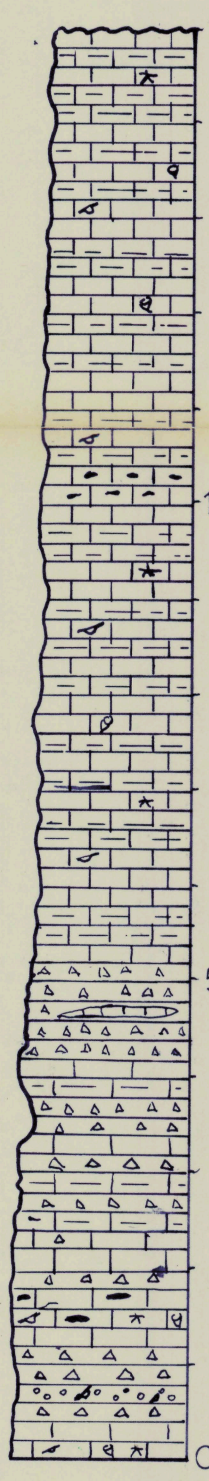

Erosion surface

2012 - C
2011 - L
2010 - C
2009 - C
2009 - L
2007 - L, C, G
2008 - L
2007 - P

Intbd arg Lmst - mdst and mas m-gy lmst - mdst which wthrs yel-gy. arg - mdst is dk-gy wthrs m-gy. thn to paper thn bdd. arg - mdst grades from fissile at the base to 1' bds at top of unit. Unit becomes more arg upwards mas Lmst. mdst has 1-2' bds slight fetid odor rare crin, sol cor, and brac. burrowed vertically. filled with FeS. Some pyrite cubes.

cht, m gy wthrs rusty-brn. bds lensoid shaped from 1" to 1' thk. w/ lense of Lmst - mdst draped over by cht. it is 20' long and 3' thk at it's max extent.

Intbd Lmst + chts. Lmst dk-gy wthrs yel-gy. cht is blk fresh and wthr. Lmst consists of mnr 1-2" bds pkst, commonly wkst + mdst. pkst are of sol. cor, brac + crin debris. wkst + mdst paper thn no fossils. phosphorite bds occur near base of unit. They are oolitic w/ common faunal debris. Elborite occurs along fractures in the phosphorite. The entire unit has strong fetid odor. black bitumen commonly seen along fractures and in vugs.