Fossils identified (written comm.) by
[1] R. E. Grant in consultation with E. L. Yochelson and Mackenzie Gordon, Jr., 1971
[2] J. T. Dutro, Jr., E. L. Yochelson, and John Pojeta, Jr., 1980
[3] John Pojeta, Jr., and J. T. Dutro, Jr., 1978, 1979
[4] J. T. Dutro, Jr., John Pojeta, Jr., and O. L. Karklins, 1981
[5] J. T. Dutro, Jr., 1978
[6] E. L. Yochelson, 1980

Collection localities shown by field numbers on Baltz and O'Neill (1986)

USGS number	Field number
27501–PC	BM 7904
27824–PC	BM 8003
27489–PC	BM 7903
27488–PC	BM 7902
27825–PC	BM 8002
27502–PC	BM 7905

Collections are in stratigraphically ascending order, as determined mainly from stratigraphic sections but partly from physical-stratigraphic correlations. Numbers in brackets indicate fossil identifications as listed to the left.

Stratigraphic positions of collections **f10277** and **f13215**, relative to megafossil collections, are based only on local relative stratigraphic position in the Alamitos Formation. All fusulinid identifications by D. A. Myers, 1976–1983.

Permian — Pennsylvanian — Alamitos Formation

USGS megafossil collection number	USGS fusulinid collection number	
	f10275, loc. M, Fig. 59	Wolfcampian
	f10128 and f13212, loc. 6, Fig. 62	
	f13213, loc. 6, Fig. 62	
27504–PC [2] loc. P, Fig. 62		
27503–PC [2] loc. P, Fig. 62		
27501–PC [2] N side of NM Hwy. 94, 0.5 mi W of Sapello		
27824–PC [4] N of Deer Creek, 1.5 mi SW of San Ignacio	**f10277**, hill W of Tecolote Creek, 1 mi SE of Blue Haven Camp	Virgilian
27489–PC [3] N side of Sapello River, 2 mi NW of San Ignacio		
27488–PC [3] N side of Manuelitas Creek, 2.5 mi WNW of Cañoncito		
27356–PC [3] loc. K, Fig. 65		
27163–PC [5] loc. K, Fig. 65		
27825–PC [6] road, 0.7 mi NW of Las Dispensas, E of Hermit Peak		
27502–PC [2] road, 0.4 mi NNW of Las Dispensas, E of Hermit Peak		
24488–PC [1] loc. 6, Fig. 62	**f13215**, loc. 7, Fig. 62	Missourian
24468–PC [1] loc. 8, Fig. 63		
24499–PC [1] loc. 8, Fig. 63		
24467–PC [1] loc. 8, Fig. 63		
24466–PC & **24465–PC** [1] loc. 8, Fig. 63	**f13167**, loc. 8, Fig. 63	Desmoinesian
24505–PC [1] loc. 6, Fig. 62		
24463–PC [1] loc. 8, Fig. 63		
24485–PC [1] loc. 1, Fig. 33	**f13216**, loc. 7, Fig. 62	

Brachiopods: *Anthracospirifer* cf. *A. rockymontanus* (Marcou); *Anthracospirifer* sp.; *Antiquatonia jemezensis* Sutherland & Harlow; *Antiquatonia* sp. (see new sp. of Sutherland & Harlow); *Calliprotonia*? sp.; *Cleiothyridina* sp.; *Composita ovata* Mather; *Composita subtilita* (Hall); *Composita subtilita* (Hall) cf. *C. gibbosa* Sutherland & Harlow; *Cumpsita* cf. *C. subtilita* (Hall); *Composita* sp.; *Crurithyris* sp.; *Derbyia* sp.; *Echinaria semipunctata* (Shepard); *Echinaria* cf. *E. semipunctata* (Shepard); *Echinoconchus* sp.; *Hustedia*? sp.; *Isogramma* cf. *I. tetratomum* Cooper; *Juresania nebrascensis* (Owen); *Juresania nebrascensis* (Owen) cf. *J. nebrascensis*; *Juresania* sp.; *Linoproductus* cf. *L. pidyumtuseensis* Dunbar & Condra; *Linoproductus* cf. *L. prattenianus* (Norwood & Pratton); *Linoproductus* sp.; *Neospirifer* cf. *N. alatus* Dunbar & Condra; *Neospirifer cameratus* (Morton) or *N. latus* Dunbar & Condra; *Neospirifer* cf. *N. cameratus* (Morton); *Neospirifer dunbari* King; *Neospirifer* cf. *N. pattersoni* (Shumard); *Neospirifer* cf. *N. dunbari* King; *Neospirifer* cf. *N. pattersoni* (Shumard) & Hartlow?; *Neospirifer* sp.; *Punctospirifer* sp.; *Reticulatia*? sp.; *Schuchertella* sp.

Pelecypods: *Acanthopecten* sp. cf. *A. carboniferus* (Stevens); *Acanthopecten* aff. *A. meeki* Newell; *Astartella*?; *Aviculopecten* sp.; *Aviculopinna* sp.; *Myalina*(*Orthomyalina*) cf. *M. (O.) swallowi* (Geinitz); *Myalina* (*Orthomyalina*) sp.; *Nuculopsis* sp.; *Orthomyalina* sp.; *Orthomyalina*? sp.; *Palaeolima* sp.; *Phestia*? sp.; *Promytilus*? sp.; *Schizodus* sp.; *Septimyalina*? sp.; *Volsellina* sp.

Gastropods: *Bellerophon* (*Pharkidonotus*) *percarinatus* (Conrad); *Bellerophon* (*Pharkidonotus*) cf. *B. (P.) percarinatus* (Conrad); *?Meekospira* sp.; *Naticopsis* sp.; *?Paleozygopleura* sp.; *Stegocoelia* (*Taosia*) cf. *S. (T.) percostata* (Girty); *Straparolus* sp.; *Strobeus* sp.; *Taosia* sp.

Bryozoan: *Rhombopora lepidodendroides* Meek

Fusulinids: *Beedeina* cf. *B. distenta* (Dunbar & Heinbest); *Beedeina* aff. *B. lonsdalensis* (Dunbar & Skinner); *Beedeina sulphurensis* (Ross & Sabins); *Oketaella*? sp.; *Ozawainella* sp.; *Triticites* aff. *T. coronadoensis* Hoss & Tyrrell; *Triticites* cf. *T. creekensis* Thompson; *Triticites* (*Leptotriticites*) sp.; *Triticites nebrascensis* Thompson; *Triticites* aff. *T. ventricosus* (Meek)

Desmoinesian: **f13167**, loc. 8, Fig. 63; **f13216**, loc. 7, Fig. 62

Missourian: **f13215**, loc. 7, Fig. 62

Virgilian: **f10277**, hill W of Tecolote Creek, 1 mi SE of Blue Haven Camp

Wolfcampian: **f10275**, loc. M, Fig. 59; **f10128 and f13212**, loc. 6, Fig. 62; **f13213**, loc. 6, Fig. 62

Porvenir Formation — Upper part — marker zone — Medial part — Lower part — Near Gallinas, loc. 1, Fig. 33

USGS megafossil collection number	USGS fusulinid collection number
	f10123, loc. D, Fig. 33
24487–PC loc. 6, Fig. 62	**f13143**, loc. 6, Fig. 62
24486–PC loc. 6, Fig. 62	
24462–PC loc. 8, Fig. 63	
24461–PC loc. 8, Fig. 63	
24484–PC	
24483–PC	
24482–PC	
24481–PC	**f13154**, loc. 1, Fig. 33
24480–PC	
24479–PC	
24478–PC	
24477–PC	**f10155**, loc. G, Fig. 33
24476–PC	**f10154**, loc. G, Fig. 33; **f10153**, loc. G, Fig. 33
24474–PC	**f10126**, loc. D, Fig. 33
24473–PC	**f13153**, loc. 1, Fig. 33
24472–PC	
24494–PC loc. B, Fig. 21	**f10152**, loc. G, Fig. 33; **f24353**, loc. B, Fig. 21

Brachiopods: *Anthracospirifer* cf. *A. rockymontanus* (Sadlick); *Anthracospirifer* cf. *A. opimus* (Hall); *Anthracospirifer* cf. *A. rockymontanus* (Marcou); *Anthracospirifer* sp.; *Anthracospirifer* sp. or *Neospirifer* sp.; *Antiquatonia jemezensis* Sutherland & Harlow; *Antiquatonia*? sp. & *Antiquatonia* sp.; *Beecheria bovidens* (Morton); *Beecheria* cf. *B. bovidens*; *Beecheria*? sp.; *Chonetinella crassiradiata* (Dunbar & Condra); *Cleiothyridina* sp.; *Composita elongata* Dunbar & Condra; *Composita mexicana* Hall; *Composita subtilita* (Hall); *Composita* sp.; *Derbyia* sp.; *Desmoinesia* sp.; *Hystricolina*? sp. & *Hystricolina* sp.; *Juresania nebrascensis* (Owen); *Linoproductus platyumbonus* Dunbar & Condra; *Linoproductus* cf. *L. prattenianus* (Norwood & Pratton); *Linoproductus* sp.; *Mesolobus* sp.; *Neospirifer* cf. *N. cameratus* (Morton); *Neospirifer* cf. *N. dunbari* King or *N. latus* Dunbar & Condra; *Neospirifer* sp.; *Punctospirifer kentuckyensis* (Shumard); *Punctospirifer* sp.

Gastropods: *Euconospira* sp.; *Glabrocingulum* sp.; *Ianthinopsis*? sp.; *Knightites* (*Retispira*) sp.; *Mourlonia*? sp.; *Naticopsis* (*Naticopsis*) sp.; *Straparolus* sp.

Cephalopods: *Domatoceras* sp.; *Peripetoceras* sp.

Trilobite: *Ditomopyge*? sp.

Worm tubes: *Spirorbis* sp.

Fusulinids: *Beedeina* aff. *B. apachensis* (Ross & Sabins); *Beedeina insolita* (Thompson); *Beedeina novamexicana* (Needham); *Beedeina* aff. *B. rockymontana* (Roth & Skinner); *Beedeina* aff. *B. sulphurensis* (Ross & Sabins); *Beedeina* sp.; *Fusulinella* sp.; *Wedekindellina* cf. *W. minuta* (Heinbest); *Wedekindellina* aff. *W. pseudobeedei* (Ross & Sabins); *Wedekindellina* sp.

Stratigraphic positions of collections **f10152–10155** and **f10126**, relative to megafossil collections, are based on physical-stratigraphic correlations. All fusulinid identifications by D. A. Myers, 1976–1983.

Drafting and layout by R. J. Titus
Edited by N. S. Gilson

Chart listing megafossils and some fusulinids of the Alamitos and Porvenir Formations

by Elmer H. Baltz, 1999

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