APPENDIX H:

REGIONAL LEADVILLE FACIES AND CORE DESCRIPTIONS FROM WELLS IN THE PARADOX AND FAULT BELT AREA, UTAH



Figure H.1 Location of Leadville Limestone cores used to determine inferred average depositional profiles of regional facies.

Explanation

Regional Leadville Facies Coding

#1 Crinoidal Grainstone: Open-marine, moderate- to high-energy shoals



#2 Oolitic/Coated Grain/"Hard" Peloid Grainstone: Restricted marine, high-energy shoals



- #3 Peloid/Skeletal Packstone/Wackestone: Low-energy, open marine, below wave base
- #4 "Soft" Peloid Mudstone: Low-energy, nearshore, often restricted marine sometimes with tidal-flat features and cryptalgal laminae; converted by early dolomitization

Diagenetic Overprints



Karsting and sediment infilling of karst cavities



Hydrothermal alteration, dolomite, and bitumen linings

Combination of karsting and hydrothermal alteration, etc.

Salt Wash North No. 1

API No. 43-019-30282 NE1/4SW1/4 section 9, T. 23 S., R. 17 E., SLBL&M Grand County, Utah P&A

Cored Interval: 8855-8883.5 ft



Unit 1. 8855.0–8858 ft: dolostone, slight effervescing, peloidal packstone/grainstone with early dolomite; massive with hydrothermal overprint (dissolution and black bitumen).

Contact: stylolitic.

Unit 2. 8858–8863 ft: limetone, crinoidal/skeletal packstone/wackestone with white fractures and vertical tectonic sylolites.

Contact: stylolitic.



Unit 3. 8863–8883.4 ft (base of cored interval): dolomitic limestone, light blue to black from bitumen plugging, peloidal grainstone/packstone/wackestone with heavy hydrothermal thermal dolomitic overprint and micro intercrystalline porosity impregnated with bitumen.



Floy Unit No. 1

API No. 43-019-10086 SE1/4SW1/4 section 11, T. 23 S., R. 17 E., SLBL&M Grand County, Utah P&A

Cored Interval: 9400–9666 ft



Contact: gradational.



Contact: sharp.

Unit 3. 9412.5–9441 ft: limestone, light-medium gray, skeletal/peloidal/crinoidal packstone/wackestone with occasional with chert and small anhydrite nodules nodules; no visible porosity, bitumen, evidence of karstification, or hydrothermal overprint. Some vertical sylolites.

Contact: sharp.

Unit 4. 9441–9443 ft: limestone, crinoidal grainstone/packstone with abundant medium amplitude stylolites; no bitumen.

Contact: sharp.

Unit 5. 9443–9454 ft: dolostone, medium brown and black oolitic/"hard" peloid grainstone with extensive hydrothermal alteration and bitumen impregnation of pores.

Contact: sharp.

Unit 6. 9454–9467 ft: limestone, white to cream-colored, crinoidal grainstone with occasional small rugose corals; no hydrothermal or karst overprint.

Contact: sharp.

Unit 7. 9467–9469 ft: limestone, medium gray, skeletal/soft-peloidal/crinoidal wackestone with small rugose corals; no karst or hydrothermal overprints.

Contact: sharp.

Unit 8. 9469–9489 ft: limestone, white to cream-colored, crinoidal grainstone/packstone with low permeable syntaxial cements; no karst or hydrothermal overprints.

Contact: sharp.

Unit 9. 9489–9496 ft: limestone, medium gray, fossiliferous (skeletal)/"soft" peloidal wackestone with abundant bioturbation; no karst or hydrothermal overprints.

Contact: sharp.

Unit 10. 9496–9521 ft: limestone, white to cream colored, crinoidal grainstone.

Contact: sharp.

Unit 11. 9521–9557 ft (\pm): limestone, light-medium gray, hard peloidal/oolitic/coated grain grainstone, thin to medium bedding with internal fine stratification, occasional low-amplitude stylolites; no karst or hydrothermal overprints. Contact with unit below is gradational.

Unit 12. 9557–9577 ft±: limestone, medium gray, skeletal/crinoidal packstone/wackestone with thin seams and cavity fills of green clay (karst?); no hydrothermal alteration or bitumen.

Contact: gradational.

Unit 13. 9577–9646 ft: limestone, white to cream-colored, crinoidal grainstone with occasional other skeletal grains; some vertical stylolites and early chert replacement nodules (in lower third of the unit).

Contact: sharp.

Unit 14. 9646–9666 ft (base of core): dolostone (mostly), white, saddle dolomite, coarse grained containing large vugs with saddle dolomite, coarse calcite, and megaquartz; no bitumen. Originally crinoidal grainstone.



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Big Flat No. 2, Big Flat Field

API No. 43-019-11002 SW1/4NE1/4 section14, T. 26 S., R. 19 E., SLBL&M Grand County, Utah P&A

Cored Interval: 7704–7807 ft

Unit 1. 7704–7713.4 ft: dolostone, light-medium gray, "soft" peloidal mudstone, massive to bioturbated with feeding traces, subtidal depositional environment. Two thin, black, low-energy shale partings in upper 1 ft. Some black bitumen staining, splotchy and scattered (resembling a shale). Additional shaly partings between 7707–7708 ft. White anhydrite replacement nodules and fracture fillings between 7708–7709 ft. Limy interval with some bitumen and pyrite concentrations from 7709.2–7710 ft. Additional shaly partings at 7710.6 ft and 7772 ft, otherwise massive.

Contact: sharp.

Unit 2. 7713.4–7718.3 ft: limestone, light gray and light brown-gray, crinoidal/skeletal/peloidal packstone/wackestone, vaguely bedded to massive with some apparent oil stains, cross-cutting saddle dolomite replacement, some linear dissolution and sulfide concentrations, and minor black bitumen.

Contact: gradational.

Unit 3. 7718.3–7722 ft: limestone, light-medium brown and gray-brown, slightly to moderately partially dolomitized crinoid/skeletal/peloid packstone/wackestone, some small brachiopods; oil-stained (?) throughout. Some porosity development due to dissolution and dolomitization; a few secondary anhydrite nodules.

Contact: sharp.

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Unit 4. 7720 ± -7784.4 ft±: limestone, generally white, predominantly crinoidal grainstone, generally well-sorted with variable grain size of columnals, rugose corals at 7761.5 ft, massive to medium bedded with medium to low amplitude stylolites at bed boundaries. Early, light brown chert nodules (diameter up to 4–6 in.) at 7744 and 7734 ft. Two forms of breccia and dissolution are most prominent: (1) karst with infilling by green shale and by pink feldspathic sands, and (2) hydrothermal dolomite overprint; lowest karst cavity fill with shale at ~7778 ft.

Contact: sharp.

Unit 5. 7784.4 \pm -7786.5 ft \pm : calcite and anhydrite as cave filling or replacement, bedded to mottled.

Contact: gradational.

Unit 6. 7786.5–7807 ft (base of core): limestone, white, crinoidal grainstone as in Unit 4.

Big Flat Unit No. 3, Big Flat Field

API No. 43-019-15778 NE1/4NE1/4 section 23, T. 26 S., R. 19 E., SLBL&M Grand County, Utah P&A

Core Interval: 7615–7794 ft

Unit 1. 7615–7621 ft±: dolostone, slightly limy, peloidal wackestone/packstone/mudstone, bedded to laminated with brecciated karst overprint; some clasts intensely fractured with bitumen plugging.

Contact: sharp.

Unit 2. 7621–7627 ft±: limestone, white to light gray, peloidal/skeletal packstone/grainstone with minor porosity, brecciation due to karsting, moderate hydrothermal overprint, and bitumen-lined fractures.

Contact: sharp.

Unit 3. 7627–7651 ft: limestone, white to black, oolitic grainstone with significant preserved interparticle porosity (2–8%?), salt- and pepper-colored appearance due to bitumen, mild to moderate hydrothermal etching and fracturing; no significant karst overprint.

Contact: sharp.

Unit 4. 7651–7657 ft: limestone, white to cream-colored, "soft" peloidal mudstone/wackestone with cryptalgal laminae, no visible porosity; minor hydrothermal alteration and bitumen.

Contact: sharp.

Unit 5. 7657–7663 ft: limestone, white and black ("salt and pepper"), mixed (50/50) oolitic/crinoidal grainstone with modest interparticle porosity and patchy syntaxial overgrowths; vertical fractures and pores lined with bitumen.

Contact: sharp.

Unit 6. 7663-7667 ft: limestone, white and black, peloidal mudstone/wackestone/packstone with one zone of probable karst breccia; some bitumen with thin hydrothermally altered matrix.

Contact: sharp.

Unit 7. 7667–7676 ft: limestone, white and black ("salt and pepper"), oolitic/crinoidal grainstone with minor amounts of probable karst breccia and bitumen coating of hydrothermal leaching; some small scale, medium-angle cross-stratification.

Contact: sharp.

Unit 8. 7676–7684 ft: limestone, medium-dark gray and minor white, peloidal/skeletal grainstone/packstone, very heavy hydrothermal alteration and leaching with only small patches of unaltered rock; heavy bitumen coating of micro porosity.

Contact: sharp.

Unit 9. 7684–7705 ft: limestone, white, to 7699 ft, then dolostone, medium brown to medium brown-gray, crinoidal grainstone/packstone with increase of bryozoan fragments in lower 5 ft, generally low permeability, except crinoidal moldic porosity and bryozoan intraparticle porosity in dolostone; minor karst cracks filled with gray-green clays. Minor hydrothermal alteration and bitumen.

Contact: sharp.

Unit 10. 7705–7707.5 ft: dolostone, medium brown, peloid mudstone/wackstone, intensely fractured with pyrobitumen linings; small patches of hydrothermal etching of low permeability matrix with bitumen.

Contact: gradational.

Unit 11. 7707.5–7715 ft: limy dolostone, light-medium brown, skeletal/peloidal packstone/wackestone with patches of low permeability rock alternating with moldic porosity; abundant fractures lined with bitumen and hydrothermal etching and bitumen coatings.

Contact: gradational.

Unit 12. 7715–7754 ft±: limestone, white and black ("salt and pepper"), crinoidal/bryozoan grainstone with rugose corals, fair to good intrapartical and moldic porosity lined with bitumen; massive to thick bedded with abundant fractures also lined with bitumen.

Contact: gradational.

Unit 13. 7754–7764 ft: limestone, white with patches of black and white ("salt and pepper"), peloidal/skeletal packstone/grainstone, scattered intraparticle porosity and limited moldic porosity with bitumen-coating of pores; fractures also lined with bitumen.

Contact: gradational.

Unit 14. 7764–7788 ft: limestone, white and "salt and pepper" appearance due to bitumen lining porosity, crinoidal/skeletal grainstone. good visible moldic and interparticle matrix porosity, 8–12%.

Contact: gradational.

Long Canyon Unit No. 1, Long Canyon Field

API No. 43-019-15925 SE1/4NW1/4 section 9, T. 26 S., R. 20 E., SLBL&M Grand County, Utah Producing

Cored Interval: 9696–9761 ft

Unit 1. 7696–7703 ft.: limestone, light gray, oolitic grainstone with no visible porosity, all porosity lost by pressure solution with very little early cement; massive and bioturbated throughout with abundant vertical and horizontal stylolites.

Contact: sharp.

Unit 2. 7703–7710 ft: limestone, white to light gray, peloidal/skeletal grainstone/packstone, bioturbated with distinct *Callianassa*-style burrows, mostly horizontal low to moderate amplitude stylolites; no visible porosity.

Contact: sharp.

Unit 3. 7710–7716 ft: limestone, light gray, oolitic grainstone with no visible porosity, all porosity lost by pressure solution with very little early cement; massive and bioturbated throughout with abundant vertical and horizontal stylolites.

Contact: sharp.

Unit 4. 7716–7724 ft: limestone, white to light gray, skeletal/peloidal grainstone/packstone, bioturbated with distinct *Callianassa*-style burrows, mostly horizontal low to moderate amplitude stylolites; no visible porosity. Small rugose coral at ~7717 ft.

Contact: sharp.

Unit 5. 7724–~7735 ft±: dolostone, white to light brown, oolitic/hard peloid grainstone/packstone with pressure solution welding of grains, cross-cutting hydrothermal dolomite, zebra banding, and rimmed microstructures (railroad track-like fractures). Some visible intercrystalline, channel, and vug porosity types with light bitumen coatings.

Contact: gradational.

Unit 6. ~7735–7744 ft±: dolostone, light brown to medium gray-brown, peloidal/skeletal packstone/wackestone, alternating bedding and bioturbation; no visible porosity except in patches hydrothermal dolomite and bitumen overprints.

Contact: sharp.

Unit 7. 7744 ± -7746 ft: dolostone, white, oolitic/peloidal grainstone, thin bedded and beach-style, low-angle cross-stratification; zebra bedding and hydrothermal dolomite overprint.

Contact: gradational.

Unit 8. 7746–7758 ft: dolostone, medium brown, peloidal/skeletal grainstone/packstone with benthic forams and peloids, bedded with current laminations; no visible matrix porosity.

Contact: gradational.

Unit 9. 7758–7761 ft (base of core): dolostone, dark brown to dark gray-brown, peloidal/coated grains packstone/wackestone, thin-bedded with minor overprints of dissolution and bitumen; some vertical fractures, open and propped with hydrothermal alteration.

Note: no evidence of karsting in cored interval.

Taylor Creek Unit No. 2

API No. 43-019-31157 NW1/4SE1/4 section 12, T. 26 S., R. 25 E., SLBL&M Grand County, Utah P&A

Cored Interval: 16,405–16,490 ft (lower part of Leadville Limestone)

Unit 1. 16,405–16,412 ft: dolostone, light-medium gray, crinoidal/skeletal/"soft" peloidal wackestone/packstone, massive and bioturbated.

Contact: sharp.

Unit 2. 16,412–16,415.5 ft: limestone, white to light gray, crinoidal grainstone/packstone, medium to coarse grained, well-cemented with syntaxial overgrowths; occasional moderate amplitude stylolites.

Contact: gradational.

Unit 3. 16,415.5–16,429 ft: dolostone, light-medium gray, skeletal/peloidal wackestone/packstone with occasional breccia, rip-up clasts, and bioturbation.

Contact: sharp.

Unit 4. 16,429–16,442.4 ft: dolostone, white, crinoidal/skeletal grainstone/packstone, internally bedded to bioturbated; upper contact marked by medium scale cross-bedding and marine hard ground of encrusting sponge.

Contact: sharp.

Unit 5. 16,442.4–16,456.5 ft: dolostone, medium gray, skeletal/peloidal packstone/wackestone. no visible porosity, massive to bioturbated.

Contact: sharp.

Unit 6. 16,456.5–16,475.6 ft: dolostone, white to light gray, crinoidal/skeletal grainstone/packstone, generally massive to medium scale cross-bedding; both horizontal to vertical stylolites. No visible porosity.

Contact: stylolitic.

Unit 7. 16,475.6–16,490 ft (base of core): dolostone, medium-dark gray, skeletal/peloidal grainstone/packstone, cross-bedded with rip-up breccia clasts and oncolites; some structural deformation and some fractures filled with white anhydrite.

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Hatch Mesa No. 1

API No. 43-037-10982 NE1/4SW1/4 section 22, T. 28 S., R. 21 E., SLBL&M San Juan County, Utah P&A

Core Chips: 7751-7783 ft

Unit 1. 7751–7760 ft: dolostone, white to light gray to light-medium gray, originally "hard" peloid/oolitic grainstone overprinted with large saddle dolomite and small vugs but no bitumen; some moldic porosity. Patches of coarse, sucrosic ("sugary") dolomite. Some possible bitumen in finer dolomite with porosity at 7754 ft; possible crinoids at 7755 ft. Vugs with well-terminated quartz crystals at 7757 ft. Unit 2. 7760–7767 ft: limey dolostone, white to light gray, "soft" peloid/microfossil wackestone/packstone; no visible porosity. Unit 3. 7767–7770 ft: limy dolostone, white to light gray, "soft" peloid/microfossil wackestone/packstone; no visible porosity. Large mass of white fibrous anhydrite at 7768 ft, large masses of white anhydrite at 7769 ft, and anhydritic dolomite at 7670 ft. Unit 4. 7770–7772 ft: dolostone, medium gray-brown, coated grain/oolitic/skeletal/crinoidal grainstone, with massive anhydrite replacement. Unit 5. 7772–7778 ft: slightly limy dolostone, light-medium gray, "soft" peloidal/skeletal wackestone/packstone with no porosity, small nodules of anhydrite and abundant stylolites. Unit 6. 7778-7781 ft: dolostone, light brown, "soft" peloidal mudstone with no fossils. Unit 7. 7781–7783 ft (end of core chips): dolomitic limestone; white, crinoidal/peloidal/coated grain grainstone with good molding porosity. Note: the nature of the contacts between units could not accurately be determined because the samples were core chips.

Cataract Canyon No. 1

API No. 43-037-11247 NW1/4SE1/4 section 28, T. 32 S., R. 19 E., SLBL&M San Juan County, Utah P&A

Core Chips: 3215–3319 ft

Unit 1. 3215–3225 ft: dolostone, light-medium brown, crinoidal/oolitic/peloidal grainstone with preserved interparticle porosity and small vugs lined with small dolomite rhombs.
Unit 2. 3225–3235 ft: dolostone, medium brown, crinoidal/oolitic/peloidal grainstone with moldic porosity.
Unit 3. 3235–3245 ft: dolostone, medium brown, crinoidal grainstone with moldic porosity and minor intercrystalline porosity; some clear anhydrite filled scattered molds.
Unit 4. 3245–3252 ft: dolostone, medium brown, crinoidal grainstone with moldic porosity and minor intercrystalline porosity; some clear anhydrite filled scattered molds.
Unit 5. 3252–3255 ft: dolostone, medium brown, crinoidal grainstone with moldic porosity and minor intercrystalline porosity; some clear anhydrite filled scattered molds with large amplitude stylolites, minor white anhydrite.
Unit 6. 3255–3259 ft: dolostone, medium brown, crinoidal grainstone with moldic porosity and minor intercrystalline porosity; some clear anhydrite filled scattered molds with large amplitude stylolites, minor white anhydrite.
Unit 7. 3259–3262 ft: dolostone, light medium-brown, crinoidal/skeletal grainstone, no moldic porosity; high-amplitude stylolites.
Unit 8. 3262–3264 ft: dolostone, light medium-brown, crinoidal grainstone with patches of moldic porosity; high-amplitude stylolites.
Unit 9. 3264–3267 ft: dolostone, light medium-brown, crinoidal/skeletal grainstone with brachiopod and bryozoan fragments, low porosity, no molds.
Unit 10. 3267–3275.5 ft: dolostone, light medium-brown, crinoidal grainstone, limited moldic porosity, generally low permeability and massive (cloth bag of large core chunks); stylolites abundant and anhydrite along fractures.
Unit 11. 3275.5–3283 ft: dolostone, light medium-brown, crinoidal grainstone with abundant crinoidal moldic porosity, generally low permeability and massive, stylolites abundant; small patches of white anhydrite.

Unit 12. 3283–3284.5 ft: dolostone, medium brown, peloidal/skeletal packstone/wackestone with patches of coarse dolomite; hydrothermal overprint, but no bitumen.
Unit 13. 3284.5–3288.5 ft: dolostone, medium brown, crinoidal/peloidal/skeletal packstone/grainstone with moldic porosity.
Unit 14. 3288.5–3298 ft: dolostone, medium-dark brown, crinoidal grainstone with moldic porosity; some molds filled with clear anhydrite.
Unit 15. 3298–3309 ft: dolostone, medium-dark brown, crinoidal/skeletal grainstone with large rugose corals, moldic porosity; some molds filled with clear anhydrite.
Unit 16. 3309–3319 ft: dolostone, light-medium brown, crinoidal grainstone with fair intercrystalline porosity and some moldic porosity.
Unit 17. 3319–3323 ft (end of core chips): dolostone, light-medium brown, crinoidal grainstone with fair intercrystalline porosity and some moldic porosity.
Note: the nature of the contacts between units could not accurately be determined

Note: the nature of the contacts between units could not accurately be determined because the samples were core chips.

Big Indian USA No. 1, Big Indian Field

API No. 43-037-16219 SE1/4NE1/4 section 33, T. 29 S., R. 24 E., SLBL&M San Juan County, Utah Shut-In

Core Interval: 9869–10,191 ft

Unit 1. 9869–9892 ft±: limestone, white to very light gray, mostly crinoidal grainstone, low permeability with syntaxial overgrowths, massive to faintly bedded, regularly spaced medium amplitude stylolites, possible oil staining in dolomites; two thin, partially dolomitized intervals near base (<1 ft each) with small vugs. Top of perforations reported at 9886 ft.

Contact: sharp.

Unit 2. 9892–9900 ft±: dolostone, light brown, crinoidal grainstone, high intercrystalline porosity; probably oil stained.

Contact: sharp.

Unit 3. 9900–9907.5 ft: limestone, white, crinoidal grainstone, low- to mediumangle cross-bedding, low permeability with syntaxial overgrowths.

Contact: sharp.

Unit 4. 9907.5–9914 ft (9010–9912 ft missing): dolostone, light brown, peloidal/crinoidal/skeletal, packstone/wackstone, some intercrystalline porosity and crinoidal moldic porosity; possible oil stained.

Contact: sharp.

Unit 5. 9914–9951 ft: limestone, white, crinoidal grainstone with occasional rugose corals and other large fossils, very permeability with syntaxial overgrowths; well-bedded with regularly spaced, medium-amplitude stylolites. No karsting or hydrothermal overprint.

9951–10,021 ft: missing core

Unit 6. 10,021–10,028 ft±: dolostone, black and dark gray, crinoidal grainstone/packstone with possible mixture of ooids and peloids, moldic and intercrystalline porosity; extensive bitumen impregnation and micro porosity (hydrothermal overprint). Breccia at the top (1 ft).

Contact: sharp.

Unit 7. $10,028\pm-10,059$ ft: limestone, light-medium gray, oolitic grainstone with scattered peloids, thin to medium bedded including low-angle, beach-type cross-stratification near base (10,057–10,059 ft), low permeability due to complete cementation and pressure-solution grain contacts; vertical fractures common, filled with black bitumen.

Contact: sharp.

Unit 8. 10,059–10,063.5 ft±: limestone, medium-dark gray, peloidal packstone/wackestone with rip-up clasts and brecciation, some partial dolomitization with bitumen impregnation and possible hydrothermal overprint.

Contact: sharp.

Unit 9. 10,063.5±–10,065 ft: limestone, light gray, oolitic grainstone, cross-bedded, low permeability.

Contact: sharp.

Unit 10. 10,065–10,072 ft±: dolostone, medium brown to black, originally a peloidal mudstone/wackestone with occasional possible cryptalgal laminae; hydrothermally altered and brecciated with extensive black pyrobitumen micropore coatings.

Contact: sharp.

Unit 11. $10,072\pm-10,100$ ft \pm (10,082–10,095 ft missing): dolostone, medium brown-gray to dark gray, oolitic grainstone with excellent moldic and intercrystalline porosity, abundant low- to medium-angle cross-stratification; some brecciation and hydrothermal overprint with bitumen impregnation. Two thin white oolitic limestone intervals (10,094–10,095 ft, 10,098–10,099 ft).

10,100±-10,109 ft: missing core

Unit 12. 10,109–10,120 ft: dolostone and limestone, medium-dark gray, peloidal wackestone/packstone and grainstone with some horizontal laminations alternating with bioturbated(?) intervals; some black pyrobitumen impregnation.

Contact: gradational.

Unit 13. 10,020–10,128 ft: limestone, white to light-medium gray, oolitic grainstone with occasional rip-up clasts, well bedded, thin to medium scale with abundant low- to medium-angle cross-stratification; some beach/foreshore intervals. No visible porosity, but black bitumen-lined fractures.

Contact: sharp.

Unit 14. 10,128–10,135 ft: dolostone (mostly), medium brown and medium graybrown, "soft" peloid wackestone/packstone with some limy intervals, massive to bedded with some laminations; mild hydrothermal overprint with bitumen-lined fractures. Some white anhydrite-filled fractures.

10,135–10,148 ft: missing core

Unit 15. 10,148–10,150 ft: limestone, white, coated grain/oolitic/"hard" peloid grainstone, well cemented (low permeability) with clusters of high-amplitude stylolites and bitumen-lined fractures.

10,150-10,181 ft: missing core

Unit 16. 10,181–10,184 ft: dolostone, medium brown and black, peloidal wackestone/packstone/grainstone(?), mostly "soft" peloids and minor ooids; significant hydrothermal overprint and brecciation. Extensive bitumen infilling.

Contact: sharp.

Unit 17. 10,184–10,191ft (base of core): limestone, white to light gray, peloidal/skeletal packstone/grainstone, vague thin bedding to wavy bedding with low amplitude stylolites; no visible porosity.

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Lisbon Unit No. B-610 (N.W. Lisbon No. 1), Lisbon Field

API No. 43-037-16469 NE1/4NW1/4 section 10, T. 30 S., R. 24 E., SLBL&M San Juan County, Utah Producing

For core description from Lisbon Unit No. B-610, refer to plate B.2 in appendix B.

Southeast Lisbon No. 3, Southeast Lisbon Field

Section 16, T. 16 N., R. 19 W. San Miguel County, Colorado P&A

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21	43.0-45.0	1.1	0.1	0.9	4.3 75.6		8945 X
22	45.0-46.7	0.1	€0.1	0.9	0.0 65.5		RC 2 overprod
23	46.7-48.2	<0.1	<0.1	1.1	0.9 73.2		
24	48.2-50.0 50.0-51.5	<0.1	<0.1 <0.1	1.7	0.0 71.0		
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28	55.0-56.5	<0.1	≪0.1	1.5	0.0 83.6		
29	56.5-58.2	<0,1	0.1	1.2	0.0 71.9		
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31	60.0-62.0 62.0-63.8	<0.1 <0.1	<0.1 <0.1	1.3	4.0 45.1		
33	63.8-65.5	0.1	<0.1	1.7	4.2 50.7		**8965LX
34	65.5-67.0	<0.1	⊲0.1	1.3	0.0 72.1		
35	67.0-69.0	⊲0.1	⊲.1	1.7	0.0 70.0)	
36	69.0-71.0	⊲0.1	<0.1	1.4	0.0 63.7	*	8970
37	71.0-72.6	0.4	0,2	1.3	0.0 64.4	·	
_38	72.6-74.5	<0,1	≪0.1	1.7	0.0 51.4	•	
39	74.5-76.0	0.1	<0.1	1.4	0.0 63.6	>	
40	76.0-78.0 78.0-79.6	0.1 ≪0.1	≪0.1 ≪0.1	1.3	0.0 55.7	* /	
42	79.6-81.3	<0.1	⊲.1	1.1	0.0 68.9	2	
43	81.3-83.0	≪0.1	≪0.1	1.1	0.0 55.3		
44	83.0-84.7	<0.1	<0.1	1.1	0.0 60.6	5	18985L
42	04 5 00 0	0.2	0.1	1.0	2 7 51		
40	00.2-00.0	-0.1	10.1	2.02	1 0 20 4	*	
41	88.0-90.0	×0.1	-0.1	2.07	2 0 17 0		
48	90.0-92.0	-0.1	-0.1	27	2 6 23 5	2	
50	94.0-95.7	<0.1	₹0.1	2.7	2.6 26.		×0
51	95.7-97.0	⊲0.1	≪0.1	1.9	5.2 33.	5	
52 53	97.0-98.6	<0.1 √0.01	≪0.1	1.2	4.2 59.2	2	
51	9000 2-02 0	<0.01			1.6.60 -		
55 55	02.0-03.0	<0.01		1.8	0.0 83.0		
20	01 0 01 -	0.3	-V.1	0.9	0.0 /0.9	,	
57	04.8-06.5	0.5	0.3	1.3	0.0 67.7		
28	08.1.30.0	0.7	0.2	1.1	0.0 75.	<u> </u>	
<u>29</u> 60	10.0-11.6	0.8	<0.1	1.2	3.3 73.9		
61	11.6-13.2	0.5	0.1	1.3	3.1 52.3	3	
02	13.2-14.9	3.1	<0.1	2.2	0.0 52.		9015
63	14.9-16.7	4.5	0.5	0.9	0.0 73.1		
64	16.7-18.5	0.4	40.1	0.7	0.0 55.	2	
65	18.5-20.1	<u>40.1</u>	40.1	1.2	0.0 75.8	5	
67	20.1-22.0	<0.1 <0.1	≪0.1	1.1	3.6 75.4	4	
68	23.5-25.3	3.2	2.7	1.0	1.0 62.9	2	X-19025LX
69	25.3-27.0	<0.1	<0.1	0.8	0.0 68.3	3	
70	27.0-28.8	≪0.1	<0.1	1.0	0.0 60.6	5	
<u>71</u> m	28.8-30.7	40.1	×0.1	0.7	2.0 20.4	+	
72	22 2 2 2 2	0.1	0.1	0.7	1 2 81 9	*	
74	34.2-35.9	1.0	0.1	0.9	1.1 65.0	6	9035
75	35,9-37,8	0.1	0.1	1.7	0.0 90.	5	
76	37.8-39.5	5.0	3.9	1.3	0.0 70.3	3	Carl Karit X
77	39.5-41.2	1.8	1.1	1.1	0.0 78.7		But Range X THE
70	41-2-43.0	0.9	0.3	1 1 0	0 0 62 5		
70	13.0-11.6	1<0.7	10.7	0.9	0.0 03.1		
79	43.0-44.6	<0.1	<0.1	0.9	0.0 63.7		
79 80	43.0-44.6	<0.1	<0.1 <0.1	0.9	0.0 61.8	8	
79 80 81 82	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5	<0.1 <0.1 <0.1 <0.1 <0.1	<0.1 <0.1 <0.1 <0.1 <0.1	0.9	0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1		
79 80 81 82 83	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2	<0.1 <0.1 <0.1 <0.1 <0.1	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9	0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8		
79 79 80 81 82 83 83	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9 0.9 1.0 1.2 0.9	0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6		
79 79 80 81 82 83 83 84 85	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9 0.9 1.0 1.2 0.9 1.0 1.1	0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 63.2		
79 79 80 81 82 83 83 84 85 86	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0	0.0 61.2 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 63.2 0.0 71.9		
79 80 81 82 83 84 85 86 87 88	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1	0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 63.2 0.0 71.9 0.0 64.1		
79 80 81 82 83 84 85 86 87 88 80	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.4	0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 63.2 0.0 71.9 0.0 64.1 4.3 47.8		Image: Setting Image: Setting Image: Seting Image: Setting
79 80 81 82 83 84 85 86 87 88 89 90	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.8	0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 63.2 0.0 64.1 4.3 47.8 0.0 53.6		
79 80 81 82 83 84 85 86 87 88 89 90 90	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.9 0.8 2.2	0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 63.2 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6		$ \begin{array}{c} $
79 80 81 82 83 84 85 86 87 88 89 90 91 82	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.8 2.2 10.9	0.0 63.7 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 63.2 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.7		$\begin{array}{c c c c c c c c c c c c c c c c c c c $
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 <0.1<!--</td--><td>0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.8 2.2 10.9 13.7</td><td>0.0 63.7 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.6 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.4 1.6 45.6</td><td></td><td></td>	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.8 2.2 10.9 13.7	0.0 63.7 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.6 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.4 1.6 45.6		
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.8 2.2 10.9 13.7 18.9 18.6	$\begin{array}{c} 0.0 & 63.7 \\ 0.0 & 71.4 \\ 0.0 & 71.4 \\ 0.0 & 61.8 \\ 0.0 & 61.2 \\ 3.3 & 61.1 \\ 0.0 & 72.8 \\ 0.0 & 64.6 \\ 0.0 & 63.2 \\ 0.0 & 64.6 \\ 0.0 & 63.2 \\ 0.0 & 64.1 \\ 4.3 & 47.8 \\ 0.0 & 64.1 \\ 4.3 & 47.8 \\ 0.0 & 53.6 \\ 0.0 & 53.6 \\ 0.0 & 54.8 \\ 1.2 & 43.0 \\ 1.5 & 39.4 \\ 1.6 & 45.9 \\ 1.1 & 44.4 \end{array}$		
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5 71.5-73.2 73.2-74.8	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9 0.9 1.0 1.2 0.9 1.0 1.2 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.1 1.0 1.2 1.0 1.0 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.0 1.1 1.0 1.2 1.0 1.1 1.0 1.2 1.0 1.1 1.0 1.2 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.1 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.1 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.4 1.0 1.1 1.0 1.0 1.4 1.0 1.1 1.0 1.1 1.0 1.0 1.1 1.0 1.0 1.1 1.0 1.0	0.0 61.2 0.0 61.2 3.3 61.1 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 63.2 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 53.6 0.0 53.6 1.2 43.0 1.5 39.4 1.6 45.9 1.1 44.4 1.4 32.4 1.2 29.1		
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5 71.5-73.2 73.2-74.8 74.8-76.6	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	 <0.1 <0.1<!--</td--><td>0.9 0.9 1.0 1.2 0.9 1.0 1.2 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.1 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0</td><td>0.0 63.7 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.6 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.2 1.6 45.9 1.1 44.2 1.4 32.2 1.2 29.1 1.2 31.2</td><td></td><td></td>	0.9 0.9 1.0 1.2 0.9 1.0 1.2 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.0 1.2 1.0 1.0 1.1 1.0 1.2 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.0 63.7 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.6 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.2 1.6 45.9 1.1 44.2 1.4 32.2 1.2 29.1 1.2 31.2		
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5 71.5-73.2 73.2-74.8 74.8-76.6 76.6-78.3	<0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	0.9 0.9 1.0 1.2 0.9 1.0 1.2 0.9 1.0 1.1 1.0 1.1 1.0 1.1 1.0 1.4 0.9 0.8 2.2 10.9 0.8 2.2 10.9 13.7 18.9 13.7 18.9 14.6 14.8 14.6 9.9	0.0 61.2 0.0 61.2 3.3 61.1 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 63.2 0.0 64.1 4.3 47.8 0.0 53.6 0.0 53.6 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.4 1.4 32.4 1.4 32.4 1.4 32.4 1.2 29.1 1.2 31.4		
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79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 101 102 103 104 105 106 107 108 109 110 112 123 124 125 126 127 128 129	43.0-44.6 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5 71.5-73.2 73.2-74.8 74.8-76.6 76.6-78.3 78.3-80.0 80.0-81.5 81.5-83.5 83.5-85.0 85.0-86.8 86.8-87.9 87.9-89.2 89.2-91.0 91.0-93.0	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	<0.1	1.0 0.9 1.0 1.0 1.2 0.9 1.0 1.4 0.9 0.8 2.2 10.9 1.4.8 1.4.6 9.9 1.2.9 2.4 0.7 0.4 9.9 1.2.9 2.1 1.9 2.1 1.9 2.8 3.9 2.8 3.9 2.8 3.9 2.8 3.9 2.8	0.0 63.7 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 72.8 0.0 64.1 0.0 64.1 0.0 64.1 0.0 64.1 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.4 1.6 45.9 1.1 64.7 1.2 21.8 0.0 54.8 1.2 29.2 1.3 44.2 1.4 32.4 1.2 21.4 1.4 32.4 1.2 21.4 1.3 74.3 1.3 74.3 1.3 74.3 1.3 74.3 1.3 74.3 1.3 74.3 1.4 51.2 1.5 51.2 1.6 68.9 </td <td></td> <td></td>		
$ \begin{array}{c} 79 \\ 79 \\ 80 \\ 81 \\ 82 \\ 83 \\ 84 \\ 85 \\ 86 \\ 87 \\ 88 \\ 89 \\ 90 \\ 91 \\ 92 \\ 92 \\ $	43.0-44.6 44.6-46.2 44.6-46.2 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5 71.5-73.2 73.2-74.8 74.8-76.6 76.6-78.3 78.3-80.0 80.0-81.5 81.5-83.5 83.5-85.0 85.0-86.8 86.8-87.9 87.9-89.2 89.2-91.0 93.0-95.0 95.0-96.5 96.5-98.0 93.0-95.0	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	 <0.1 <0.1<!--</td--><td>$\begin{array}{c} 1.0 \\ 0.9 \\ 0.9 \\ 1.0 \\ 1.2 \\ 0.9 \\ 1.0 \\ 0.7 \\ 0.4 \\ 0.7 \\ 0.3 \\ 0.0 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\$</td><td>0.0 63.7 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.1 0.0 64.1 0.0 64.1 0.0 64.1 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.2 1.6 45.9 1.2 39.2 1.6 45.9 1.1 64.2 1.2 39.2 1.6 45.9 1.1 63.7 0.2 40.0 0.0 30.8 0.0 30.8 0.0 30.8 0.0 53.6 1.8 33.6 1.9 74.2 1.3 74.3 1.3 74.3 1.3 67.2 2.9 53.1</td><td></td><td></td>	$ \begin{array}{c} 1.0 \\ 0.9 \\ 0.9 \\ 1.0 \\ 1.2 \\ 0.9 \\ 1.0 \\ 0.7 \\ 0.4 \\ 0.7 \\ 0.3 \\ 0.0 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ 0.1 \\ $	0.0 63.7 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.8 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.1 0.0 64.1 0.0 64.1 0.0 64.1 0.0 53.6 0.0 54.8 1.2 43.0 1.5 39.2 1.6 45.9 1.2 39.2 1.6 45.9 1.1 64.2 1.2 39.2 1.6 45.9 1.1 63.7 0.2 40.0 0.0 30.8 0.0 30.8 0.0 30.8 0.0 53.6 1.8 33.6 1.9 74.2 1.3 74.3 1.3 74.3 1.3 67.2 2.9 53.1		
79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 112 121 122 123 124 125 126 127 128 129 130 131 120	43.0-44.6 44.6-46.2 46.2-48.0 46.2-48.0 48.0-49.5 49.5-51.2 51.2-53.0 51.2-53.0 51.2-53.0 53.0-54.7 54.7-56.5 56.5-58.0 58.0-60.0 60.0-62.0 9063-64.9 64.9-66.5 66.5-68.3 68.3-70.2 70.2-71.5 71.5-73.2 73.2-74.8 74.8-76.6 76.6-78.3 78.3-80.0 80.0-81.5 81.5-83.5 83.5-85.0 85.0-86.8 86.8-87.9 87.9-89.2 89.2-91.0 91.0-93.0 93.0-95.0 95.0-96.5 96.5-98.0 95.0-96.5 96.5-98.0 93.0-95.0 95.0-95.0 95.0-95.0 95.0-95.0 95.0-95.0 95.0-95.0 95.0-95.0 95.0-95.0 95.0-95.0 95.0-96.5 96.5-98.0 04.5-06.1 06.1-08.0 08.0-10.0 10.0-11.9 11.9-13.8 13.8-15.5 15.5-17.2 17.2-19.0 19.0-21.0 21.0-23.0 23.0-24.8 24.8-26.4 26.4-28.3 28.3-30.1 30.1-32.8 32.8-34.9 34.9-36.8	<pre><0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1</pre>	 <0.1 <0.1<!--</td--><td>1.0 0.9 0.9 1.0 1.4 0.9 0.8 2.2 10.9 12.9 2.4 0.4 0.7 0.4</td><td>0.0 63.7 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.6 0.0 64.7 0.0 64.1 4.3 47.8 0.0 53.6 0.0 54.8 1.2 43.0 1.2 43.0 1.2 43.0 1.2 39.2 1.6 45.9 1.1 64.5 1.2 29.2 1.3 32.6 0.0 53.6 1.4 32.7 1.6 45.9 1.6 45.9 1.8 33.6 3.0 53.1 1.8 56.4 1.3 74.2 3.1 67.2 1.3 74.4 3.2 63.9 1.8 50.0</td><td></td><td></td>	1.0 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.4 0.9 0.8 2.2 10.9 12.9 2.4 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4 0.7 0.4	0.0 63.7 0.0 61.8 0.0 61.8 0.0 61.8 0.0 61.2 3.3 61.1 0.0 72.8 0.0 64.6 0.0 64.6 0.0 64.6 0.0 64.7 0.0 64.1 4.3 47.8 0.0 53.6 0.0 54.8 1.2 43.0 1.2 43.0 1.2 43.0 1.2 39.2 1.6 45.9 1.1 64.5 1.2 29.2 1.3 32.6 0.0 53.6 1.4 32.7 1.6 45.9 1.6 45.9 1.8 33.6 3.0 53.1 1.8 56.4 1.3 74.2 3.1 67.2 1.3 74.4 3.2 63.9 1.8 50.0		

Explanation

Regional Leadville Facies Coding

- #1 Crinoidal Grainstone: Open-marine, moderate- to high-energy shoals
- #2 Oolitic/Coated Grain/"Hard" Peloid Grainstone: Restricted marine, high-energy shoals
- #3 Peloid/Skeletal Packstone/Wackestone: Low-energy, open marine, below wave base

Diagenetic Overprints

Hydrothermal alteration, dolomite, and bitumen linings