

## Sample Descriptions

Storage Units: Metric

95.00 to 100.00 (5.00)	20%	<b>SANDSTONE</b> light gray, salt and pepper, silt to very fine grained, well sorted, subangular to subrounded, poorly consolidated, clay cement, well consolidated, pyritic cement, quartz, trace coal flakes, occasional light chert grains, trace dark lithic, trace kaolin, argillaceous in part, rare disseminated pyrite, poor to fair (3 to 9%) intergranular porosity.
100.00 to 105.00 (5.00)	85%	<b>SHALE</b> medium gray, medium brown gray, subfissile to subblocky, as above.
	15%	<b>SANDSTONE</b> light gray, salt and pepper, silt to very fine grained, well sorted, subangular to subrounded, as above.
105.00 to 110.00 (5.00)	90%	<b>SHALE</b> medium gray, medium brown gray, subfissile to subblocky, earthy, silty & sandy, trace coal flakes, rare disseminated pyrite, trace light chert grains, bentonitic, grading to argillaceous Siltstone, soft.
	10%	<b>SANDSTONE</b> light gray, salt and pepper, silt to very fine grained, well sorted, as above.
110.00 to 115.00 (5.00)	90%	<b>SHALE</b> light to medium gray, occasional dark gray, subfissile to subblocky, earthy, occasional silty & sandy, trace to occasional coal flakes, occasional disseminated pyrite & pyritic streaks, trace pyritic blebs, soft to firm.
	10%	<b>SANDSTONE</b> light gray, salt and pepper, silt to very fine grained, well sorted, as above.
115.00 to 120.00 (5.00)	95%	<b>SHALE</b> light to medium gray, trace dark gray, subfissile to subblocky, earthy, occasional silty & sandy, trace to occasional coal flakes, occasional disseminated pyrite & pyritic streaks, trace pyritic blebs, soft to firm.
	5%	<b>SANDSTONE</b> light gray, salt and pepper, silt to very fine grained, well sorted, as above.
120.00 to 125.00 (5.00)	100%	<b>SHALE</b> light to medium gray, trace dark gray, subfissile to subblocky, earthy, as above.
125.00 to 130.00 (5.00)	100%	<b>SHALE</b> medium gray, light to medium brown gray, subfissile to subblocky, earthy, silty & sandy in part, trace coal flakes, trace to occasional disseminated pyrite & pyritic streaks, rare pyritic blebs, occasional light chert grains, slightly bentonitic, soft to firm.
130.00 to 135.00 (5.00)	100%	<b>SHALE</b> medium gray, light to medium brown gray, subfissile to subblocky, earthy, as above.

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135.00 to 140.00 (5.00)	100%	<b>SHALE</b> medium to dark gray, drkr than above, slightly laminated, subfissile to subblocky, earthy, silty & sandy, trace coal flakes, trace to occasional disseminated pyrite, occasional light chert grains, soft to firm.
140.00 to 145.00 (5.00)	100%	<b>SHALE</b> medium to dark gray, slightly laminated, subfissile to subblocky, earthy, silty & sandy, trace to occasional coal flakes, occasional disseminated pyrite, pyritic streaks in bedding laminations, occasional light chert grains, trace light to medium gray argillaceous Sandstone stringers, soft to firm.
145.00 to 150.00 (5.00)	100%	<b>SHALE</b> dark gray, occasional medium gray, becoming laminated, subfissile to subblocky, earthy, slightly silty & sandy, trace to occasional coal flakes, occasional to common disseminated pyrite, common disseminated pyrite along bedding laminations, soft to firm.
150.00 to 155.00 (5.00)	100%	<b>SHALE</b> dark gray, blackish in part, laminated, subfissile to trace subblocky, earthy, slightly silty & sandy, trace to occasional coal flakes, occasional disseminated pyrite, common disseminated pyrite along bedding laminations, soft to firm.
155.00 to 160.00 (5.00)	90%	<b>SHALE</b> dark gray, dark brown gray, blackish in part, laminated, subfissile to trace subblocky, slightly silty & sandy, occasional coal flakes, trace to occasional disseminated pyrite & streaks, rare calcite crystals possible fractures, soft to firm.
	10%	<b>CLAYSTONE</b> off white to very light gray, slightly mottled, trace to occasional disseminated pyrite, dissolves in acid but not water, slightly silty & sandy.
160.00 to 165.00 (5.00)	95%	<b>SHALE</b> dark gray, dark brown gray, blackish in part, laminated, as above.
	5%	<b>CLAYSTONE</b> off white to very light gray, slightly mottled, trace to occasional disseminated pyrite, dissolves in acid but not water, slightly silty & sandy.
165.00 to 170.00 (5.00)	100%	<b>SHALE</b> dark gray, dark brown gray, blackish in part, laminated, subfissile to trace subblocky, slightly silty & sandy, occasional coal flakes, trace to occasional disseminated pyrite & streaks, trace medium gray to medium brown argillaceous Sandstone stringers, soft to firm.
170.00 to 175.00 (5.00)	100%	<b>SHALE</b> dark gray, dark brown gray, blackish in part, laminated, subfissile to trace subblocky, as above.

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175.00 to 180.00 (5.00)	100%	<b>SHALE</b> medium gray, occasional dark gray, subfissile to subblocky, earthy, slightly silty & sandy, trace to occasional coal flakes, trace disseminated pyrite & pyritic blebs, trace disseminated pyrite streaks, trace medium brown Limestone stringers, soft to firm.
180.00 to 185.00 (5.00)	100%	<b>SHALE</b> medium gray, occasional dark gray, subfissile to subblocky, earthy, slightly silty & sandy, trace to occasional coal flakes, trace disseminated pyrite & pyritic blebs, trace disseminated pyrite streaks, occasional mica flakes, trace light to medium gray argillaceous Siltstone & Sandstone stringers, soft to firm.
185.00 to 190.00 (5.00)	100%	<b>SHALE</b> medium gray, medium brown gray, subfissile to subblocky, earthy, slightly silty & sandy, occasional coal flakes, trace disseminated pyrite, trace light chert grains, trace light to medium brown Limestone stringers, soft to firm.
190.00 to 195.00 (5.00)	100%	<b>SHALE</b> medium gray, medium brown gray, subfissile to subblocky, earthy, slightly silty & sandy, occasional coal flakes, trace disseminated pyrite, trace light chert grains, trace light Sandstone stringers, soft to firm.
195.00 to 200.00 (5.00)	100%	<b>SHALE</b> medium gray, medium brown gray, subfissile to subblocky, earthy, as above.
200.00 to 205.00 (5.00)	100%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, silty & sandy, trace coal flakes, trace disseminated pyrite, rare calcite crystals possible filled fractures, trace light gray very fine Sandstone stringers, rare light to medium brown Limestone stringers, soft to firm.
205.00 to 210.00 (5.00)	100%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, as above.
210.00 to 215.00 (5.00)	100%	<b>SHALE</b> medium gray, subfissile to subblocky, rth, silty & sandy, trace coal flakes, trace disseminated pyrite, rare to trace fossil fragments, soft to firm.
215.00 to 220.00 (5.00)	100%	<b>SHALE</b> medium gray, subfissile to subblocky, rth, as above.
220.00 to 225.00 (5.00)	100%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, slightly silty & sandy, rare coal flakes, trace disseminated pyrite, trace calcareous filled fractures, soft to firm.
225.00 to 230.00 (5.00)	100%	<b>SHALE</b> light to medium gray, subfissile to trace subblocky, earthy, slightly silty & sandy, rare to trace disseminated pyrite, rare coal flakes, occasional micro micaceous, soft to firm.

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230.00 to 235.00	100%	<b>SHALE</b> (5.00) light to medium gray, subfissile to trace subblocky, earthy, silty & sandy, rare to trace disseminated pyrite, rare to trace coal flakes, occasional micro micaceous, trace light to medium gray lenses & stringers, soft to firm.
235.00 to 240.00	100%	<b>SHALE</b> (5.00) light to medium gray, subfissile to trace subblocky, earthy, silty & sandy, rare to trace disseminated pyrite, rare pyritic blebs, rare to trace coal flakes, occasional micro micaceous, trace light to medium gray lenses & stringers, soft to firm.
240.00 to 245.00	100%	<b>SHALE</b> (5.00) light to medium gray, subfissile to trace subblocky, earthy, silty & sandy, rare to trace disseminated pyrite, rare to trace coal flakes, occasional micro micaceous, trace light to medium gray lenses & stringers, soft to firm.
245.00 to 250.00	100%	<b>SHALE</b> (5.00) light to medium gray, subfissile to trace subblocky, earthy, silty & sandy, rare to trace disseminated pyrite, trace coal flakes, occasional micro micaceous, trace light to medium gray lenses & stringers, soft to firm.
250.00 to 255.00	100%	<b>SHALE</b> (5.00) light brown gray, light gray brown, subfissile to subblocky, slightly laminated, earthy, slightly silty & sandy, rare coal flakes, trace to occasional micro disseminated pyrite, slightly bentonitic, trace plant rms, soft to firm.
255.00 to 260.00	100%	<b>SHALE</b> (5.00) light brown gray, light gray brown, subfissile to subblocky, as above.
260.00 to 265.00	100%	<b>SHALE</b> (5.00) light brown gray, light gray brown, subfissile to subblocky, slightly laminated, as above.
265.00 to 270.00	100%	<b>SHALE</b> (5.00) light brown gray, light gray brown, subfissile to subblocky, slightly laminated, earthy, slightly silty & sandy, rare coal flakes, trace to occasional micro disseminated pyrite, slightly bentonitic, trace plant rms, soft to firm.
270.00 to 275.00	100%	<b>SHALE</b> (5.00) light brown gray, light gray brown, subfissile to subblocky, as above.
275.00 to 280.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, slightly silty & sandy, rare micro carbonaceous, trace disseminated pyrite, micro mica, rare biotite flakes, slightly bentonitic, soft to firm.
280.00 to 285.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, slightly silty & sandy, rare to trace micro carbonaceous, trace disseminated pyrite, micro mica, rare biotite flakes, slightly bentonitic, soft to firm.

## Sample Descriptions

Storage Units: Metric

285.00 to 290.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, slightly silty & sandy, rare coal flakes, trace disseminated pyrite, micro mica, rare biotite flakes, slightly bentonitic, soft to firm.
290.00 to 295.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, as above.
295.00 to 300.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, earthy, occasional silty & sandy, trace coal flakes, trace disseminated pyrite, rare pyritic streaks, slightly bentonitic, trace to occasional micro mica, sft- firm.
300.00 to 305.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, earthy, slightly silty & sandy, rare coal flakes, trace disseminated pyrite, rare plant rms, slightly bentonitic, trace to occasional micro mica, trace argillaceous Sandstone stringers, sft- firm.
305.00 to 310.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, earthy, slightly silty & sandy, rare coal flakes, rare to trace disseminated pyrite, rare plant rms, slightly bentonitic, trace to occasional micro mica, sft- firm.
310.00 to 315.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, slightly silty & sandy, rare coal flakes, rare to trace disseminated pyrite, slightly bentonitic, rare calcite crystals, possible filled microfractures, soft to firm.
315.00 to 320.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, as above.
320.00 to 325.00	100%	<b>SHALE</b> (5.00) light gray, light brown gray, light gray brown, subfissile to subblocky, slightly silty & sandy, rare coal flakes, rare to trace disseminated pyrite, rare pyritic blebs, slightly bentonitic, rare calcite crystals, possible filled microfractures, soft to firm.
325.00 to 330.00	100%	<b>SHALE</b> (5.00) light gray, light gray brown, light brown gray, slightly laminated, subfissile to subblocky, slightly silty & sandy, rare coal flakes, occasional disseminated pyrite, occasional pyritic streaks, slightly bentonitic, soft to firm.
330.00 to 335.00	100%	<b>SHALE</b> (5.00) light gray, light gray brown, light brown gray, slightly laminated, subfissile to subblocky, slightly silty & sandy, rare coal flakes, occasional disseminated pyrite, occasional pyritic streaks, rare calcareous filled microfractures, slightly bentonitic, soft to firm.

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Storage Units: Metric

335.00 to 340.00	100%	<b>SHALE</b> (5.00)	light gray, light gray brown, light brown gray, slightly laminated, subfissile to subblocky, slightly silty & sandy, rare coal flakes, occasional disseminated pyrite, occasional pyritic streaks, trace calcareous filled microfractures, slightly bentonitic, soft to firm.
340.00 to 345.00	100%	<b>SHALE</b> (5.00)	light gray, light gray brown, light brown gray, slightly laminated, as above.
345.00 to 350.00	100%	<b>SHALE</b> (5.00)	light gray, light gray brown, light brown gray, slightly laminated, as above.
350.00 to 355.00	100%	<b>SHALE</b> (5.00)	light gray, light brown gray, subfissile to subblocky, slightly laminated, earthy, slightly silty & sandy, rare coal flakes, trace to occasional micromicaceous, occasional to common disseminated pyrite, occasional disseminated pyrite lining bedding laminations, trace to occasional calcareous filled fractures, rare pyritic blebs, soft to firm.
355.00 to 360.00	100%	<b>SHALE</b> (5.00)	light gray, light brown gray, subfissile to subblocky, slightly laminated, earthy, slightly silty & sandy, rare coal flakes, trace to occasional micromicaceous, occasional disseminated pyrite, occasional disseminated pyrite lining bedding laminations, trace calcareous filled fractures, rare pyritic blebs, soft to firm.
360.00 to 365.00	100%	<b>SHALE</b> (5.00)	light gray, light brown gray, subfissile to subblocky, slightly laminated, as above.
365.00 to 370.00	100%	<b>SHALE</b> (5.00)	light gray, light brown gray, subfissile to subblocky, slightly laminated, earthy, slightly silty & sandy, rare coal flakes, trace to occasional micromicaceous, trace to occasional disseminated pyrite, trace to occasional disseminated pyrite lining bedding laminations, rare to trace calcareous filled fractures, soft to firm.
370.00 to 375.00	100%	<b>SHALE</b> (5.00)	light gray, light brown gray, subfissile to subblocky, slightly laminated, earthy, slightly silty & sandy, rare coal flakes, trace to occasional micromicaceous, trace disseminated pyrite, trace disseminated pyrite lining bedding laminations, rare calcareous filled fractures, soft to firm.
375.00 to 380.00	100%	<b>SHALE</b> (5.00)	light to medium gray, brownish in part, subfissile to subblocky, earthy, slightly silty & sandy, rare coal flakes, trace to occasional disseminated pyrite, trace calcareous filled microfractures, soft to fair.
380.00 to 385.00	100%	<b>SHALE</b> (5.00)	light to medium gray, brownish in part, subfissile to subblocky, as above.
385.00 to 390.00	100%	<b>SHALE</b> (5.00)	light to medium gray, brownish in part, subfissile to subblocky, as above.

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390.00 to 395.00 (5.00)	75%	<b>SHALE</b> light to medium gray brown, light to medium brown gray, subfissile to subblocky, earthy, silty & sandy, rare coal flakes, trace to occasional disseminated pyrite, trace pyritic streaks, trace mica flakes, trace micromicaceous, trace calcareous filled fractures, grading to argillaceous Siltstone, soft to firm.
	25%	<b>SANDSTONE</b> off white, light brown, sly salt and pepper, silt to lower fine grained, moderately well sorted, subangular to subrounded, poorly consolidated, argillaceous, moderately consolidated, slightly siliceous, quartz, trace to occasional light chert grains, trace dark lithic, trace disseminated pyrite, trace kaolin, trace to occasional mica flakes, tight to poor (0 to 5%) intergranular porosity.
395.00 to 400.00 (5.00)	60%	<b>SHALE</b> medium gray, medium brown gray, earthy, slightly silt & sandy to silty & sandy in part, very slightly bentonitic, rare coal flakes, trace disseminated pyrite, grading to argillaceous Siltstone & Sandstone in part, soft to firm.
	40%	<b>SANDSTONE</b> light gray, light brown, off white, slightly salt and pepper, silt to very fine grained, well sorted, subangular to subrounded, poorly to moderately consolidated, very argillaceous, clayey in part, slightly siliceous, quartz, rare to trace micro carbonaceous, trace light chert grains, trace kaolin, trace disseminated pyrite, rare mica flakes, tight to poor (0 to 4%) intergranular porosity.
400.00 to 405.00 (5.00)	95%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, slightly silty & sandy, rare micro cab, rare to trace disseminated pyrite, rare pyritic blebs, slightly bentonitic, soft to firm.
	5%	<b>SILTSTONE</b> light brown, silt to lower very fine grade, well sorted, subangular to subrounded, moderately consolidated, siliceous cement, quartz, trace kaolin, trace coal flakes, rare disseminated pyrite, tight.
405.00 to 410.00 (5.00)	90%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, as above.
	10%	<b>SILTSTONE</b> light brown, silt to lower very fine grade, well sorted, subangular to subrounded, as above.
410.00 to 415.00 (5.00)	90%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, silty & sandy in part, rare micro carbonaceous, trace disseminated pyrite, rare glauconite grains, trace Siltstone & Sandstone lenses & stringers, soft to firm.
	10%	<b>SILTSTONE</b> light brown, silt to lower very fine grade, well sorted, subangular to subrounded, moderately consolidated, siliceous cement, quartz, trace kaolin, trace coal flakes, rare disseminated pyrite, tight.

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415.00 to 420.00	55%	<b>SANDSTONE</b> light brown, off white, clear in part, silt to fine grained, moderately sorted, subangular to subrounded, rare rounded, unconsolidated to friable to poorly consolidated, slightly siliceous, quartz, very glauconitic, trace kaolin, trace disseminated pyrite, fair to good to assumed excellent (8 to 16 to assumed 20%) intergranular porosity.
	35%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, silty & sandy in part, rare micro carbonaceous, trace disseminated pyrite, glauconitic in part, trace Siltstone & Sandstone lenses & stringers, soft to firm.
	10%	<b>SILTSTONE</b> light brown, silt to lower very fine grade, well sorted, as above.
420.00 to 425.00	60%	<b>SANDSTONE</b> light brown, off white, clear in part, silt to fine grained, moderately sorted, as above.
	30%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, as above.
	10%	<b>SILTSTONE</b> medium brown, medium gray brown, silt to lower very fine grained, well sorted, subangular to subrounded, poorly consolidated, argillaceous, trace micro carbonaceous, trace kaolin, trace light chert grains, trace disseminated pyrite, rare to trace glauconite grains, tight.
425.00 to 430.00	60%	<b>SANDSTONE</b> light brown, off white, clear, very fine to medium grained, moderately sorted, subangular to subrounded, rounded in part, unconsolidated to friable to poorly consolidated, slightly siliceous, rare pyrite cement, quartz, trace glauconite grains, trace kaolin, trace disseminated pyrite, fair to good to assumed excellent (8 to 16 to assumed 20%) intergranular porosity.
	30%	<b>SHALE</b> medium gray, subfissile to subblocky, earthy, as above.
	10%	<b>SILTSTONE</b> medium brown, medium gray brown, silt to lower very fine grained, well sorted, as above.
430.00 to 435.00	80%	<b>SHALE</b> very light gray, subblocky, earthy, silty & sandy in part, rare micro carbonaceous, rare disseminated pyrite, occasional bentonitic, soft.
	20%	<b>SILTSTONE</b> light gray, silt to lower very fine grained, well sorted, subangular to subrounded, poorly consolidated, argillaceous, slightly siliceous, quartz, trace micro carbonaceous, trace kaolin, rare dark lithic, tight.

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435.00 to 440.00 (5.00)	85%	<b>SHALE</b> very light gray, subblocky, earthy, silty & sandy in part, rare micro carbonaceous, rare disseminated pyrite, trace bentonitic, grading to argillaceous Siltstone, soft.
	15%	<b>SILTSTONE</b> light gray, silt to very fine grained, well sorted, subangular to subrounded, moderately consolidated, siliceous cement, quartz, trace to occasional micro carbonaceous, trace kaolin, slightly argillaceous, grading to silty Sandstone, tight.
440.00 to 445.00 (5.00)	90%	<b>SHALE</b> very light gray, subblocky, earthy, silty & sandy in part, as above.
	10%	<b>SILTSTONE</b> light gray, silt to very fine grained, well sorted, subangular to subrounded, as above.
445.00 to 450.00 (5.00)	70%	<b>SHALE</b> very light gray, subblocky, earthy, silty & sandy in part, rare micro carbonaceous, rare disseminated pyrite, slightly bentonitic, grading to argillaceous Siltstone, soft.
	30%	<b>SILTSTONE</b> light gray, silt to very fine grained, well sorted, subangular to subrounded, moderately consolidated, siliceous cement, quartz, trace to occasional micro carbonaceous, trace kaolin, slightly argillaceous, grading to silty Sandstone, tight.
450.00 to 455.00 (5.00)	80%	<b>SHALE</b> light gray, light brown, subblocky, slightly silty & sandy to silty & sandy in part, rare micro carbonaceous to rare coal flakes, slightly bentonitic, trace Siltstone lenses, soft.
	20%	<b>SILTSTONE</b> light gray, silt to lower very fine grained, well sorted, subangular to subrounded, moderately consolidated, siliceous cement, trace micro carbonaceous, rare glauconite, rare kaolin, rare disseminated pyrite, tight.
455.00 to 460.00 (5.00)	70%	<b>SHALE</b> light gray, light brown, slightly subfissile to subblocky, earthy, silty & sandy, trace to occasional coal flakes, rare disseminated pyrite, very slightly bentonitic, soft to firm.
	20%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to lower fine grained, moderately sorted, subangular to subrounded, moderately consolidated, siliceous cement, quartz, occasional micro carbonaceous, to trace coal flakes, rare feldspar, trace to occasional kaolin, rare disseminated pyrite, trace dark lithic grains, tight to poor (0 to 5%) intergranular porosity.

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455.00 to 460.00 (5.00)	10%	<b>SILTSTONE</b> light gray, silt to lower very fine grained, well sorted, subangular to subrounded, as above.		
460.00 to 465.00 (5.00)	90%	<b>SHALE</b> light gray, light brown, slightly subfissile to subblocky, earthy, as above.		
	10%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to lower fine grained, moderately sorted, subangular to subrounded, moderately consolidated, siliceous cement, quartz, occasional micro carbonaceous, to trace coal flakes, rare feldspar, trace to occasional kaolin, rare disseminated pyrite, trace dark lithic grains, tight to poor (0 to 5%) intergranular porosity.		
465.00 to 470.00 (5.00)	95%	<b>SHALE</b> light gray, light brown, slightly subfissile to subblocky, as above.		
	5%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to lower fine grained, moderately sorted, as above.		
470.00 to 475.00 (5.00)	85%	<b>SHALE</b> light gray, rare medium brown, slightly subfissile to subblocky, earthy, silty & sandy, trace to occasional coal flakes, rare disseminated pyrite, very slightly bentonitic, soft to firm.		
	10%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to lower fine grained, moderately sorted, as above.		
	5%	<b>SILTSTONE</b> light gray, silt to lower very fine grained, well sorted, subangular to subrounded, moderately consolidated, siliceous cement, trace micro carbonaceous, rare glauconite, rare kaolin, rare disseminated pyrite, tight.		
475.00 to 480.00 (5.00)	100%	<b>SHALE</b> light gray, very light brown, slightly mottled in part, slightly subfissile to subblocky, earthy, slightly silty & sandy, rare micro carbonaceous, very rare disseminated pyrite, soft to firm.		
480.00 to 485.00 (5.00)	80%	<b>SHALE</b> light gray, very light brown, very slightly mottled in part, slightly subfissile to subblocky, as above.		
	20%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to very fine grained, well sorted, subangular to subrounded, poorly consolidated, argillaceous, moderately consolidated, slightly siliceous, quartz, trace dark lithic, rare disseminated pyrite, rare to trace coal flakes, tight to poor (0 to 5%) intergranular porosity.		
485.00 to 490.00 (5.00)	95%	<b>SHALE</b> light gray, very light brown, slightly subfissile to subblocky, earthy, slightly silty & sandy, rare micro carbonaceous, very rare disseminated pyrite, soft to firm.		

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485.00 to 490.00 (5.00)	15%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to very fine grained, well sorted, grading to sandy Siltstone in part, as above.
490.00 to 495.00 (5.00)	95%	<b>SHALE</b> light gray, very light brown, slightly subfissile to subblocky, earthy, as above.
	5%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to very fine grained, well sorted, as above.
495.00 to 500.00 (5.00)	100%	<b>SHALE</b> light gray, very light brown, slightly mottled in part, slightly subfissile to subblocky, earthy, slightly silty & sandy, rare micro carbonaceous, very rare disseminated pyrite, trace Siltstone & Sandstone lens, soft to firm.
500.00 to 505.00 (5.00)	85%	<b>SHALE</b> light gray, very light brown, slightly subfissile to subblocky, earthy, slightly silty & sandy, rare micro carbonaceous, very rare disseminated pyrite, trace Siltstone & Sandstone lens, soft to firm.
	15%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to very fine grained, well sorted, subangular to subrounded, poorly consolidated, argillaceous, moderately consolidated, slightly siliceous, quartz, trace dark lithic, rare disseminated pyrite, rare to trace coal flakes, tight to poor (0 to 5%) intergranular porosity.
505.00 to 510.00 (5.00)	90%	<b>SHALE</b> light gray, very light brown, slightly subfissile to subblocky, earthy, as above.
	10%	<b>SANDSTONE</b> light gray, slightly salt and pepper, silt to very fine grained, well sorted, as above.