

Bonhams



Natural History

Los Angeles | December 4, 2018



Natural History

Los Angeles | Tuesday December 4, 2018 at 10am

BONHAMS

7601 W. Sunset Boulevard
Los Angeles, California 90046
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PREVIEW

Saturday, December 1, 12-5pm
Sunday, December 2, 12-5pm
Monday, December 3, 10am-5pm

SALE NUMBER

25495
Lots 1001 - 1178

CATALOG

\$35

BIDS

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Please contact client services with any bidding inquiries.

Please see pages 108 to 111 for bidder information including Conditions of Sale, after-sale collection and shipment.

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ILLUSTRATIONS

Front cover: Lot 1085A
Inside front cover: Lot 1084
1st Session page: Lot 1010
2nd Session page: Lot 1131
3rd Session page: Lot 1101
Inside back cover: Lot 1076
Back cover: Lot 1044

REGISTRATION IMPORTANT NOTICE

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Order of Sale

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ADDITIONAL IMAGES FOR ALL GROUP LOTS ARE AVAILABLE ON THE WEBSITE

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Current law dictates that jadeite and rubies of Burmese origin and any articles of jewelry containing jadeite or rubies of Burmese origin may not be imported into the U.S. Certification that such jadeite or rubies were not mined in or extracted from Burma is required for importation of them into the U.S.

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ERA	PERIOD	EPOCH	MILLION YEARS AGO
CENOZOIC	QUATERNARY	Holocene (Recent)	Present to 0.01
		Pleistocene (Ice Age)	0.01 to 2
	TERTIARY	Pliocene	2 to 5
		Miocene	5 to 25
		Oligocene	25 to 38
		Eocene	38 to 55
Paleocene	55 to 65		
MESOZOIC <i>(Age of the Dinosaur)</i>	CRETACEOUS		65 to 144
	JURASSIC		144 to 213
	TRIASSIC		213 to 248
PALEOZOIC	PERMIAN		248 to 286
	CARBONIFEROUS		286 to 360
	DEVONIAN		360 to 408
	SILURIAN		408 to 438
	ORDOVICIAN		438 to 505
	CAMBRIAN		505 to 590

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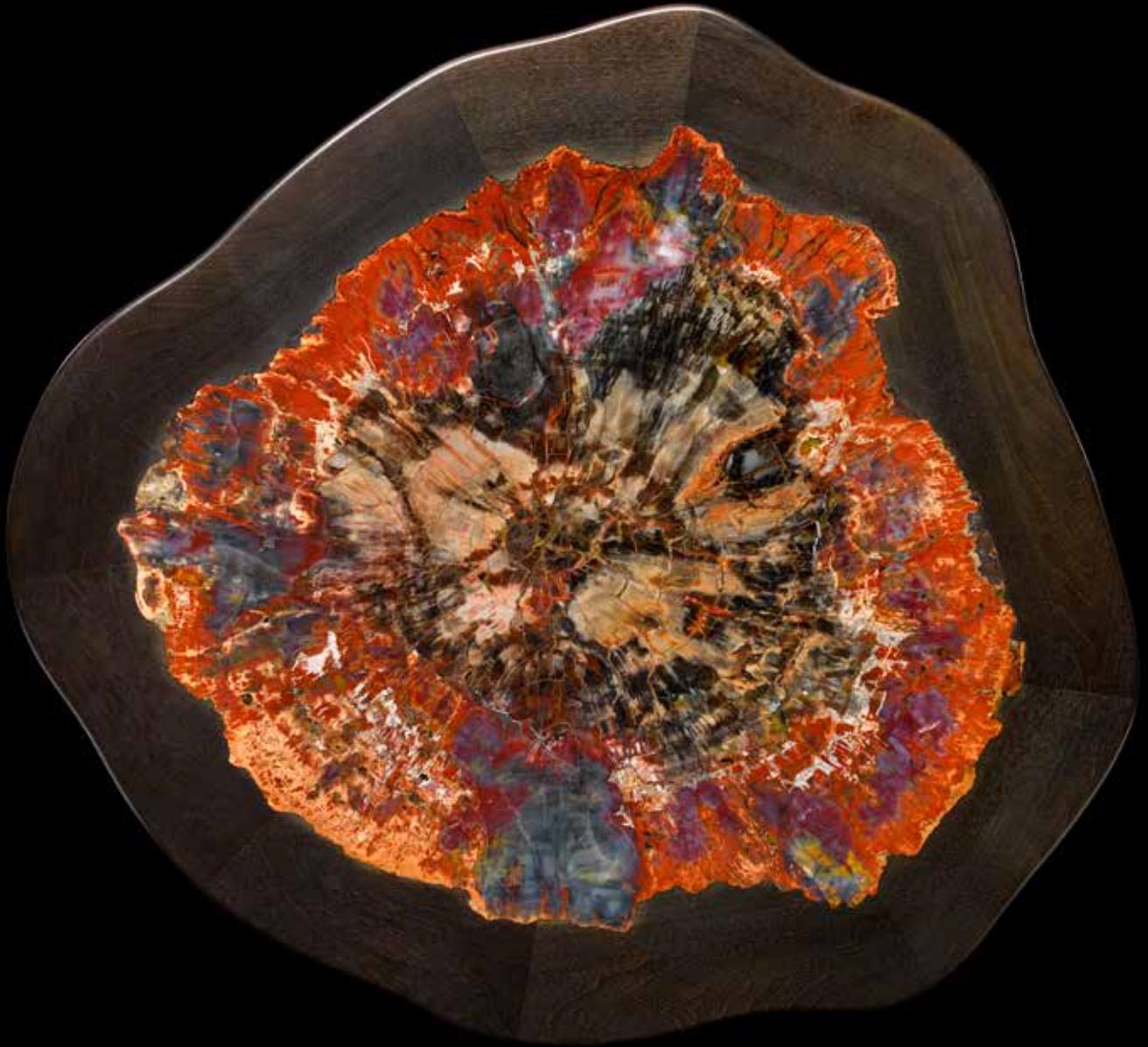
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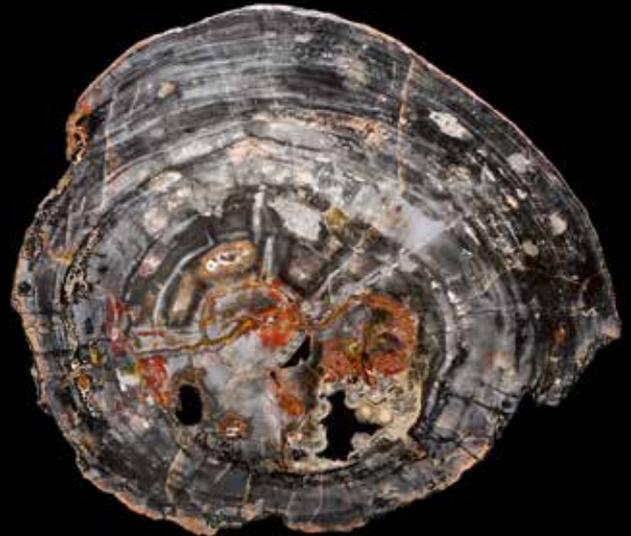
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Natural History





1001



1002



1003

PALEOBOTANY

1001

PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

Petrified wood is a fossil in which the organic remains of the original tree have been replaced by minerals. Part of this long “petrification” process generally involves a quartz chalcedony (agate) mineralization. Special rare conditions must have occurred for the fallen tree or branch to be transformed into petrified wood: in general, the fallen plant must be buried in an anaerobic environment (free of oxygen), which preserves the original cellular structure and general appearance. The other conditions include a regular access to mineral rich water in contact with the tissues, replacing the organic plant structure with inorganic minerals. The end result is petrified wood, a plant, with its original basic structure in place, replaced by stone. The present specimen is suitable for wall mounting as decorative display. This attractive slab has complete bark texture on all edges. It features the bright colors for which wood from this region is so prized and why specimens such as this have been dubbed “rainbow” wood.

Measuring 16 x 15 x 2 1/2 to 1 1/2 in

\$1,000 - 1,200

To be sold without reserve

1002^w

PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A fine cross section slab having predominantly black, grey and red hues which are considered very unusual and sought after by collectors. A naturally formed hole adds interest to this stunning natural table top. *Measuring 25 1/2 x 22 x 1 1/2 in*

\$800 - 1,200

To be sold without reserve



1004



1005



1006

1003^w

VERY LARGE PETRIFIED WOOD SPHERE

Auracarioxylon arizonicum
Triassic
Chinle Formation, Arizona

Characterized by warm brown tones and hints of ochre, beige and white, a sphere of this size is difficult and cumbersome to produce and is usually only attempted by master sphere maker. Such a large specimen would be certain to create a focal point in any residential or corporate interior. *Weighing 46 lbs (20.9 kilos). Diameter 12in*

\$1,000 - 1,500

To be sold without reserve

1004^w

PETRIFIED WOOD SLAB--"NAVAJO WOOD"

Auracarioxylon arizonicum
Triassic
Chinle Formation, Arizona

A fine cross section slab having predominantly cream with pink hues which has caused some collectors in the mineral hobby to dub this as "Navajo wood". *Measuring 23 x 18 x 1 1/2 in*

\$1,000 - 1,500

To be sold without reserve



1007

1005^w

LARGE PETRIFIED WOOD STUMP

Of suitable height for use as seating either indoors or out. This fine specimen shows predominantly black hues with a border of red at the edges and complete bark texturing all around. *Measuring 25 x 19 1/2 x 14 1/2 in*

\$2,500 - 3,500

To be sold without reserve

1006^w

PETRIFIED WOOD STUMP

Contour polished on the top surface to reveal beautiful hues of gray with red throughout, with complete bark texturing on all sides. Suitable for use as seating either indoors or out. *Measuring 19 1/4 x 17 x 15 1/2 in*

\$1,800 - 2,200

To be sold without reserve

1007^w

PETRIFIED WOOD SLAB

Auracarioxylon arizonicum
Triassic
Chinle Formation, Arizona

A fine cross section slab having a variety of bright hues, dominated by red, which has caused some collectors in the mineral hobby to dub this as "Arizona Rainbow Wood". *Measuring 22 x 19 x 1 1/4in*

\$800 - 1,200

To be sold without reserve



1008

1008^w

LARGE PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

Exotic minerals allow the red and green hues that can be seen in rarer specimens of petrified wood. The current offering is such an attractive specimen. Polished on the face, this cross-section slab of the agatized conifer still retains the original bark texture on all edges and gorgeous rust reds, burgundy, gray, cream, tan and ochre colors. The size is suitable for use as a large end table or coffee table and the thickness of this slab is more generous than typical at nearly 2 inches. Measuring 31 1/4 x 21 x 1 3/4 in

\$3,500 - 4,500



1009

1009^w

BLUE AND GRAY SLAB OF PETRIFIED WOOD

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A fine cross section slab with a well-polished face having unusual colors of blue and gray. Measuring 26 x 22 1/2 x 1 1/2 in

\$1,000 - 1,500

To be sold without reserve



1010^w

PETRIFIED WOOD INLAID TABLE

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

Fabricated in France by a prestigious cabinet maker, this beautiful slab of petrified wood has been expertly placed in a surround of European hardwood, raised on two stable legs. The rich red hues are particularly vibrant and provide a dramatic contrast to the dark wood. *Measuring 36 1/2 x 34 x 15 in*

\$6,000 - 8,000



1011

1011^w

**PETRIFIED WOOD SLAB--"NAVAJO"
WOOD**

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

A fine, large cross section slab of oval outline having hues of tan, beige, white and blue.

With complete bark texture all around and a small natural cavity to add visual interest.

Such specimens with this color palette have been popularly dubbed in the mineral hobby as "Navajo wood".

Measuring 36 x 26 x 1 1/2 in

\$1,500 - 2,500

To be sold without reserve



1012^w

UNUSUAL PETRIFIED WOOD SLAB

Auracarioxylon arizonicum

Triassic

Chinle Formation, Arizona

Most specimens of petrified wood are cut as rounds to maximize the yield from a longer trunk. The present specimen is rare in that it

is a longitudinal cut or what is known in the mineral hobby as a "rip cut".

The present specimen has dramatic hues of grey and black with red intermingled. With bark

texturing on two sides. Measuring 39 1/2 x 19 x 2 1/4 in. Height overall with stand: 14 1/4 in

\$4,000 - 6,000

Offered with a removable black metal stand.



1012



1013^w

SUPERLATIVE PALM FROND – FRAMED WALL MURAL

Sabalites sp.

Eocene

Green River Formation, Wyoming

Natural deep chocolate brown mineral replacement on a richly-toned limestone matrix distinguishes this prehistoric palm frond as an exceptional display piece. The extraordinary preservation includes the proximal end of the petiole, or stem. Evoking the subtropical environment of its Eocene origin, this covetable piece represents arguably the most aesthetic species of the Green River Formation. 51 million years ago, the palm frond sunk to the bottom of a deep prehistoric lake; fortuitously, cold temperature, fine silt and lack of oxygen allowed the preservation of its delicate cellulose structure – a marvelous occurrence. Framed in exotic wenge wood and cleated for ease of wall display. *Measuring 77 x 64in*

\$30,000 - 40,000



1014

AMBER

1014

PARTIAL WING OF AN ENANTIORNITHES BIRD IN 100-MILLION-YEAR-OLD AMBER

Enantiornithes

Cretaceous

Huzanne Valley, Myanmar

Burmite is the Early Cretaceous 96-110-million-year-old amber found in the Huzanne Valley in Northern Myanmar (Burma.) Because of its age, it is much harder than the younger amber of the Dominican Republic (20-25 million years old) or Baltic amber (50 million years old.) Burmite's hardness measures 2.5 on the Mohs scale. The preservation of insects and feathers is superior to the 80-million-year-old Canadian amber in its clarity.

Dinosaur or early bird feathers have been found in 80-million-year-old Canadian amber. More than 40,000 amber specimens were analyzed from a museum collection resulting in about one dozen amber nuggets containing feathers. There is greater quality and diversity of feathers found in Burmite, even though it is 20 million years older than the Canadian amber. During the Early Cretaceous, 100 million years ago, both feathered dinosaurs (theropods) and early birds lived together in the same environments.

The present remarkable partial wing in 100-million-year-old amber belonged to an *Enantiornithes* hatchling. These hatchlings displayed feathers with a structure similar to flight feathers in modern birds. The specimen's fortuitous preservation is likely due to the hatchling's climb or flight into sticky resin which hardened into amber over millions of years. *Amber Measuring 40 x 30 x 13mm; Wing specimen measuring 7 millimeters*

\$5,000 - 8,000



1015

1015

TWO FEATHERS IN 100-MILLION-YEAR-OLD AMBER

Indeterminate species

Cretaceous

Jukawang Valley, Myanmar

Most amber is too young to contain dinosaur feathers, but Burmite, the 100-million-year-old amber found in the Jukawang Valley in northern Burma (Myanmar), is not. In one of the scientific stories of the year several years ago, presumed dinosaur feathers were found in 80-million-year-old Canadian amber. More than 40,000 Canadian amber specimens were examined from a museum collection, which yielded about a dozen amber nuggets containing feathers. The distinction of what constitutes a dinosaur vs. an early bird is somewhat blurred. Both Coelurosaur and Tyrannosaur dinosaurs are known to have been feathered, evidenced by the outstanding fossils that have been found in Liaoning, China, dated from 110-130 million years old. Both the diversity and preservation of the possible dinosaur feathers preserved in Burmite exceed that of the Canadian amber. The present golden-yellow Burmite amber nugget contains two feathers, which may be dinosaur feathers. These branching symmetric feathers are beautifully preserved with a central rachis. Being symmetrical, these are not flight feathers but rather feathers from the body or arm of a 100-million-year-old dinosaur or bird. The specimens show remarkable detail, and, amazingly, there appears to be some feather pigment still present, which is brown or reddish-brown in color (an extremely rare phenomenon when found in amber.) The specimens exhibit excellent preservation. Offered in an 8 x 6-inch Riker mount with an enlarged photo of the *mystery* feathers. *Amber measuring 26 x 18 x 4 millimeters; Feathers measuring 17 millimeters*

\$4,000 - 5,000



1016



1017

1016

BIRD LEG WITH SCALES

Presumptive Identification: Enantiornithes

Cretaceous

Myanmar

This very rare bird leg with clearly visible scales includes one toe with a sharply defined claw. It appears that part of the bird's body is present, but it is not identifiable due to bacterial decay. This rare bird leg in clear yellow 100-million-year-old Burmite amber probably belongs to the extinct group of birds, *Enantiornithes*, which is known to have displayed claws on their wing tips as well as small teeth in their beak. These birds became extinct at the same time as the dinosaurs, 65 million years ago. The leg measures over 10 millimeters in length. Offered in an 8 x 6-inch Riker mount with a color photo of the fossil bird leg. *Measuring 23 x 20 x 3 mm*

\$5,000 - 8,000

1017

TWO MATING FLIES IN AMBER CABOCHON

Indeterminate Species

Cretaceous

Myanmar

A spectacular specimen, which exhibits two flies captured *in flagrante delicto*, in a clear golden-amber cabochon from Myanmar. The two red-brown flies are very clearly displayed in this 100-million-year-old amber cabochon. Offered in an 8 x 6-inch Riker Mount with a photo of the mating flies. *Cabochon measuring 21 x 13 x 4 millimeters; Specimens measuring 8 millimeters*

\$2,000 - 2,500

1018

PARTIAL LIZARD WITH CLAWED FOOT AND LEG

Indeterminate species

Cretaceous

Myanmar

One of the most rare and desirable of creatures in amber is the lizard. Most animals, including lizards, are too large to be trapped in the small amounts of tree resin exuded by coniferous trees millions of years ago. Burmite is 100-million-year-old amber that is found in the Hukawng Valley of Myanmar. The present remarkable partial lizard specimen, exhibiting a five-clawed foot, displays visible bones within mummified skin on the leg and foot. Offered in an 8 x 6-inch Riker mount with a photo of the lizard foot and leg. *Lizard specimen measuring 12 millimeters; Amber nugget measuring 13 x 11 millimeters*

\$3,000 - 4,000



1018



1019

1019

MOSQUITO IN AMBER

Aedes culcides

Cretaceous

Myanmar

This Burmite amber specimen from Myanmar (formerly Burma) is 98-105 million years old, from the Middle Cretaceous, when dinosaurs roamed the planet. Therefore, the small, well-preserved mosquito (*Aedes culcides*) encased within the clear, golden-colored amber nugget, could actually contain some dinosaur blood, as suggested in the famous *Jurassic Park* films. Also present in the captivating specimen is a clear *Lepidoptera* larva and several other flying insects. *Aedes* mosquitos still exist; one species of *Aedes* causes yellow fever in humans. Offered in an 8 x 6-inch Riker Mount with an enlarged photo of the *Aedes* mosquito. *Amber measuring 25 x 20 x 6 millimeters*

\$3,500 - 4,500



1020



1021



1022

1020

LARGE AMBER SPECIMEN

Possibly of Burmese origin, this large, “torpedo-shaped” specimen is opaque but with variations in color in hues of dark reddish-brown. Contour polished on the sides and polished flat on the base, it is capable of standing on its own. *Weighing approximately 800.8 grams and measuring 9 x 3 1/4 x 3 in*

\$600 - 800

To be sold without reserve

1021

LARGE AMBER SPECIMEN

Originating from an unknown locality, this large amber specimen is capable of standing on its own due to the flat surface polished on the bottom. It displays opaque yellow and reddish brown hues and is contour polished. *Weighing approximately 473.2 grams and measuring 6 x 3 1/2 x 2 1/2 in*

\$600 - 800

To be sold without reserve

1022

AMBER SPECIMEN

Oligocene

Chiapas, Mexico

Amber specimens form a fascinating area of fossil collecting. Under ultraviolet light the amber appears to be blue. A beautiful display piece. *Weighing 74.2 grams and measuring 3 3/4 x 2 5/8 x 3/4in*

\$2,200 - 2,800



1023

1023

VERY LARGE SPECIMEN OF AMBER

Burma

Burmese amber, also referred to as Burmite, is from the Hukawng Valley in the northern state of Kachin in Burma. Historical accounts say that Burmese amber made its way from the valley to the Roman Empire via the Silk Road in China as early as the first century AD. These accounts make Burmite at least 100 million years old. The present specimen is of deep reddish brown color. This is a particularly large specimen of amber which has a convoluted surface and significant character which would make it a fascinating display specimen. *Weighing approximately 1800 grams (1.8 kilos/4.0 lbs) and measuring 11 x 6 1/2 x 6in*

\$4,000 - 6,000

To be sold without reserve

1024

RED AMBER SPECIMEN

Burma

Once thought to be about the same age as Mexican amber, it was recently found that Burmite is much older--at least 100 million years old--or dating to the Cretaceous period. Other ambers that are used for jewelry or carvings are much younger, typically dating to the Tertiary period. The present, large specimen of reddish brown color has some translucency at the edges, having an excellent horizon line similar to a scholar's rock. *Weighing approximately 775 grams and measuring 8 x 7 1/2 x 2in*

\$1,500 - 2,000

To be sold without reserve

1025

MASSIVE AMBER SPECIMEN

Oligocene

Chiapas, Mexico

Numerous inclusions are visible in this very large amber specimen from Chiapas, Mexico. Under ultraviolet light the amber appears to be blue. Its size alone makes it noteworthy; the inclusions add fascination to this interesting piece. *Weighing 328 grams; Measuring 5 3/8 x 4 x 1 7/8in*

\$3,000 - 4,000



1024



1025



1026

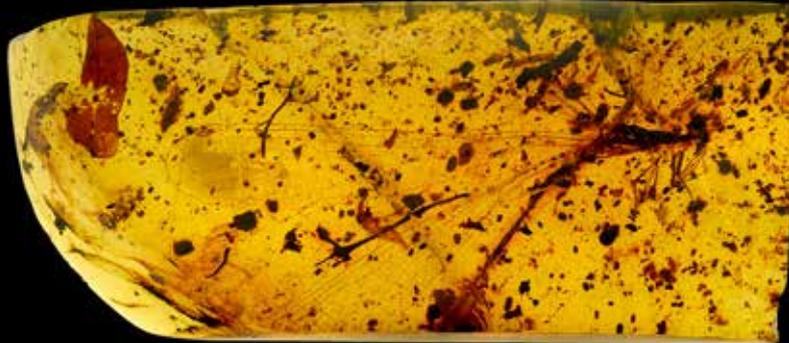
1026

FIVE AMBER SPECIMENS WITH INCLUSIONS

Baltic Sea Region

Including a small triangular specimen with tiny seed pod visible, *0.38 grams, height 12.1mm*; a large amber specimen with spider inclusion, *weighing 12.5 grams, height 46.35mm*; a large amber specimen, *weighing 8.78 grams, with spider and beetle, height 53.2mm*; a specimen with a damselfly, *weighing 4.08 grams, height 55.4mm*; and a specimen with an ant inclusion, *weighing 1.4 grams, height 24.6mm. (5)*

\$1,800 - 2,200



1027

1027

SPECTACULAR DRAGONFLY IN AMBER

Oligocene

Chiapas, Mexico

Amber specimens with inclusions form a fascinating area of fossil collecting. This specimen exhibits a very rare dragonfly. Superlative preservation of the venation of the wings is seen in this insect. *Measuring 59 x 25 x 14mm*

\$8,000 - 10,000



1028

1028

EXTINCT SPECIES OF ANT IN AMBER CABOCHON

Indeterminate Species

Cretaceous

Myanmar

This lovely, honey-colored Burmite Amber cabochon is 100 million years old. From Myanmar, it contains a very interesting species of extinct ant, which may be new and undescribed. This unusual-looking ant has both a bulbous head and abdomen with long antennae and long, spindly legs. Also present is a small beetle, interestingly presented on the back end of the ant's abdomen. Housed in an 8 x 6-inch Riker mount with an enlarged photo of the unusual ant. *Cabochon measuring 21 x 8 x 3 millimeters*

\$1,000 - 1,500

To be sold without reserve

1029

COLLECTION OF SIX BOTANICAL SPECIMENS IN AMBER CABOCHONS

Indeterminate species

Oligocene - Miocene

Dominican Republic

This lot consists of six clear Dominican Republic amber cabochons ranging in size from 8 – 30 millimeters in length. The fascinating botanical collection comprises liverworts, a flower stamen, a flower petal, a flower fragment, a leaf fragment and the tip of a leaf. Dominican Republic amber is approximately 25 million years old and is found in a mountainous region north of Santiago. Offered in an 8 x 6-inch Riker mount with enlarged photos of the plant inclusions. (6) *Each amber cabochon measuring from 8 to 30 millimeters*

\$1,000 - 1,500

To be sold without reserve



1030

UNUSUAL ANTLION LARVA IN BURMITE AMBER CABOCHON

Nemopteridae

Cretaceous

Myanmar (Burma)

Alien in appearance, this *Nemopteridae* larva was encased, 100 million years ago, in tree sap. Transformed over the millennia into a fairly clear rust-colored piece of Burmite amber, it has been fashioned into a cabochon. The fascinating larva displays a very large head, large mandibles with sharp pincers and a very long neck. The adult insect is known as the antlion, which is a nocturnal flying insect resembling a damselfly or a dragonfly. The antlion larvae are fierce predators, which even dig pits to trap ants and other walking insects. Offered in an 8 x 6-inch Riker mount accompanied by an enlarged photo of the *Nemopteridae* larva. *Insect measuring approximately 10 mm; Amber measuring 22 x 17 mm*

1029

\$2,000 - 3,000

1031

RARE DOUBLE BUTTERFLY IN AMBER

Oligocene

Chiapas, Mexico

The amber deposits of Chiapas were re-discovered in 1953 by the archaeologist *Frans Blom*, and were subsequently studied at the University of California, Berkeley. The present offering is one of the most rare pieces discovered in these amazing Oligocene aged amber mines. Not one, but two, butterflies are entombed in this extraordinary piece of Oligocene amber. This discovery is considered to be the only known double butterfly specimen in amber.

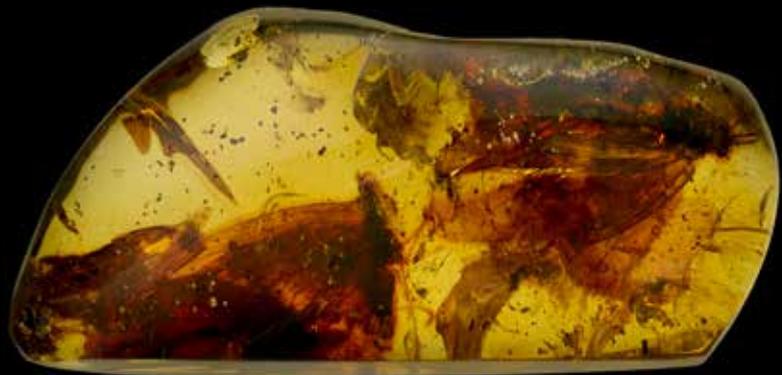
Chiapas amber was originally discovered by the Mayans. The beautiful 30-23-million-year-old fossilized tree sap, produced by the prehistoric hymeneae tree, fortuitously entombed small specimens of flora and fauna of the Oligocene. Here is an exceptionally rare example. *Measuring 73 x 35 x 19 mm*

\$2,800 - 3,500

The specimen was pictured in the March, 2018 issue of Rock and Gem magazine.



1030



1031



1032

1032

GOLDEN AMBER SPECIMEN

Originating from an unknown locality, this large specimen of amber, is capable of standing on its own due to the flat face on the bottom. It has been contour polished to reveal the rich golden yellow color. Numerous insect inclusions, such as ants and termites, can be seen. The transparency is moderate at the center but significantly better at the edges. *Weighing approximately 789 grams and measuring 6 x 6 1/2 x 2in*

\$1,000 - 1,500

To be sold without reserve



1033

1033

MOTH IN AMBER

Oligocene

Chiapas, Mexico

Chiapas amber was originally discovered by the Mayans, who prized the beautiful material it and included it in their inventory scrolls.

The present specimen exhibits a large, rare moth displaying exceptional wingspread and preservation. A remarkable addition for the discriminating collector. *Measuring 35 x 20 x 17mm*

\$3,000 - 4,000

The specimen was pictured in the March, 2018 issue of Rock and Gem magazine.

1034

FOUR AMBER SPECIMENS WITH INSECT INCLUSIONS

Baltic Sea Region

The largest with a drilled hole to be suspended as a pendant, *weighing approximately 11.08 grams, height 38.6 mm*, displaying a swarm of gnats; the second, *weighing 6.6 grams*, with a fly (?) inclusion, *height 33.2 mm*; the third, *weighing 2.7 grams, with a grasshopper and gnat*; and the fourth, *weighing 1.9 grams*, with flies and a beetle. (4)

\$1,800 - 2,200



1034

1035

MONITOR LIZARD CARVING OF BALTIC AMBER

Baltic Region

An exquisite monitor lizard carving fashioned from a 44-million-year-old opaque piece of Baltic Amber. The bright orange lizard is artfully carved of a single piece of amber. Baltic Amber has been used in jewelry for several thousand years. *Length 3in*

\$1,000 - 1,500

To be sold without reserve



1035



1036

1036

RARE BLUE AMBER SPECIMEN

Oligocene-Miocene
25 million years old
Dominican Republic

Blue amber reportedly is found mostly in Palo Quemado mine south from La Cumbre in the Dominican Republic. The present offering is a large palm sized specimen, which could even be mounted as a large pendant. The specimen displays a bright blue color even when viewed under natural room light. The plant debris seen in the interior is typical for this locality. *Weighing approximately 52.6 grams and measuring 3 1/4 x 2 x 3/4 in*

\$1,500 - 2,000



1037

1037

UNIQUE RED AMBER CARVING--"THE APPLE"

Early Miocene
23 - 10 million years old
Sumatra, Indonesia

The red hues inherent in the amber captured the imagination of the lapidary and suggested the subject matter and the composition is completed with a sterling silver stem and leaf. Deep red amber with vivid blue overtones, particularly in sunlight, the polish is very high and the clarity excellent. The amber used to carve this apple represents the highest quality of Indonesian material. *Height 2 3/4 in*

\$800 - 1,200



1038

1038

AMBER SCENT BOTTLE

Oligocene-Miocene
25 million years old
Dominican Republic

Carved in a classic gourd form, in the Chinese taste, the stopper and the body of the scent bottle both having a high degree of transparency and distinct green overtones, particularly under fluorescent light. *Weighing 54 grams. Height 3 1/4 in*

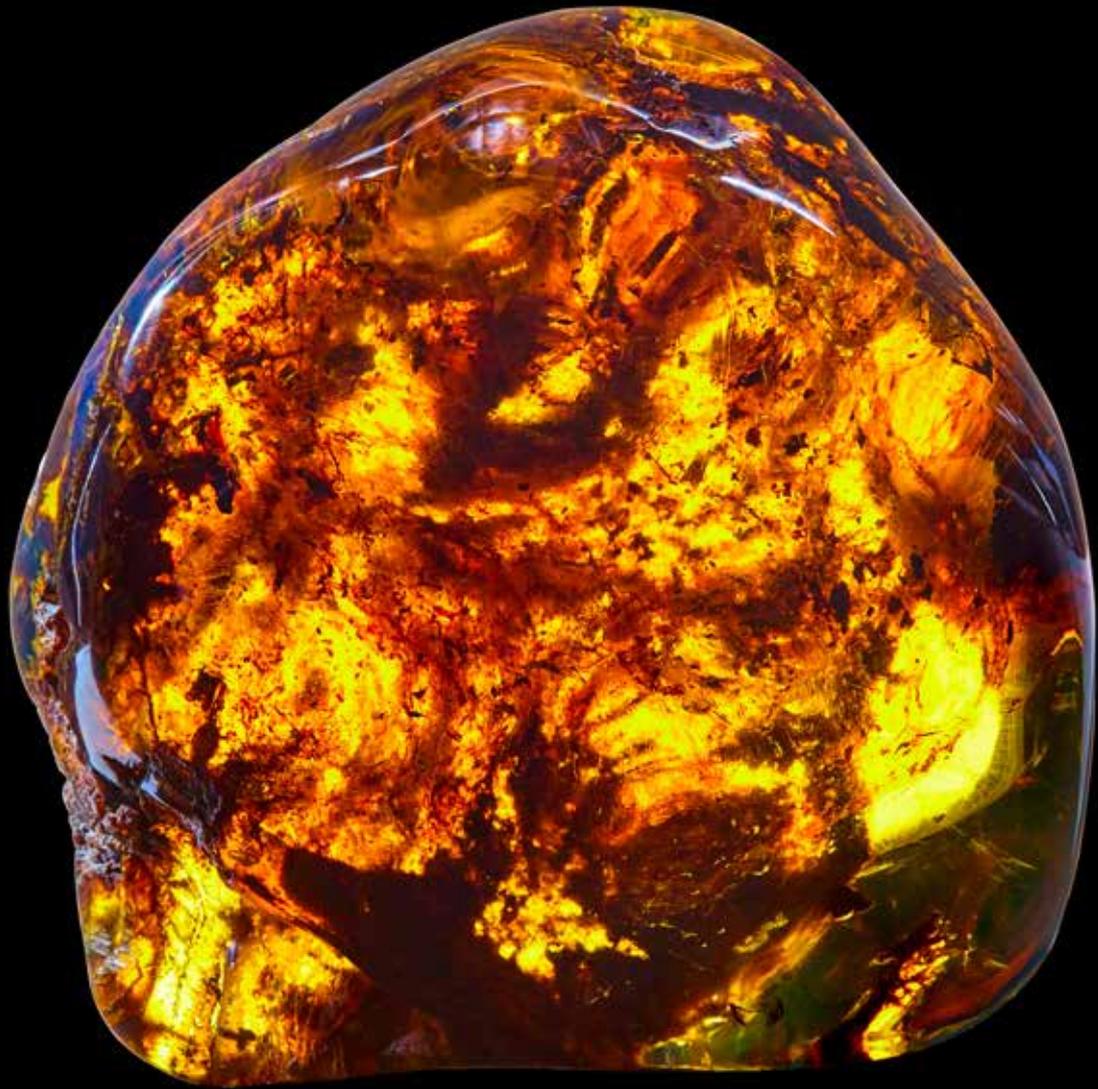
\$700 - 1,000

1039

CARVED AMBER SNUFF BOTTLE

A vintage snuff bottle, most likely carved from Burmese amber, of deep brown hue and moderate transparency, having a removable stopper. Decorated in the Chinese manner, with an overall basketweave design with two bats, peaches and coin motifs overlaid. *Measuring 2 3/4 in x 1 1/2 in x 3/4 in*

\$1,200 - 1,500



1040

LARGE AND IMPORTANT BLUE AMBER SPECIMEN

Oligocene-Miocene

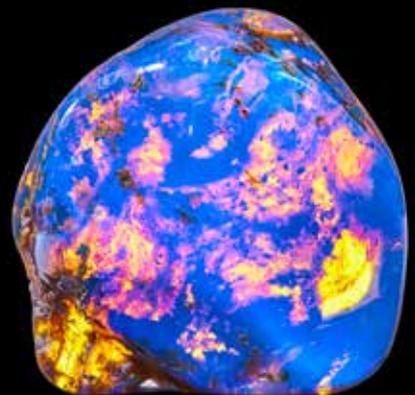
25 million years old

Dominican Republic

Resin from the extinct tree *Hymenaea protera* is the source of Dominican amber and probably of most amber found in the tropics. Blue amber reportedly is found mostly in Palo Quemado mine south from La Cumbre. Dominican amber, especially Dominican blue amber, is mined through bell pitting, which is extremely dangerous. The bell pit is basically a foxhole dug with whatever tools are available. Machetes do the start, some shovels, picks and hammers may participate eventually. The pit itself goes as deep or safe as possible, sometimes vertical, sometimes horizontal, but never level. It snakes into hill sides, drops away, joins up with others, goes straight up and pops out elsewhere. 'Foxhole' applies indeed: rarely are the pits large enough to stand in, and then only at the entrance. Miners crawl around on their knees using short-handled picks, shovels and machetes.

There are little to no safety measures. A pillar or so may hold back the ceiling from time to time but only if the area has previously collapsed. Candles are the only source of light. Humidity inside the mines is at 100%. Since the holes are situated high on mountainsides and deep inside said mountains, the temperature is cool and bearable, but after several hours the air becomes stale. During rain the mines are forced to close. The holes fill up quickly with water, and there is little point in pumping it out again (although sometimes this is done) because the unsecured walls may crumble.

The present specimen is the largest blue amber specimen of which we are aware. Weighing just under 1000 grams its size is particularly impressive. *Weighing approximately 960 grams and measuring 6 x 5 3/4 x 3in*



\$10,000 - 15,000



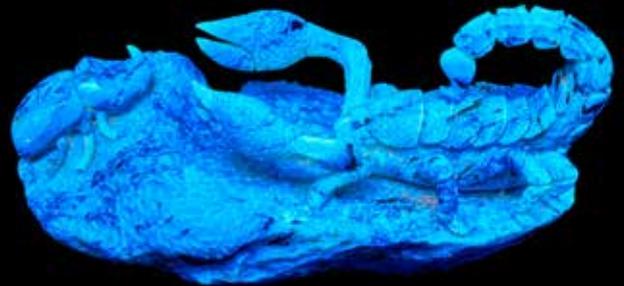
1041



1041



1042



1042

1041

AMBER ALLIGATOR CARVING

Oligocene
Chiapas, Mexico

Offered is a superlative carving realistically depicting an alligator, carved from the fascinating 30-23-million-year-old Chiapas amber. The amber of Chiapas, Mexico, produced by the prehistoric hymanea tree, exhibits bluish hues when viewed under ultraviolet light, while appearing greenish under natural light. The animated carving was created by a master carver of San Cristobal de las Casas. *Weighing approximately 607 grams and measuring 7 x 6 1/2 x 2 1/2 in*

\$3,800 - 4,200

1042

AMBER CARVING DEPICTING A SCORPION WITH BEETLE

Oligocene
Chiapas, Mexico

Offered is a superlative carving realistically depicting a scorpion in a confrontational pose with the beetle, carved from Chiapas amber. The amber of Chiapas, Mexico, produced by the prehistoric hymanea tree, exhibits bluish hues when viewed under ultraviolet light, while appearing greenish under natural light. The animated carving was created by a master carver of San Cristobal de las Casas. *Weighing approximately 157 grams and measuring 5 x 2 3/4 x 2 1/2 in*

\$3,500 - 4,500



1043

AMBER BUFFALO CARVING

Oligocene
Chiapas, Mexico

The amber of Chiapas, Mexico, produced by the prehistoric hymenoptera tree, exhibits bluish hues when viewed under ultraviolet light, while appearing greenish under natural light. The present offering is an excellent carving realistically depicting a buffalo, carved from the fascinating 30-23-million-year-old Chiapas amber. This animated carving was created by a master carver of San Cristobal de las Casas. Weighing approximately 110 grams and measuring 4 x 3 1/8 x 1 1/2 in

\$2,800 - 3,200







1044

**EXCEPTIONALLY LARGE COLOMBIAN COPAL SPECIMEN
WITH TERMITE COLONY**

Cenozoic

Colombia, South America

Copal and amber are fossilized tree resins. Some trees produce resins to help heal breaks and gashes in their bark. Occasionally insects become trapped in the sticky copal, are mummified (desiccated) and display amazing preservation of soft tissues, microscopic detail and, sometimes, even color.

The age of copal or amber itself cannot be determined. Only the rock it is deposited in can be tested. Colombian copal is found mostly in the Andes Mountains in remote regions and has not been properly dated. The present clear honey-colored copal specimen has been polished on all sides, revealing hundreds of termites. It is thought to be the largest copal specimen with insect inclusions ever offered at auction. *Weighing 4 1/2 lbs and measuring 18 1/2 X 7 1/2 X 1 1/4 in*

\$3,500 - 4,500



1045



1046



1047



1048

1045

AMBER PRAYER BEADS TOGETHER WITH AN AMBER BEAD BRACELET

Sumatra, Indonesia

Of highly translucent reddish brown amber with blue fluorescence, comprising thirty-two spherical beads of 16mm size, completed by a cord tassel, *total gross weight: 84.5 grams*; together with a bead bracelet consisting of 10mm spherical beads of reddish brown translucent amber from the same source, *weighing 11.2 grams, circumference 7 inches.* (2)

\$300 - 500

1046

THREE AMBER NUGGET NECKLACES

Baltic Coast

Each consisting of amber nuggets graduating in size, two of which are completed by a screw clasp, *25.7 grams and 22.3 grams, lengths 22 and 21 inches*; together with a third necklace strung as a continuous strand of graduated nugget beads, *37.0 grams, length 26 in.* (3)

\$500 - 700

To be sold without reserve

1047

YELLOW AMBER BEAD NECKLACE

Dominican Republic

Resin from the extinct tree *Hymenaea protera* is the source of Dominican amber and probably of most amber found in the tropics. Dominican amber is differentiated from Baltic amber by being nearly always transparent. The present necklace comprises forty-one polished spherical beads having a high degree of clarity. They are well-matched for their golden yellow hue. Completed by a silver lobster-claw clasp. *Weighing approximately 52.1 grams. Length 23 in.*

\$600 - 800

1048

AMBER BEAD NECKLACE

Sumatra, Indonesia

A single strand necklace of slightly spherical beads of amber, *graduating from 18.2 mm to 14.8mm, having green fluorescence, length 26in.*

\$300 - 500

To be sold without reserve



1049

GREEN AND RED AMBER AND TURQUOISE BEAD NECKLACE

*25 million years old
Chiapas, Mexico*

Since pre-Hispanic times, native peoples have believed amber to have healing and protective qualities. A single-strand bead necklace consisting of free-form polished amber beads of high transparency having distinctly red overtones to some beads and green to others as well as a green fluorescence, the beads graduating in size from 35.24mm to 16.94 mm, centering on a Chinese turquoise bead, weighing approximately 130.0 grams, length 26in.

\$600 - 800
To be sold without reserve

1050
AMBER NUGGET NECKLACE

Baltic Coast

Comprising 45 natural nugget form beads of polished amber in medium to dark shades, completed by a traditional screw-form clasp. Weighing approximately 200 grams. Length 23 1/2 in

\$600 - 800

1051
IMPRESSIVE AMBER NUGGET NECKLACE

Baltic Coast

Baltic amber was derived from either a pine or a gum tree and its exact origins are still being debated, whereas Dominican amber originates from the leguminous, *Hymenaea* tree. This, and environmental conditions during formation result in a slightly different appearance in the two ambers. The present necklace is typical of the type found on the Baltic Coast. 40-50 million years ago, when the Scandinavian Peninsula was connected with the eastern coast of the Baltic, the forests grew on the North Sea coast, where the climate resembled the climate of modern Africa. Designed as a continuous necklace with no clasp, consisting of twenty amber nuggets of medium golden hue which are lightly polished, and some of which still contain evidence of the natural rind. Weighing approximately 285 grams. Length 23 1/2 in

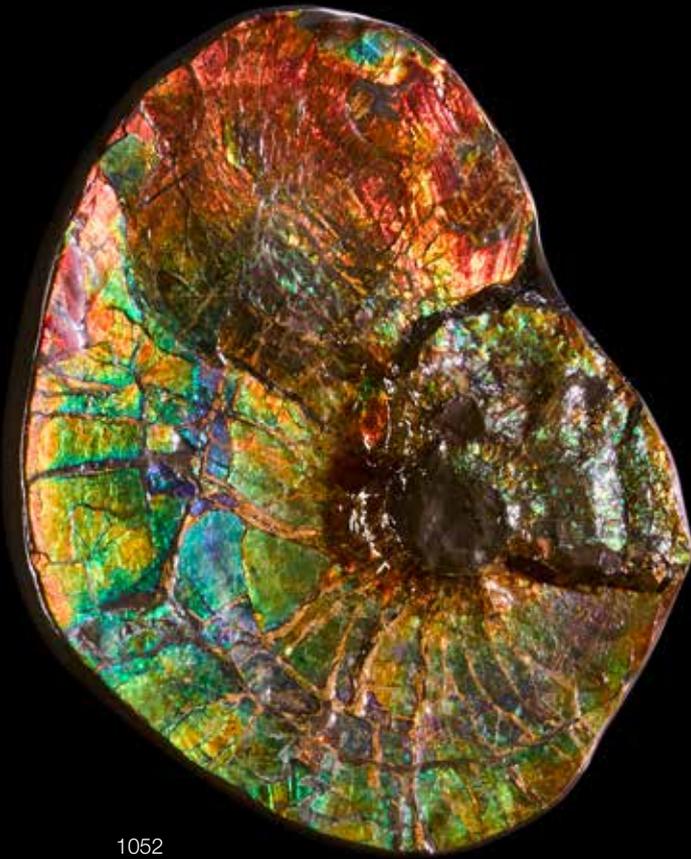
\$1,500 - 2,000



1050



1051



1052

AMMONITES

1052

IRIDESCENT AMMONITE SECTION

Placenticerus meeki

Cretaceous

Bearpaw Formation, Alberta, Canada

Like a cathedral window having large patches of iridescent green, yellow, red and orange and blue, this large section of an ammonite is a striking natural work of art. *Measuring 11 1/2 x 10 x 1 in*

\$7,000 - 9,000



1053 (detail)

1053^w

VERY LARGE AND IMPRESSIVE IRIDESCENT AMMONITE

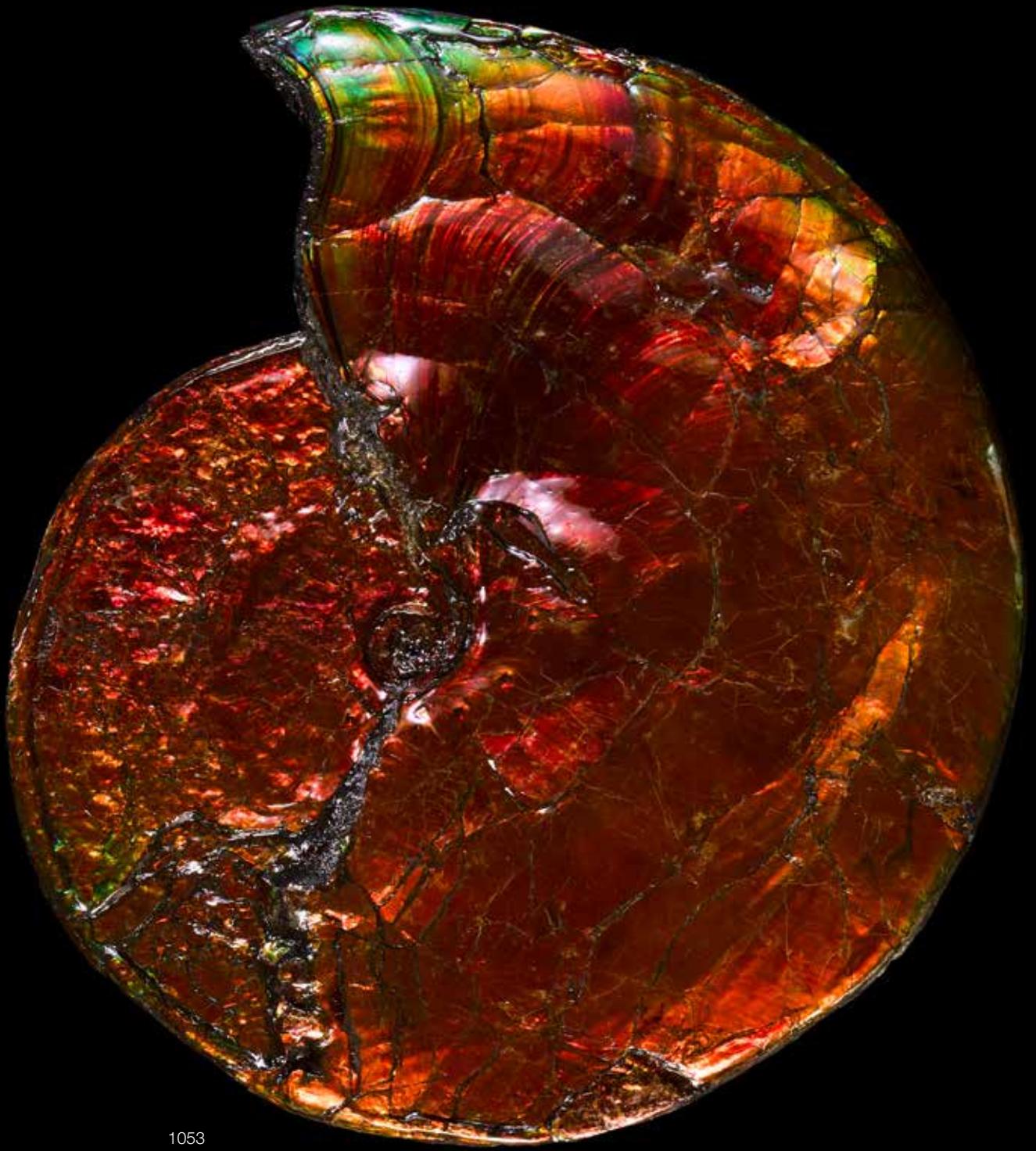
Placenticerus meeki

Upper Cretaceous

Alberta, Canada

Ammonite fossils are found on every continent. Treasured for their appearance and form, some show intricate suture patterns, which are created by the complex walls dividing the inside of the shells. Those from Southern Alberta, however, display remarkably brilliant colors not seen in ammonites from other localities. Coveted by collectors the world over, their stunning palettes fortuitously result from the light interference by the shell layers. The present breathtaking example, of considerable size, exhibits a dazzling, luminous red color predominating, with vivid emerald green throughout. Flashes of yellow and red-orange are also seen in this magnificent specimen, which, unlike most specimens of its kind, is equally stunning on both sides. *Measuring 19 x 16 x 1 3/4 in*

\$35,000 - 45,000



1053



1054

1054
**IRIDESCENT AMMONITE MASS
MORTALITY SPECIMEN**

Indosphinctes sp.

Russia

Featuring over a dozen iridescent and pearly ammonites of varying sizes, the largest of which measures 7 inches in diameter. *Measuring 13 x 10 x 5 1/2 in*

\$1,500 - 2,000



1055

1055
AMMONITE FOSSIL

Mantelliceras sp.

Cretaceous

Morocco

Ammonites are one of the most recognizable fossils due to their familiar spiral shape. A marine animals, living between 240 - 65 million years ago, with a coiled external shell similar to that of the modern nautilus although these molluscs were more closely related to living coleoids (i.e. octopuses, squid, and cuttlefish). The present decorative limestone ammonite, is free of matrix, and has dramatically ribbed chambers. *Measuring 15 3/4 x 12 3/4 x 4 1/2 in*

\$500 - 700

To be sold without reserve



1056



1057

DINOSAURIA

1056

SAUROPOD CAUDAL VERTEBRA ON BASE

Camarasaurus grandis

Jurassic

Morrison Formation, Moffat County, Colorado

Named the *Chambered Lizard* for the weight-saving air pockets found throughout its vertebrae, *Camarasaurus* was one of the most successful long-necked dinosaurs of the Late Jurassic. Growing up to sixty-five feet long and approaching twenty tons, this massive herbivore displayed thick, spoon-shaped teeth, which were perfectly adapted to a diet of very tough plant material. The present specimen is a vertebra from the tail of a *Camarasaurus*. Specimen measuring 10 x 8in; Height including base: 18in

\$1,800 - 2,200

Offered on a custom-fitted metal base.

1057

SAUROPOD CAUDAL VERTEBRA WITH PATHOLOGY ON BASE

Camarasaurus grandis

Jurassic

Morrison Formation, Moffat County, Colorado

This unique caudal (tailbone) vertebra displays an interesting injury, which healed during the life of the individual; bone spurs can be seen on the underside. Examples of such healing are quite rare in the fossil record. *Camarasaurus* is named the *Chambered Lizard* for the weight-saving air pockets found throughout its vertebrae. *Camarasaurus* was one of the most successful long-necked sauropod dinosaurs of the Late Jurassic. Specimen measuring 9 x 5in; Height measuring 12in, including base

\$1,000 - 1,500

Offered on a custom-fitted steel base.



1058

JUVENILE ALLOSAURUS JAW WITH TEETH

Allosaurus fragilis

Late Jurassic

Morrison Formation, Moffat County, Colorado

By far the largest carnivore of its time, *Allosaurus* preceded *Tyrannosaurus rex* as the world's apex predator, terrorizing the landscape from the Western United States to likely sites in Africa and Europe during the Late Jurassic. A capable hunter, which may have ambushed its prey in packs, *Allosaurus* would have had to contend with the massive long-necked sauropods and formidable stegosaurs, which were its contemporaries and its likely prey.

The present jaw specimen represents a rarely seen juvenile carnivore from the Jurassic. The jaw displays newly erupting teeth and original teeth found in association with or near the jaw (theropods replaced teeth, as sharks and crocodiles do today.) Offered with the jaw is a rooted tooth discovered in an adjacent position to the jaw. A rare and fascinating offering. *Measuring 12 3/4 x 7in, including base; Rooted tooth measuring 3 3/4in*

\$12,000 - 15,000

Both specimens are displayed on a custom metal base.

1059^w

**JUVENILE SAUROPOD FRONT LEG,
MOUNTED**

Camarasaurus grandis

Jurassic

Morrison Formation, Moffat County, Colorado

Far more rare than adult specimens, juvenile *Camarasaurus* specimens are highly coveted. Boasting an especially well preserved claw – a feature that would likely have been used to defend against predators - this massive juvenile dinosaur leg from the Morrison Formation is from a sauropod genus which grew up to sixty-five feet long and approached twenty tons.

Camarasaurus was one of the most successful long-necked sauropod dinosaurs of the Late Jurassic. Named the *Chambered Lizard* for the weight-saving air pockets found throughout its vertebrae, this massive herbivore displayed thick, spoon-shaped teeth, which were perfectly adapted to a diet of very tough plant material. *Camarasaurus* is thought to have lived in herds.

The present juvenile *Camarasaurus* leg specimen exhibits the massive structure needed to support one of the largest dinosaur species that ever inhabited the planet. The unusually well preserved claw adds to the value of the specimen. The humerus, ulna and radius have been mounted together with the large claw; all were discovered in association. Juvenile specimens such as this are much more rare than adults. *Measuring 82in, including base*

\$15,000 - 20,000

Offered on a custom-fitted steel base.





1060

1060

LARGE DINOSAUR HAND CLAW

Carcharodontosaurus

Cretaceous

Kem Kem Basin, Morocco

Displaying excellent bone detail, a sharp point and no restoration, this large beige and light brown hand claw is from *Carcharodontosaurus*. *Allosaurus*, a Jurassic theropod dinosaur was an ancestor, though *Carcharodontosaurus* was much larger - approaching or exceeding the size of *T. rex*. In life, the present hand claw would have been covered in keratin, the same substance from which our fingernails are formed; therefore, it would have appeared at least 25 percent larger. The 80 million-year-old treasure is from the Kern Kem Basin of Morocco. *Measuring 4 1/2in*

\$5,000 - 6,000



1061

1061

HUGE CARCHARODONTOSAURUS FOOT CLAW

Carcharodontosaurus saharicus

Cretaceous

Tegana Formation, Kem Kem Basin, Morocco

Carcharodontosaurus was a huge theropod, perhaps even larger than *T. rex*. The present massive five-inch-long foot claw is a light brown color with an excellent undistorted shape. This extremely large, impressive foot claw is 80 million years old from the Tegana Formation of the Kem Kem Basin of Morocco, North Africa. *Measuring 5in*

\$4,000 - 6,000



1062

1062

**CARCHARODONTOSAURUS COMPLETE FOOT CLAW AND
TWO PHALANGES**

Carcharodontosaurus saharicus

Cretaceous

Tegana Formation, Kem Kem Basin, Morocco

Carcharodontosaurus has been described as the *T. rex* of Africa. However, it is not related to *T. rex*, but is a relative of the Jurassic theropod, *Allosaurus*. The present complete foot claw and two phalanges are 80 million years old and were found in the Tegana Formation of the Kem Kem Basin of Morocco, North Africa. Offered in a 12 x 6 inch Riker mount. *Phalanges each measuring 7 3/4in; Toe claw measuring 2 2/3in*

\$3,500 - 5,000



1063

INVERTEBRATES

1063

FOSSIL SQUID

Plesioteuthis

Upper Jurassic

Solnhofen, Germany

From an extinct family of squid, this *Plesioteuthis* is from the famous lithographic limestone quarries of Solnhofen, Germany. Squids have been found in the fossil record going back hundreds of millions of years. This beautiful specimen was recovered in the marvelous lagerstatte of Solnhofen, Germany. Measuring 14 x 17 inches irregular; Squid measuring 12in

\$1,500 - 2,000



1064

1064

FOSSIL DRAGONFLY

Upper Jurassic

Eichstatt, Bavaria, Germany

The Solnhofen lithographic limestone was deposited during the Jurassic period, in a small lagoon separated from the open sea, which resulted in salinity stratification: upper levels of water were of normal salinity, but the bottom became hypersaline and devoid of oxygen. This allowed for the fossilization of the tiniest details of the insects which thrived there 150 million years ago, as exemplified by the present stunning specimen. Matrix measuring 14 x 10 1/2in; Specimen measures 5 1/2 x 4 3/4in

\$1,800 - 2,200



1065

1065

LARGE TRILOBITE

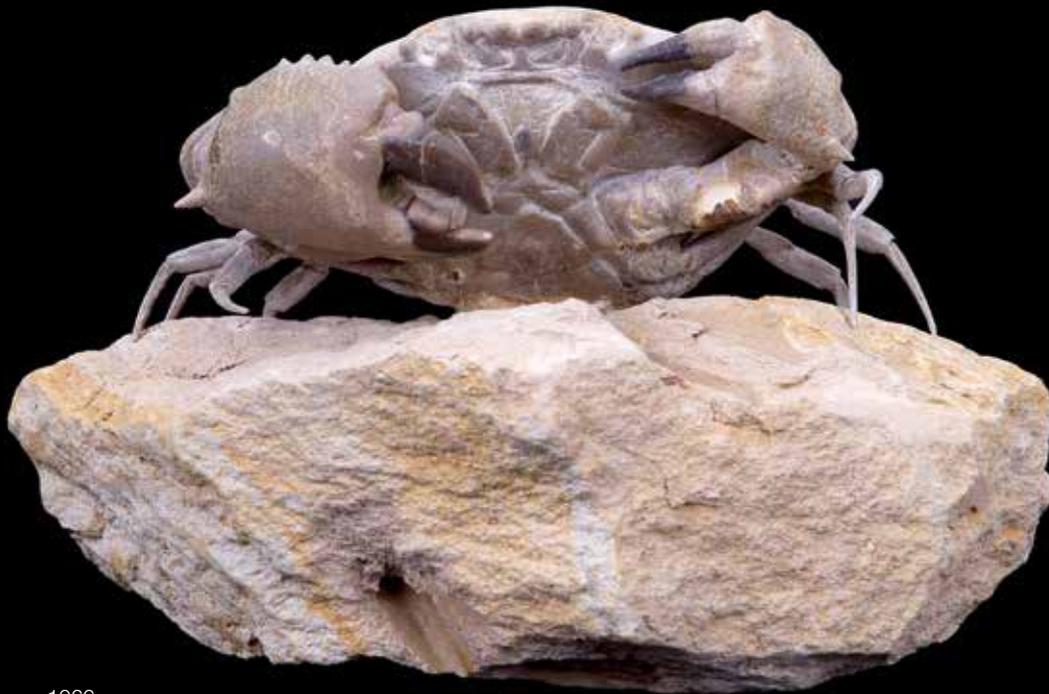
Drotops armatus

Devonian, Morocco

Of large size, with incomplete spines, on matrix. Measuring 6 x 5 x 3 in. Weighing 3lbs.

\$400 - 600

To be sold without reserve



1066

1066^w

FOSSIL CRAB

Harpactocorcinus quadriobatus

Eocene

Monte Baldo, Italy

Exhibiting beautiful claws and a fine carapace, this crab can easily be envisioned in its former life, scurrying between rock crevices in an Early Eocene marine shoreline environment, using its claws as weapons designed to grasp its prey. The decapods, or ten-footed crustaceans, are an order which includes crabs, lobsters, crayfish, shrimp and prawns. Offered with a wood and acrylic display case.

Measuring 6 x 5 1/2 x 4in

\$2,500 - 3,500

1067^w

FOSSIL CRAB

Macrophthalmus

Pliocene

Madagascar

A well preserved fossil crab of the genus, *Macrophthalmus*, from Madagascar. Exhibiting all eight legs and protruding eyes with crossed claws, the crab has been mounted on original matrix from the original layers. *Measuring 6 1/2 x 4 x 4 1/4in*

\$2,200 - 2,800



1067



1068

1068^w

ASSEMBLAGE OF PREHISTORIC SHELLS

Gigantopecten restitutus

Miocene

Lacoste, France

A dramatic and stunningly beautiful display of fossils from a Miocene shoreline sediment, this natural assemblage of fossilized pectens would be equally at home in an invertebrate collection or as a decorative focal point. From a genus of large scallop, a marine bivalve mollusk, the naturally blanching assemblage emphasizes the interesting texture and three-dimensional depth of each specimen, positioned as discovered in limestone matrix. Measuring 19 x 16in; Diameter of largest shell measuring 7in

\$1,500 - 2,500



1069

1069^w

FOSSIL CRAB

Galene granulifera

Pliocene

Taiwan

A fossil crab identified as *Galene granulifera*, from an unusual locality, Taiwan. Mounted in three dimensions displaying all legs and two claws ready to defend or attack. Measuring 4 1/2 x 3 x 2 1/2in

\$1,800 - 2,200

1070^w

LARGE CRINOID ON SHALE

Seirocrinus subangularis

Jurassic

Posidonienschiefer Formation, Holzmaden,
Germany

A single exquisite crinoid, or sea lily, has been expertly prepared in the rich black matrix of the famed fossil locality of Holzmaden, Germany. Subtly sparkling pyrite inclusions can be seen in the specimen, giving a slightly golden sheen to the calyx. Though distinctly plant-like in appearance, crinoids were filter-feeding animals; this species attached itself to driftwood, which floated on the surface of the warm, shallow Jurassic seas in the area now known as Germany. *Measuring 63 x 31 1/2 in*

\$8,000 - 10,000





MAMMALS

1071^W

UNUSUALLY LARGE SKULL OF AN EXTINCT CAVE BEAR

Ursus spelaeus

Pleistocene

Russia

This cave bear skull specimen is quite large for its species. It displays beautifully preserved teeth exhibiting natural wear, which occurred over the course of the formidable individual's life. The Cave Bear inhabited Europe, Eastern Europe and parts of Asia until it became extinct at the end of the last Ice Age. As shown by the archaeological record, Cave Bears were contemporaries of modern humans. Scientists theorize that the demise of the Cave Bear may have been, in part, due to human hunting. *Measuring 21 x 12 x 12in*

\$4,000 - 6,000

Presented on an oak display stand.



1072^w

IMPOSING CAVE BEAR SKELETON

Ursus spelaeus

Pleistocene

Russia

Displaying a dominant stance, a large cave bear skeleton has been mounted in a lifelike presentation on hind legs, reaching upward with jaws open, exhibiting the formidable teeth of a predator. Cave bears inhabited Europe, Eastern Europe and parts of Asia until their extinction at the end of the last ice age. As shown by the archaeological record, they were contemporaries of modern humans: many cave sites show signs of competition between cave bears and humans as the two species battled for shelter for thousands of years. Evidence shows that both Neanderthals and Cro-Magnons hunted cave bears; scientists theorize that the demise of the cave bear may have been, in part, due to human hunting. The present cave bear specimen is mounted on a custom steel armature attached to a substantial steel base. *Height 115in*

\$25,000 - 35,000



1073

FISH

1073^w

EOCENE FOSSIL GARFISH

Lepisosteus simplex

Eocene

Green River Formation, Lincoln County, Wyoming, USA

Garfish are ray-finned fish with distinctive armor-like scales and an elongated snout. Garfish are still living today. This specimen is from the F-2 layers of the *Green River Formation* which have been identified as being more shoreline oriented. This specimen exhibits an unusual dorsal-lateral preservation of the skeleton. The stone is backed with wood and fitted with a metal cleat system for ease of wall display. *Specimen measuring 33in; Matrix measuring 25 1/2 x 43in*

\$3,000 - 4,500

1074^w

GROUP OF THREE LARGE PREDATORY FOSSIL FISH

Diplomystus dentatus, Phareodus encaustus, Mioplosus labracoides

Eocene

Green River Formation, Wyoming

Unique acid preparation and superb preservation distinguish a sampling of three fish species from the famed *Green River Formation* in Wyoming, comprising a *Diplomystus dentatus* measuring 21 inches, a 12-inch piranha relative, the *Phareodus encaustus* and a 14-inch relative of the modern trout, *Mioplosus labracoides*. The *Green River Formation* is considered a fossil lagerstätte, an accumulation of fossils representing an entire ecosystem preserved in a specific timeframe.

The present specimens are completely natural, having been prepared in a laboratory using acid to dissolve the limestone matrix whilst leaving the richly toned fossilized material. Each specimen is backed and fitted with a metal cleat system for ease of wall display. *Measuring 21 x 10in, 14 x 9in and 16 x 7in, respectively (3)*

\$2,000 - 3,000



1074



1075

1075

FOSSIL FISH

Phareodus testis

Eocene

Green River Formation, Wyoming

A large predatory fossil fish on matrix.

Measuring 13 3/4 x 10 x 1 in

\$500 - 700

To be sold without reserve



1076^w

SUPERB FOSSIL FISH MASS MORTALITY FRAMED MURAL

Knightia eocaena, Diplomystus dentatus

Eocene

Green River Formation, Wyoming

Known as a *mass mortality* plate, this piece displays numerous individual fish which expired simultaneously, likely due to a geologic cataclysm such as a landslide or volcanic activity which took place 51 million years ago. The mural exhibits more than two hundred fossilized fish specimens, preserved together in the exact positions as seen. Beautifully textured limestone matrix, with some natural iron oxide staining, complements the presentation. Framed in exotic wenge wood and fitted with a cleat system for ease in wall hanging. *Measuring 60 x 60in; Fish lengths measuring between 4 1/2 - 8in*

\$20,000 - 30,000



1077^w

STUNNING FOSSIL FISH MURAL

Diplomystus dentatus, *Knightia eocaena*, *Cockerellites liops*
Eocene

Green River Formation, Wyoming

A wonderful presentation of fossil fish from the world famous *Green River Formation* deposits of Southwestern Wyoming. Preserved in irregularly shaped limestone matrix is an attractive group of five Eocene fossil fish: three large *Diplomystus dentatus* measuring between 16 and 17 inches each, with two of the smaller species they would have preyed upon - a 6-inch relative of the modern herring, *Knightia eocaena* and a 5-inch ancient bass relative, *Cockerellites liops*. Backed with wood and fitted with a cleat system for ease of wall display. *Measuring 54 x 28in*

\$2,500 - 3,500



1078^w

FOSSIL PADDLEFISH – PART AND COUNTERPART

Crossopholis magnicaudatus

Eocene

Green River Formation, Lincoln County, Wyoming

A very rare species from the world-renowned *Green River Formation* in a part/counterpart presentation. A rarity in itself, this natural presentation occurs when a specimen is found fortuitously positioned on a natural cleavage plane; when the sediment is split open, two fossils are revealed instead of one. The axial skeleton of paddlefishes is composed largely of soft tissues, which do not typically fossilize, accounting for their rarity as fossilized specimens. Modern paddlefishes have tiny eyes, and the paddle is a sensory device lined with thousands of electroreceptor organs, which allow the fish to navigate and locate food in dark, cloudy waters. The nicely preserved positive/negative halves of the present specimen have been backed with wood and fitted with a metal cleat system for ease of wall display. The skull alone measures 27 1/2in. *Each half measuring 36 x 36in (2)*

\$8,000 - 10,000



1079^w

RARE FOSSIL BOWFIN FISH - FRAMED WALL MURAL

Amia pattersoni

Eocene

Green River Formation, Wyoming

Rarity of the species and fine preservation distinguish this prehistoric bowfin specimen. Its designation as a bowfin arises from the long, arching dorsal fin. The present *Amia pattersoni* specimen exhibits exceptional preservation of the scales, caudal fin and many large teeth within its jaws. The limestone matrix displays a blue cast, indicating that it was recovered from what is called the *bottom capping zone*; when exposed to natural light the stone takes on a bluish hue after several days of exposure. The fossil bowfins of the Green River Formation are represented by two distinct species, *Amia pattersoni*, and the short bowfin, *Cyclurus gurleyi*. Framed in tropical walnut and cleated for ease of wall display. *Frame measuring 57 x 37 1/2in; Specimen measuring 34 1/2in*

\$15,000 - 20,000



1080^w

SUPERB, LARGE, RARE FOSSIL GARFISH - FRAMED WALL MURAL

Masillosteus janei

Eocene

Green River Formation, Wyoming

Beautifully preserved shiny, diamond-shaped *ganoid* scales are seen in this prehistoric garfish specimen. *Masillosteus janei* is considered one of the most rare fish species from the *Fossil Butte Member* of the Green River Formation of Southwestern Wyoming. Still in existence today, garfish display long, slender, laterally compressed bodies with powerful jaws and sharp teeth. Because of the short jaws and presence of crushing molariform teeth, they are thought to have fed on invertebrates such as snails, shrimp and crayfish. The present specimen exhibits brilliant dimension and scale patterns in virtually perfect alignment. Framed in exotic wenge wood and fitted with a cleat system for ease of wall display. *Frame measuring 47 x 24in; Specimen measuring 38 1/2in*

\$25,000 - 35,000



1081

1081

MEGALODON SHARK EVOLUTION COLLECTION

Otodus obliquus, *Carcharocles angustidens*, *Carcharocles chubutensis*, *Carcharocles megalodon*
Eocene, *Oligocene*, *Miocene*
Morocco and South Carolina

Tracing shark evolution is very difficult as few remains are preserved, other than teeth. The genealogy of the largest shark species known, *Carcharocles megalodon* (which reached lengths of over 60 feet), can be traced back 50 million years to *Otodus obliquus* of Morocco. The present interesting lot displays a collection of four teeth from four species, illustrating the changes in the teeth - not just in size, but also in serrations and the loss of the secondary side cusps (cusplets.) The approximate size of a shark can be estimated from the size of their teeth - ten feet in length for each one inch of tooth. The teeth are measured on their longest diagonal. This is an interesting group of fossil shark's teeth for both study and display.



1082

1. *Otodus obliquus* 3 inches long without serrations and two prominent side cusps. This 30-foot-long 50 million-year-old shark was found in the phosphate mines of Morocco.

2. *Carcharocles angustidens* 3 inches long with serrations and two prominent side cusps; the tooth is wider than the previous specimen. This 30-foot-long, 20-15-million-year-old shark was found in an estuary of South Carolina.

3. *Carcharocles chubutensis* 2.5 inches long with sharp serrations and two very small side cusps. This 25-foot-long 20-12-million-year-old shark was found in an estuary of South Carolina.

4. *Carcharocles megalodon* 4.25 inches long with sharp serrations, no side cusps and much wider than the aforementioned specimens. This specimen, from a 43-foot-long, 15-8-million-year-old shark were found in an estuary of South Carolina.

Diagonals measuring 3in, 3in, 2.5in and 4.25in, respectively (4)

\$1,500 - 2,000

To be sold without reserve

1082

MASSIVE SHARK'S TOOTH

Carcharocles megalodon
Miocene

South Carolina, USA

Measuring over six inches in length, this massive *Carcharocles megalodon* tooth displays various shades of light brown enamel, an intact dark brown root and excellent sharp serrations, with no restoration. The immense 20-15-million-year-old tooth was discovered in the muddy river waters of South Carolina. *Carcharocles megalodon* was the largest shark that ever lived, growing to more than fifty feet in length. Estimating the length of a shark at about ten feet to every one inch of tooth, the behemoth to which the present specimen belonged would have been over sixty feet long. Offered with a custom display stand with identification plate, *Megalodon*.

Measuring 6 1/4in on the diagonal

\$2,500 - 3,500



1083

1083

MASSIVE MEGALODON TOOTH

Carcharodon megalodon
Miocene

South Carolina

This large, robust shark tooth displays nearly perfect serrations and a beautiful steely, blue-grey patina on the enamel. A complete root also recommends this specimen. *Measuring 6in*

\$2,500 - 3,500

To be sold without reserve



REPTILES

1084^w

A FINE EOCENE FOSSIL TURTLE

Axestemys byssinus

Eocene

Green River Formation,

Fossil Butte Member, Lincoln County, Wyoming

Fossils of the *Green River Formation* boast some of the finest examples of Eocene lake fauna in the world. Among the most coveted are the reptiles, including the turtles. This specimen is a juvenile *Axestemys byssinus* - a fine example of the species that grew to be the largest turtle found in these lacustrine sediments of the Early Eocene. The beautiful dimpling on the shell recommends this excellent specimen. Complete turtles of this size make excellent additions to collections of discriminating collectors. The stone has been backed with wood. *Matrix measuring 18 x 14in; Length of specimen measuring 16in*

\$28,000 - 32,000

1085^w

RARE, VERY LARGE SNAPPING TURTLE – UNIQUE FRAMED WALL MURAL WITH PREPARATION ON THE OBLVERSE SIDE

Chisternon undatum

Eocene

Green River Formation, Wyoming

One of the largest of its kind ever discovered, this snapping turtle specimen is, arguably, one of the rarest of the turtles to be discovered in the 51-million-year-old limestone sediments of Wyoming's ancient *Fossil Lake*. Adding to its value and uniqueness, the superlative specimen has been specially prepared to allow both the plastron (underbelly of the shell) and carapace (top of the shell) to be seen: The limestone matrix has been removed from the plastron on the obverse side; when the mural is turned around, the plastron may be viewed.

Seen in the exact position in which it expired 51 million years ago, the rare snapping turtle exhibits extraordinary completeness and finely preserved detail. Amazingly, in the same layer of stone, a fish *aspiration* - a fish which died in the act of predation - is present. The two specimens, discovered together, represent an exceptional rarity. Framed in exotic wenge wood and cleated for ease of wall display. *Matrix measuring 57 x 42in; Length of specimen measuring 50in; Shell of specimen measuring 21 x 17 1/2in*

\$125,000 - 150,000



1085A^w

SPECTACULAR CROCODILE - A JURASSIC MONSTER - WALL MOUNT

Steneosaurus bollensis

Jurassic

Posidonia Shale Formation, Holzmaden, Germany

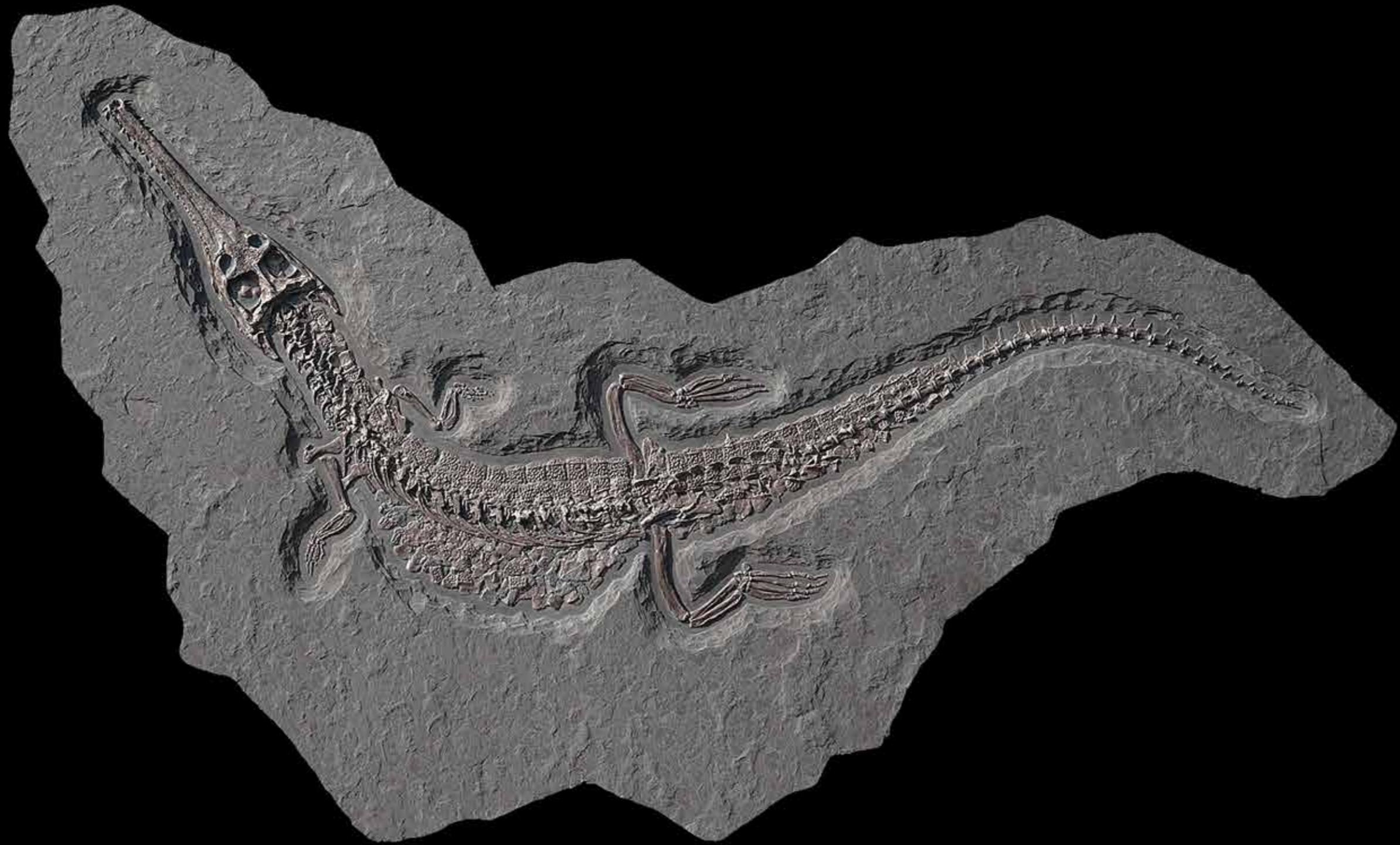
A rare find, this magnificently articulated ten-foot-long *Steneosaurus bollensis* once terrorized the Jurassic seas. The specimen was discovered in the world famous Posidonienschiefer Shale, a lithostratographic formation; shale from this geologic formation has actually been used as building material in Germany for centuries. The preparation of specimens from this locality is supremely arduous, as the density of the stone matrix is similar to that of the fossils.

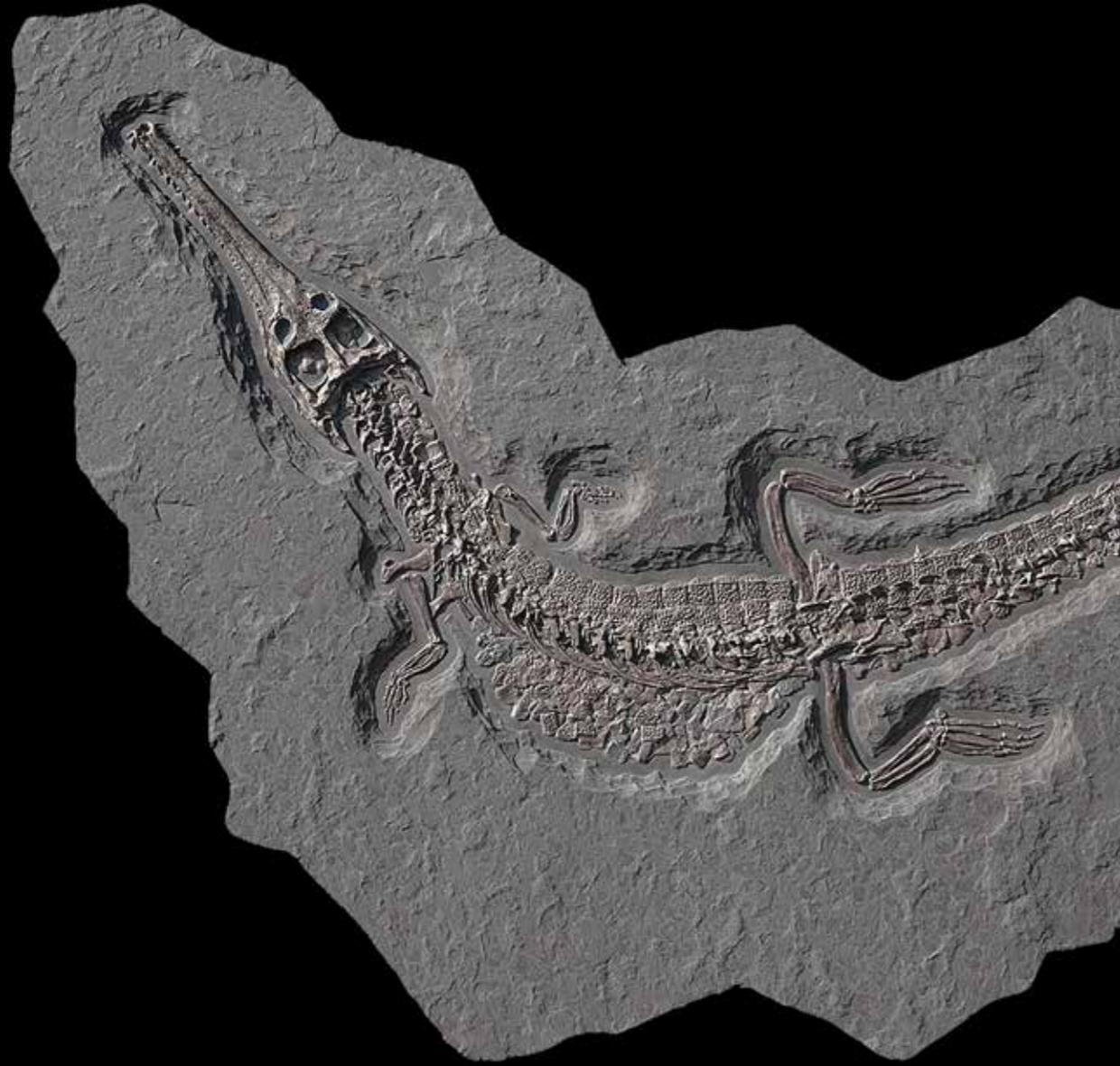
As evidenced by the present superlative specimen, the skull of *Steneosaurus* was very light and narrow compared to that of modern crocodiles, with large openings and a long, narrow snout. The nostrils were at the tip of the snout and connected to the throat by a long bony tube. Evidencing its carnivorous habit, it possessed countless sharp teeth, which were probably used to eat fish.

Teeming with marine life during the Jurassic Period, 200 to 146 million years ago, in the area now known as Germany, the warm shallow seas supported abundant marine life, including apex predators such as ichthyosaurs, plesiosaurs and the primitive crocodile, *Steneosaurus bollensis*. Measuring 119 x 63in

\$300,000 - 400,000

Fitted with a custom steel armature for wall display.





Meteorites and Tektites





1086

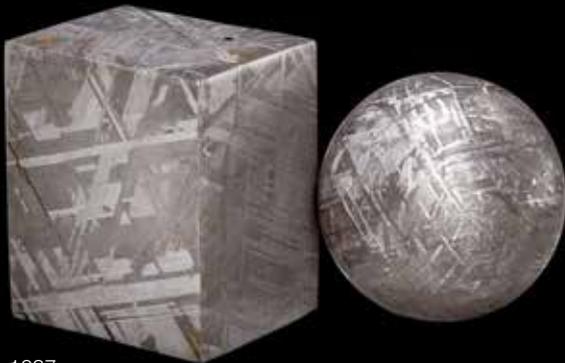
1086

WILLAMETTE METEORITE--PARTIAL SLICE OF THE MOST FAMOUS METEORITE IN THE WORLD

Iron, medium octahedrite; shocked and recrystallized Clackamas County, Oregon

This offering provides the opportunity to own a small portion of a major museum exhibit. The Willamette meteorite is the largest meteorite found in North America. It has been the centerpiece in two renowned facilities: the Hayden Planetarium and the Rose Center for Earth and Space at the American Museum of Natural History in New York City, where it has been seen or touched by an estimated 50 million people. So completely renowned is the Willamette meteorite that whenever you open a textbook and there is just one picture of a meteorite, it will most likely be of the 15.5 ton Willamette. It is believed the meteorite fell in Canada or Montana and was deposited in Oregon by a glacier during the last Ice Age. Discovered in 1902, the meteorite was exhibited at the 1905 World's Fair and sold to Mrs. William E. Dodge, who then gifted the meteorite to the American Museum, where the meteorite has been on display for more than 100 years. In 1999 a coalition of Oregonian Native Americans filed a claim to have the meteorite returned to Oregon. The Museum filed a lawsuit in federal court that challenged the claim. The parties settled out-of-court, where it was agreed the meteorite would remain a centerpiece exhibit and never again be cut. As evidenced by the matrix, the Willamette meteorite is recrystallized, the result of a cataclysmic collision in outer space. Featuring one rim of the meteorite's exterior and a troilite inclusion in the lower right corner, this is a select specimen of the most famous meteorite in the world. *Measures 44 x 53 x 1mm (1 3/4 x 2 x 1/8in) and weighs 12.46 grams*

\$1,800 - 2,200



1087

1087

TWO METEORITE OBJECTS

The first, a cubic shape cut from a Muonionalusta meteorite, *Iron-Nickel - Fine Octahedrite, Norrbotten, Sweden, weighing 181.2 grams and measuring 3.4 x 3.0 x 2.5 cm.*; together with a small meteorite sphere with Troilite inclusion, *Nickel-Iron, Fine Octahedrite, Great Nama Land, Namibia, Africa, weighing approximately 104 grams, diameter 2.8 cm. (2)*

\$1,000 - 1,200

To be sold without reserve



1088

1088

MARTIAN METEORITE - LARGE, COMPLETE SLICE

DAG 1037 - Martian Basaltic Shergottite Dar al Gani Desert, Libya

Meteorites from the planet Mars are so rare that only tiny fragments are typically available for sale. Mars meteorites are identified by chemical analysis, age and lack of magnetic properties. (Unlike the rest of the stony meteorites, they are not magnetic.) Ten meteorites of DAG 1037, totaling 4,012 grams, were found in the Dar al Gani Desert of Libya in 1999 and were designated as a rare basaltic Martian shergottite which was ejected from a large impact which occurred on Mars millions of years ago. The present basaltic shergottite specimen belongs to the olivine-orthopyroxene-phyric group of Martian meteorites. It is very similar to several of the Martian rocks found by the Mars Rover Spirit in 2004 consisting of olivine, pigeonite and plagioclase. It is much larger than the usual grain-sized specimens and can be easily studied in detail. *Measuring 25 x 14 millimeters; Weighs 2.25 grams*

\$2,000 - 3,000

Offered in an 8 x 6-inch Riker mount.

1089

LIBYAN DESERT GLASS

Sahara Desert

Tektites are silicated glass formations resulting from the violent impact of asteroids with Earth. The extraordinary heat and pressure of these collisions liquefies the impacted surface materials, which then fall back to Earth as glass. The higher the silica content of the material melted, the lighter the color; the 98 per cent silica content of Libyan Desert Glass renders it a delightful light yellow color. The present large, specimen is a fine example of the tektites found in the sands of the Sahara Desert. The smoothness of its surface evidences innumerable years of sandblasting by the desert's winds. This particularly sculptural specimen is capable of standing on its own. *Weighing approximately 91 grams. Measuring 2 1/2 x 2 1/4 x 1 in*

\$500 - 800

To be sold without reserve



1089

1090

LARGE STONY METEORITE WITH FUSION CRUST – COMPLETE INDIVIDUAL

Unclassified NWA

Sahara Desert, Morocco

Most stony meteorites are small (less than 1 pound) because stony meteorites usually break apart or explode before impacting Earth. This large, complete stony meteorite is exceptional, containing more than 95% of its original fusion crust. There is also a 3 x 2 3/4-inch cut window on one of its sides, showing an interior of dark brown matrix, chondrules and flecks of iron-nickel metal. It is designated as an unclassified NWA (North West Africa) stony meteorite and was found by nomadic Berbers in the sands of the Sahara Desert of Morocco. It is probably an ordinary chondrite; it consists of round silicate grains, which formed at the very beginning of the solar system (4.55 billion years ago) from molten globs of accreted material. This material cemented together to form the asteroid from which this meteorite was blasted when two asteroids collided. This meteorite appears to have recently landed on Earth, as it exhibits original, virtually complete, thin, dark-brown fusion crust, which was produced when the meteorite broke up and ablated at high temperature as it passed through Earth's atmosphere. Most meteorites quickly become weathered from wind and rain, but, if buried in desert sand, will retain their fusion crust for hundreds of years. The present specimen is an excellent example of a sizable stony meteorite. *Weighing 4.2 lbs (1.9 kilos) and measuring 5 x 4 1/2 x 3 1/2 in*

\$2,000 - 3,000

1091

MUONIONLUSTA METEORITE SECTION WITH NATURAL CRYSTALLIZATION

Iron-Nickel – Fine Octahedrite

Norrbottnen, Sweden

Suitable for cabinet or desk top display and capable of standing on its own, this interesting specimen, with natural impact fissure, shows excellent etching on all sides and a fascinating Widmanstätten pattern of crystallization while still retaining one natural and unpolished end. *Weighing approximately 806 grams and measuring 3 1/2 x 1 1/4 x 1 1/2 in*

\$1,500 - 2,000



1090



1091



1092

1092

LUNAR METEORITE – COMPLETE SLICE

*NWA 10415 – Lunar Feldspathic Impact Breccia
Sahara Desert*

This substantial, complete slice of the important Lunar impact meteorite, NWA 10415, is housed in a special membrane box for easy removal or for visibility on all its sides. Lunar meteorites are very rare and in great demand. Almost all of the recovered Lunar meteorites are very small; the three recovered stones of NWA 10415, found in the Sahara Desert in 2015, weighed just 164 grams. This important meteorite is classified as a Lunar feldspathic impact breccia. It was blasted off the surface of the moon from an impact with a fairly large meteorite, mixed together with molten vaporized rock and recombined in a fine-grained matrix. This lunar meteorite has the typical black matrix with gray and white inclusions of numerous feldspar grains and scattered olivine and pyroxenes. It should be noted that all meteorites, including stony meteorites, are magnetic, with substantial amounts of iron-nickel in their composition, except the meteorites from the moon, Mars and Vesta. Offered in an 8 x 6-inch Riker Mount. *Measuring 38 x 30 millimeters, Weighs 3.55 grams*

\$2,500 - 3,500



1093

1093

MUONIONALUSTA METEORITE END-PIECE

*Iron-Nickel – Fine Octahedrite
Norrbotten, Sweden*

A large, thick end-piece with a well polished face and etch revealing the classic Widmanstätten pattern. With fusion crust to the reverse and one sawn portion to the base allowing the specimen to nearly stand up on its own. *Weighing approximately 2.9 kilos (6.4 lbs) measuring 5 1/2 x 4 3/4 x 2 1/2 in*

\$2,000 - 2,500

To be sold without reserve



1094

1094

MUONIONALUSTA METEORITE SLAB

*Iron-Nickel – Fine Octahedrite
Norrbotten, Sweden*

This "business card size" specimen displays a superb etch and crystallization known as Widmanstätten pattern. *Weighing approximately 104 grams and measuring 3 x 2 1/8 in*

\$1,000 - 1,500

To be sold without reserve



1095

1095

MUONIONLUSTA METEORITE END CUT

Iron-Nickel – Fine Octahedrite

Norrbotten, Sweden

The large face of this fine specimen is beautifully etched to reveal the Widmanstätten pattern of crystallization. With original surface crust to the reverse side and on the edges. *Weighing approximately 1.6 kilos, (3.6 lbs) and measuring 7 1/2 x 4 3/4 x 3/4 in*

\$1,200 - 1,500



1096

1096

NANTAN IRON METEORITE WITH CUT AND POLISHED END

Nickel-Iron Octahedrite 1AB-MG

Guangxi, China

Found in Guangxi, China in 1958, the fall of Nantan is often considered an unwitnessed event; however, some theorize that Nantan's fall was observed in 1516 due to a report made in that year: *...stars fell from the northwest direction, five to six fold long, waving like snakes and dragons. They were as bright as lightning and disappeared in seconds.* Fragments were not retrieved until the 1950s, when they were gathered for smelting purposes during an iron crisis; fortunately, the nickel content proved too high to melt. The present specimen features a cut and polished end, enabling visual inspection of the fascinating interior. *Weighing approximately 3.2 lbs (1.5 kilos) and measuring 5 x 2 1/2 x 2 1/2 in*

\$500 - 700

To be sold without reserve

1097

A CAMPO DEL CIELO METEORITE

Iron-Nickel, Type 1A, Coarse Octahedrite

Gran Chaco, Argentina

The famous iron-nickel meteorite, *Campo del Cielo*, fell to Earth over 4,000 years ago in the mountainous region of Gran Chaco, Argentina, in one of the largest and undoubtedly most dramatic falls in the last 10,000 years. The present specimen has been polished and etched on one side to show the beautiful coarse octahedrite Widmanstätten pattern, a pattern that is diagnostic of meteorites. The specimen has three cut faces exhibiting the crystalline structures. *Weighing approximately 6.4 lbs (2.9 kilos) and measuring 4 1/2 x 3 x 3 1/2 in*

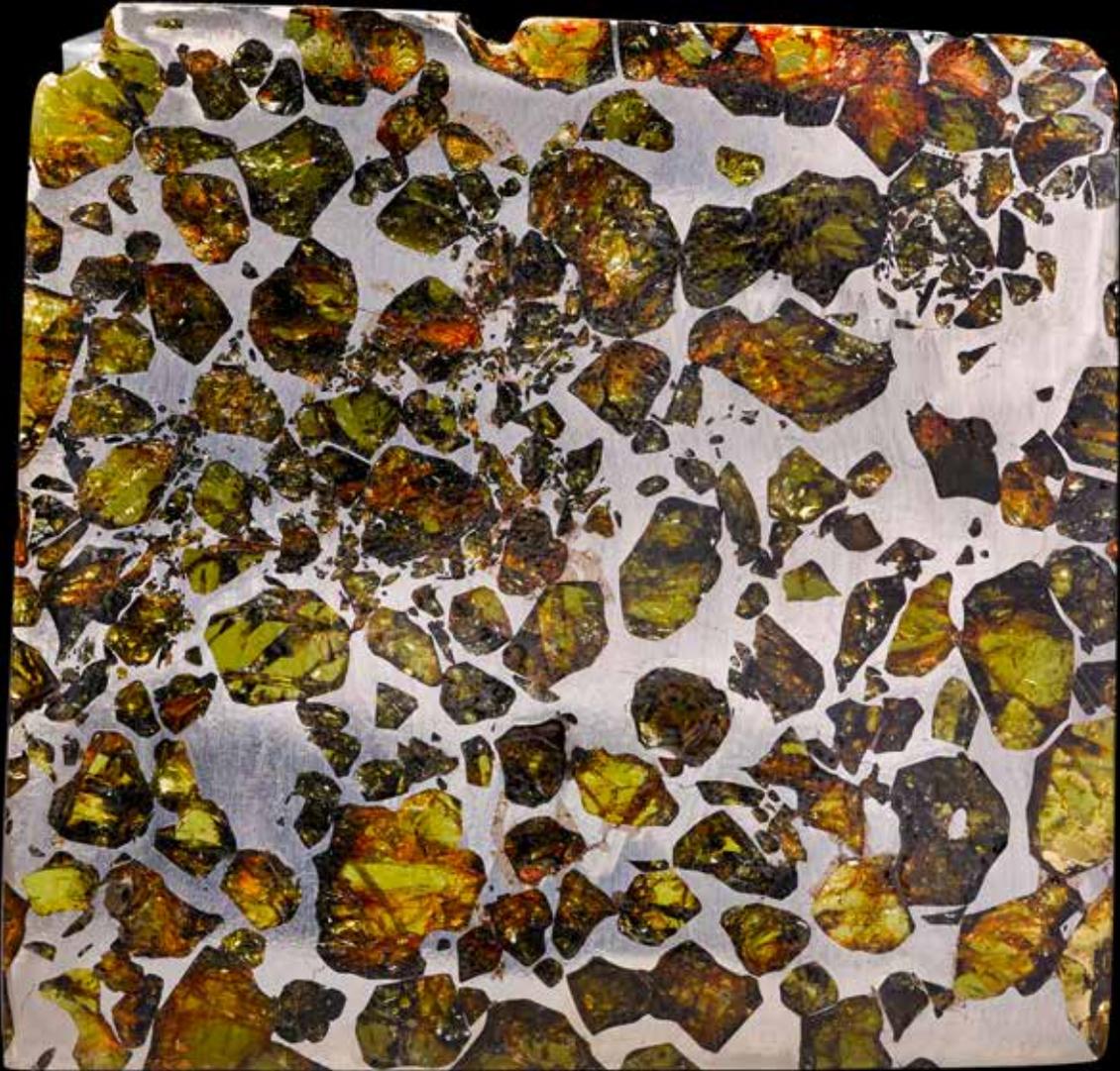


1097

\$500 - 700

To be sold without reserve

Accompanied by a certificate of authenticity.



1098

**ESQUEL, THE MOST BEAUTIFUL PALLASITE – LARGE
POLISHED SECTION**

Pallasite

Chubut Province, Argentina

Discovered in 1951 by a farmer in Chubut, Argentina, the single 680-kg meteorite known as Esquel has been in great demand as the most beautiful of the rare type of meteorites known as pallasites. There are three major types of meteorites: iron, stony and stony-iron. Pallasites are stony-iron meteorites that originate from the core-mantle boundary of large planetary size asteroids, which were destroyed early in the formation of the solar system. This rare type of meteorite consists of iron-nickel from the core of the asteroid as well as olivine crystals, or peridot, from the mantle. Peridot crystals (the gem state of olivine crystals) are the only known gemstones from space found in meteorites. Esquel is often considered to be the most beautiful of all pallasites and is now rarely available, as the single discovered main mass has been completely sectioned with only the end piece remaining. This very large section of Esquel has been polished on both sides to obtain the maximum reflection of the iron-nickel matrix as well as displaying many beautiful translucent, lightly shocked green-to-orange olivine crystals. *Measuring 4.2 x 4 in, Weighs 135.9 grams*

\$6,000 - 8,000

Offered on an Illusion stand.



1099

IMMENSE ADMIRE METEORITE

Stony-Iron Pallasite

Admire, Lyon County, Kansas

Discovered in 1881, Admire is unique among pallasites in that its olivine crystals display chatoyancy, a fascinating change of luster within a gemstone due to the way in which light is reflected. The present specimen is an impressive and is perhaps one of the largest specimens of this distinctive meteorite, displaying large olivine crystals in a brightly polished matrix. Polished on the front and reverse and bottom, but still retaining the original fusion crust on most sides.

Weighing approximately 23 lbs (10.6 kilos or 10,600). Measuring 10 1/2 x 7 3/4 x 4 1/2 in (27 x 20 x 11 cm)

\$35,000 - 55,000



1100

STUMP SPRINGS CHONDRITE

Ordinary Chondrite (LL6)

Stump Springs 083, Nye County, Nevada

The partially crusted main mass of this meteorite was discovered by Count Guido Deiro in 2010 while visually hunting for meteorites in a lightly vegetated area of the southern Mohave Desert. The specimen is purported to be the largest intact stone meteorite ever found in Nevada. According to Count Deiro, seventy-five millimeters of the pear-shaped, heavily patinated chondrite protruded from the sandy surface like the tip of an iceberg. The original main mass weighed 13.7 kilograms and was entered into the Meteoritical Bulletin in 2011. It is nearly completely recrystallized with only a few recognizable chondrules. *Weighing approximately 12.4 lbs (5.6 kg) and measuring 9 x 6 x 3 in*

\$8,000 - 12,000

To be sold without reserve

An appraisal by Dr. Ted Bunch accompanies the specimen.



1101

MUONIONALUSTA METEORITE COMPLETE SLICE

Iron-Nickel – Fine Octahedrite

Norrbottnen, Sweden

This superbly aesthetic slice of meteorite displays excellent etching on both sides, polished to reveal the classic Widmanstätten pattern of crystallization. It displays an attractive and complete fusion crust on all edges. *Weighing approximately 1828 grams (4.0 lbs) and measuring 14 x 4 1/2 x 1/2 in*

\$5,000 - 7,000



1102

1102
KRIS

Indonesia

The blade with blade-patterning achieved through alternating laminations of iron and nickelous iron. With an exotic wood handle, length of blade 13 in. Length overall 17 in

\$5,000 - 7,000



1103

1103
**ORIENTED SIKHOTE-ALIN METEORITE --COMPLETE
SCHRAPNEL**

IIB iron

Fell on February 12, 1947

Maritime Territory, Russia near Vladivostok

This splendid meteorite originates from the largest meteorite shower since the dawn of civilization, which occurred on February 12, 1947 over Siberia's Sikhote-Alin Mountains. The monumental forces exerted on this meteorite as it rocketed through the atmosphere are amply evident. In a rare witnessed fall, Sikhote-Alin blazed through the Earth's atmosphere at a speed of approximately 31,000 miles per hour. It left a trail of smoke and dust that was 20 miles long, which lingered for several hours. Light and sound of the fall were observed for two hundred miles around the point of impact. Here is a covetable specimen from one of the most dramatic witnessed falls of all time. The present specimen is a complete individual of this "shrapnel-type" meteorite--with sharp edges which bear testament to the immense shearing force of this event it exhibits a nose cone and flow lines as well as sharp edges which have "curled" upon themselves. *Weighing approximately 428.8 grams and measuring 4 x 2 3/4 x 1 3/4 in*

\$800 - 1,000

1104

METEORITE WATCH WITH SUBSIDIARY DIALS

Iron-Nickel - Fine Octahedrite

Norrbotten, Sweden

Made in Germany

Having a Muonionalusta Swedish meteorite dial with Widmanstätten pattern crystallization and black oxidized case and several complications including a calendar aperture, sweep seconds hand and stop watch, on a black leather band, case diameter 41 mm.

\$800 - 1,200

To be sold without reserve



1104

1105

MUONIONALUSTA METEORITE AND STAINLESS STEEL PEN

*Iron-Nickel – Fine Octahedrite
Norrbottnen, Sweden*

A fine European craftsmanship collectible pen. The Muonionalusta meteorite pattern displayed on the barrel of the pen shows the rare space crystallization known as Widmanstätten pattern. A coveted decorative space metal at its best, with a phenomenal deep etch. Created from a single block of meteorite by precision turning, resulting in a solid barrel of meteorite. *Length 5 in*

\$1,500 - 2,000



1105

1106

MUONIONALUSTA METEORITE WATCH AND MATCHING CUFFLINKS

*Iron-Nickel – Fine Octahedrite
Norrbottnen, Sweden*

Made in Germany this meteorite watch was precision crafted by hand from the Swedish meteorite Muonionalusta. Both the dial and the case are of meteorite which displays a fine acid etched natural pattern of crystallization and includes a Swiss self winding movement. On a black ostrich leather band, diameter of case 39mm; *together with* a pair of Muonionalusta meteorite cuff links mounted in silver. (3)

\$3,500 - 4,500



1106



1106



1107

NATIVE METALS

1107

CRYSTALLIZED LEAF GOLD

Round Mountain Mine, Nye County, Nevada
Mirror-bright leaf gold with trigons and exquisite crystallization, this is a fine specimen of Nevada gold. *Weighing approximately 5.58 grams (0.179 ozt) and measuring 28.1 x 29.06 x 4.7mm*

\$1,500 - 2,000



1108

1108

CALIFORNIA CRYSTALLIZED GOLD

--"THE LETTER E"

Eagle's Nest Mine, Michigan Bluff, California
Micro-crystallization and arborescent form this specimen has the shape of an E. Many collectors seek gold specimens which are anthropomorphic, zoomorphic or which spell out letters. *Weighing approximately 9.71 grams (0.31 ozt) and measuring 37.03 x 25.09 x 8.4mm*

\$2,000 - 3,000



1109

1109

CALIFORNIA LEAF GOLD --"THE TREE"

Harvard Mine, Jamestown, Tuolumne County, California

With minor traces of white quartz in the "branches" *2.75 grams (0.08 ozt) and measuring 29.13 x 18.36 x 6.8mm*

\$1,000 - 1,500



1110^w

LARGE AND AESTHETIC COPPER SPECIMEN

Keewinaw, Upper Peninsula, Michigan

A tall, robust specimen of native copper having excellent display qualities and showing some crystal faces. The specimen has the imposing presence of a scholar's rock suitable for contemplation. Even serious mineral collectors will appreciate it for its presence as a natural work of art. *Weighing approximately 101.8 lbs (46.2 kilos) and measuring 16 3/4in x 12 3/4in x 11 1/2in*

\$2,000 - 3,000



1111 (front)



1111

**EXCEPTIONAL PLATINUM NUGGET--
"THE STAR OF RUSSIA"**

Konder Massif, Far Eastern Siberia, Russia
This is the largest known platinum nugget to have been discovered in the past two decades. In nature, only .001% of platinum nuggets found are 1/2 an ounce or bigger: this specimen weighs an extraordinary 14.55 troy ounces. The oblong, or elongated, specimen is rugged in appearance and displays a scintillating surface that dramatically contrasts with the naturally occurring patina of black chromite/magnetite. There are flat reflective contact surfaces where the platinum formed against the octahedral surfaces of the nugget's chromite crystals. Much of the chromite has been removed which yielded this very aesthetic appearance. The mirror-like platinum surfaces reflect and sparkle like the stars in the Siberian night sky, hence it was dubbed "The Star of Russia" by its previous owner. While most platinum nuggets are considered homely, this is the most aesthetic platinum nugget we have seen. The aesthetics, combined with its incredible size, make this a specimen worthy of consideration by the most serious collector. *Weighing approximately 14.55 troy ounces (412.48 grams) and measuring 3 x 1 1/2 in (7.3 x 3.1 x 2.9mm)*

\$50,000 - 70,000



1111 (back)



1112

1112

SILVER IN MATRIX

Imiter, Zgrounder, Quarzazate, Bleida, Morocco

Virgin white quartz contrasting dramatically against the fine, dendritic crystallized silver, this is an exemplary specimen for the region.

Measuring 4 x 3 x 1 3/4 in

\$700 - 900



1113

1113

CRYSTALLIZED SILVER

Colorado

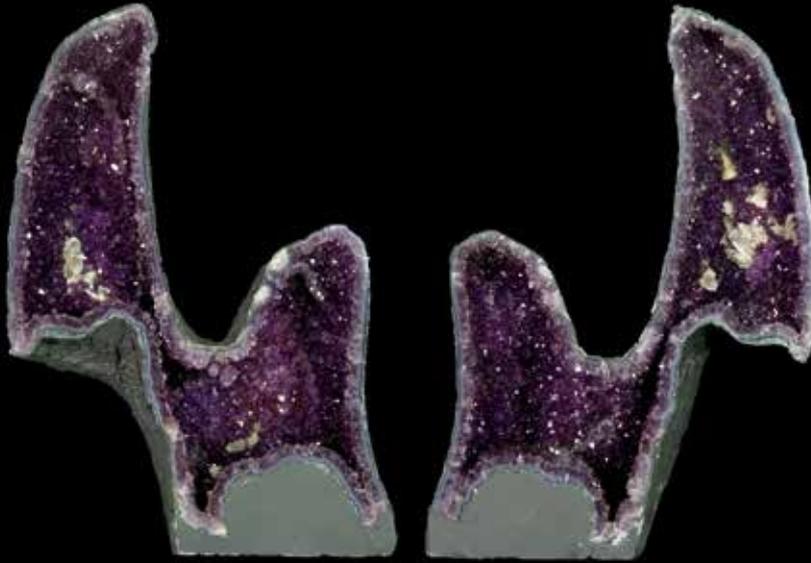
Of typical branching form, the specimen gives the appearance of a much larger piece due to the wide spread of its fern-like or dendritic branches. *Weighing 3.2 grams and measuring 2 x 1 x 1/4 in*

\$700 - 1,000

To be sold without reserve

Minerals and Décor





1114

1114^w

**PAIR OF UNIQUELY SHAPED GEM
AMETHYST GEODE HALVES**

Uruguay

Displaying a shape which evokes a pair of bat wings or alien animals, this fascinating geode has been sliced in half to display its captivating interior, which reveals fine, deep purple, gem quality amethyst crystals and also calcite crystals. This pair would make a fine addition to a mineral collection or a unique conversation piece in interior design. *Measuring 28 x 19 x 8in each. (2)*

\$10,000 - 12,500



1115

1115^w

**IMPRESSIVE AMETHYST CRYSTAL
POINT**

Brazil

A large single crystal of prodigious size, with rich violet color and portions which are gem-grade. The termination with polished faces revealing the saturation of color beneath. *Measuring 20 x 13 x 9in*

\$1,000 - 1,500



1116

1116^w

AMETHYST GEODE OF "TUNNEL" FORM

Minas Gerais, Brazil

First identified in the 1600s, the term geode comes from French *géode*, which in turn, was derived from Latin and Greek word for "earth". Geodes form when mineral-rich waters enter a cavity in a rock which then undergoes a sudden change in pressure or temperature, causing crystals to form from the solution which line the cavity's walls. Amethyst geodes are created over the millennia through the formation of gas cavities in lava tubes. The cavities then fill up with a liquid that contains small amounts of iron. Over time, this liquid forms crystals of amethyst and traces of iron in the liquid produce the color. The interior of this present, immense geode is entirely lined with very large, lustrous violet amethyst points, some of which measure up to 2 inches along the edge. *Weighing 115 lbs (52.2 kilos). Measuring 25 x 16 x 15 in*

\$1,500 - 2,000

1117^w

**PINK TOURMALINE AND KUNZITE
CRYSTAL SPECIMEN**

*Mawi Mine, North West Nuristan Province,
Afghanistan*

Discovered approximately 18 years ago in a mine which is notable for producing some of the finest quality tourmaline and kunzite specimens in this region. The specimens from this mine are memorable for their fine saturation of color, exceptionally large size and fine luster. This mine no longer produces such large sized specimens and, therefore, the present specimen is a remarkable example of the best specimens retrieved from this mine. For size and color, it is currently the largest pink tourmaline specimen available for purchase to our knowledge. A combination piece, there are several naturally terminated kunzites adhered to the reverse side of the primary crystal, as well as a quartz crystal, bladed cleavelandite, white feldspar and purple lepidolite. The large termination is naturally healed and the numerous secondary or smaller tourmaline crystals are well-terminated and lustrous. This is an exceptionally showy and impressive specimen which is worthy of consideration by the most serious mineral collector. *Weighing approximately 22 lbs. Measuring 10 1/2 x 6 x 5 1/2 in. (28 x 14 cm). Height overall with stand: 14 inches*

\$90,000 - 120,000

*Offered with a custom-fitted bronze base
hand-crafted by artist Jim Wickard.*

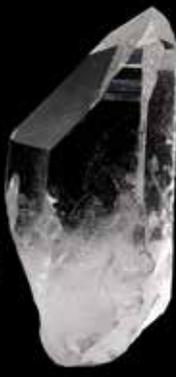




1118



1119



1120



1120A

1118^w

IMPRESSIVE CITRINE GEODE “SPLIT”

Minas Gerais, Brazil

A large and spectacular pair of geodes, technically a large geode which has been split to reveal its beautiful interior of golden citrine crystals which cover the entire surface of the interior like a carpet. Weighing approximately 76.75 Kilos and measuring 35 x 18 1/2 x 5in

\$2,500 - 3,500

1119

GROUP OF QUARTZ “GENERATORS”

Ron Coleman Mine, Jesseville, Arkansas

Suitable for use in meditation and energy work, these mid-sized crystals come from the famous Arkansas mines which are prized for high clarity quartz. The largest crystal point measuring 7 inches in length. (approximately 42pcs)

\$1,200 - 1,500

To be sold without reserve

1120

GROUP OF NINE LARGE QUARTZ GENERATORS

Ron Coleman Mine, Jesseville, Arkansas

Suitable for use in meditation and energy work, these are sizable and fine quality individual crystals of quartz. Some specimens with flat bases are capable of standing on their own, others suitable for lying down. The largest specimen: height 10 in. (9)

\$1,200 - 1,500

To be sold without reserve

1120A

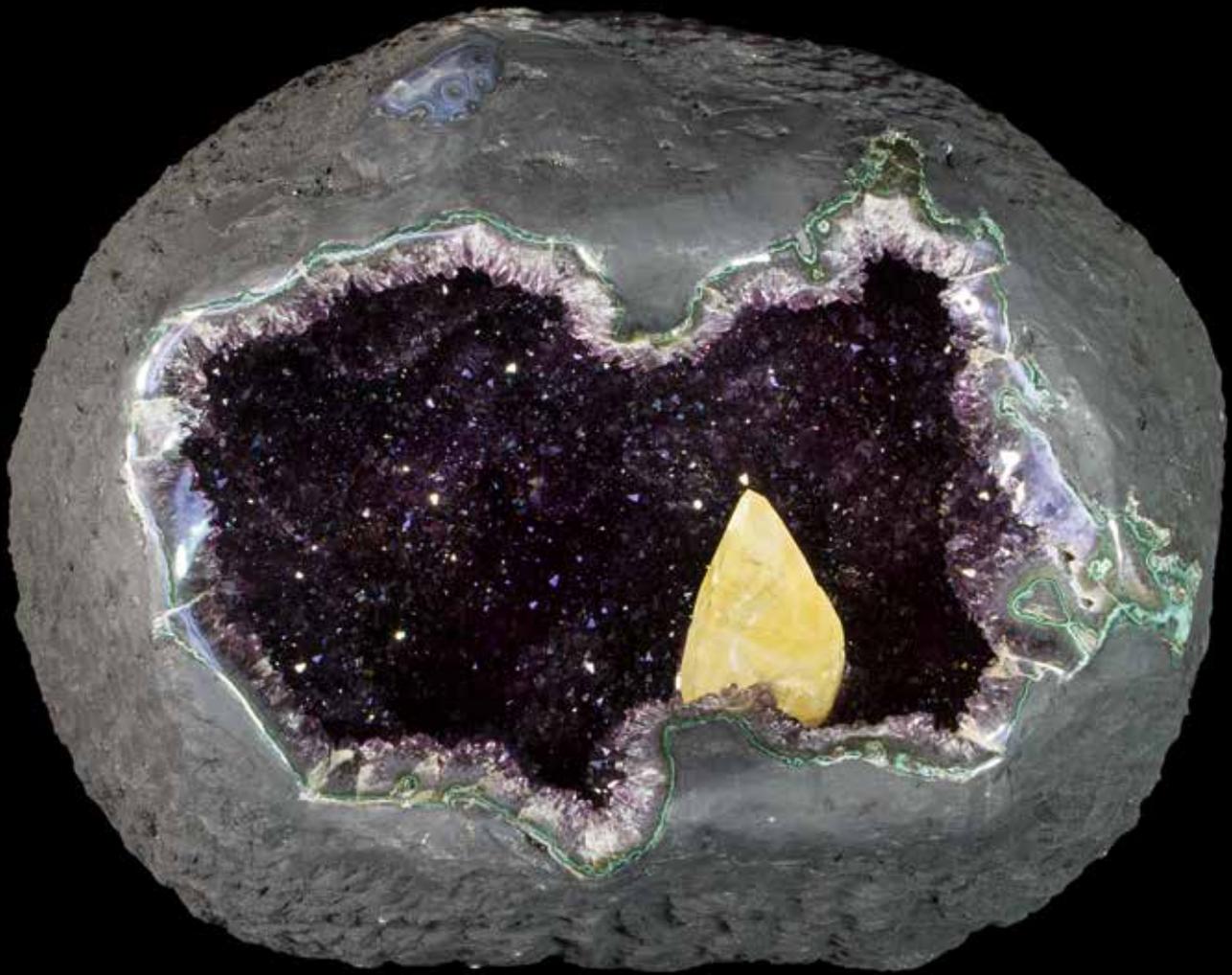
LARGE AMETHYST SPHERE

Brazil

This large sphere, measuring approximately thirteen inches in diameter, exhibits a sizable pocket revealing the very large amethyst crystals of its interior. Brazil is known for its fine amethyst. Spiritualists believe that amethyst cleanses the negativity of stress and anxiety and emanates prosperity. Diameter measuring approximately 13in

\$2,500 - 3,500

Offered with a base, which may be rotated for viewing.



1121^w

**SUPERB GEM AMETHYST CAVE WITH
CALCITE CRYSTAL**

Uruguay

Countless gem-quality amethyst crystals - and a well-formed calcite crystal - are displayed in this geode, which is distinguished by a cave-like opening for viewing. Polished edges reveal beautiful fine bands of agate. Geodes are formed within volcanic *vugs* - voids in volcanic rock formed by gas bubbles - into which mineral-laden water gradually seeps over eons, forming crystals under immense heat and geologic pressure. Uruguayan amethyst is among the finest and most desired amethyst in the world. Besides the deep gem quality color of the amethyst crystals, the geode exhibits a secondary crystal growth of a large, exquisite calcite crystal measuring 5 x 5 ½ x 10 inches. *Measuring 37 x 42 x 34in; Weighing 877 kilograms*

\$35,000 - 45,000





1122^w

IMPRESSIVE AMETHYST SPECIMEN WITH CUSTOM STAND

Brazil

While amethyst geodes can be frequently seen, not all are of equal quality or aesthetics. The present specimen is large by any standards and it features huge crystals of amethyst, with some crystal points measuring up to 3 inches in height. With grape purple color and excellent luster, this is an excellent and impressive specimen beautifully presented on a custom-made stand. *Measuring 26 x 13 1/2 x 9 3/4 in*

\$3,000 - 4,000

Offered with a custom metal stand.



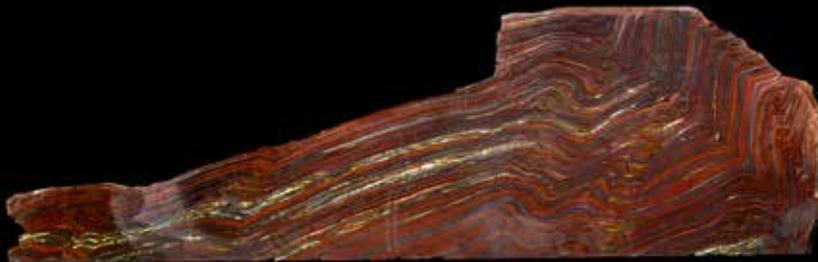
1123^w

SUBSTANTIAL GEM AMETHYST JEWEL BOX ON BASE

Uruguay

Ingeniously fashioned of an amethyst geode sliced in two, this clever piece displays countless fine, gem-quality amethyst crystals and several calcite crystal clusters. The inventive art piece, substantial in size, would be equally at home as a decorative focal point or as the centerpiece of a fine mineral collection - an awe-inspiring natural *objet d'art*. A custom metal base elevates the *jewel box*. *Measuring approximately 52 x 30 x 38 in and weighing 472 kilograms*

\$20,000 - 25,000



1124

1124^w

LARGE, FREE-FORM TIGER IRON MATRIX SLAB

Western Australia

Tiger's eye matrix is a fascinating "combination" mineral whose origins date back over two billion years ago. When tectonic plates shifted to form the Australian continent, deposits of red jasper, chatoyant tiger's eye and black hematite were forced together under great pressure. The ancient ornamental gemstone, sometimes called tiger's eye matrix, is the fascinating product of these monumental geologic events. Because the physical properties of each of the three minerals differ so greatly, only an experienced lapidary has the ability to work this material. Suitable for use as a wall hanging, sofa table or hall table, this long slab shows excellent banding of hematite, red jasper and tiger's eye quartz.

Measuring 80 x 23 3/4 x 1 1/4in

\$4,000 - 6,000



1125

1125^w

EXCEPTIONAL LARGE PYRITE

Huanzala Mine, Huallanca District, Dos de Mayo Province, Huánuco Department, Peru

This is an exemplary large single crystal, with a resplendent surface. Sure to be a star of any private collection, we are at the present time unaware of any larger crystal of pyrite in existence. *Weighing approximately 143.6 lbs (65.1 kilos) Measuring 23 x 12 x 6in*

\$1,200 - 1,500



1126

1126^w

TIGER IRON MATRIX SLAB

Western Australia

Over two billion years ago, when tectonic plates shifted to form the Australian continent, deposits of red jasper, chatoyant tiger's eye and black hematite were forced together under great pressure. The ancient ornamental gemstone, sometimes called "tiger eye matrix," is the fascinating and beautiful product of these monumental geologic events. While the stone is billions of years old, only small specimens have been offered on the market until recently. Because the physical properties of each of the three minerals differ so greatly, only an experienced lapidary has the ability to work this material. The tiger iron in the present example is of fine quality with dramatic contrasts between the hematite, red jasper and tiger's eye. *Measuring 62in x 23 1/2in x 3/4in*

\$5,000 - 7,000

1127^w

LARGE PYRITE WITH TRIANGULAR CRYSTALS

Huanzala Mine, Huallanca District, Dos de Mayo Province, Huánuco Department, Peru
An impressive pyrite crystal cluster which features a very, very large crystal measuring 4 3/4 inches along the edge. Of slightly smaller proportions than the other pyrites in this collection. *Weighing approximately 61 lbs (28 kilos). Measuring 11 x 11 x 9 in*

\$1,200 - 1,500



1127



1128

1128

**LARGE SANDSTONE CONCRETION--
"GOGOTTE"**

Oligocene

30 million years old

Fontainebleau, France

A gogotte is a millions-of-years old naturally shaped mineral rarity consisting of tiny quartz fragments held together by calcium carbonate. A mineralogical work of art, each gogotte has a unique and otherworldly shape, which opens the imagination to infinite interpretations. Fontainebleau's sand is famous for its flawlessness and delicacy since the 17th century, and gives the gogotte its porcelain appearance. Gogotte concretions can be found in Natural History museums around the world. *Measuring 12 x 10 x 4 1/2 in*

\$3,000 - 5,000



1129

1129

**SMALL SANDSTONE CONCRETION--
"GOGOTTE"**

Oligocene

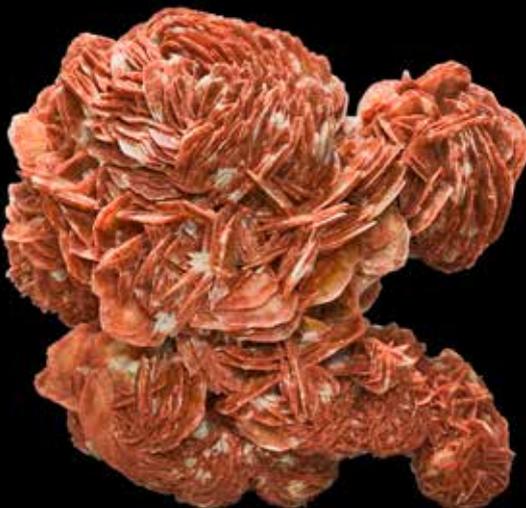
30 million years old

Fontainebleau, France

Fontainebleau's sand is famous for its flawlessness and delicacy since the 17th century, and gives the gogotte its porcelain appearance. The present specimen is of smaller scale than usual: specimens such as this are infrequently seen in the marketplace. *Height 4 1/4 in*

\$300 - 500

To be sold without reserve



1130

1130

EIGHT MEXICAN MINERALS

Including two danburites, *San Luis Potosi*; an amethyst, *Vera Cruz*; a garnet, *Lake Jaco*; a double-terminated calcite, two additional calcites, *St. Eulalia, Chihuahua*; a "desert rose" sand selenite, *measuring 7 1/2 x 7 x 3 1/2 in*; an aragonite, *height 3 1/2 in.* (8)

\$800 - 1,200

To be sold without reserve



1131^w

VERY LARGE WONDERSTONE WALL MURAL

Kanab, Utah

A complex scaled pattern of iron oxide distinguishes this large wall mounted sandstone plaque. The natural sandstone, known as *Wonderstone*, was formed 120 million years ago by wind and water. An *artwork* produced by nature, the material has been lightly sandblasted by an artisan, diminishing the softer layers and accentuating the harder iron laden lines to emphasize the watercolor-like patterns resembling a landscape. A highly decorative piece exhibiting contrasting colors and texture - and three-dimensional qualities when lighted obliquely. This is one of the larger *Wonderstone* specimens ever produced for wall décor. Fitted with a wooden cleat system for wall display. *Measuring 85 x 42 x 1 1/4in*

\$8,000 - 10,000



1132

1132

FOUR ZINCITES

Poland

In the early 1990s, exciting specimens (and cut gemstones) of transparent zincite from Poland began to appear on the market. It was soon discovered that the mysterious source of these pieces was a paint factory. Zinc oxide makes a reliable, non-toxic white paint that is used, for instance, in some sunblocks. When a smokestack in the paint factory was dismantled, it was found to be lined with radiating crystals of zincite, formed by condensation from the gases in the chimney—the odd crystal habits on this piece attest to that origin. As that chimney has now been torn down, no more of these accidentally man-made crystals are anticipated. The present group consists of one larger zincite with flame orange crystals, *length 6 in*; and three smaller specimens having lime green or blue crystals. (4)

\$500 - 700

To be sold without reserve



1133

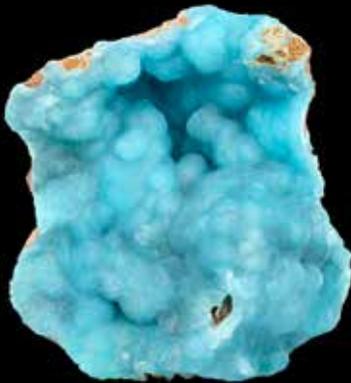
1133

GROUP OF SIX MINERALS FROM WORLD LOCALITIES

Including a Stibnite crystal cluster, *China, measuring 8 x 6 x 4 1/2 in*; a Vanadinite, *Morocco, measuring 4 x 3 x 2in*; two Garnet crystals on matrix, *Australia, measuring 3 1/2 x 2 3/4 x 1in*; a Cobaltian Calcite, *Morocco, measuring 4 x 3 x 2in*; and an Azurite, *measuring 4 x 2 1/2 x 2 1/4in*; together with a larger cabinet sized specimen of azurmalachite, *measuring 5 x 4 1/2 x 3 1/2in*. (6)

\$800 - 1,200

To be sold without reserve



1134

1134

FIVE CHINESE MINERALS

Including three hemimorphites, *Hunan, China*, the largest, *measuring 8 x 6 x 1 1/2 in*; a cinnabar on dolomite, *height 1 1/2 in*; and a sphalerite on calcite and quartz, *length 6 in*. (5)

\$1,000 - 1,500

To be sold without reserve



1135

1135

LARGE GROUP OF MINERALS FROM AMERICAN LOCALITIES

Including two Calcites, *Michigan*; three Coppers, *Michigan*; an Epidote, *Alaska*; Chrysocolla, *Arizona*; Benitoite and Neptunite, *California*; opalized wood, *Virgin Valley, Nevada*; Quartz with Pyrite, *Spruce Claim, WA*; Chacopyrite, *Colorado*; Colemanite, *Boron, California*; Covellite, *Butte, Montana*; two Herkimer quartz specimens, *Herkimer, NY*; Pyrite with quartz, *Washington*; drusy chrysocolla, *Ray Mine, Arizona*; Calcite in clamshell, *Florida, length 7 1/2 in*; quartz, *Arkansas*; iridescent limonite, *Montana*. (lot)

\$1,500 - 2,500

To be sold without reserve

1136

GROUP OF TEN ILLINOIS AND TRI-STATE MINERALS

Including a Pyrite "sun", Sparta, Illinois, length 9 1/2 in; two purple fluorites; four galenas; a chalcopyrite on dolomite; a sphalerite with calcite, and another sphalerite. (10)

\$800 - 1,200

To be sold without reserve



1136

1137

FORTY AGATE GEODE HALVES

Agate Creek, Queensland, Australia

Rich in hues of umber, ochre, red, grey and black, all with polished faces, length of longest: 3in. (40)

\$500 - 700

To be sold without reserve



1137

1138

SEVENTEEN AGATE GEODE "SPLITS"

Agate Creek, Queensland, Australia

The agates from this locality are considered some of the most rare and beautiful in the world and were first noted by early gold prospectors in the Gilberton area south of Georgetown. The present group consists of pairs with polished faces. Many display red and grey banded edges and quartz to the center, others are grey, ochre and brown in hue. The largest: length 4 inches (17 pairs, 34 total pcs)

\$300 - 400

To be sold without reserve



1138

1139

NINETEEN AGATE GEODE "SPLITS"

Agate Creek, Queensland, Australia

In colors reminiscent of the Australian Outback in hues of red, ochre and brown, the largest measuring 3 1/4 in. (Total of 19 pairs or 38 total)

\$450 - 550

To be sold without reserve



1139



1140

1140

FORTY-TWO AGATE GEODE HALVES

Agate Creek, Queensland, Australia

Mined during the mid 1960s, in the unforgiving heat of the North Queensland Australian outback, these beautiful agates were retrieved using only a pick and shovel to gather them.

The present group contains this large and beautifully complicated and colorful specimen, with banding of red, grey and white, measuring 5 inches across as well as forty-one other half geodes. (42 singles)

\$300 - 500

To be sold without reserve



1141

1141

TWENTY-FIVE AGATE GEODE HALVES

Agate Creek, Queensland, Australia

In rich hues of red, ochre, grey and black with concentric banding and various patterns, all with polished faces, *length of longest: 4 3/4 in.* (25)

\$500 - 700

To be sold without reserve



1142

1142

TWENTY-TWO AGATE GEODE "SPLITS"

Agate Creek, Queensland, Australia

In various sizes, having red, ochre, white and grey banding, *the largest measuring 3 1/2 in.* (22 pairs or 44 total)

\$300 - 500

To be sold without reserve



1143

1143

TWENTY-THREE AGATE GEODE "SPLITS"

Agate Creek, Queensland, Australia

In various shades of red and ochre, some with iris agate phenomenon. The largest measuring 2 1/2 inches in height. (23 pairs or 46 total)

\$500 - 700

To be sold without reserve

1144^w

CALCITE STALACTITE

China

A cave stalactite, this beautiful calcite formation would form a highly decorative focal point in any room. Weighing approximately 44 lbs. Measuring 30 x 7 x 5 3/4 in

\$1,200 - 1,500

To be sold without reserve





1144A

1144A
FOUR DECORATIVE QUARTZ SPECIMENS

Brazil

The large, decorative “room-sized” display specimens include: an amethyst specimen with rock crystal sphere which can be utilized as a fountain, *diameter of bowl: 13 in*; a citrine specimen; a calcite specimen, *length 12 in*, and a quartz crystal cluster. (4)

\$500 - 700
 To be sold without reserve



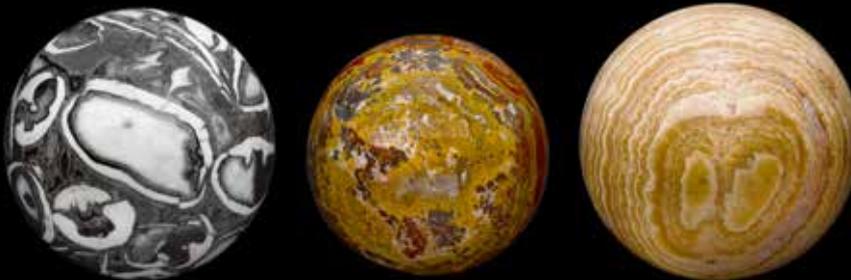
1145

1145^w
LARGE BANDED ONYX DECORATIVE BOWL

Mexico

Comprised of calcite or aragonite and travertine, this decorative mineral exhibits color banding from layer deposition. Originating in Central Mexico, this fine decorative bowl follows a free-form outline and displays naturally scalloped edges and the dramatic banding for which this mineral is prized. *Measuring 22 1/2 x 19 x 9 in*

\$1,000 - 1,500
 To be sold without reserve



1146

1146
GROUP OF THREE MINERAL SPHERES

World Localities

Including fossil bearing black and white marble sphere of orthoceras, *Morocco*, *diameter 4 1/2 in*; a banded aragonite sphere, *Mexico*, *diameter 4 1/2 in*; and an agate sphere, *Morocco*. (3)

\$600 - 800
 To be sold without reserve



1147



1148

1147^w

LARGE, LEAF-FORM BANDED ONYX BOWL

Mexico

A unique, hand-carved bowl of very large size sure to form a decorative statement, with some translucent areas of banded green and beige and other areas of ochre and brown. With the natural boulder rind to the edges of the leaf. *Measuring 41 x 19 x 13 in*

\$800 - 1,000

To be sold without reserve

1148

GREEN SERPENTINE CARVING OF HORNED LIZARDS ON SKULL

Carved in China from a single specimen of local serpentine, the skilled lapidary artist has used the cream colored portions of the stone to depict the skull and the green portions to render the horned lizards which rest upon it. A dramatic and unusual presentation. *Measuring 17 x 11 x 8 1/2 in*

\$5,000 - 7,000



1149

1149^w

SEPTARIAN TABLETOP

Madagascar

Septarian is typically formed in nodules with calcite crystals encased in brown aragonite. Found in Utah, it is, however, only in the locality of Madagascar that it is found in such massive form. This attractive circular tabletop is fashioned from a single, large slab of Septarian. *Diameter 28in. Thickness: 1 in*

\$1,200 - 1,500

1150

LARGE SEPTARIAN BOWL

Madagascar

This functional and attractive bowl of free-form outline, displays generous proportions. The lighter calcite presents a dramatic contrast against the brown hues of the aragonite. *Measuring 12 1/4 x 11 1/2 x 5 1/4 in*

\$500 - 700

1151 - 1152

No lots



1150



1153

1153^w

LARGE MESQUITE WOOD MIRROR FRAME INLAID WITH TURQUOISE

Prosopis genus

Mesquite trees are short, twisted Sonoran desert plants and the resulting lumber reflects the intense hard life they endure. Created by an Arizona artist, this rustic mirror frame is of impressive size. The inherent beauty of rugged mesquite wood has been enhanced by the addition of inlaid sections of turquoise in the natural fissures of the wood to create a perfect Southwest theme. The edges of the frame have been left in their natural free form state and are unpolished.

Measuring 62 3/4 x 49 x 1 1/4 in

\$3,000 - 5,000



1153A

1153A^w

PAIR OF CITRINE GEODE SLABS ON STANDS

Brazil

Near consecutive slabs of the same enormous geode, each still having the rind of the geode visible on all edges. Both of natural, unenhanced citrine, one having a fascinating druzy vug with pinkish crystals visible on the surface. The first, *measuring 28 1/2 x 25 1/2 x 1 1/2 in, height with stand 19 1/2 in*; and the second, *measuring 26 3/4 x 25 x 1 7/8 in, height with stand 19 1/2 in*. (2)

\$2,500 - 3,000

Each offered on a removable metal x-form stand which can be stored flat for transport.



1154

1154^w

LARGE AGATE SLAB ON STAND

Brazil

With complete "rind" on all edges and good translucency, this cross-section slab of a very large geode creates a very functional table. *Measuring 21 3/4 x 19 3/4 x 1 1/4 in. Height overall with stand: 21 1/4 in*

\$400 - 600

Offered on a removable metal x-form stand which can be stored flat for transport.



1155

1155^w

LARGE AGATE SLAB ON STAND

Brazil

A beautiful agate cross-section slab, which still retains its natural boulder edge all around, with rich carnelian at the edges and a druze of quartz to the interior. *Measuring 20 x 16 x 3/4 in*

\$600 - 800

Offered with a custom-fitted black metal stand.



1156

1156^w

LARGE SCHOLAR'S ROCK WITH ROSEWOOD BASE

China

Suitable for display on a tabletop or floor, having typical resonant metallic ring when struck. The aesthetics of this specimen, with its various naturally pierced holes, create a contrast of positive and negative space. *Specimen itself measuring 26 x 23 x 11 in (without base)*

\$2,000 - 3,000

Offered on a custom-fitted, carved rosewood base in two sections.



1157

1157^w

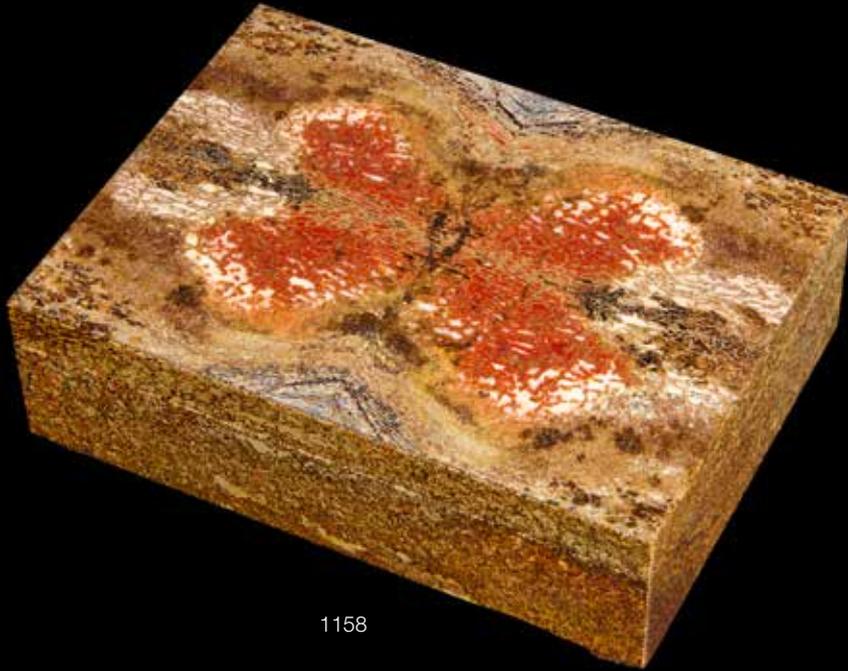
SCHOLAR'S ROCK ON BASE

China

Suitable for display on a tabletop or floor, having typical resonant metallic ring when struck. The aesthetics of this specimen, with its various naturally pierced holes, create a contrast of positive and negative space. *Measuring 12 x 11 1/2 x 6 1/2 in. Height overall with base: 18 in*

\$1,500 - 2,000

Offered on a fitted rosewood base which is in two sections.



1158

1158

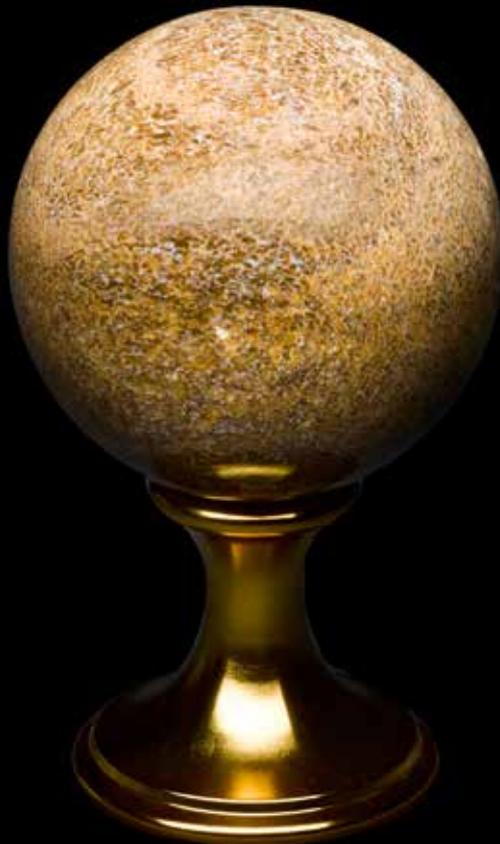
DINOSAUR BONE INTARSIA BOX

By Konstantin Libman

Four book-matched slabs of gem-grade dinosaur bone are seamlessly matched together in this fine, unique presentation box. They create a fascinating pattern resembling a butterfly with outstretched wings. Fine grained cellular structure of the bone is visible throughout. *Measuring 6 x 4 1/4 x 1 3/4 in*

\$3,000 - 4,000

Offered in a custom-fitted wooden presentation case.



1159

1159

AGATIZED DINOSAUR BONE SPHERE

Utah

Of brown color with natural variations in tone to the agate, having a well polished surface and showing excellent cellular structure. *Diameter 4in (10.0 cm)*

\$500 - 700



1160

1160
EIGHT VERY FINE DINOSAUR BONE CABOCHONS
Utah

Including a gem-grade, bright red rectangular cushion-shaped cabochon, 18.29 cts; a blue oval cabochon, 9.39 cts; a translucent blue cushion-shape, 37.58 cts; a vivid red, gem-grade oval, 18.93 cts; a large translucent blue oval, 61.48 cts; a smaller bright red oval, 11.51 cts; a large oval reddish brown cab, 23.26 cts; and a rectangular cabochon, 32.03 cts. (8)

\$800 - 1,200
 To be sold without reserve

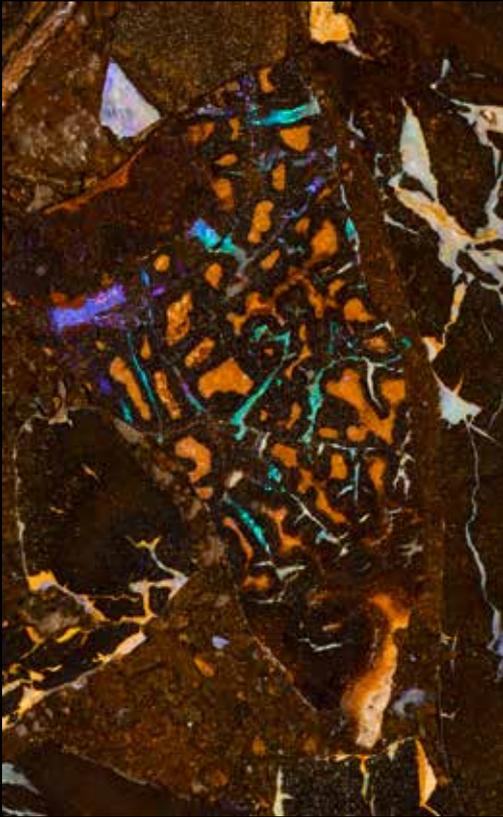


1161

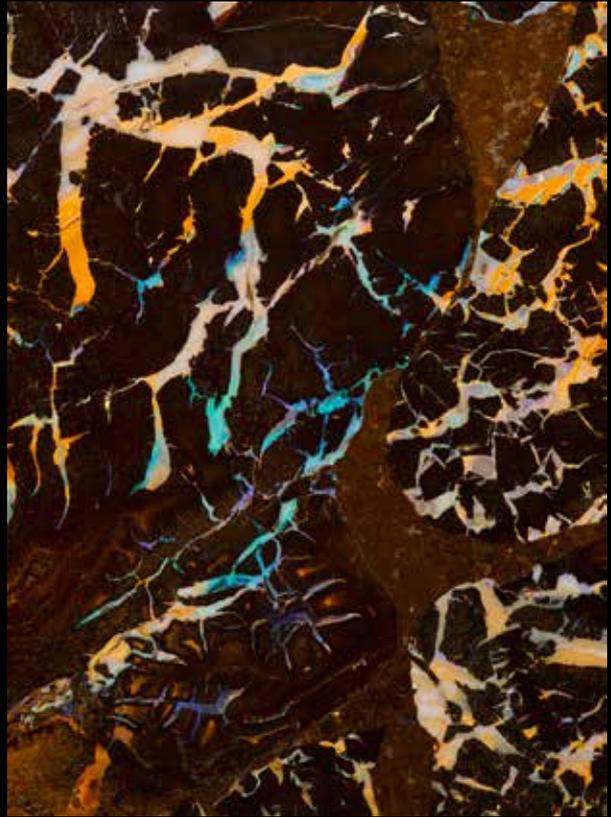
1161
SUITE OF NINE JEWELRY-GRADE FOSSIL SAND DOLLARS
Morocco

Natural fossil sand dollar echinoderms, each polished to a high gloss to reveal their exquisite and unique pattern; including one larger one and eight smaller. *Height of largest 26.8 mm, the others approximately 20.0 mm.* (9)

\$200 - 300
 To be sold without reserve



1162 (detail)



1162 (detail)



1162 (detail)



1162 (detail)



1162^w

UNIQUE BOULDER OPAL INTARSIA BAR TABLE WITH REMOVABLE TOP

Koroit, Queensland, Australia

A unique intarsia table formed of cross-section slices of boulder opal inlaid into matrix. The slabs of ironstone are highlighted with a myriad of veins of opal having attractive multi-color play-of-color of blue, orange, white and cream, set within a bronzed metal border.

Designed by a well known Arizona lapidary artist, composed of cross-section slabs of gem-quality boulder opal from Koroit, Queensland, each honed to a fine polish. The veining of opalization in the rich brown ironstone matrix is bright and colorful in hues of orange, blue, green, etc. The table placed on a painted steel frame, with removable top for ease of transport or so that it may be placed on another base of the purchaser's choosing. *Tabletop measuring 60 x 36 in. Height overall: 40 1/2in*

\$9,000 - 12,000



LEPIDOPTERA AND ZOOLOGY

1163^w

GROUP OF FIVE FRAMED ARTISTIC BUTTERFLY PRESENTATIONS

Order: Lepidoptera; Anteos clorinde, Anteos menippe, Archaeoprepona demophoon, Asterope leprieuri, Biblis hyperia, Caligo teucer, Callicore cynosura, Callicore eunomia, Callicore hystaspes, Callicore illioneus, Catonephele numilia, Colobura annulata, Consul fabius, Diaethria clymena, Diaethria eluina, Dione juno, Doxocopa elis, Doxocopa laurentia, Dryas iulia, Eurytides serville, Fountainea eurypyle, Fountainea ryphea, Heliconius erato, Heliconius wallacei, Heraclides astyalus, Heraclides garleppi, Heraclides thoas, Historis odius, Hypanartia lethe, Leodonta zenobina, Lyropteryx apollonia, Melinaea marsaeus, Memphis moruus, Memphis philumena, Metamorpha elissa, Mimoides xeniades, Morpho didius, Morpho helenor, Napeocles jucunda, Panacea prola, Paulogramma pyracmon, Pereute callinira, Pereute telthusa, Phoebis argante, Phoebis philea, Polygrapha cyanea, Protesilaus glaucous doxocopa cyane, Protesilaus molops, Pyrrhogyra amphiro, Rhabdodryas trite, Rhetus arcius, Siproeta epaphus, Temenis laothoe, Urania, Urania leilus
Modern Peru

Five frames of butterflies comprising a total of 94 butterfly specimens make a delightfully decorative group. Three are artfully arranged to suggest the colorful creatures in flight; two are classically arranged. Each presentation includes a spectacular variety of specimens. Over 180,000 species have been described within the order Lepidoptera, which includes both butterflies and moths. The name Lepidoptera is derived from the Greek, meaning scaly winged. The frames have glass on both sides, allowing for visual inspection of the specimens from both the top and bottom. Species names are listed on the bottom of each frame. *Two large frames each measuring 21 x 13in; a large frame measuring 20 x15in; and two small frames each measuring 17 x 11in (5)*

\$1,200 - 1,800



1164^{WY}

VERY LARGE LEPIDOPTERA COLLECTION

Circa 1950

A magnificent framed collection of several dozen species of butterflies and moths endemic to Asia, most of which were farm or captive raised. *Measuring 69 x 48 1/2 x 7in, framed.*

\$5,000 - 7,000

Provenance

Purchased from the Persian Royal family of Farhad Dowlatshahi, circa 1978, and thence by descent in the current owner's family.



1165



1166

1165^w
IRISH ELK HORN ON BASE

Megaloceros giganteus
 Pleistocene
 Rhine River, Worms, Germany

Known as the *Irish Elk*, *Megaloceros giganteus* was actually a giant species of deer which ranged across Eurasia during the Pleistocene, from Ireland to Siberia and China. Because the earliest specimens were discovered in Ireland, when little was known of evolutionary biology, *Megaloceros giganteus* was dubbed the *Irish Elk*. Offered is a large partial horn from an extremely hard to find prehistoric animal, mounted on a custom wooden base. A striking display piece. *Measuring 43 x 21in*

\$6,000 - 8,000

1166^w
RECONSTRUCTED ELEPHANT BIRD EGG

Aepyornis maximus
 Southern Madagascar
 Pre-17th century

The extinct flightless bird, *Aepyornis maximus*, produced the largest egg of any animal that ever lived, including the dinosaurs. Commonly known as the Elephant Bird, a name that originated from Marco Polo's account of the giant bird in 1298, the species was described by Marco Polo as a ten-foot-tall bird that weighed over half a ton, having talons large enough to seize an elephant. *Aepyornis maximus* lived only on the island of Madagascar and went extinct in the middle of the 17th century. *Height 12in. Diameter 28 1/2 in*

\$2,000 - 3,000



1167

1167
THOROUGHBRED HORSE INKWELL

Equus ferus caballus
 circa 1942

An unusual zoomorphic inkwell and *memento mori* with engraving identifying the racehorse as Imperial War Fame, sired by Prince Palatine and Verne as the Dam. The sire, Prince Palatine, was British horse of the Year in 1912 and 1913, and his name is engraved on the hoof medallion as well. In 1913, Prince Palatine was sold for a then record price of £45,000. *Measuring 6 1/4 x 5 x 4 1/2 in*

\$600 - 800

To be sold without reserve



1168^w

RARE EXAMPLE OF AN EXTINCT PASSENGER PIGEON

Ectopistes migratorius

circa 1890

United States

The passenger pigeon is arguably the most famous and shocking example of extinction in the (comparatively) recent past. Once the most numerous bird species in North America with a population estimated to be in the billions, the species likely became extinct in the wild around 1900 largely due to over-hunting. The species clung to existence until Martha, the last passenger pigeon living in captivity, died in 1914 at the Cincinnati Zoo. Case measures: 20 1/2 x 13 x 12 in

\$9,000 - 12,000

Provenance

This male specimen was acquired from the Connecticut estate of Mrs. Florence Richmond and presented in the original oak case.



1169

1169^w

VICTORIAN CASE DEPICTING A FOX WITH PREY

Vulpes vulpes, Perdix perdix

By taxidermist James Hutchings of Aberystwyth, Wales

A classic example of a predator and prey diorama featuring a fox with grey partridge. A master of fox taxidermy, Hutchings cases are iconic and well-known for their attention to detail, including a touch of the macabre. Note the trickle of blood and feather on the fox's mouth.

Although such dioramas can be seen from time to time in the UK, they are very rare in the United States. *Case measuring: 32 x 24 x 13 3/4 in*

\$1,000 - 1,500



1170

1170^w

FANCY DOMESTIC PIGEON MOUNTED IN THE VICTORIAN STYLE

Columba livia

An excellent example of an unusual domestic pigeon of the Old Dutch Capuchine breed presented in a 5-sided case and naturalistic background. *Case measuring: 14 3/4 x 14 1/2 x 5 1/2 in*

\$400 - 600

To be sold without reserve



1171^w

VINTAGE DIORAMA: "THE SQUIRRELS AT TEA"

Sciurus vulgaris

A fine early 20th century anthropomorphic taxidermy case featuring two squirrels in the manner of Victorian taxidermist Walter Potter. A rare example of such a case with a charming pair of squirrels having tea and dining on acorns. Rendered in exquisite detail and in excellent condition. Case measuring 25 x 22 3/4 x 11 3/4 in

\$5,000 - 7,000

Provenance

This diorama was recently featured at Brooklyn's Morbid Anatomy Museum exhibit titled "Taxidermy: Art, Science & Immortality".



1172

1172^w

VINTAGE MATED PAIR OF TAXIDERMIC BUSHPIGS

Potamochoerus larvatus

A mated pair of African Bushpigs (late 20th century). By repute of the hunter from whom the specimens were acquired, the boar and sow were taken within minutes of one another on the same African safari. Extremely well done and lifelike in appearance. Purchased in the US from a private collection, this species is more rare than the more typically encountered warthog and being a mated pair, quite unusual (and romantic). *Measuring 22 x 17x 13 in and 23 1/2 x 18 x 15 in (2)*

\$1,500 - 2,500



1173

1173^w

AFRICAN CRESTED PORCUPINE

Hystrix cristata

An impressive contemporary example, far larger than the species native to the United States. Though not especially rare, taxidermy examples of this species are quite popular with interior designers and collectors. *Length 31 x 18 x 16 in*

\$800 - 1,500



1174^w

NEWBORN GIRAFFE

Giraffa camelopardalis

A contemporary example of a newborn giraffe that died of natural causes in captivity only days after birth, this specimen measures approximately 5' 10" and is mounted in the European style without a wooden base. *Height 70 x 60 x 14in*

\$12,000 - 15,000



1175

1175^w

DUCK-BILLED PLATYPUS SPECIMEN

Ornithorhynchus anatinus

An antique platypus specimen in a glazed diorama case, originating from a UK collection. Examples such as this are rarely seen in the United States as very few are in private hands. Unusual to see in the US, these seem to attract competitive bidding in UK auctions where they are more common, but are still considered very exotic. *Measuring 22 1/2 x 14 1/2 x 9 1/2 in*

\$5,000 - 7,000



1176

1176^w

ANTIQUÉ KINKAJOU

Potos flavus

South America

A rare example of an antique kinkajou (*Potos flavus*), displayed in a contemporary glass case. This piece originated from the United Kingdom. Native to South America, this unusual creature has a monkey-like appearance, but is more closely related to raccoons and coatis. Rare to find a cased specimen, especially in the United States. *Case measuring 29 1/2 x 22 x 10 1/2 in*

\$1,500 - 2,000

Provenance

Recently featured at Brooklyn's Morbid Anatomy Museum exhibit: Taxidermy: Art, Science & Immortality exhibit.



1177

EXTINCT DODO BIRD FEMUR BONE

Raphus cucullatus

Mare aux Songes, Mauritius

Few, if any, examples of extinct species are more iconic than the Dodo. This incredibly rare example recovered from the *Mare aux Songes* swamp in Mauritius hails from the private collection of Errol Fuller, the UK-based Natural History author and internationally recognized expert on extinct avian species. The dodo femur on offer is from a group of dodo bones discovered in 1860s during the investigation of the *Mare aux Songes* swamp in Mauritius by schoolmaster George Clarke. Hearing that a few bones had been found in this area, Clarke hired local servants to wade through a swamp and feel for further bones with their feet.

The example represents one of only a few to come to auction over the past 100 years and perhaps the first on offer in the United States. Measuring 5 3/4 x 1 3/4 x 1 3/4 in. Domed case measures 10 x 6 1/2 in

\$8,000 - 10,000

Provenance

Ex. Collection Errol Fuller

Accompanied by a letter of provenance dated February 22, 2018 signed by Mr. Errol Fuller, an assessor for the British Antiques Dealers' Association and member of the Standards Committee for the Olympia Fine Art Fair who is the noted author of the book titled "Dodo: from Extinction to Icon".

Displayed in a Victorian glass dome.



1178^w

CASED DIORAMA OF VICTORIAN GAMEBIRDS

Lagopus lagopus scotica and *Perdix perdix*

From a UK collection, this large taxidermy naturalistic diorama features a trio of red grouse (*Lagopus lagopus scotica*) and a pair of grey partridge (*Perdix perdix*) with brood of chicks. A charming late 19th century display artistically presented. Though neither species is considered rare, the inclusion of a number of chicks makes for a provocative composition. Case measures: 34 x 26 x 10 3/4 in

\$1,000 - 1,500

Provenance

This case was featured as part of the period set design in the film "The Greatest Showman", the musical biography of PT Barnum's early life starring Hugh Jackman.

END OF SALE

Bonhams

AUCTIONEERS SINCE 1793



Lapidary Works of Art, Gemstones and Minerals

Los Angeles | December 5, 2018

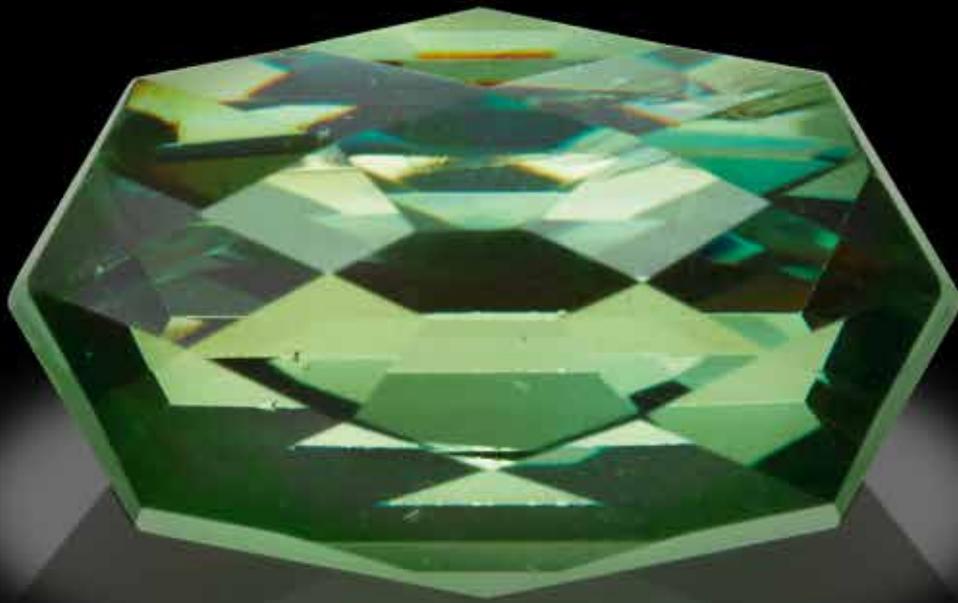
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BIRDS IN CHERRY TREE
**BY ANDREAS VON ZADORA-
GERLOF**
\$6,000 - 8,000

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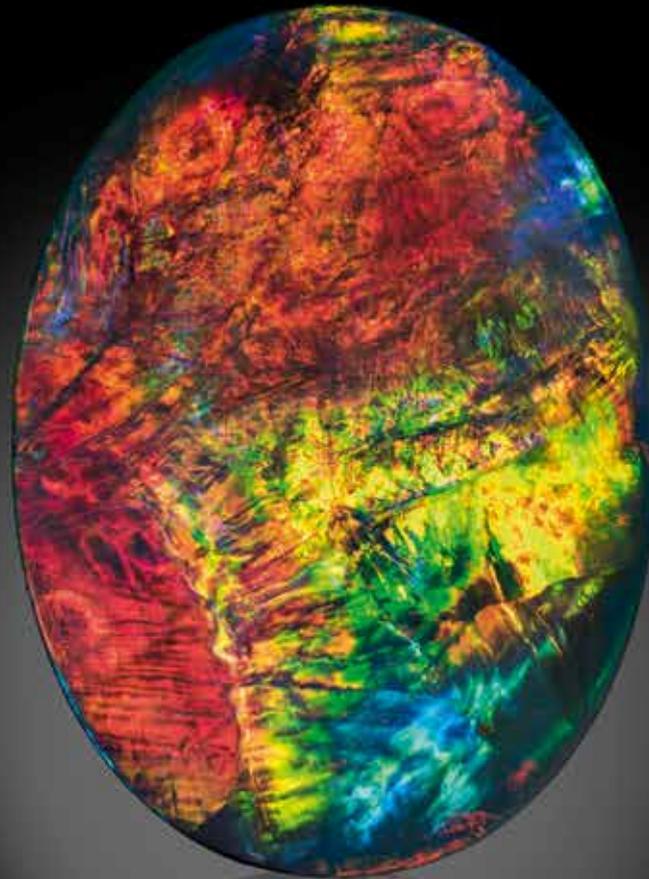
DEMANTOID GARNET, NAMIBIA,

3.09 CARATS

\$7,000 - 9,000

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AUCTIONEERS SINCE 1793



Lapidary Works of Art, Gemstones and Minerals

The World of Gold, Opals and Phenomenal Gems

Los Angeles | May 20 & 21, 2019

**CONSIGNMENTS
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**STUNNING BLACK OPAL—
"THE TEMPEST", 23.84 CARATS
LIGHTNING RIDGE, NEW SOUTH
WALES, AUSTRALIA**
\$25,000 - 35,000

OFFSITE SOLD PROPERTY STORAGE INFORMATION

Please note that all lots listed at the beginning of our printed catalog, if not removed immediately after the sale, will be transferred to a nearby storage facility. For the convenience of the successful bidder of one or more of these lots, all purchased lots will be transferred to our offsite storage together. Please read the Conditions of Sale regarding the removal of sold lots.

Bonhams' storage and logistics partner is Box, Pack and Ship LLC, a well-known organization that specializes in crating, packaging and shipping.

Our storage and logistics partnership provides several beneficial services. The first being 5 days of free storage.

- During this auction, clients will be expected to pick up all property from Bonhams by 5pm on Friday December 7.
- All items listed at the beginning of our printed catalog, along with all other items purchased, if not removed immediately after the sale, will be transferred to Box, Pack and Ship LLC warehouse. With an appointment made 24 hours in advance, clients can pick up their property at 3800 S. Main Street, Los Angeles, CA 90037.
- Box, Pack and Ship LLC will charge an uplift fee to transport your items to their warehouse. Small items that can be handled easily by one person will be charged \$50. Larger items that can still be handled by one person will be charged \$85. Large items that require two people to handle will be charged \$100. Charges will be payable directly to Box, Pack and Ship LLC. Should you choose to have Box, Pack and Ship LLC ship or deliver your property, this uplift fee will be waived.
- Clients will have 5 days of free storage to retrieve their property or make arrangements with Box, Pack and Ship LLC to pack and ship their property. Storage fees will begin to accrue on the 6th day of storage.
- Retrieval from the offsite warehouse is by appointment only. Clients must call 24 hours in advance. Clients can utilize the delivery services offered by Box, Pack and Ship LLC or clients may make their own arrangements. Please call +1 (800) 674-4705.
- Box, Pack and Ship LLC is available to ship internationally. They offer importing and exporting services. Clients can select either airfreight or ocean cargo delivery options, which range from door-to-port, door-to-airport with door-to-door service also available. Clients can ship one item, co-load or container load at a discounted rate through Box, Pack and Ship LLC. Please call +1 (800) 674-4705 for more information.
- All purchases not designated for offsite storage will remain onsite at Bonhams for a period of 21 days beginning the date of the auction. During this 21 day period, clients may remove such property themselves, make arrangements with the Bonhams packaging and shipping department or provide their own shipper for removal of all property. If a client does not retrieve his/her property or finalize shipping arrangements within 21 days, the purchases will be removed to the offsite storage facility of Box, Pack and Ship LLC. Again, uplift charges for packing and transport from our gallery to Box, Pack and Ship LLC will be charged by Box, Pack and Ship LLC.
- Payment of the hammer price, premium and any applicable sales taxes must be made directly to Bonhams prior to the release of property. Any removal, storage or other fees due to Box, Pack and Ship LLC should be made directly to Box, Pack and Ship LLC.
- Change of shipping address must be authorized by Bonhams Revenue Manager, Martin Romero, before Box, Pack and Ship LLC will be permitted to re-route your purchases.

LOTS TO BE REMOVED TO STORAGE:

1002	1077	1149
1003	1078	1153A
1004	1079	1153
1005	1080	1154
1006	1084	1155
1007	1085A	1156
1008	1085	1157
1009	1110	1162
1010	1114	1164
1011	1115	1165
1012	1116	1166
1013	1117	1168
1053	1118	1169
1059	1121	1170
1066	1122	1171
1067	1123	1173
1068	1124	1174
1069	1125	1175
1070	1126	1176
1071	1127	1178
1072	1131	
1073	1144	
1074	1145	
1076	1147	

CONDITIONS OF SALE

The following Conditions of Sale, as amended by any published or posted notices or verbal announcements during the sale, constitute the entire terms and conditions on which property listed in the catalog shall be offered for sale or sold by Bonhams & Butterfields Auctioneers Corp. and any consignor of such property for whom we act as agent. If live online bidding is available for the subject auction, additional terms and conditions of sale relating to online bidding will apply; see www.bonhams.com/WebTerms for the supplemental terms. As used herein, "Bonhams," "we" and "us" refer to Bonhams & Butterfields Auctioneers Corp.

1. As used herein, the term "bid price" means the price at which a lot is successfully knocked down to the purchaser. The term "purchase price" means the aggregate of (a) the bid price, (b) a PREMIUM retained by us and payable by the purchaser EQUAL TO 25% OF THE FIRST \$250,000 OF THE BID PRICE, 20% OF THE AMOUNT OF THE BID PRICE ABOVE \$250,001 UP TO AND INCLUDING \$4,000,000, AND 12.5% OF THE AMOUNT OF THE BID PRICE OVER \$4,000,000, and (c) unless the purchaser is exempt by law from the payment thereof, any Alabama, Arizona, California, Colorado, Connecticut, Florida, Georgia, Hawaii, Illinois, Indiana, Kentucky, Maine, Massachusetts, Michigan, Minnesota, Nevada, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, Texas, Virginia, Washington, D.C., Washington state, Wisconsin, Wyoming or other state or local sales tax (or compensating use tax) and other applicable taxes. With regard to New York sales tax, please refer to the "Sales and Use Tax" section of these Conditions of Sale.

2. On the fall of the auctioneer's hammer, the highest bidder shall have purchased the offered lot in accordance and subject to compliance with all of the conditions set forth herein and (a) assumes full risk and responsibility therefor, (b) if requested will sign a confirmation of purchase, and (c) will pay the purchase price in full or such part as we may require for all lots purchased. No lot may be transferred. Any person placing a bid as agent on behalf of another (whether or not such person has disclosed that fact or the identity of the principal) may be jointly and severally liable with the principal under any contract resulting from the acceptance of a bid.

Unless otherwise agreed, payment in good funds is due and payable within five (5) business days following the auction sale. Whenever the purchaser pays only a part of the total purchase price for one or more lots purchased, we may apply such payments, in our sole discretion, to the lot or lots we choose. Payment will not be deemed made in full until we have collected good funds for all amounts due.

Payment for purchases may be made in or by (a) cash, (b) cashier's check or money order, (c) personal check with approved credit drawn on a U.S. bank, (d) wire transfer or other immediate bank transfer, or (e) Visa, MasterCard, American Express or Discover credit, charge or debit card. A processing fee will be assessed on any returned checks. Please note that the amount of cash notes and cash equivalents that can be accepted from a given purchaser may be limited.

To the fullest extent permitted by applicable law: The purchaser grants us a security interest in the property, and we may retain as collateral security for the purchaser's obligations to us, any property and all monies held or received by us for the account of the purchaser, in our possession. We also retain all rights of a secured party under the California Commercial Code. If the foregoing conditions or any other applicable conditions herein are not complied with, in addition to all other remedies available to us and the consignor by law, we may at our election: (a) hold the purchaser liable for the full purchase price and any late charges, collection costs, attorneys' fees and costs, expenses and incidental damages incurred by us or the

consignor arising out of the purchaser's breach; (b) cancel the sale, retaining as liquidated damages all payments made by the purchaser; and/or (c) cancel the sale and/or resell the purchased property, at public auction and/or by private sale, and in such event the purchaser shall be liable for the payment of all consequential damages, including any deficiencies or monetary losses, and all costs and expenses of such sale or sales, our commissions at our standard rates, all other charges due hereunder, all late charges, collection costs, attorneys' fees and costs, expenses and incidental damages. In addition, where two or more amounts are owed in respect of different transactions by the purchaser to us, to Bonhams 1793 Limited and/or to any of our other affiliates, subsidiaries or parent companies worldwide within the Bonhams Group, we reserve the right to apply any monies paid in respect of a transaction to discharge any amount owed by the purchaser. If all fees, commissions, premiums, bid prices and other sums due to us from the purchaser are not paid promptly as provided in these Conditions of Sale, we reserve the right to impose a finance charge equal to 1.5% per month (or, if lower, the maximum nonusurious rate of interest permitted by applicable law), on all amounts due to us beginning on the 31st day following the sale until payment is received, in addition to other remedies available to us by law.

3. We reserve the right to withdraw any property and to divide and combine lots at any time before such property's auction. Unless otherwise announced by the auctioneer at the time of sale, all bids are per lot as numbered in the catalog and no lots shall be divided or combined for sale.

4. We reserve the right to reject a bid from any bidder, to split any bidding increment, and to advance the bidding in any manner the auctioneer may decide. In the event of any dispute between bidders, or in the event the auctioneer doubts the validity of any bid, the auctioneer shall have sole and final discretion either to determine the successful bidder or to re-offer and resell the article in dispute. If any dispute arises after the sale, our sales records shall be conclusive in all respects.

5. If we are prevented by fire, theft or any other reason whatsoever from delivering any property to the purchaser or a sale otherwise cannot be completed, our liability shall be limited to the sum actually paid therefor by the purchaser and shall in no event include any compensatory, incidental or consequential damages.

6. If a lot is offered subject to a reserve, we may implement such reserve by bidding on behalf of the consignor, whether by opening bidding or continuing bidding in response to other bidders until reaching the reserve. If we have an interest in an offered lot and the proceeds therefrom other than our commissions, we may bid therefor to protect such interest. **CONSIGNORS ARE NOT ALLOWED TO BID ON THEIR OWN ITEMS.**

7. All statements contained in the catalog or in any bill of sale, condition report, invoice or elsewhere as to authorship, period, culture, source, origin, measurement, quality, rarity, provenance, importance, exhibition and literature of historical relevance, or physical condition **ARE QUALIFIED STATEMENTS OF OPINION AND NOT REPRESENTATIONS OR WARRANTIES.** No employee or agent of Bonhams is authorized to make on our behalf or on that of the consignor any representation or warranty, oral or written, with respect to any property.

8. All purchased property shall be removed from the premises at which the sale is conducted by the date(s) and time(s) set forth in the "Buyer's Guide" portion of this catalog. Property designated with a "W" and associated purchased lots, if not removed promptly following sale, will be transferred to an offsite warehouse at the purchaser's risk and expense, as set forth in more detail in the "Buyer's Guide." Purchased property that is permitted to remain

onsite at Bonhams' facility should be removed at the purchaser's expense not later than 5:00 p.m. Pacific Time five (5) business days following the date of the sale. If not so removed, a storage fee of \$5.00 per lot per day will be payable to us by the purchaser beginning at the close of the 21st day following the sale, and we may thereafter transfer such property to an offsite warehouse at the purchaser's risk and expense. Accounts must be settled in full before property will be released. Packing and handling of purchased lots are the responsibility of the purchaser. Bonhams can provide packing and shipping services for certain items as noted in the "Buyer's Guide" section of the catalog.

9. The copyright in the text of the catalog and the photographs, digital images and illustrations of lots in the catalog belong to Bonhams or its licensors. You will not reproduce or permit anyone else to reproduce such text, photographs, digital images or illustrations without our prior written consent.

10. These Conditions of Sale shall bind the successors and assigns of all bidders and purchasers and inure to the benefit of our successors and assigns. No waiver, amendment or modification of the terms hereof (other than posted notices or oral announcements during the sale) shall bind us unless specifically stated in writing and signed by us. If any part of these Conditions of Sale is for any reason invalid or unenforceable, the rest shall remain valid and enforceable.

11. These Conditions of Sale and the purchaser's and our respective rights and obligations hereunder are governed by the laws of the State of California. By bidding at an auction, each purchaser and bidder agrees to be bound by these Conditions of Sale. Any dispute, controversy or claim arising out of or relating to this agreement, or the breach, termination or validity thereof, brought by or against Bonhams (but not including claims brought against the consignor by the purchaser of lots consigned hereunder) shall be resolved by the procedures set forth below.

MEDIATION AND ARBITRATION PROCEDURES

(a) Within 30 days of written notice that there is a dispute, the parties or their authorized and empowered representatives shall meet by telephone and/or in person to mediate their differences. If the parties agree, a mutually acceptable mediator shall be selected and the parties will equally share such mediator's fees. The mediator shall be a retired judge or an attorney familiar with commercial law and trained in or qualified by experience in handling mediations. Any communications made during the mediation process shall not be admissible in any subsequent arbitration, mediation or judicial proceeding. All proceedings and any resolutions thereof shall be confidential, and the terms governing arbitration set forth in paragraph (c) below shall govern.

(b) If mediation does not resolve all disputes between the parties, or in any event no longer than 60 days after receipt of the written notice of dispute referred to above, the parties shall submit the dispute for binding arbitration before a single neutral arbitrator. Such arbitrator shall be a retired judge or an attorney familiar with commercial law and trained in or qualified by experience in handling arbitrations. Such arbitrator shall make all appropriate disclosures required by law. The arbitrator shall be drawn from a panel of a national arbitration service agreed to by the parties, and shall be selected as follows: (i) If the national arbitration service has specific rules or procedures, those rules or procedures shall be followed; (ii) If the national arbitration service does not have rules or procedures for the selection of an arbitrator, the arbitrator shall be an individual jointly agreed to by the parties. If the parties cannot agree on a national arbitration service, the arbitration shall be conducted by the American Arbitration Association, and the arbitrator shall be selected in accordance with the Rules of

CONDITIONS OF SALE - CONTINUED

the American Arbitration Association. The arbitrator's award shall be in writing and shall set forth findings of fact and legal conclusions.

(c) Unless otherwise agreed to by the parties or provided by the published rules of the national arbitration service:

(i) the arbitration shall occur within 60 days following the selection of the arbitrator;

(ii) the arbitration shall be conducted in the designated location, as follows: (A) in any case in which the subject auction by Bonhams took place or was scheduled to take place in the State of New York or Connecticut or the Commonwealth of Massachusetts, the arbitration shall take place in New York City, New York; (B) in all other cases, the arbitration shall take place in the city of San Francisco, California; and

(iii) discovery and the procedure for the arbitration shall be as follows:

(A) All arbitration proceedings shall be confidential;

(B) The parties shall submit written briefs to the arbitrator no later than 15 days before the arbitration commences;

(C) Discovery, if any, shall be limited as follows: (I) Requests for no more than 10 categories of documents, to be provided to the requesting party within 14 days of written request therefor; (II) No more than two (2) depositions per party, provided however, the deposition(s) are to be completed within one (1) day; (III) Compliance with the above shall be enforced by the arbitrator in accordance with California law;

(D) Each party shall have no longer than eight (8) hours to present its position. The entire hearing before the arbitrator shall not take longer than three (3) consecutive days;

(E) The award shall be made in writing no more than 30 days following the end of the proceeding. Judgment upon the award rendered by the arbitrator may be entered by any court having jurisdiction thereof.

To the fullest extent permitted by law, and except as required by applicable arbitration rules, each party shall bear its own attorneys' fees and costs in connection with the proceedings and shall share equally the fees and expenses of the arbitrator.

LIMITED RIGHT OF RESCISSION

If within one (1) year from the date of sale, the original purchaser (a) gives written notice to us alleging that the identification of Authorship (as defined below) of such lot as set forth in the **BOLD TYPE** heading of the catalog description of such lot (as amended by any saleroom notices or verbal announcements during the sale) is not substantially correct based on a fair reading of the catalog (including the terms of any glossary contained therein), and (b) within 10 days after such notice returns the lot to us in the same condition as at the time of sale, and (c) establishes the allegation in the notice to our satisfaction (including by providing one or more written opinions by recognized experts in the field, as we may reasonably require), then the sale of such lot will be rescinded and, unless we have already paid to the consignor monies owed him in connection with the sale, the original purchase price will be refunded.

If, prior to receiving such notice from the original purchaser alleging such defect, we have paid the consignor monies owed him in connection with the sale, we shall pay the original purchaser the amount of our commissions, any other sale proceeds to which we are entitled and applicable taxes received from the purchaser on the sale and make demand on the consignor to pay the balance of the original purchase price to the original purchaser. Should the consignor fail to pay such amount promptly, we may disclose the identity of the consignor and assign to the original purchaser our rights against the consignor with respect to the lot the sale of which is sought to be rescinded. Upon such disclosure and assignment, any liability of Bonhams as consignor's agent with respect to said lot shall automatically terminate.

The foregoing limited right of rescission is available to the original purchaser only and may not be assigned to or relied upon by any subsequent transferee of the property sold. The purchaser hereby accepts the benefit of the consignor's warranty of title and other representations and warranties made by the consignor for the purchaser's benefit. Nothing in this section shall be construed as an admission by us of any representation of fact, express or implied, obligation or responsibility with respect to any lot. **THE PURCHASER'S SOLE AND EXCLUSIVE**

REMEDY AGAINST BONHAMS FOR ANY REASON WHATSOEVER IS THE LIMITED RIGHT OF RESCISSION DESCRIBED IN THIS SECTION.

"Authorship" means only the identity of the creator, the period, culture and source or origin of the lot, as the case may be, as set forth in the **BOLD TYPE** heading of the print catalog entry. The right of rescission does not extend to: (a) works of art executed before 1870 (unless these works are determined to be counterfeits created since 1870), as this is a matter of current scholarly opinion which can change; (b) titles, descriptions, or other identification of offered lots, which information normally appears in lower case type below the **BOLD TYPE** heading identifying the Authorship; (c) Authorship of any lot where it was specifically mentioned that there exists a conflict of specialist or scholarly opinion regarding the Authorship of the lot at the time of sale; (d) Authorship of any lot which as of the date of sale was in accordance with the then generally-accepted opinion of scholars and specialists regarding the same; or (e) the identification of periods or dates of creation in catalog descriptions which may be proven inaccurate by means of scientific processes that are not generally accepted for use until after publication of the catalog in which the property is offered or that were unreasonably expensive or impractical to use at the time of such publication.

LIMITATION OF LIABILITY

EXCEPT AS EXPRESSLY PROVIDED ABOVE, ALL PROPERTY IS SOLD "AS IS." NEITHER BONHAMS NOR THE CONSIGNOR MAKES ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, AS TO THE MERCHANTABILITY, FITNESS OR CONDITION OF THE PROPERTY OR AS TO THE CORRECTNESS OF DESCRIPTION, GENUINENESS, ATTRIBUTION, PROVENANCE OR PERIOD OF THE PROPERTY OR AS TO WHETHER THE PURCHASER ACQUIRES ANY COPYRIGHTS OR OTHER INTELLECTUAL PROPERTY RIGHTS IN LOTS SOLD OR AS TO WHETHER A WORK OF ART IS SUBJECT TO THE ARTIST'S MORAL RIGHTS OR OTHER RESIDUAL RIGHTS OF THE ARTIST. THE PURCHASER EXPRESSLY ACKNOWLEDGES AND AGREES THAT IN NO EVENT SHALL BONHAMS BE LIABLE FOR ANY DAMAGES INCLUDING, WITHOUT LIMITATION, ANY COMPENSATORY, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

SELLER'S GUIDE

SELLING AT AUCTION

Bonhams can help you every step of the way when you are ready to sell art, antiques and collectible items at auction. Our regional offices and representatives throughout the US are available to service all of your needs. Should you have any further questions, please visit our website at www.bonhams.com/us for more information or call our Client Services Department at +1 (323) 850 7500.

AUCTION ESTIMATES

The first step in the auction process is to determine the auction value of your property. Bonhams' world-renowned specialists will evaluate your special items at no charge and in complete confidence. You can obtain an auction estimate in many ways:

- Attend one of our Auction Evaluation Events held regularly at our galleries and in other major metropolitan areas. The updated schedule for Bonhams Auction Evaluation Events is available at www.bonhams.com/us.
- Call our Client Services Department to schedule a private appointment at one of our galleries. If you have a large collection, our specialists can travel, by appointment, to evaluate your property on site.
- Send clear photographs to us of each individual item, including item dimensions and other pertinent information with each picture. Photos should be sent to Bonhams' address in envelopes marked

as "photo auction estimate". Alternatively, you can submit your request using our online form at www.bonhams.com/us. Digital images may be attached to the form. Please limit your images to no more than five (5) per item.

CONSIGNING YOUR PROPERTY

After you receive an estimate, you may consign your property to us for sale in the next appropriate auction. Our staff assists you throughout the process, arranging transportation of your items to our galleries (at the consignor's expense), providing a detailed inventory of your consignment, and reporting the prices realized for each lot. We provide secure storage for your property in our warehouses and all items are insured throughout the auction process. You will receive payment for your property approximately 35 days after completion of sale.

Sales commissions vary with the potential auction value of the property and the particular auction in which the property is offered. Please call us for commission rates.

PROFESSIONAL APPRAISAL SERVICES

Bonhams' specialists conduct insurance and fair market value appraisals for private collectors, corporations, museums, fiduciaries and government entities on a daily basis. Insurance appraisals, used for insurance purposes, reflect the cost of replacing property in today's retail market. Fair market value appraisals are used for estate,

tax and family division purposes and reflect prices paid by a willing buyer to a willing seller.

When we conduct a private appraisal, our specialists will prepare a thorough inventory listing of all your appraised property by category. Valuations, complete descriptions and locations of items are included in the documentation.

Appraisal fees vary according to the nature of the collection, the amount of work involved, the travel distance, and whether the property is subsequently consigned for auction.

Our appraisers are available to help you anywhere and at any time. Please call our Client Services Department to schedule an appraisal.

ESTATE SERVICES

Since 1865, Bonhams has been serving the needs of fiduciaries – lawyers, trust officers, accountants and executors – in the disposition of large and small estates. Our services are specially designed to aid in the efficient appraisal and disposition of fine art, antiques, jewelry, and collectibles. We offer a full range of estate services, ranging from flexible financial terms to tailored accounting for heirs and their agents to world-class marketing and sales support.

For more information or to obtain a detailed Trust and Estates package, please visit our website at www.bonhams.com/us or contact our Client Services Department.

BUYER'S GUIDE

BIDDING & BUYING AT AUCTION

Whether you are an experienced bidder or an enthusiastic novice, auctions provide a stimulating atmosphere unlike any other. Bonhams previews and sales are free and open to the public. As you will find in these directions, bidding and buying at auction is easy and exciting. Should you have any further questions, please visit our website at www.bonhams.com or call our Client Services Department at +1 (323) 850 7500.

Catalogs

Before each auction we publish illustrated catalogs that include dates and times for previews and auctions. Our catalogs also provide descriptions and estimated values for each "lot." A lot may refer to a single item or to a group of items auctioned together. We offer our catalogs by subscription or by single copy. For information on subscribing to our catalogs, you may refer to the subscription form in this catalog, call our Client Services Department, or visit our website at www.bonhams.com/us.

Previews

Auction previews are your chance to inspect each lot prior to the auction. We encourage you to look closely and examine each object on which you may want to bid so that you will know as much as possible about it. Items are sold "as is" and with all faults; illustrations in our catalogs, website and other materials are provided for identification only. At the previews, our staff is always available to answer your questions and guide you through the auction process. Condition reports may be available upon request.

Estimates

Bonhams catalogs include estimates for each lot, exclusive of buyer's premium and tax. The estimates are provided as an approximate guide to current market value and should not be interpreted as a representation or prediction of actual selling prices. They are determined well in advance of a sale and are subject to revision. Please contact us should you have any questions about value estimates.

Reserves

All lots in a catalog are subject to a reserve unless otherwise indicated. The reserve is the minimum price that the seller is willing to accept for a lot. This amount is confidential and does not exceed the low estimated value.

BIDDING AT AUCTION

At Bonhams, you can bid in many ways: in person, via absentee bid, over the phone, or via Bonhams' online bidding facility. Absentee bids can be submitted in person, online, via fax or via email.

A valid Bonhams client account is required to participate in bidding activity. You can obtain registration information online, at the reception desk or by calling our Client Services Department.

By bidding at auction, whether in person or by agent, by absentee bid, telephone, online or other means, the buyer or bidder agrees to be bound by the Conditions of Sale.

Lots are auctioned in consecutive numerical order as they appear in the catalog. Bidding normally begins below the low estimate. The auctioneer will accept bids from interested parties present in the saleroom, from telephone bidders, and from absentee bidders who have left written bids in advance of the sale. The auctioneer may also execute bids on behalf of the consignor up to the amount of the reserve, but never above it.

We assume no responsibility for failure to execute bids for any reason whatsoever.

In Person

If you are planning to bid at auction, you will need to register at the reception desk in order to receive a numbered bid card. To place a bid, hold up your card so that the auctioneer can clearly see it. Decide on the maximum amount that you wish to pay, exclusive of buyer's premium and tax, and continue bidding until your bid prevails or you reach your limit. If you are the successful bidder on a lot, the auctioneer will acknowledge your paddle number and bid amount.

Absentee Bids

As a service to those wishing to place bids, we may at our discretion accept bids without charge in advance of sale by telephone, by facsimile or in writing on bidding forms available from us. "Buy" bids will not be accepted; all bids must state the highest bid price the bidder is willing to pay. Our auction staff will try to bid just as you would, with the goal of obtaining the

item at the lowest bid price possible. In the event identical bids are submitted, the earliest bid submitted will take precedence. Absentee bids shall be executed in competition with other auction participants. A friend or agent may place bids on your behalf, provided that we have received your written authorization prior to the sale. Absentee bid forms are available in our catalogs, online at www.bonhams.com/us, and at our San Francisco, Los Angeles and New York galleries.

By Telephone

Under special circumstances, we can arrange for you to bid by telephone. To arrange for a telephone bid, please contact our Client Services Department a minimum of 24 hours prior to the sale.

Online

Web users may place absentee bids online from anywhere in the world. To bid online, please visit our website at www.bonhams.com/us.

We are pleased to make our live online bidding facility available to bidders in this sale.

Additional terms and conditions of sale relating to online bidding will apply. Please see www.bonhams.com/25495 or contact the Client Services Department to obtain information and learn how you can register and bid online in this sale.

Bid Increments

Bonhams generally uses the following increment multiples as bidding progresses:

\$50-200	by \$10s
\$200-500	by \$20/50/80s
\$500-1,000	by \$50s
\$1,000-2,000	by \$100s
\$2,000-5,000	by \$200/500/800s
\$5,000-10,000	by \$500s
\$10,000-20,000	by \$1,000s
\$20,000-50,000	by \$2,000/5,000/8,000s
\$50,000-100,000	by \$5,000s
\$100,000-200,000	by \$10,000s
above \$200,000	at auctioneer's discretion

The auctioneer may split or reject any bid at any time at his or her discretion as outlined in the Conditions of Sale.

Currency Converter

Solely for the convenience of bidders, a currency converter may be provided at Bonhams sales. The rates quoted for conversion of other currencies to U.S. Dollars are indications only and should not be relied upon by a bidder, and neither Bonhams nor its agents shall be responsible for any errors or omissions in the operation or accuracy of the currency converter.

Buyer's Premium

A buyer's premium is added to the winning bid price of each individual lot purchased, at the rates set forth in the Conditions of Sale. The winning bid price plus the premium constitute the purchase price for the lot. Applicable sales taxes are computed based on this figure, and the total becomes your final purchase price.

Unless specifically illustrated and noted, fine art frames are not included in the estimate or purchase price. Bonhams accepts no liability for damage or loss to frames during storage or shipment.

All sales are final and subject to the Conditions of Sale found in our catalogs, on our website, and available at the reception desk.

Payment

All buyers are asked to pay and pick up by 3pm on the business day following the auction. Payment may be made to Bonhams by cash, checks drawn on a U.S. bank, money order, wire transfer, or by Visa, MasterCard, American Express or Discover credit or charge card or debit card. All items must be paid for within 5 business days of the sale. Please note that payment by personal or business check may result in property not being released until purchase funds clear our bank.

Sales Tax

Residents of states listed in Paragraph 1 of the Conditions of Sale must pay applicable sales tax. Other state or local taxes (or compensation use taxes) may apply. Sales tax will be automatically added to the invoice unless a valid resale number has been furnished or the property is shipped via common carrier to destinations outside the states listed in

the Conditions of Sale. If you wish to use your resale license please contact Cashiers for our form.

Shipping & Removal

Buyers are to review the Offsite Sold Property Storage page for a list of lots that will be removed to the offsite warehouse of Box, Pack, & Ship, llc. These designated lots must be retrieved by the buyer prior to the day and time designated on the Offsite Sold Property Storage page. If buyers of these designated lots also buy other lots, such as decorations, rugs or works of art, these lots may also be removed to the warehouse of Box, Pack, & Ship, llc, so all lots remain together and customers can collect or ship from one location. All other items will remain at Bonhams for a period of 21 days, after which time they may be transferred to offsite storage. Wine, Jewelry, Natural History, Collectibles, 20th Century Decorative Arts, Rugs, Native American Art, Tribal Art and most Arms & Armor auctions are not included in this policy.

Box, Pack, & Ship, llc,
3800 S. Main Street
Los Angeles, CA 90037
+1 (800) 674 4705 Toll Free & Fax
323.432.2477 Office

Box, Pack, & Ship, llc is open Monday-Friday 8am-5pm with Saturday and Sunday hours available. Buyers must contact Box, Pack, & Ship, llc 24 hours in advance of pickup. Appointments are required. Bonhams can accommodate shipping for certain items. Please contact our Cashiers Department for more information or to obtain a quote. Refer to Conditions of Sale for special terms governing the shipment of Arms and Wine. Shipments are made during weekday business hours up to four weeks after payment is received. Carriers are not permitted to deliver to P.O. Boxes.

International buyers are responsible for all import/export customs duties and taxes. An invoice stating the actual purchase price(s) will accompany all international purchases.

Simultaneous sale property collection notice:

If this sale previews in multiple cities, please see the title page for details regarding final location of property for collection.

Handling and Storage Charges

Please note: For sold lots removed to Box, Pack, & Ship, llc, there will be no post-sale storage charge for lots collected within 5 days from the sale date. For lots that remain at Bonhams, there will be no post-sale storage charge for lots collected within 21 days of the sale date. Handling fees may apply.

Lots uncollected at Bonhams after 21 days may be removed to the warehouse of Box, Pack, & Ship, llc. Handling and storage fees will apply.

Insurance: All sold lots are insured by Box, Pack, & Ship, llc at the sum of the hammer price plus buyer's premium.

Please refer to Box, Pack, & Ship, llc for a list of Handling, Storage and Insurance fees.

Payment

Payments for purchased lots must be made directly to Bonhams. Box, Pack, & Ship, llc will not release property to a buyer unless the buyer has paid Bonhams first. All charges for handling and storage due to Box, Pack, & Ship, llc must be paid by the time of collection from their warehouse. Please telephone Box, Pack, & Ship, llc at +1 (800) 674 4705 in advance to ascertain the amount due.
Lots will only be released from Box, Pack, & Ship llc' warehouse with a "Release Order" obtained from the cashier's office at Bonhams.

The removal/storage and/or shipment by Box, Pack, & Ship, llc of any lots will be subject to their standard Conditions of Business, copies of which are available at Bonhams or from Box, Pack, & Ship, llc directly.

Auction Results

Auction results are usually available on the next business day following the sale or online at www.bonhams.com/us.

Auction Registration Form

(Attendee / Absentee / Online / Telephone Bidding)

Please circle your bidding method above.

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Paddle number (for office use only)

General Notice: This sale will be conducted in accordance with Bonhams Conditions of Sale, and your bidding and buying at the sale will be governed by such terms and conditions. Please read the Conditions of Sale in conjunction with the Buyer's Guide relating to this sale and other published notices and terms relating to bidding. Payment by personal or business check may result in your property not being released until purchase funds clear our bank. Checks must be drawn on a U.S. bank.

Notice to Absentee Bidders: In the table below, please provide details of the lots on which you wish to place bids at least 24 hours prior to the sale. Bids will be rounded down to the nearest increment. Please refer to the Buyer's Guide in the catalog for further information relating to instructions to Bonhams to execute absentee bids on your behalf. Bonhams will endeavor to execute bids on your behalf but will not be liable for any errors or non-executed bids.

Notice to First Time Bidders: New clients are requested to provide photographic proof of ID - passport, driving license, ID card, together with proof of address - utility bill, bank or credit card statement etc. Corporate clients should also provide a copy of their articles of association / company registration documents, together with a letter authorizing the individual to bid on the company's behalf. Failure to provide this may result in your bids not being processed. For higher value lots you may also be asked to provide a bankers reference.

Notice to online bidders; If you have forgotten your username and password for www.bonhams.com, please contact Client Services.

If successful

- I will collect the purchases myself
- Please contact me with a shipping quote (if applicable)
- I will arrange a third party to collect my purchase(s)

Please email or fax the completed Registration Form and requested information to:

Bonhams Client Services Department
 7601 W. Sunset Blvd
 Los Angeles, California 90046
 Tel +1 (323) 850 7500
 Fax +1 (323) 850 6090
bids.us@bonhams.com

Bonhams

Sale title: Natural History		Sale date: Tuesday December 4, 2018	
Sale no. 25495		Sale venue: Los Angeles	
General Bid Increments:			
\$10 - 200by 10s		\$10,000 - 20,000by 1,000s	
\$200 - 500by 20 / 50 / 80s		\$20,000 - 50,000by 2,000 / 5,000 / 8,000s	
\$500 - 1,000by 50s		\$50,000 - 100,000by 5,000s	
\$1,000 - 2,000by 100s		\$100,000 - 200,000by 10,000s	
\$2,000 - 5,000by 200 / 500 / 800s		above \$200,000at the auctioneer's discretion	
\$5,000 - 10,000by 500s		The auctioneer has discretion to split any bid at any time.	
Customer Number		Title	
First Name		Last Name	
Company name (to be invoiced if applicable)			
Address			
City		County / State	
Post / Zip code		Country	
Telephone mobile		Telephone daytime	
Telephone evening		Fax	
Telephone bidders: indicate primary and secondary contact numbers by writing ① or ② next to the telephone number.			
E-mail (in capitals) _____			
By providing your email address above, you authorize Bonhams to send you marketing materials and news concerning Bonhams and partner organizations. Bonhams does not sell or trade email addresses.			
I am registering to bid as a private client <input type="checkbox"/>		I am registering to bid as a trade client <input type="checkbox"/>	
Resale: please enter your resale license number here _____ We may contact you for additional information.			

SHIPPING	
Shipping Address (if different than above):	
Address: _____	Country: _____
City: _____	Post/ZIP code: _____

Please note that all telephone calls are recorded.

Type of bid (A-Absentee, T-Telephone)	Lot no.	Brief description (In the event of any discrepancy, lot number and not lot description will govern.) If you are bidding online there is no need to complete this section.	MAX bid in US\$ (excluding premium and applicable tax) Emergency bid for telephone bidders only*

You instruct us to execute each absentee bid up to the corresponding bid amount indicated above.

* Emergency Bid: A maximum bid (exclusive of Buyer's Premium and tax) to be executed by Bonhams only if we are unable to contact you by telephone or should the connection be lost during bidding.

BY SIGNING THIS FORM YOU AGREE THAT YOU HAVE READ AND UNDERSTAND OUR CONDITIONS OF SALE AND SHALL BE LEGALLY BOUND BY THEM, AND YOU AGREE TO PAY THE BUYER'S PREMIUM, ANY APPLICABLE TAXES, AND ANY OTHER CHARGES MENTIONED IN THE BUYER'S GUIDE OR CONDITIONS OF SALE. THIS AFFECTS YOUR LEGAL RIGHTS.	
Your signature: _____	Date: _____





Bonhams
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Los Angeles, California 90046

+1 323 850 7500
bonhams.com

AUCTIONEERS SINCE 1793