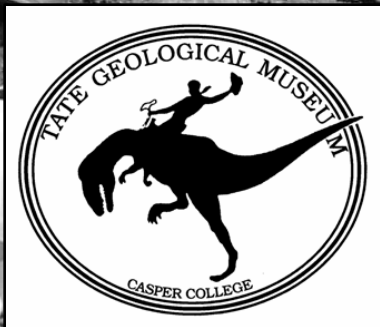


# Using a volunteer army to help a small museum collect large vertebrate specimens

JP Cavigelli  
Tate Geological Museum  
Casper College  
Casper, Wyoming

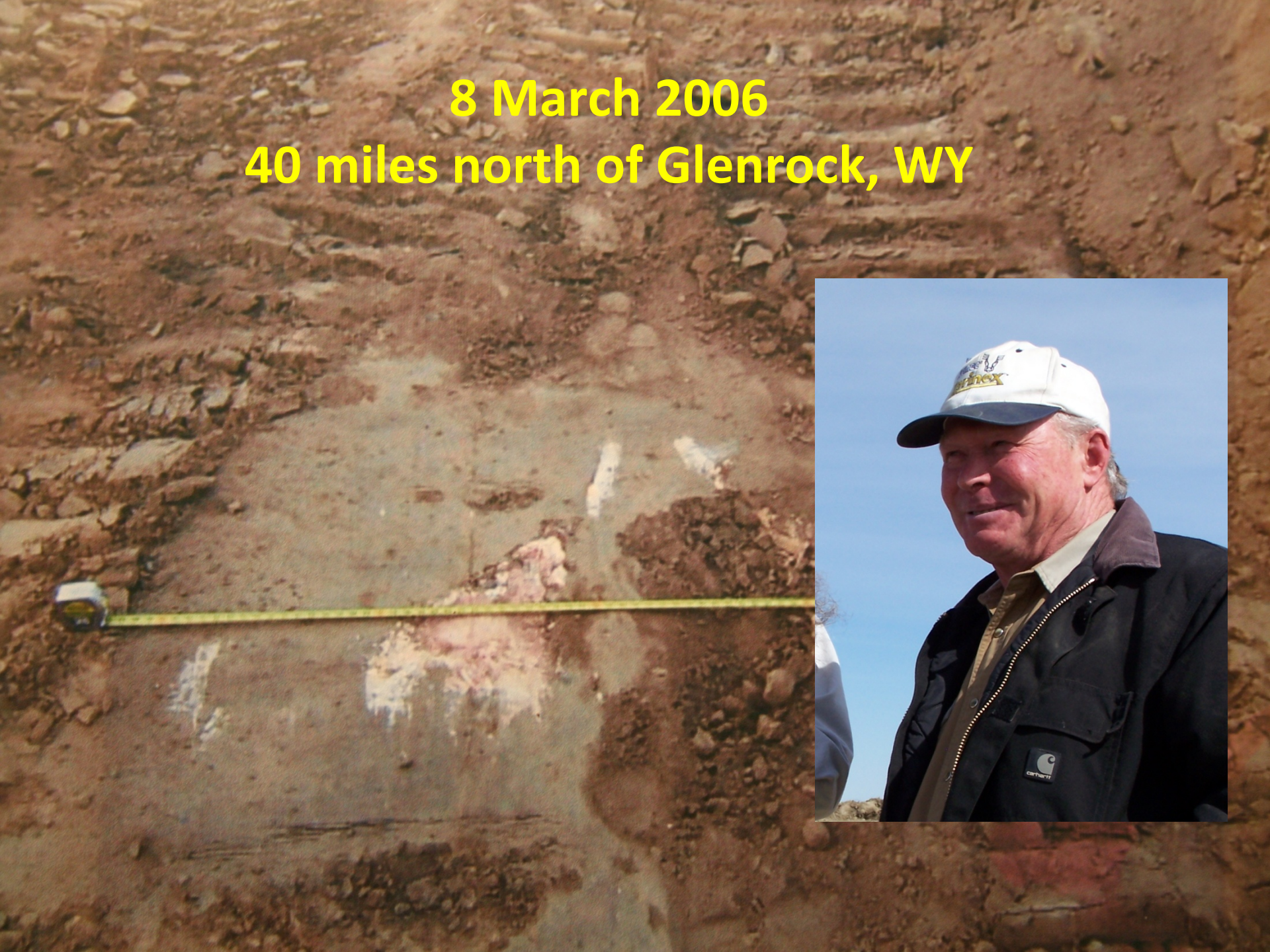








**8 March 2006**  
**40 miles north of Glenrock, WY**













What we found:

A good collection of mammoth bones

Likely more... A complete mammoth?



What we found:

A good collection of mammoth bones

Likely more... A complete mammoth?

What are we going to do with it?

Get landowner's permission to collect it for the Tate Museum

Plan a dig before the oil company digs their well on the site



What we found:

A good collection of mammoth bones

Likely more... A complete mammoth?

What are we going to do with it?

Get landowner's permission to collect it for the Tate Museum

Plan a dig before the oil company digs their well on the site

How are we going to do it?

Time is limited... Need to do it as one continuous excavation

Press Release

Fund a couple of student positions for the summer

Need more diggers than we actually have...

- Staff of five, most of whom cannot take a month to go dig
- About a half dozen regular volunteers would be key
- But we need more people... Mammoths are big



## PRESS RELEASE INFORMATION SHEET for Tate Museum/Allemand Ranch Mammoth excavation summer 2006

**WHAT:** Tate Museum at Casper College (Casper, WY) and Allemand Ranch (Douglas, WY) have signed an excavation and donation agreement allowing the Tate Museum to excavate a recently discovered large Columbian Mammoth skeleton on the Allemand Ranch.

**WHEN:** Excavation at the site will begin on June 13<sup>th</sup>, 2006

### CONTACTS:

- 1) For Press Information – Rich Fujita (307-268-3088) or Lisa Icenogle (307-268-2372)
- 2) For Museum Information – Dave Brown (Director of Tate Museum) -307-268-2447
- 3) For Allemand Ranch Information – Bart Byrd (owner) 307-358-4970
- 4) For Digsite Paleontology Information – Dr. Kent Sundell and J.P. Cavigelli will be Co-supervisors of field excavations this summer.

a) Dr. Kent Sundell – Paleontologist /Chairman Geology and Paleontology Department at Casper College- Office 307-268-2498 at digsite 307-358-1852 email [ksundell@caspercollege.edu](mailto:ksundell@caspercollege.edu)  
b) J. P. Cavigelli – Paleontologist/Field and Prep Lab Coordinator for Tate Museum- Tate Prep Lab -307-268-2447 – Cell-307-258-1093 email [jpcavigelli@caspercollege.edu](mailto:jpcavigelli@caspercollege.edu)  
c) Tate Museum website weekly mammoth photo updates/progress reports – [www.caspercollege.edu/community/campus/tate/index.html](http://www.caspercollege.edu/community/campus/tate/index.html)

**NAMES:** The specimen name for the Mammoth will be “Dee”. The excavation site name will be “Allemand Ranch Site”, Douglas, Wyoming

### BACKGROUND:

- 1) The pelvis of the mammoth was discovered by Mr. Dee Zimmerschied (307-680-1459), a bulldozer operator working for Basic Energy Services (307-680-9278) from Newcastle, Wyoming while making an oil well drilling location pad (March 8<sup>th</sup> 2006).
- 2) The oil well operator is Joe Scott Enterprises of Casper, Wyoming. Allen & Crouch Petroleum Engineers of Casper, Wyoming redesigned the location to insure protection of the fossil resources. Nerd Gas Company of Casper, Wyoming is a working interest partner in the well and supports protection of this site adjacent to their wellsite operations.
- 3) The wellsite and Mammoth bones are on private deeded surface land owned by Allemand Ranch of Douglas, Wyoming
- 4) Initial identification and preliminary fossil exposure was done by Dr. Kent Sundell, J.P. Cavigelli and Casper College geology/paleontology students during spring break (March, 2006). Twenty eight bones, including the pelvis, ribs, and vertebrae were uncovered initially.

**VISITATION:** All visitors or volunteer workers **MUST** sign up at the Tate Museum. Every Tuesday during the excavation will be a press/visitor day at the digsite.

Press release...

Information

Contacts

(Do NOT call the ranchers)

We need volunteers  
call the Tate Museum or better yet,  
stop in and sign up

Visiting Days

... Register as a Tate Museum Volunteer



# TATE MUSEUM/ALLEMAND RANCH MAMMOTH DIG VOLUNTEER REGISTRATION LIST

Dr. Kent Sundell and J. P. Cavigelli are Co-Supervisors of field excavation.  
Initially 8 workers and two supervisors will be present, additional workers may be added  
as excavation progresses.

Start Date: June 11, 2000<sup>7</sup>      PHONE#      Carpool?      Camping? Tent/RV

1) <u>BARB BENZIN</u>	<u>259-0855</u>		<u>CAMPER</u>
2) <u>Deb Muerder</u>	<u>308-294-081</u>		<u>Tent</u>
3) <u>Mathew Harburt</u>	<u>308-294-0340</u>		<u>Tent</u>
4) <u>Jessica Harburt</u>	<u>304-214-0898</u>		
5) _____	_____	_____	_____
6) _____	_____	_____	_____
7) _____	_____	_____	_____
8) _____	_____	_____	_____

Tuesday, June 12<sup>th</sup>      PHONE#      Carpool?      Camping? Tent/RV

1) <u>Janice Muech</u>	<u>262-1285</u>		
2) <u>Clayton</u>	" "		
3) <u>Katherine</u>	" "		
4) <u>Laurie</u>	" "		
5) <u>Dee Dee</u>			
6) <u>+ kid-Joe</u>			
7) <u>+ kid-</u>			
8) <u>BARB BENZIN</u>	<u>259-0855</u>		<u>CAMPER</u>
9) <u>Al Fraser</u>	<u>265 2229</u>		

**N O DOGS**

An example of the  
volunteer sign up registry .

We didn't want to have  
too many volunteers on  
site on any given day.



# Detailed Roadlog from Casper to Allemand Ranch Mammoth Site

Miles Cumulative/Increment

Start at intersection of Wyoming Boulevard and Interstate	0.0/0.0
25 on east side of Casper, Wyoming.....	19.5/19.5
Travel east on I-25 to west Glenrock exit WY highway 95 turn north.....	21.7/2.2
.....downtown Glenrock to 4 way stop.....	22.0/0.3

Travel north on WY 95 into downtown Glenrock to 4th St. (turn left on Platte).....22.0/0.3

Continue north to T intersection at Platte St. (turn left on 6th).....22.2/0.2

Travel west on Platte 2 blocks to 6<sup>th</sup> St. (turn right on 6<sup>th</sup>).....22.3/0.1

Head north on 6<sup>th</sup> St. to yield sign with WY 95 (turn left).....22.7/0.4

Proceed north on WY 95. Cross North Platte River.....25.0/2.3

Proceed north on WY 95. Go past Rolling Hills, WY 100 intersection with WY 93 (turn left).....38.91?

Proceed north on WY 95 to T intersection with W 1st St. (39.0 mi.)  
then turn left again onto Ross Road.....39.0/40.0 mi. (Hemand Ranch 37mi.)

Travel west a **short** distance then turn left again onto Ross Road. One of ranches along Ross Road says Allemand Ranch 37mi.)

Proceed westward along Ross Road (many curves and turns) go past Smith Ranch uranium site/mine/wells/sign operated by.....  
Travel and pavement.....

Road deteriorates to mixed gravel and pavement.....

Pavement (what's left of it) ends.....

Jenne Trail Road (gravel) intersection goes to northeast toward  
Hwy 59 and Gillette, WY (keep traveling north on Ross Road)  
Allmand Ranch road .....

Turn left off Ross Road onto Allemand Ranch road .....

Pass Allemand Ranch sign begin private property.....

Turn Right at Tate Museum Dig sign onto small oil fi

Turn Right at Tate Museum. . . . .

Veel left at Y intersection (oil well to right) onto bl  
Road to wellsite (dirt pile at mammoth site may be  
dirt to northwest. . . . .

End roadlog as you enter well location at Lat. N43 deg. 18.847 min,  
Long W105 deg. 47.762 min. at the **Allemand Mammoth Site**.....72.0/1.

**MAP TO TATE MUSEUM/ALLEMAND RANCH  
MAMMOTH SITE & SITE RULES**

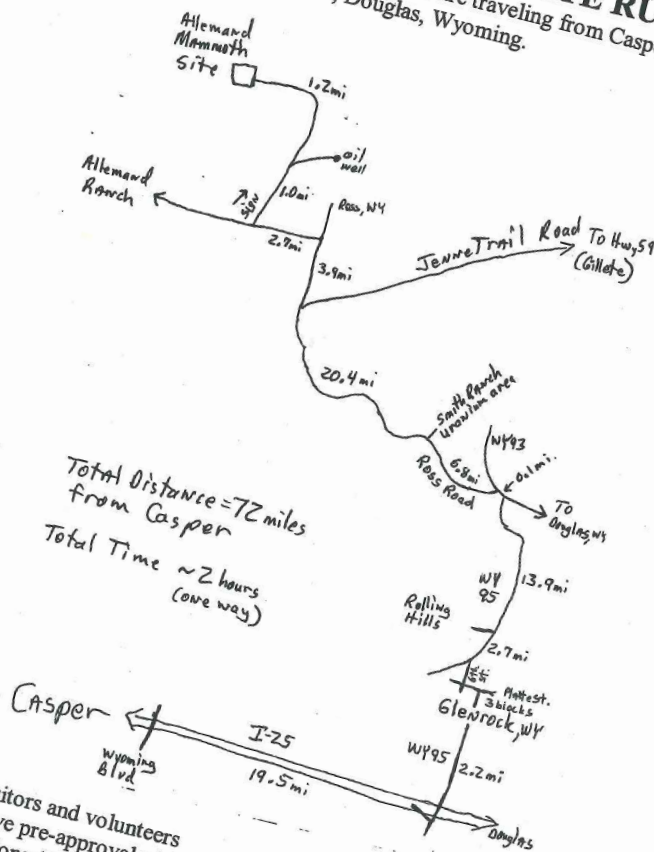
following map is drawn assuming you are traveling from Casper  
and Ranch Mammoth Site, Douglas, Wyoming

Allemand  
Mammoth

**STATE MUSEUM/ALLEMAND RANCH  
MAMMOTH SITE & SITE RULES**

The following map is drawn assuming you are traveling from Casper, Wyoming to the Allemand Ranch Mammoth Site, Douglas, Wyoming.

Allemand  
Mammoth  
Site ☐ 1.2 mi



Total Distance = 72 miles  
from Casper

Total Time ~ 2 hours  
(one way)

Rules for onsite visitors and volunteers

- 1) All must have pre-approval

Public Relations

Wyoming Blvd

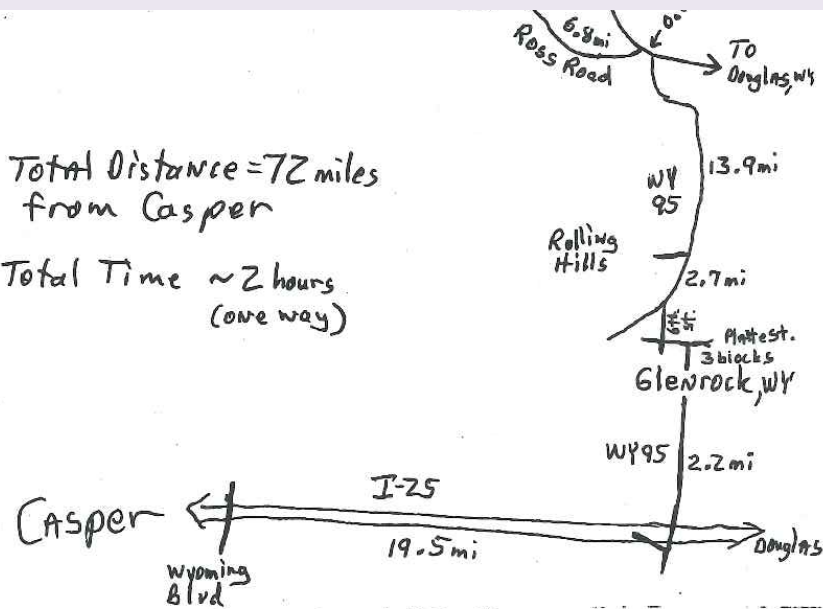
- onsite visitors and volunteers
- 1) All must have pre-approval via Tate Museum (307-268-2447), Casper College Public Relations (307-268-2372), Allemand Ranch (Bart Byrd 307-358-4970), or site supervisors Dr. Kent Sundell (307-358-1852) or J.P. Cavigelli (307-258-1093)
- 2) No pets
- 3) No smoking, except in designated areas
- 4) No littering
- 5) All vehicles must stay on the road only. The ranch is not a parking lot.

vehicles must stay on the roadway as shown on the above map to the digsite only. The ranch is allowing access only to the digsite not to any other lands.



Total Distance = 72 miles  
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Total Time ~ 2 hours  
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- 1) All must have pre-approval via Tate Museum (307-268-2447), Casper College Public Relations (307-268-2372), Allemand Ranch (Bart Byrd 307-358-4970), or site supervisors Dr. Kent Sundell (307-358-1852) or J.P. Cavigelli (307-258-1093)
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# A little publicity never hurts...





Tate Museum staff, Casper College Geology  
Department and many volunteers  
begin excavation on 13 June 2006













# “I’m scared I will ruin a bone.”

- Bones are tough, and fairly obvious to see, hear and feel.
- Here are some tools and here is how you use them
- Work slowly
- If you do find something, let us know. (Bill Ochs)

# Tuesdays were visiting day



More than 1,000  
visitors came to see  
the mammoth





In addition to diggers culled from the general public, we also got some in kind donations from local businesses, including

- Landowners... Housing for Tate Staff at the ranch
  - Landowner.. A Bobcat
  - Basic Energy ... A backhoe
  - Casper College... Truck and trailer and publicity
- 
- **115 volunteers over two field seasons.**

# Preparing Dee at the Tate Museum







# Uncovering ivory

## Tusk discovery completes largest mammoth in Wyo



Task: Until we get ours put up... we won't know

Small estimates have stood a little taller than a semi truck at 14 feet tall and weighed at least 12,000 pounds. One could be among the largest mounted mammoths in the world. The large size means the tusk was most likely male.

Uncovering a mammoth tusk is a big job. It's not just about finding the tusk, but also about getting it out of the ground. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk.



A Canyon College geology major, Kelly the student, working on the tusk recovered from a mammoth tusk bone at the Tule Geological Museum on July 2006. It is used to keep the tusk in good condition.

# Unearthed mammoth tusk

## Mammoth bones await analysis



Unearthed mammoth bones await analysis. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk.

# Crew works to uncover mammoth's remains

## THE STORY OF DEE



The crew works to uncover mammoth's remains. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk.



Dee's mammoth tusk is being worked on by a team of people. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk.



The mammoth was found on the Adams Ranch 42 miles north of Glenrock. Most of the skeleton was excavated in July 2006 by Tule Geological Museum staff and Canyon College students.

# DEE: More discoveries

## More discoveries

More discoveries. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk. The tusk was found in a field near a river. The discovery was made by a team of people who were looking for a better place to put the tusk.



Dee The Mammoth in the  
Tate Museum, from  
discovery in 2006 to  
mounted in 2010

Volunteers ( a lot of them)  
were crucial in getting this  
project done for our 30 year  
anniversary





Meanwhile on Tate a Museum  
Summer Dinosaur Dig in 2005...

2005

Three articulated big vertebrae  
in a hard rock



Photo by Dwaine Wagoner



Inspired by Mick McMurray of Nerd Gas Company... 2010

- What is it?
- How big is it?
- What do we do with it?

Summer 2010







Drawing by Scott Hartman and Russell Hawley  
Colorization by Patti Finkle

So, it is a T rex...  
Now what?





Thanks to:

- Nerd Gas Company, LLC
- Pathfinder Renewable Wind Energy,

# Planning the dig

Must dig it all in one sitting and have a constant presence to avoid thievery... It is visible from a county road and anyone with evil intentions could easily find it.

## We will need volunteers...

- Press release
- Tate Newsletter
- Invitation to all of our previous and potential summer dig participants
- Social media
- Flyers at front desk

Start a list of people interested in volunteering...  
Name, phone number and email.



# Organizing Volunteers

Prepare an info packet so folks will know

- What to expect
  - What is expected of them
  - The rules
  - What to bring
- 
- Reserved a certain number of spots for our Regulars and gave them first dibs

Design and print volunteer registration forms and photo release permission forms

## Lee Rex Dig Info

### Intro

Thank you for your interest in helping the Tate Geological Museum explore, excavate and collect Lee Rex. We will be trying to collect as much of this specimen as possible during the early part of this summer. An undertaking like this is not easy, and it may not be exciting all the time. (It may even be boring, tedious and hot). I often compare field paleo to fishing, you may not catch anything, but just trying to catch (find) something is fun. Included in this info packet is the meat of what potential volunteers might want to know.

For those who have not heard the story, Lee Rex was found five years ago, identified as a potential dinosaur site and ignored until last summer. The initial discovery is a short string of vertebrae exposed on the surface of a rock. A large, hard rock. Last summer we decided to expose this large rock and see if it would give us any clues as to the dinosaur's identity. A small crew of Tate volunteers and field trip participants spent three days exposing the rock. In the process we were able to determine that the rock contained the articulated pelvic area of a *Tyrannosaurus rex*. The rock is embedded in softer shale. In removing the shale we found a few rib fragments and chevrons lying outside the big rock. (Chevrons are little bones that hang under the tail vertebrae). The most intriguing bones we found were two cervical ribs from the second vertebra. These are small ribs that are connected to the neck bones. So we have a pelvis section and two bones from way up near the head. There is a good chance that there are more bones buried in that shale. Finding these is our initial goal. Collecting the big rock is the second goal.

### The Dig

We will be starting our excavation on June 13<sup>th</sup>. We have a lot of folks interested in volunteering. Thank you all for wanting to participate. It would be exciting to get 100 volunteers on the first day, but it would also be unmanageable, so we need to limit the number of helpers each day. We do NOT want volunteers to just show up. We will have folks sign up for the days they want to join us. Sign-ups can be done at the Tate Museum. Folks coming in from out of town can call to sign up. We will be digging seven days a week. I will share the In Charge Duties with Casper College geology professor Kent Sundell. We will be taking ten volunteers per day for the first week, and then maybe more... that depends on how it goes out there. Initially we will be reserving 5 spots per day for our regular diggers, volunteers and supporters. The other five spots will be for the many other people who have expressed an interest. Volunteers can sign up for one day or as many days as they want. The first two weeks we will focus on exploring the surrounding shale for more bones. On approximately June 26<sup>th</sup> we will start to work on protecting and removing the 18 foot long block that contains the animal's pelvic region. This will probably take a week or so.

### Rules and Regulations

A few guidelines for volunteers. We will ask that volunteers be at least 14 yrs old to help out. Even though small children are fascinated by dinosaurs, I have found over the years that this enthusiasm does not translate very well to field work. Fourteen to eighteen year olds must be accompanied by an adult.

We will have a primitive camp at the site. Tents and small truck-based campers are welcome. The space is not huge. Folks can camp with us or commute into Lusk an hour away. The site will include a pair of porta-potties. Due to the dry nature of this terrain and our desire not to burn down the range, we will not be allowing campfires. No exceptions. No and, ifs or buts. No whining. Cook stoves will be allowed. On a similar note, smokers should smoke downwind (thanks you) and use a portable ashtray to put ashes and butts into. A soda can works fine. We will not tolerate booze on the dig site. A drink after digging hours in camp is fine, but anyone getting out of control will be asked to leave. We will not allow dogs, guns, drugs or fireworks. Neither will the landowners, and remember, we are all guests of the landowners, and are expected to behave as such. All volunteers will be responsible for their own food. We will have a large tank of potable water available.

Volunteers on this dig understand and agree that they are visitors to this ranch through the Tate Museum. The goal is to collect a tyrannosaur skeleton. There will be no personal collecting. Through our agreement with the landowners, fossils exposed and collected are property of the Tate Museum. As such, any thievery of fossils will be prosecuted.

Volunteers will need to register as Tate Museum volunteers, which involves a simple application form. For those folks who can make it to the Tate Museum, we ask that you come in and fill out paperwork. Otherwise we can email you the forms to fill out, and either mail or fax them back. Please have the form in to us two weeks before you plan to volunteer. Volunteers will need to be approved by our staff before they can join us in the field. Volunteers will also be required to sign a photo waiver allowing the Tate Museum and Casper College to use photos of them at the dig site for display, publicity, or whatever. There is also a chance that a TV show and a book may result from this dig. Volunteers may be asked to sign some sort of release for these folks. Volunteers do not need to have any experience or tools. We supply training and tools.

### Getting there

The site is about 2½ hours from Casper, or an hour north of Lusk in eastern Wyoming. To get to the site, volunteers will be asked to drive their own vehicles. The access is via good county (dirt) roads (unless they are wet, then it can be wicked slick). The last half-mile is easily drivable in a high clearance vehicle. I personally would drive my Toyota Camry on it, gently, but I can be pretty rough on vehicles.

Maps to the site will be available at the Tate Museum (or by email) shortly before the dig starts.

### What to expect

Honestly, we don't know what we will find. This is, of course, part of the excitement. The digging will be in soft shale that is mostly dug with hand tools. Bones tend to be harder than the rock so are generally easy enough to find. Still, even a big animal like *T. rex* has many many small bones, so we do not want to dig too fast. The bones in shale also have a tendency to be cracked and just waiting to fall apart. The bones will actually be more delicate than Dee the Mammoth's bones. Slow and careful is the rule. A complete *T. rex* has approximately 300 bones. We are guessing we have found maybe 30 bones so far. If the fossil gods smile on us,



# Rules and Regulations

- minimum age 14
- camping situation... NO campfires (cook stoves OK)
- bring your own food
- porta-potties available
- discourage smoking
- No dogs
- No guns
- No fireworks
- No out of control drunkenness
- No personal collecting (thieves will be prosecuted)
- No littering
- No cattle abuse
- Must sign up as a Tate Museum volunteer (this helps in the insurance end of things)

there could still be hundreds of bones out there, from delicate skull bones to large leg bones to the puny bones at the tip of the tail. Or, we may find nothing else...

We will be setting up a large tent just off the site that will give us shelter, especially during lunch breaks, or if folks just get too hot. It can get hot out there and it will get windy. I do not trust shelters set up over quarries in Wyoming wind, so the quarry will probably not be sheltered. Sun and wind will be issues. Bothersome insects are minimal as are rattlesnakes. (The rancher say he's got 'em; we've seen maybe one in the six years we've been going there). I imagine we will find one or two scorpions... they seem to enjoy living in black shales of Niobrara County. June is tick season. I am certified in Wilderness First Aid and will have a First Aid kit. This doesn't mean I want to use either the training or the kit.

As of last summer, Verizon has no reception at the site, Alltel (AT&T) might have reception and we don't know yet about Union.

The Tate Museum will be providing tools and guidance for digging, and water for the masses.

#### **What to bring**

- Sun protection
- Water bottles (to avoid excess trash we discourage bottled water)
- Food and drinks
- Something to kneel on (knee pads, better yet a gardening pad)
- Digging tools if you've got your own
- All the camping and cooking gear you might need
- Flashlight (for those camping)
- A First Aid Kit is a good thing to have (BandAids etc.), but we will have one available
- A full tank of gas after leaving Lusk

#### **Hotels in Lusk**

- Covered Wagon Hotel 307-334-2836
- Best Western Pioneer 307-334-2640
- Rawhide Motel 307-334-2440
- Town House Motel 307-334-2376
- Trail Motel 307-334-2430

There is also a campground in Lusk that has tent spaces, but last year the bathrooms and showers were being remodeled and out of commission. I don't know what to expect this year:

- Prairie View Campground 307-334-3174
- BJ's Campground 307-334-2314 is for RV's only

There are a number of eateries in Lusk, including what USA Today (and me) decided was Wyoming's best pizza.

#### **Visitor Days**

For those wanting to see the site and the work, but not willing or able to help out, we will be doing public tours to the site on Saturdays as long as we are out there. These will meet at the rest area on highway 20 three miles west of Lusk. A Tate Museum representative will meet interested folks there at 10 O'Clock each Saturday and lead groups out to the site. It is about an hour north of there. In order to reduce traffic, we would like to have folks carpool out from the rest area if possible. As I said above, many vehicles can drive right to the site, but low clearance vehicles may have to park about a half mile away. At this point, folks who cannot walk the half mile for whatever reason can request a ride from the Tate staff. (After June 16<sup>th</sup>, please call the Tate Museum to see if the tours and the dig are still going on).

The ranch is private property and a working sheep and cattle ranch. The Tate Museum and the ranchers ask that the public not just show up to visit, but do so on organized visiting days.

#### **Contact us**

The Tate Geological Museum's phone number is 307-268-2447. The web site is <http://www.caspercollege.edu/tate/index.html> My email address is [jpcavigelli@caspercollege.edu](mailto:jpcavigelli@caspercollege.edu) and I can hopefully answer any questions that may arise, as long as you ask me before June 13<sup>th</sup>. After June 13<sup>th</sup> contact Museum Director Deanna Schaff at 307-268-2077, or by email at [dschaff@caspercollege.edu](mailto:dschaff@caspercollege.edu).

The Tate Museum fax number is 307-268-3308. If you send us a fax, please call to let us know one is coming in... I am not terribly fax-savvy.

And now we have a new web site for Lee Rex which will have regular updates as we have new tales to tell: <http://www.tatetrex.com>



Tate Geological Museum - Casper College  
Application for Volunteer Service to help on Lee Rex dig

Date: \_\_\_\_\_

Name: \_\_\_\_\_  
Last First MI

Address: \_\_\_\_\_  
Street City State Zip

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Age: (if over 30, measured in decades is fine) \_\_\_\_\_

Please list any relevant experience: \_\_\_\_\_

How did you hear about the Lee Rex dig? \_\_\_\_\_

**Personal info:** (This information is deemed private and is for our own information only)

Please list any aspects of your medical history that we should be aware of, including rare blood type, respiratory or heart problems, asthma, allergies, epilepsy etc.

Have you ever been convicted of a misdemeanor or felony? Yes No If yes, please explain including date, location and disposition.

Are you required to register as a sex offender? Yes No If yes, in what State were you convicted, the date of conviction and for what charge? Further explanation may be requested.

In case of emergency contact: \_\_\_\_\_

I, \_\_\_\_\_, have read the three pages of Lee Rex Dig Info and I understand the conditions outlined therein. I certify that I am physically and mentally fit for the work to be done. I have filled out this form honestly to the best of my ability.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Signature of parent or guardian if under 18 \_\_\_\_\_ Date \_\_\_\_\_



1/3 local paper  
1/3 folks we know  
1/3 other  
heard from someone else  
social media  
came as part of a group

# Daily Volunteer Sign ups

## Lee Rex volunteer registration Saturday 18 June 2011

<u>Name</u>	<u>Phone Number</u>	<u>email</u>	<u>camping?</u>
1. <u>Steve</u>			
2. <u>Dwaine</u> <u>Bobette Johnston</u>			
3. <u>Linda Wilson</u>			
4. <u>Larry Fletcher</u> <del>Larry Fletcher</del>			<u>No</u>
5. <u>Dallas Smith</u>	<u>217-3151</u>	<u>me82604@live</u>	<u>yes</u>
6. <u>Leona Smith</u>	<u>247-3151</u>	<u>11</u>	<u>11</u>
7. <u>Eddie</u>	<u>303-859-6219</u>		<u>✓</u>
8. <u>Angie</u>	<u>267-5711</u>		
9. <u>Brian</u>	<u>259-9926</u>		
10. <u>Ann Berg</u>			<u>✓</u>
11. <u>Lesley Kozola</u>	<u>251-7796</u>		<u>✓</u>
12. <u>Terry Austin</u>			<u>✓</u>
13. <u>Julia</u>			<u>✓</u>
14. <u>Katrina Miller</u>			<u>✓</u>
15. <del>Steve</del>			<u>✓</u>
16. <del>Shirley Bass</del> <u>Ralph Edwards</u>			<u>✓</u>
17. <u>Lynne Swank</u> <del>Tim Fox</del> <u>Bruce Thiel</u> + <u>Mary Jo</u>			<u>no</u> <u>✓</u>



# Other things to organize

- Outhouses
- Fencing
- Supplies
- Carrying specimen
- Hired a cook for paid staff and a few regular volunteers

**Keep landowners up to date**

# Start the dig... 13 June 2011



Photo by Helen Hoff





# “I’m scared I will ruin a bone.”

- Here are some tools and here is how you use them
- Bones can be brittle but they sound and look different than the surrounding shale
- Dig slowly... Better to do a good job slowly than a bad job fastly
- If you do find something, let us know









Photo by Helen Hoff













Thanks to Pepper Tank

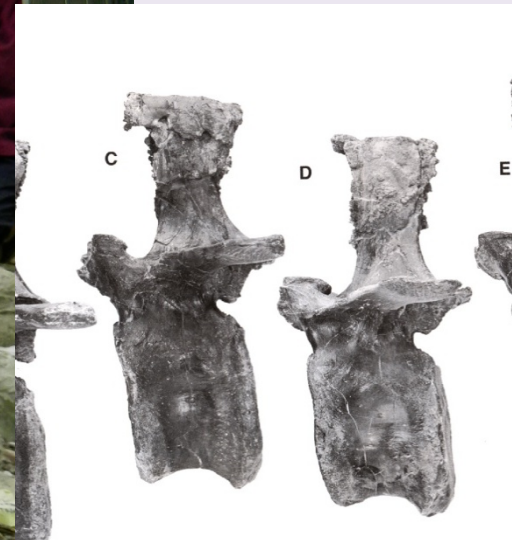




Thanks to  
True Companies-  
Black Hills  
Trucking

12 July 2011





# Helping Hints

- Enthusiastic Press Release
- Have everything ready when you announce that you need volunteers
- Sign up sheets for daily help
- Let folks know what to expect early on
- Having two of us in charge was helpful, but also a challenge
- Lots of meetings
- Yes, Big Charismatic Critters are an easy sell, but fossils and paleontology are in general.



# Thanks

- Landowners... Bart and Gaelyn Byrd and Lee and Vicki Brown
- Colleagues... especially Kent Sundell, my co-leader in these digs
- The students we hired
- The companies who donated stuff and time
- **The 200 plus volunteers**
- Casper College staff from various offices

