

SeisNOTES

A Newsletter From



ECHO GEOPHYSICAL
CORPORATION
INTEGRITY - STABILITY - INNOVATION

Vol. 12, Number 1

The Undiscovered ECHO: Proprietary Seismic Processing

By: *Alli Bannias, Marketing
Coordinator*

ECHO Geophysical Corporation knows the recipe for building a successful Processing Center. The first ingredient is a passion for seismic. ECHO was founded in 1986 by a group of seismic data analysts with a goal to provide quality and affordable processing services. Even years later, dependable, high quality data processing is the most important “ingredient” in ECHO’s business model. ECHO’s well known proprietary data pool programs have helped to enhance the processing side of business. ECHO reprocesses each survey contributed to the programs and makes that processed version available for licensing. Client feedback on both data pool and proprietary processing has helped contribute to the quality of ECHO’s processing services and the expertise of its analysts. Data pool seismic processing products are sometimes the first experience client’s may have with ECHO’s processing, and participants sometimes pre-judge ECHO’s processing capabilities based on the generic flow applied to data pool seismic. “Please do not evaluate us based on that perception. Clients should try our meticulous philosophy for proprietary work. It is second to none,” states ECHO President,



*Rick Steineck, Senior Processing Geophysicist at ECHO,
celebrated his 17th year at ECHO in May, 2010*

John Jancik.

ECHO analysts not only have data pool reprocessing experience, but also extensive worldwide experience, having processed seismic data in 44 countries on 6 different continents, onshore and offshore. ECHO provides both 2D and 3D time processing and 2D pre-stack depth imaging services using a combination of different hardware systems, standard software platforms, and proprietary software and methodologies. ECHO’s proprietary procedures include: Freqenstein™ (frequency enhancement), EPP™ (pore pressure prediction), ARBE™ (anisotropy detection), and WepferianAVO™ (specialized AVO volumes).

ECHO’s Staff Geophysicist Bill Wepfer, Ph.D. has overseen the development of several proprietary processing software programs, and his most recent development is the Freqenstein™ method. “While our previous superwhitening product, FreqEnhance™, enjoyed some success, our clients wanted to see even more detail in their seismic. To that end, Freqenstein™ was developed for even better spectral content. Clients find that Freqenstein™ fits the bill nicely, with excellent reflector detail without the ‘overdriven’ look of some competing products,” says Wepfer of the Freqenstein™ method.

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Undiscovered ECHO.....Continued from Page 1

ECHO has invested in state of the art hardware, proprietary software, and an expert staff of Geophysicists and Geophysical Analysts. The average processing analyst at ECHO has more than 20 years of experience. Randy Jackson, Senior Processing Geophysicist, who has more than 30 years of processing experience and was a co-founder of ECHO, states that the key to excellent processing services and longevity in the industry is working with other employees that share the same passion. "We all enjoy what we do and enjoy working with geophysicists that enjoy what they do as well," says Jackson. Analysts at ECHO have excellent resources, mainly each other. Senior Geophysical Analyst Bob Vite was trained by Wepfer and says of his experience, "Learning from someone like Bill has been instrumental in my development as a processor. His knowledge, experience, and teaching abilities are second to none."

ECHO's analysts and their close relationships to customers are the secret ingredients to success. To be on the cutting edge of performance, technology and service, you must have people willing to work hard to achieve that goal. Manager of Technical Marketing Cormac Dorsey says, "Clients consistently tell me that ECHO's geophysicists do a better job of communicating with them until the project is complete. They appreciate this communication and the great results that it leads to." It starts with catering to our clients' needs with improved software services and creative problem solving abilities. Bob Vite agrees, "I think one thing that sets

us apart from competitors is our willingness to go the extra mile in terms of customer service. We are determined to do whatever it takes to ensure the client is pleased with the final product."

Open and active client communication is a key component in ECHO's philosophy. ECHO's Vice President of Operations, Janet McGuire, says, "One overall service problem I've noticed in some processing centers is a tendency for the processor to have his or her nose buried so deeply in a processing project that he/she neglects (or, astoundingly, evades) client input. We do not allow that to happen at ECHO. We are committed to helping clients reach their goals by encompassing their knowledge and expertise into our processing efforts." ECHO Analysts are available to address all questions and concerns, and in turn, they remain in constant contact with customers by providing regular project updates. ECHO believes that, no matter a project's size, it is important to always cater to client needs and exceed their expectations. "I don't subscribe to the 'get-it-out-the-door' philosophy," John Jancik adds. "That attitude is the ultimate lose-lose scenario."

Wepfer is a proponent of the teamwork approach between ECHO and clients and says, "ECHO can give you great processing, reasonable turn-around, and excellent pricing. Plus, we work closely with you so you're successful in your exploration efforts. Your exploration triumphs will make you a loyal client!" High level customer service and conscientious turn-around efforts allow

customers to make critical exploration decisions quickly and are imperative to earning repeat business. "You look at our incredible senior staff that includes Rick Steineck, Bill Wepfer, Kris Brault, and Randy Jackson, and you see individuals who are still passionate about seismic processing," adds John Jancik. After 24 years in business, surviving the ups and downs of the industry, ECHO has become adaptable to changes and is aware of the importance of putting people first, both clients and staff.

ECHO's recipe for success is about getting back to the basics: offering a quality product for a reasonable price, employing hardworking professionals who have a passion for processing, and providing courteous and attentive service. Here is an added bonus: The high standards set for our processing services result in a level of confidence that allows ECHO to offer a 100% satisfaction guarantee on all its proprietary processing services!

CONTACT ECHO:

Cormac Dorsey:
cdorsey@echogeo.com
John Jancik:
jjancik@echogeo.com
Janet McGuire:
jm McGuire@echogeo.com
PHONE: 303.893.9014

Client Testimonial:

"ECHO's 3-D Permian Basin program has been the bedrock of our interpretation effort. Their reprocessed versions of this data have provided us with overlooked opportunities that have turned into several discoveries."
 - Bill Mueller, Antlers Exploration, LLC, Midland, Texas

Who's Who at ECHO:

Jeanne Deak, Geophysical Technician

By: Steve Gardiner, SeisNotes Editor

Jeanne Deak's name is on thousands of packages that leave the ECHO Geophysical Corporation office each year. What is more impressive is the quality of work that Jeanne puts inside each of those packages.

"Her work is seen by hundreds of clients across the United States," said ECHO President John Jancik. "We could not ask for a better person in her position. Her work shows incredible accuracy, and she is a team player. Her goal is perfection, and several times she has volunteered to work extended overtime to reduce our backlog. She is one of the unsung heroes of ECHO Geophysical."

Deak is head of the media duplication department at ECHO. When new data pool surveys arrive, she and colleague Jesse Ruch are responsible for quality control of the processed data. Deak is in constant communication with both clients and ECHO processors, making sure she keeps track of the flow of surveys through the office. Her status report documents the progress of each survey using a process she has developed to ensure that each survey is in pristine loading condition and double-checked for accuracy. She then burns a DVD with the survey and loading information before she and Ruch cross-check each other's work.

With the data ready for distribution, she consults participation lists to make sure the right clients are getting the proper information, checking transmittals against shipping labels and the distribution list. "We have a



Jeanne Deak (pictured with her dog Ranger)

checks-and-balances procedure in place for every step," she said.

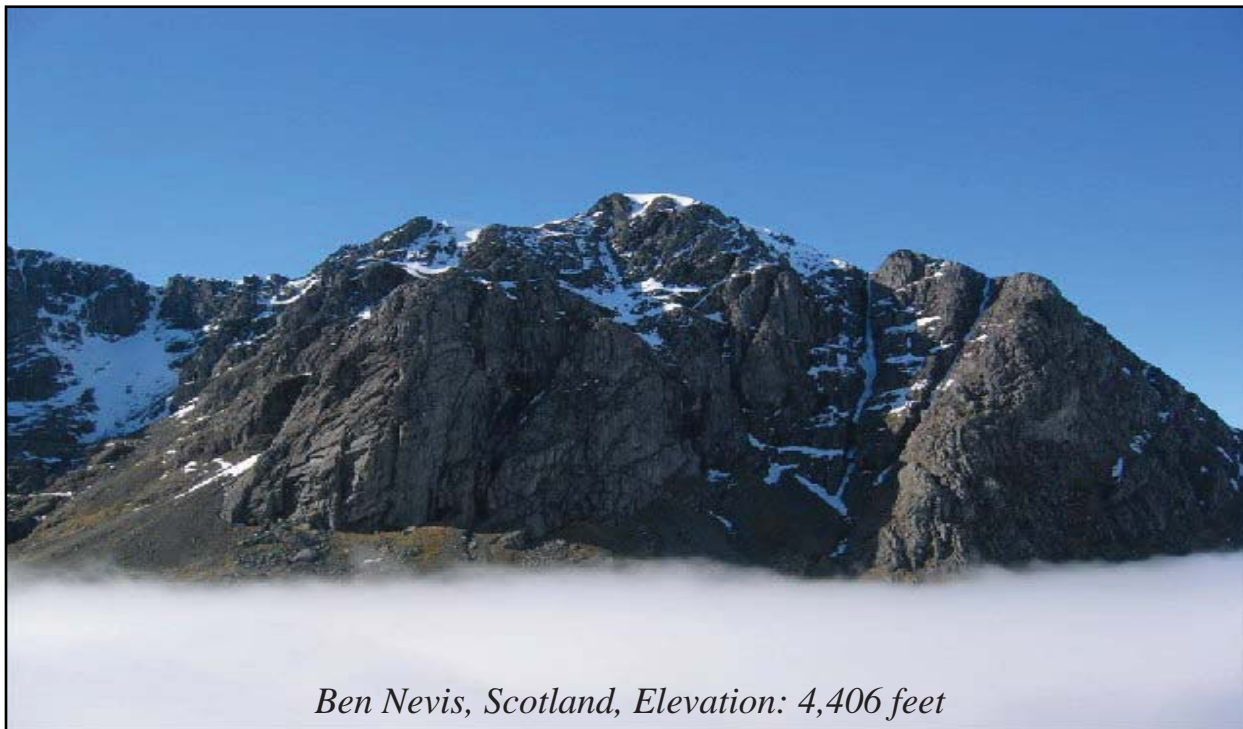
When new surveys arrive at ECHO, Deak uses a similar process but adds a step by mapping the live coverage of the original processed data, overlaying the field data to make sure they match and there are no apparent no-permit zones. Deak added, "Our goal is always to avoid mistakes, but to err is human, and when mistakes are made, I create a new procedure to ensure that the mistake is not

made again."

"This job brings out the best in me," Deak said. "It involves organization, problem solving, and high accuracy. These are my strengths, and I love to use them in my job."

As a Senior Geophysical Technician, Deak, has a diverse background and says, "Career planning was not one of my strong points." She worked in a health food store, worked and skied at Copper Mountain, finished her

Taking Highpointing International



Ben Nevis, Scotland, Elevation: 4,406 feet

Edited By: Steve Gardiner

Once the highpointing “bug” gets ahold of people, they often seek new horizons to promote their sport. The “bug” has bitten ECHO based Team HighPoint once again.

With most of their 50 For Tibet project completed, Team HighPoint expanded their adventures last summer by attempting to climb Chimborazo, at 20,840 feet the highpoint of Ecuador in South America.

This summer, a new goal is in view—the British Isles and the five highpoints of England, Scotland, Wales, Ireland, and Northern Ireland.

“I am very excited about the opportunity to take the highpointing concept across the Atlantic Ocean to the British Isles,” said ECHO President John Jancik. “While

the mountains there are not very high, (I live at a higher elevation than all five of those summits), these peaks have their own characters and challenges.”

Taking advantage of the long daylight hours of late June, Jancik and SeisNotes editor Steve Gardiner will attempt the five peaks in an eleven day period beginning with a flight to Glasgow, Scotland. From there they will drive north to Fort Williams to climb Ben Nevis, at 4,406 feet the highpoint of Scotland. Known for heavy fog, rain, and snow at any time of year, Ben Nevis climbers can expect only one clear day out of five, so the team will be prepared for wet weather and limited visibility on the mountain.

From there, Jancik and Gardiner will drive south past Glasgow and Carlisle into the Lake District of Northern England. Scafell Pike (3,210 feet), a six hour climb, is the highpoint of England and overlooks many of the beautiful lakes that give the region its name. Team HighPoint will leave from Wasdale to make the climb.

“When I was a junior in college, I arranged an exchange program to study English literature at the University of London,” Gardiner said. “I visited the Lake District to see the homeland of the poets Keats, Shelley, and Wordsworth, but at that time, I hadn’t climbed any mountains, so I never dreamed that three decades later I would get the

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Taking Highpointing International.....Continued from Page 4

chance to go back and climb some of the beautiful mountains I saw in the Lake District and North Wales.”

After Scafell Pike, Team HighPoint will again head south through Manchester and into North Wales to try Mt. Snowdon (3,560 feet). Jancik and Gardiner will use one of the routes from Pen-y-pass near Llanberis for the ascent of the highpoint of Wales. “I remember the mountains and lakes of Wales as some of the most beautiful I’ve seen,” Gardiner added. “The people were very friendly, and I can’t wait to travel through this small, scenic country again.”

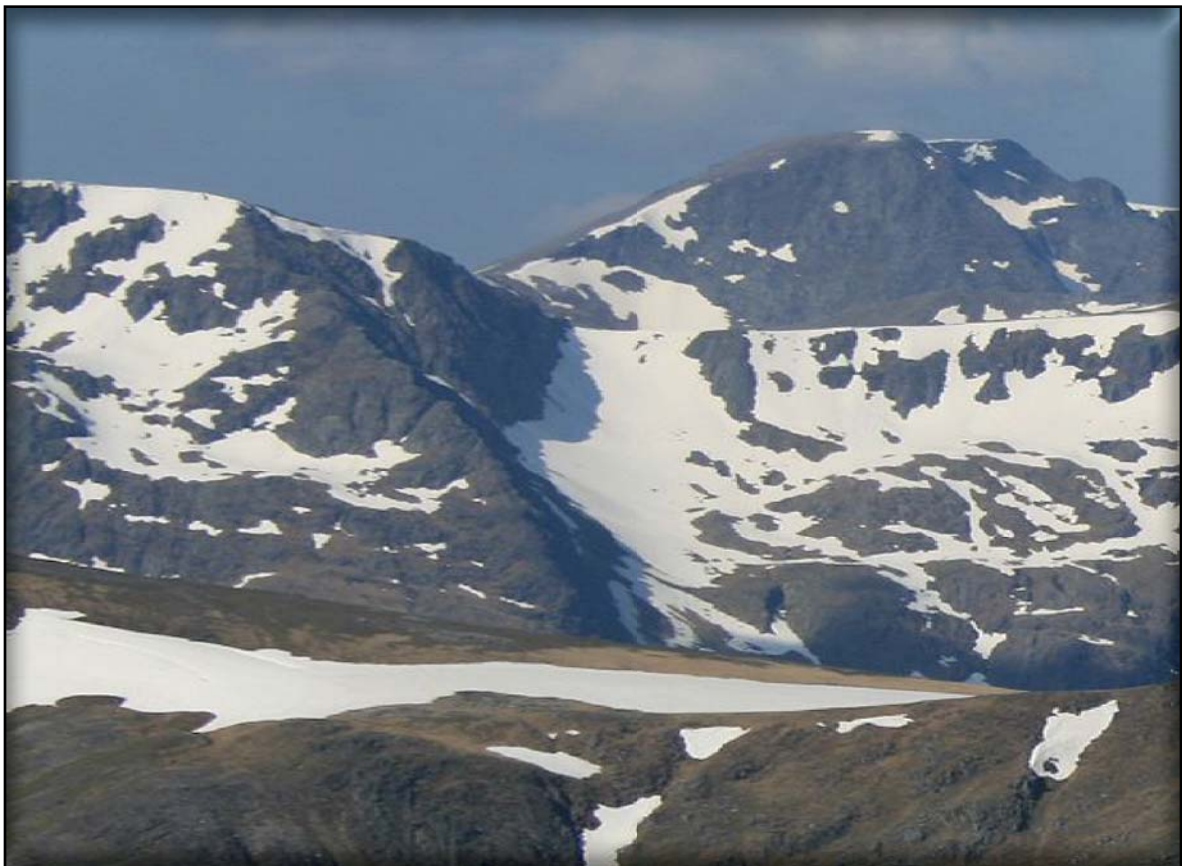
After Snowdon, the pair will travel across the Irish Sea heading for the east coast of Northern Ireland. Slieve Donard, at 2,789 feet, is Northern Ireland’s highpoint and is located 30 miles south of Belfast. The climb of this peak will feature a hike through heavily forested land near the base, opening onto a barren summit dome with views across the Irish Sea to Wales and England.

The final peak will require a drive across Ireland to the southwest corner. The 3,414-foot Carrauntoohil in County Kerry is Ireland’s highpoint. Jancik and Gardiner

will attempt it using the Devil’s Ladder route.

For Jancik, reaching the highpoints of the British Isles is important, but he has other reasons for making the trip. “One of the best side benefits of traveling the world in the quest for reaching highpoints and mountain summits in general is the opportunity to meet people from different cultures. Having reached the top of Africa (Mt. Kilimanjaro - 19,340 feet) and Australia (Mt. Kosciuszko - 7,310 feet) I can unequivocally say that the people I met along the way were highlights.”

WWW.50FORTIBET.ORG



Mt. Snowdon, Wales (3,560 Feet)

If you could meet anyone...

Which two “living” persons would you most like to meet?

We asked each of ECHO’s employees this question and in the process, got a chance to learn a little bit more about our co-workers. If you find yourself curious about someone, try asking them this question; you might be suprised at the answer!

Val Steineck:

Margaret Thatcher and
Pope Benedict XVI

Thanos Hunt:

President Barack Obama
and Fiona Apple

Steve Gardiner:

Morgan Freeman and
Ed Viesturs (Mountaineer)

Rick Steineck:

Dick Cheney and
Thomas Sowell (American
economist, philosopher,
political commentator, social
critic and author)

Randy Jackson:

Clint Eastwood and
Osama Bin Laden

Nichol Santilli:

Margaret Thatcher
and Neil Peart (drummer for
the band Rush)

Monica Martin:

Kelly Ripa’s Chef and Kelly
Ripa’s Personal Trainer

Matt Romero:

Warren Buffett and
Mark Cuban

Linda Ostermann:

Garth Brooks and
Tiger Woods

Kris Brault:

Warren Buffet and
Jay Leno

Kirsten Nielsen:

Julia Roberts and
President Barack Obama

Kent Johnson:

Warren Buffet and
Buzz Aldrin

John Jancik:

Bono and
Nelson Mandela

Jessica Morse:

Oprah and Steve Carell

Jesse Ruch:

Pope Benedict XVI and
President Barack Obama

Jeanne Deak:

Michelle Obama and
Mark O’Connor (fiddler
extraordinaire)

Cormac Dorsey:

Warren Buffett and
Stephen Hawking (British
theoretical physicist)

Gary Corhn:

Sean William Scott (Actor)
and Kofi Annan (Ghanaian
diplomat)

Janet McGuire:

Dr. W. Kenneth Cauthen
(Liberal Christian Theologian)
and Geddy Lee (of the band
Rush)

Cindy Early:

The Dalai Lama and
Angela Merkel (Chancellor of
Germany)

Chelsie Gifford:

Lady Gaga and
Conan O’Brien

Bob Vite:

Warren Buffett and
Michael Jordan

Bill Wepfer:

Jesus Christ and
Al Mohler (Christian
Evangelist)

Amy Stackhouse:

Alice Cooper and Cher

Alli Bannias:

Brett Favre and
Suzy Kolber (Sportscaster
for ESPN)

Jeanne Deak.....Continued from Page 3

B.A. Degree in psychology at Metro State College, lived in a stone farmhouse in Ireland where she worked as a graphic artist, and worked nine years at Mid-Continent Research for Education and Learning in Denver as a graphic artist and desktop publisher. She came to ECHO five-and-a-half years ago. "I took some creative writing classes," she said. "I love to write and have some natural editing ability. My work at Mid-Continent allowed me to hone those skills. I have a creative side and a scientific side, and my work at ECHO lets me use them both."

"Jeanne's knowledge of seismic processing helps her interact very well with the technical staff," Jancik said. "With the nature of technology today, her job is not an easy one, and she has taken the associated information and grown with it. She has refined this position."

She recently purchased a home, an experience that leaves her feeling like a "tethered hot air balloon," but she has plans. She built a red and white barn behind her house so she could raise chickens for eggs. Her next plans, which will require some work with the zoning commission, will be to add pygmy goats and eventually bees.

Deak enjoys music and dancing. "I wanted to play the piano, so I worked on that. In Ireland, I decided I wanted to learn violin, so I found a good teacher here. I love to dance, too, especially country western and tango." She also spends time outdoors in all seasons. She enjoys cross country skiing, snowshoeing, and cycling.

Vice President of Operations Janet McGuire said, "A co-worker and friend suggested we consider interviewing Jeanne when a tech position be-

came available at ECHO. We did, and I was very impressed with her from the beginning. After hiring her, it didn't take long for us to see how special she was. She had not only the intelligence to learn the technical part of the job, but she also had an extraordinary organizational ability. She fit into the position like a glove and was very quickly promoted to team supervisor. She has taken the position to a higher level than I ever dreamed it could be taken, and I am grateful to her beyond measure for making my job much easier. I never have to worry about anything under Jeanne's control. She handles all of her tasks with accuracy and efficiency and is very respectful and tactful while reminding me of my own!"

Contact Jeanne Deak:

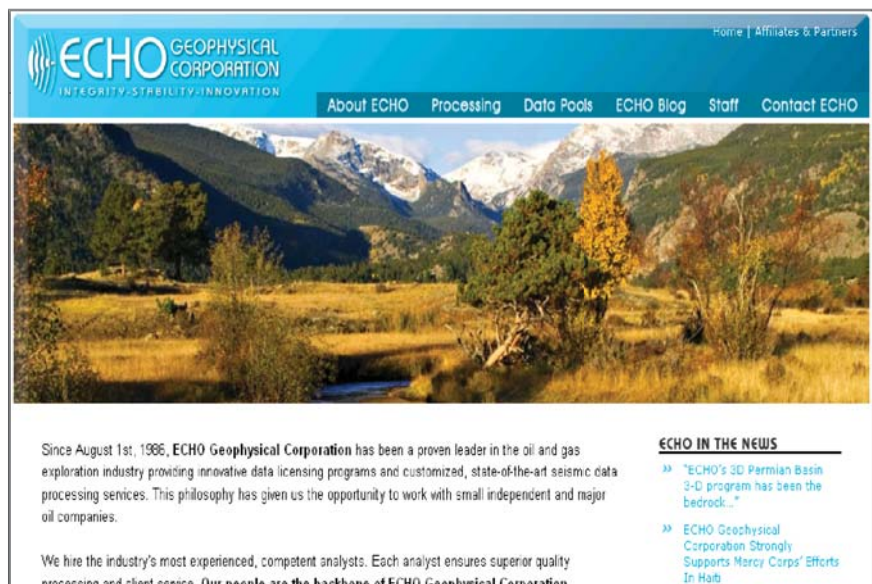
Phone: 303.893.9014

E-Mail: jdeak@echogeo.com

New ECHO Website to launch June 2010

By: *Alli Bannias,*
Marketing Coordinator

ECHO Geophysical is launching a new website. The website will enable clients to view program flyers, interactive marketing maps, request information easily, read the SeisNotes newsletter on-line, and keep informed on newsworthy information through ECHO's blog. ECHO's website address will remain the same. The new website launch is planned for June 2010.



Since August 1st, 1986, ECHO Geophysical Corporation has been a proven leader in the oil and gas exploration industry providing innovative data licensing programs and customized, state-of-the-art seismic data processing services. This philosophy has given us the opportunity to work with small independent and major oil companies.

We hire the industry's most experienced, competent analysts. Each analyst ensures superior quality processing and client service. **Our people are the backbone of ECHO Geophysical Corporation.**

ECHO IN THE NEWS

- » "ECHO's 3D Permian Basin 3-D program has been the bedrock..."
- » ECHO Geophysical Corporation Strongly Supports Mercy Corps' Efforts In Haiti

Sneak Preview: WWW.ECHOGEO.COM

Team HighPoint Reaches 48th State Highpoint

Edited By: Steve Gardiner

Team HighPoint reached its 48th state highpoint on Sunday, May 23rd, by hiking to the summit of Magazine Mountain in Arkansas.

ECHO President John Jancik, Senior Geophysical Analyst David Baker, Manager of Technical Marketing Cormac Dorsey, and SeisNotes Editor Steve Gardiner combined three trails in Magazine Mountain State Park to create a five-mile loop to reach the 2,753-foot summit. The three-hour hike, in 90 degree heat and high humidity, featured several expansive vistas from the mountains' 200 plus foot high sandstone bluffs and frequent visits from the healthy population of local ticks.



Hiking through the forest on the plateau-like top of Magazine Mountain, Arkansas - Photo by John A. Jancik

Team HighPoint represents the 50 For Tibet project which is raising awareness of and funding for Tibetan artists, musicians, and writers through the Rowell Fund for Tibet.

The Arkansas Courier ran an extensive and detailed editorial about the Magazine Mountain hike encouraging readers to support the 50 For Tibet project.

“Newspaper coverage of our efforts to support the Tibetan cause in an unlikely place like Arkansas reminded us of the importance of our efforts,” Jancik said.

Each of the highpoints has provided team members with unique stories. “There are always good things about every highpoint,” Baker said. “We have enjoyed good views, fun

times, and good people.”

Dorsey was on his third highpoint trip with the group and said, “I have done some climbing on challenging peaks and find it interesting that I got to go with 50 For Tibet on the highpoints of Louisiana, Missouri, and Arkansas.”

With 48 highpoints reached, Team HighPoint has raised \$165,000 and climbed over 76,000 feet of elevation during the project. Only Wyoming and Alaska remain and team members are discussing a possible ascent of Gannett Peak in Wyoming in August.

To learn more about Team HighPoint and the 50 For Tibet project, see the website at: www.50ForTibet.org or email John Jancik at: echojj@aol.com.



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ECHO Geophysical Corporation
990 South Broadway, Suite 220
Denver, Colorado 80209
Phone: 303.893.9014
Fax: 303.893.4050
Email: denver@echogeo.com
WWW.ECHOGEO.COM

Editor: Steve Gardiner
segardiner@rocketmail.com
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