

CREWES NEWS

The Consortium for Research in Elastic Wave Exploration Seismology

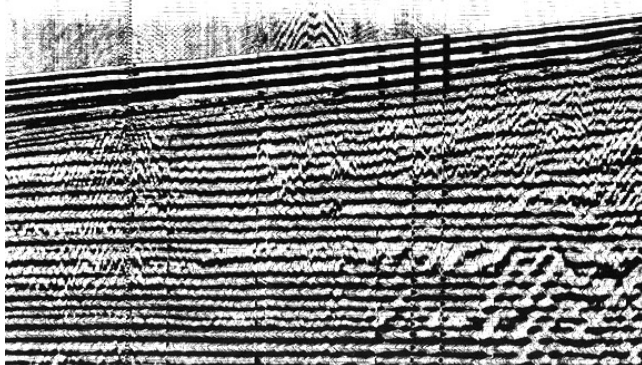
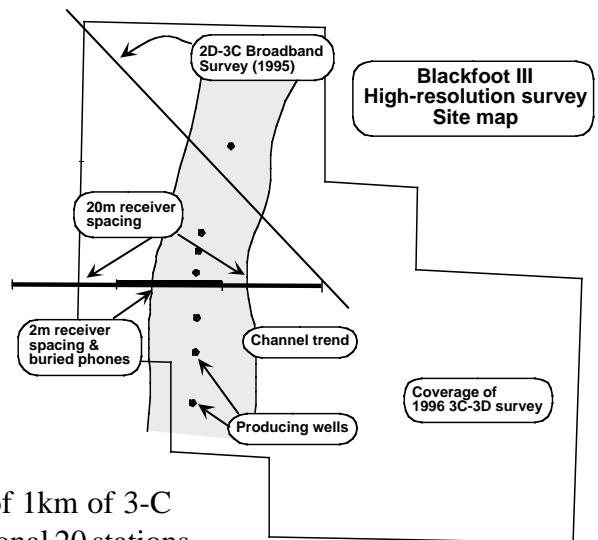
Blackfoot III: High-resolution 3C-2D survey acquisition complete



Data acquisition on our third seismic experiment in the Blackfoot field is now complete. Survey setup, which included 151 shot holes, 651 3-C geophones and 55km of cable, took place last week. Shooting started Saturday, November 1 at 19:00 and finished Sunday morning at 03:00.

A five-level VSP tool was in place in the 09-08 well as the surface seismic data were being recorded. The tool was positioned at four different depths during the survey, covering 150m at around 1500m depth, and 150m near the surface. After the seismic acquisition was complete, a dipole sonic was acquired in the same well.

The high-resolution portion of the survey consisted of 1km of 3-C phones at 2m spacing. Along this length were an additional 20 stations with 3-C geophones buried at 6, 12, and 18m. Because of possible slumping in the holes, we were quite concerned about losing some of these buried geophones, but we are pleased to report our recovery rate was 100% -- not a single phone lost.



A hydrophone cable with 45 receivers was deployed in a 100m hole. These phones were recording during the entire surface acquisition.

We would like to thank PanCanadian, Boyd Petrosearch, and Veritas DGC Land for their help and cooperation in planning and conducting this survey.

Shown is part of a raw shot record, vertical component, from the high-resolution portion of the survey.

1997 Sponsor's Meeting Agenda

The Lodge at Kananaskis - December 3 - 5

Wednesday, December 3

7:00 - 9:00 PM Registration, Reception

Thursday, December 4

8:00 AM Registration (continued)

8:30 AM Technical Session

12:00 Noon Lunch Break

1:00 PM Technical Session

5:00 PM Wine and Cheese

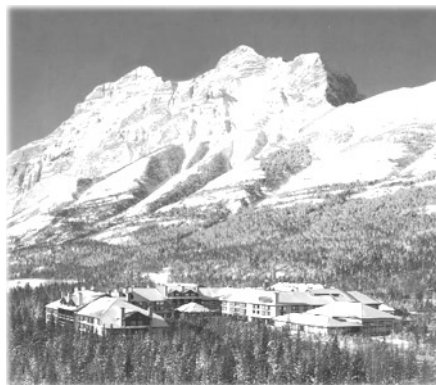
Friday, November 5

8:30 AM Technical Session

12:00 Noon Lunch Break

1:00 PM Technical Session

4:00 PM Wine and Cheese



Presentation Schedule

Thursday, December 4 - Morning

INTRODUCTION AND OVERVIEW

ACQUISITION - New Blackfoot survey, vertical cables, buried geophone survey, new 3-C geophone and cable design

SOFTWARE REVIEW AND TUTORIAL - Logedit, Logsec, Synth

Thursday, December 4 - Afternoon

PROCESSING - Statics, deconvolution, migration

CASE HISTORIES - Various multi-component examples

POSTER SESSION

Friday, December 5 - Morning

PROCESSING - Nonstationary filters, deconvolution, migration

CASE HISTORIES - Various multi-component examples

Friday, December 5 - Afternoon

BLACKFOOT 3C-3D SURVEY - 3C-3D VSP, elastic parameters, geostatistical analysis

BLACKFOOT III: HIGH RESOLUTION 3C-2D SURVEY

Accommodation reminder

Please make reservations as required, by calling The Lodge at Kananaskis directly at (403) 591-6240. Rooms are being held (until November 5) for the nights of December 3 and 4. The special group rate for the rooms is \$121.00 CAD per night, single or double occupancy, plus service and tax. This rate will apply as long as rooms are available. To qualify for the quoted rate, identify yourself as being with The University of Calgary, Department of Geology & Geophysics - CREWES Project.

Student Profile - Nasser Hamarbitan

Nasser graduated from Elfateh University in Libya in 1982 with a B.Sc. in Geophysical Engineering. From June of 1982 until July of 1986 he worked with Western Geophysical. In 1987 and 1988 Nasser joined Seismograph Service Limited, working in Libya and England. In July 1988, he started working for North African Geophysical Exploration Co. (NAGECO) as party manager of a seismic crew.

In January 1991 Nasser first came to Calgary, for a training course with Western Geophysical and Mustagh Resources Co. In January 1992, he returned to Libya and was working with NAGECO until 1996.



Nasser came to the University of Calgary to study for a Master's degree in Geophysics in 1996. He has been working with Dr. Gary Margrave for over one year now, as part of a course-based Masters program. His first paper in the CREWES Research Report, in 1996 was entitled *An Investigation of the Free Surface Effect*.

Nasser is currently working on the attenuation effect for different cases using Osiris modelling software.

SEG Convention Note

CREWES was once again an active participant in the 1997 SEG convention in Dallas. We gave a total of ten presentations and had a booth in the consortium area. Thanks to everyone who stopped by our booth, and we hope to see many of you at our Sponsors Meeting!

Making contact....

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