



# FIRESTONE 5D INTERPOLATION 3D PRE-STACK TIME MIGRATION (PSTM) MULTI-CLIENT 3D SURVEY; 409 SQ mi

## **ACQUISITION PARAMETERS**

Acquisition Date: Receiver Interval:	May 2012 – February 2013 220 ft
Source Interval:	220 ft (245.9 ft diagonal)
Receiver Line Spacing:	880 ft
Source Line Spacing:	1320 ft
Geophones:	6, 10 Hz linear array
Record Length:	5000 ms
Sample Interval:	2 ms
Multiplicity (Nominal):	130
Recorded Bin Size:	110 x 110 feet
Source Type:	Mixed source:
	3 Vibrators with 2 sweeps x 12 s,
	6-120 Hz, linear sweep
	2.2# dynamite at 30 ft
Maximum Offset:	19382 ft
Template:	20L x 156 stations per line, roll one line
Receiver Orientation:	West - East
Surface Area:	409 mi <sup>2</sup>
Acquired By:	Tidelands Geophysical

### PRE PROCESSING Processed by Arcis in Calgary – Estimated October 2014

- Input Preprocessed data from Firestone 3D
- Output 5D pre-processed data no demultiple (CDP sorted)

• 5D Interpolation

### TIME MIGRATION and POST-STACK PROCESSING

- Anisotropic Kirchhoff pre-stack curved ray migration (input-output grids 110x110 ft)
- Output raw migrated gathers with NMO
- · Mute and stack

- Output raw migration
- Spectral whitening
- Apply filter and scale
- Noise reduction and footprint attenuation
- Output processed migration

### AVAILABLE PSTM DELIVERABLES

• 5D Preprocessed data - no demultiple

• 5D Raw PSTM migration

- 5D Pre-stack time migrated CDP gathers with NMO
- 5D Processed PSTM migration
- Data processing final report

The processing flow and parameters published herein are the anticipated flow and parameters for the survey and TGS will use commercially reasonable efforts to follow this flow and parameterization. However, the foregoing notwithstanding, TGS reserves the right to modify the processing flow and parameters as needed to adjust for timing, testing, and new technologies.