

Borehole Seismic Survey

Field Report

100m Offset Source

Well #4

UNIS



A check shot survey was acquired at the request of UNIS in Well #4 at Nordlysstasjonen on Svalbard. This was required as part of a larger project, including a second check shot and formation monitoring. A dynamite source was used and one good shot per level was recorded. Data recording began at a depth of 600m and was completed at a depth of 100m. No problems occurred with the Read Well Services equipment during the acquisition of the data.

Survey Details

Survey Date	5 & 6 February 2010
Survey Type	100m Offset Source
Job Reference	1084
Country	Norway
Client	UNIS
Well Name	Well #4
Well Location East	518881.17
Well Location North	8681102.35
Rig Name	Nordlysstasjonen
Depth Units	Metres
Survey Datum	MSL
Well Reference level	DF
Elevation of Reference level w.r.t datum	8.05m
Total Depth	600m
Casing Details	60mm
Wireline contractor	Store Norske Spitsbergen
Observer	Anja Reinholdtsen
Client Representative	Helge Johansen, UIB
Acquisition System	GSP
Geophone System	Single ESR
Geophone Type	Gimballed
Geophone Sample Interval	1 millisecond
Record Length	6 second
Zero Point	Gimbal Cartridge



Source Type	Dynamite 0.5Kg
Observer at Source	Anja Reinholdtsen
Source Elevation	4.9m above msl
Source Easting	519024.68
Source Northing	8681161.36
External Reference Delay	0 ms
Source Reference Channel	7
Predicted Fire Channel	7
Fire Control	Relay A
Source Environment	Snow/Tundra
Weathering Velocity	2000m/s
Weathering Depth	70m
Elevation Velocity	2000m/s
Reference Pick	Positive Break
Geophone Pick	Negative Break
Source Monitor	Oyo Geospace Land
	Geophone
Source Monitor Easting	518954.04
Source Monitor Northing	8681121.85
Source Monitor Elevation	5.9m above msl