ABSTRACT

INCREASING THE QUALITY OF STACKING USING *COMMON REFLECTION SURFACE* (CRS) *STACK* METHOD ON THE 2D MARINE DATA

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Stacking process by using zero offset stack method of data seismic multicoverage was a process must be done in data processing seismic. Stacking process will raise its quality ratio of noise signals. Stacking conventionally as CMP stack, NMO/DMO stack is not able to successfully reflectors on a having the slope of certain and curvature. So dikembangkanlah method common reflection surface (CRS) stack. This method able to deal with the slope on reflectors with input several operators stack proper .In this study , the crs stack apply to data 2d marine tarakan with the intention of getting cross section stack the optimal with the parameters dip and certain aperture,

The process stacking 2d crs was conducted using operator stacking 2d CRS consisting of 3 parameter namely α, R_{NIP}, R_N. Parameter α is emergence angle from the line ZO, R_{NIP} and R_N is two parameter that deals with waves normal and waves NIP. Value dip search of the aperture most optimal of 60 , CDP search spacing 5, time search spacing 20 ms , max dip for search 0.5. While parameter of the aperture used in this data the time 0 used minimum 160 and time 3000 used aperture maximum 70 m.

To compare excellence method CRS stack, the results of a cross section CRS stack will be compared with conventional cross section. From the results of the comparison, reflectors in cross section crs stack looks continue more than conventional method. In addition in cross section CRS stack also shows clearer geological structures .

Keyword : Stacking, Conventional Method, CRS Stack