



## WEEKLY PRODUCTION SUMMARY

**Week Ending 13 February 2005**

**Client**                **Apache Energy Ltd**

**Survey**               **SUE 3D GAP04B Gippsland Basin Seismic Project**

**Vessel**                **M/V *Western Trident***

### **General**

Survey operations were unimpeded by the presence of the Pacific Titan and time-sharing operations went smoothly. Neither vessel interfered with one another and both vessels completed their respective surveys without interruption. Downtime has been limited to reshoots. M/V Western Trident completed the inshore shallow water segment of the survey without incident.

All precautionary measures were taken prior to the vessel entering water depths of less than 20 metres, including additional floatation added to the trailing equipment and the OMS Pioneer on station directly ahead of Trident during the shallow water lines.

Great care was taken to avoid the vessel or any component of the trailing seismic equipment enter the Ninety Mile Beach Marine National Park. A close observation watch was placed on all RGPS receivers assigned to the head buoys and tailbuoys during close passes to the nature reserve.

### **Production**

Good production had been achieved. Minimal final infill was required. Data quality remained good for the completion of the survey. Significant low frequency – high amplitude ground roll and side reflections from the shoals were observed on most records as the vessel began acquiring lines closer to shore.

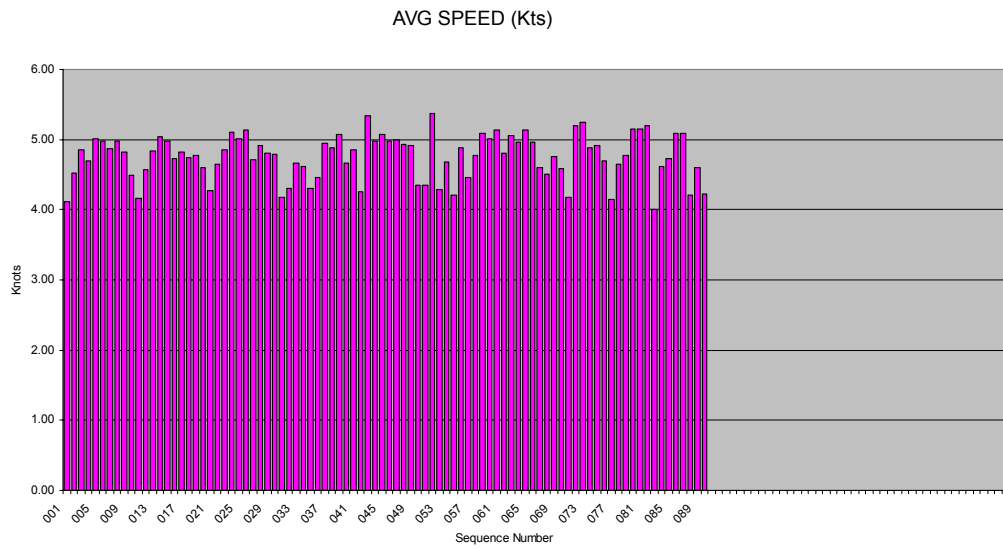
### **Technical**

Technical problems have been limited to navigation system hangups caused by the loss of system synchronisation during completion of shallow water operations. The navigation personnel were attempting to maximise acquisition in the shallow zone by continuing to record data as the vessel was turning off line to head out into deeper water.

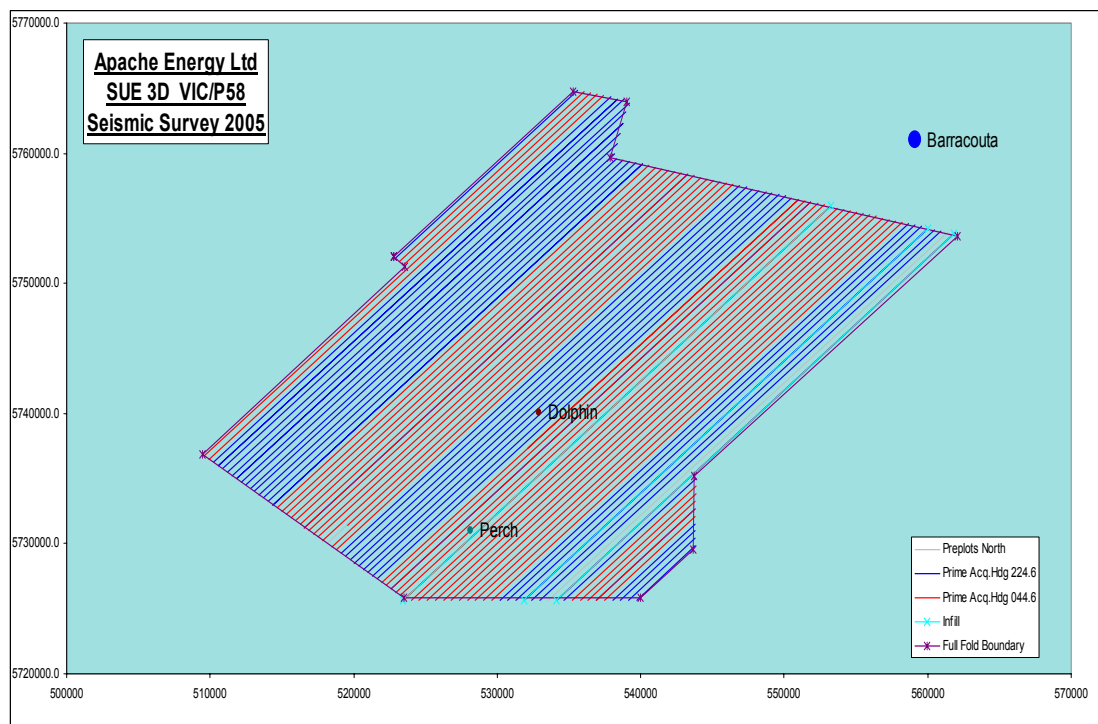
The loss of system synchronisation between Trinav \ Spectra and MSX systems was a result of high crossline velocity as the vessel turned off line. Two sequences were affected in this manner and navigation processing was unable to use the last 30 shot points from sequences 067 and 071.

### **Weather & Sea Conditions**

Generally unsettled weather has been observed during the week with predominantly South-westerly winds varying in strength from 15- 20 knots to 25 to 30 knots generating choppy sea and moderate swell.

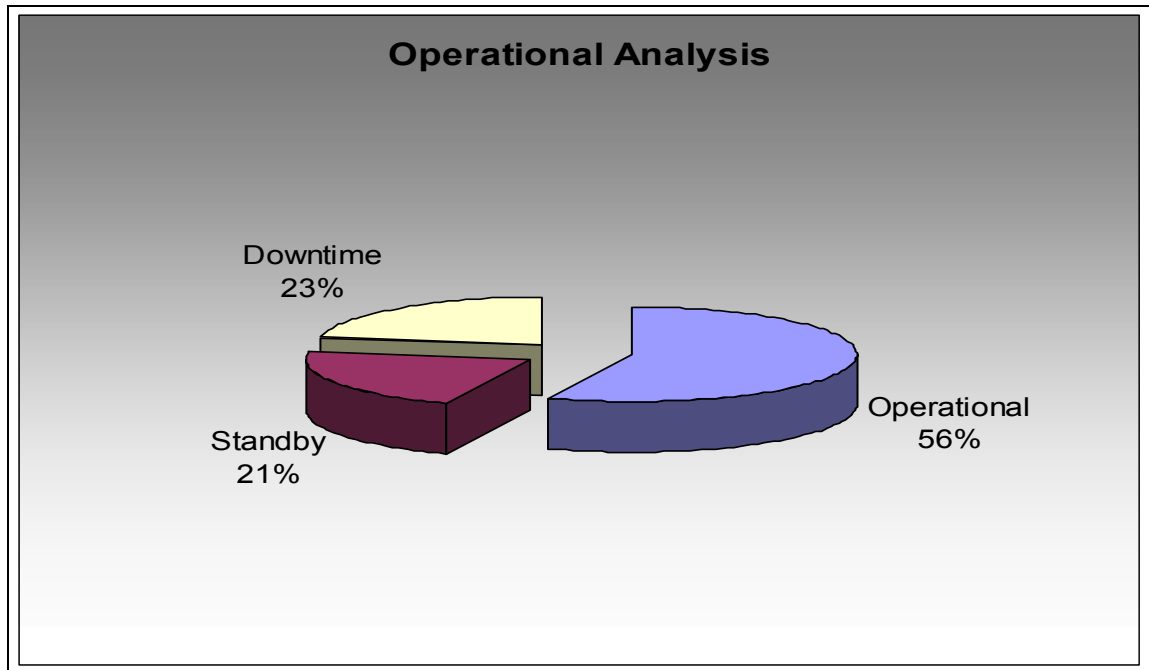


**Fig.1 Shooting Speed – Valid to Seq 090**

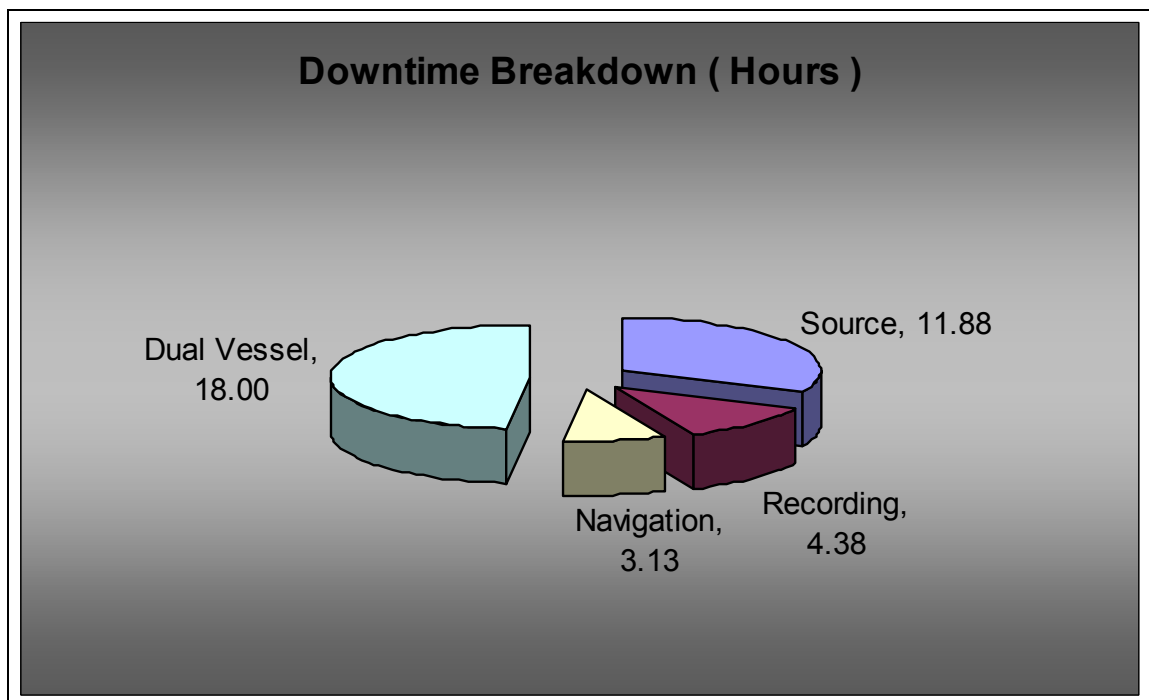


Health, Safety & Environment			
Description		Week	Survey
Incidents	Near Miss or Accident	0	0
	First Aid Case	0	0
	Medical Treatment	0	0
	Restricted Work Case	0	0
	Lost Time Incidents	0	1
	Medevac	0	0
Events	Risk Identification Reports	25	68
	Small Boat Launches	6	18
	Helicopter Movement	0	2
	MOB Drill	0	0
	Fire Drill	0	2
	Emergency Boat Drill	0	1
	Safety Meeting	1	1
	Safety Committee Meeting	0	1
	HSE presentations	0	0
	Toolbox Meeting	6	11
	Safety Induction tour	0	1
	Medivac Response Drill	1	1
Totals	Marine Crew man day	140	580
	Seismic Crew man day	140	580
	Other Crew man day	91	382
	Total Man Hours	8904	36000
	Fuel Consumed ( M³ )	193	619

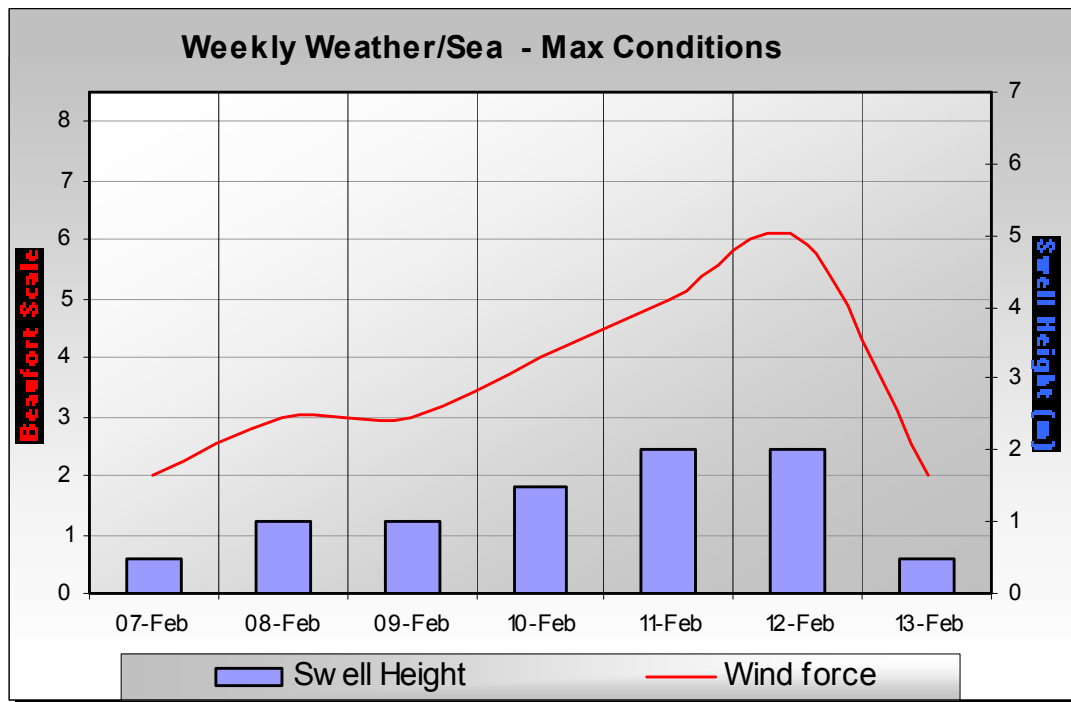
**Fig. 3 Weekly HSE Statistics**



**Fig. 4 Survey Timing**



**Fig.5 Weekly Downtime Analysis**



**Fig. 6 Wind & Sea State During the Week**

Weekly Total		
Date	Prime Sail CMP Kms	Infill Kms
07-Feb	1863.56	0.00
08-Feb	1442.10	159.00
09-Feb	534.60	648.60
10-Feb	1099.80	0.00
11-Feb	398.700	0.00
12-Feb	183.30	879.00
13-Feb	0.00	0.00
<b>Weekly Total</b>	<b>5522.063</b>	<b>1686.6000</b>
<b>Survey Total</b>	<b>45326.663</b>	<b>3084.9000</b>
<b>Forecast Completion Date</b>	<b>Pending Undershoot Completion</b>	

**Fig.7 Weekly Production**



## **Undershoot Mobilisation**

Technical problems have delayed the startup of the dual vessel undershoot involving Western Trident and Pacific Titan. Problems relating to the dual vessel link system have been ongoing since early Feb 13 when the two vessels linked the systems together to commence the undershoot. Western Trident TriNav and Spectra navigation systems appeared to be working normally but problems relating to transfer of shotpoint numbers and header information have plagued the mobilisation.

## **Summary**

The survey has been completed to 99.37 % of prime coverage acquired with 6.72 % infill. Time-sharing with Pacific Titan had no impact on survey operations as line change times and shooting cycles were complimentary. Both vessels continued survey operations uninterrupted and with only one sequence affecting Pacific Titan when the vessel first arrived in the area.

Acquisition in shallow water close inshore has been carried out in relative safety once procedures and precautionary measures were put in place to assure the safety of the vessel and the trailing equipment. Workboat operations to carry out in-water maintenance have been successful.

Data quality has been good. Streamer average rms noise values were within specifications in most cases. Ground roll effect and side reflections from the shoals had been observed on most records during shallow water acquisition.

## **Weekly Production Summary**

No of sequences acquired	26
Prime lines	22
Infill lines	4
Partial lines acquired	0
Partial reshoot lines acquired	8
Full lines remaining	0
Prime sail CMP Km Acquired	5522.063
Full Fold Square Km acquired ( Prime )	128.996
Infill sail CMP km acquired	1686.600
Final Infill percentage of survey	6.72 %
( Single Vessel Operations )	