

DAILY OPERATIONS REPORT # 15

ANTARES 3D MARINE SEISMIC SURVEY

Contractor:	PGS	Vessel:	Orient Explorer
Woodside Reps:	Ken Haig, Stephen Burt	Party Chief:	Stephen Beer
WEL project Manager:	Ralph Weiss	Date:	Friday 31st Oct 2003

1. PRODUCTION SUMMARY

No Production

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

		<u>Line Type Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	385.91250
Total :	0.00000	100	385.91250

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	389.26875
Total :	0.00000	100	389.26875

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	385.91250
Total :	0.00000	100	385.91250

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	3,087.30000
Total :	0.00000	100	3,087.30000

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	77.18250
Total :	0.00000	100	77.18250

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	363.63750
Total :	0.00000	100	363.63750

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	2,909.10000
Total :	0.00000	100	2,909.10000

		<u>Line Charge Analysis</u>	
	Period	(%)	Survey
Prime	0.00000	0	72.72750
Total :	0.00000	100	72.72750

Time Activity Analysis				
	Period	(%)	Survey	(%)
Recording	0.000	0	50.617	15
Line Change	0.000	0	24.050	7
Extended L/C	0.000	0	1.500	0
Weather	5.750	24	51.750	15
Instrument	0.000	0	0.217	0
Source	0.000	0	5.200	1
Ship	0.000	0	0.500	0
Travel t/f Port	0.000	0	4.250	1
Port/Crew Change	18.250	76	71.917	21
Contractor	0.000	0	3.000	1
Mobilisation	0.000	0	136.000	39
Total :	24.000	100	349.000	100

Time Cause/Reason Analysis				
	Period	(%)	Survey	(%)
Production	0.000	0	74.667	21
Weather	5.750	24	51.750	15
Equip.Fail	0.000	0	5.917	2
MOB/DeMOB	0.000	0	140.250	40
Wside.Reg	9.117	38	35.950	10
Crew Change	9.133	38	35.967	10
PGS	0.000	0	3.000	1
Survey Shape	0.000	0	1.500	0
Total :	24.000	100	349.000	100

Time Charge Analysis				
	Period	(%)	Survey	(%)
Prime	0.000	0	50.617	15
Operations	0.000	0	24.050	7
Standby	14.867	62	89.200	26
Contractor	9.133	38	44.883	13
Mob/Demob	0.000	0	140.250	40
Total :	24.000	100	349.000	100

3. TIME SUMMARY

October 31st, 2003

Start	End	Hours	Description / Comments	Charge
00:00	09:07	9.117	Wside.Reg (Port/Crew Change)	Standby
			Continue deployment of streamers after scheduled crew change. Woodside share of crew change time for deployment after Port call for crew change.	
09:07	18:15	9.133	Crew Change (Port Call)	Contractor
			Complete deployment of all equipment - in a position to commence and continue acquisition if weather had been favourable.	
18:15	24:00	5.750	Weather (Weather)	Standby
			Go on to weather standby - sea and swell 3-5 metres, winds variable and gusting to 40 knots at times.	
Total : 24.000				

Chase/Supply Vessel Status:

Southern Salvor on site. Perfect Lady moved to Port Fairy during rough sea conditions.

Crew Change Time Breakdown

00:00 – 09:07 deploying after crew change Woodside time

09:07 – 18:15 deploying after crew change PGS time.

At this time if conditions had allowed we could have commenced acquisition.

Comments/Problems:

Continue and complete deployment of streamers after crew change.

Forced to go on to weather standby at 18:15 local time. Estimated time of start of production to close out the 50/50 crew change split.

This was agreed with the PC. Following this time the vessel went on to full weather standby.

Monthly Billing

I have received a monthly invoice from the PC. Checked the times, (standby, extended line changes, crew change 50/50 time split, weather and production totals) and we do agree. I have signed it and shall forward to you via fax and e-mail later in the morning.

The times referred are highlighted in the above production times. I shall also send in the full monthly time breakdown and production.

General Weather Comments:

Winds 10 knots at the start of the day increasing to 25 by mid-morning, deteriorating further to 35 knots by noon with 3-4 metre seas. Unable to deploy arrays due to large swell making conditions quite risky on the back deck. Two tail-buoys crossed during the turn on to line and the vessel had to maintain a steady heading till they cleared and moved to their correct offset and towing location. No damage eventuated due to the crossing of the streamers.

Close of the day and local time updates.

Update at 01:15 - winds 30 knots SSW, sea and swell 4 metres. Very poor depth control.

Update at 03:00 – winds 25-30 knots, sea and swell 3-4 metres. Noise on streamer at 8.5 to 9 metres average 15µbars. Noise bursts above 20µbars over 20% of the channels with a 6Hz filter applied. Poor depth control

Update at 06:00 – winds 25 knots, sea and swell 3-4 metres. Noise on streamer at 8.5 metres average 18µbars. Vessel remains on weather standby – source has not been deployed since earlier this morning (Friday). Poor depth control in rough seas

Update at 08:00 – winds have eased to 18-20 knots sea and swell would appear to be slowly improving at this time. Turning to head on to line and check noise levels and cable depth control

Update 09:15 – heading to line 1192 – shall deploy guns en route – start time approx 14:30 hours if weather remains stable.

SEQ	COMMENTS
013 Dir 125°	W03ANT1012 P1 SP 1001 – 2836 Incomplete Data Tape Nos: 35651 - 35653 Missed SP 2102-2153 due to an on-line hangup with the Spectra. Rebooted the system and continued recording the line to completion. The portion missed will have to be reshot on PGS account at a convenient time later in the survey. Acceptable swell noise, balance and control on line. Some random bursts of swell noise observed. Weather: Winds E 8 knots Knots, Sea and Swell: ESE up to 3.0 metres at times near the end of the line Noise at SOL: 7-8µB, EOL: 7-8µB (6Hz lo-cut filter applied) Water Depth: SOL: 32.1m, EOL: 53.6m Feather at SOL: -1.6°, EOL: 1.0°, Max: 1.0° Streamer Depth: 7.5 metres acceptable depth control. Bird 4 on streamer 4 lost communications for complete line. To be replaced at first opportunity. Noisy Traces: Nil logged – random swell bursts throughout the line. Gun Volume SOL: 2500, EOL: 2500. Good pressure and control. Gun edits logged: – 5 spread errors above 2ms SP 1224, 1957, 2484, 2834, 2840 Timing errors above 1.5ms: NIL Missed Shots: Data tape 35653 not to be processed. SP 2102-2153 not recorded due to Syntrak

Comments:

No accidents or lost time incidents reported. No spillage of oil or loss of containment overboard. Whale watches have been maintained - no sightings.

HSE Items:

Nothing To Report

Description	Day	Month	Survey
Incidents			
Near Miss Incident (NMI)	0	0	0
First Aid Case (FAC)	0	0	0
Medical Treatment Case (MTC)	0	0	0
Restricted Work Case (RWC)	0	0	0
Fatality (FT)	0	0	0
Lost time Injury (LTI)	0	0	0
Oil Spill (OS)	0	0	0
Illness/Ailment (IA)	0	0	0
Environmental Incident (EI)	0	0	0
Hazard Report (HR)	0	0	0
Positive Observation (PO)	0	2	2
Equipment Loss/Damage (ELD)	0	0	0
Non work related illness (NWR)	0	1	1
Events			
Stop Cards Issued ()	0	6	6
Small Boat Launches ()	0	2	2
Helicopter Landing/Takeoff (HL)	0	0	0
MOB Drill (MD)	0	0	0
Fire Drill (FD)	0	0	0
Emergency Boat /Towing Drill (EBD)	0	7	7
Safety Meeting (SM)	0	2	2
HSE Induction-Inspection (IT)	0	3	3
Safety Committee Meeting (SCM)	0	0	0
HSE Audits/Inspections/Safety Checks (HSE)	0	5	5
Toolbox Meeting/Debrief (TB)	0	11	11
Cetacean Sighting (CS)	0	0	0
Bunker and Resupply (BR)	0	0	0
Oil Spill Drill (OR)	0	0	0
Personnel transfer at sea (PT)	0	0	0
Totals			
No. Marine Crew	35	521	521
No. Seismic Crew	22	318	318
No. Contractors	3	45	45
No. Lost Time Injuries	0	0	0
Exposure Hours *	720	10608	10608
Small Boat Hours (Decimal hours)	0.00	4.48	4.48
Small Boat Exposure Hours (Dec. hours)	0.00	17.93	17.93
Fuel Usage (Cubic Metres)	7	151	151

* Exposure hours calculated at 12hrs per day per person.

Navigation report submitted by Stephen Burt for Friday 31st Oct

Navigation General:

General:

Results from the SPRINT verification in Perth were received today and are favourable, will investigate the missing data from the P2-94 on Sequence 004. Sequence 004 and 005 were actually shot during the worst weather period to date and will provide a good bench mark for future lines shot in similar conditions.

Spot Bathy checks have also been favourable to date; differences reported in yesterday message between the three datasets have been partly attributed to the different data used. The Flaxman and scouting surveys were shot relative to LAT whilst this survey is relative to MSL, the MSL correction factor is around 0.7m., and therefore the ties have been good.

NTBP Sequences:

001

Regards,

Ken Haig and Stephen Burt

Woodside Energy Limited Client Representatives

Phone: ++47 6751 5154 Office Direct

Fax: ++47 6751 5156 Recording Room

e-mail: oriclient@pgs.com