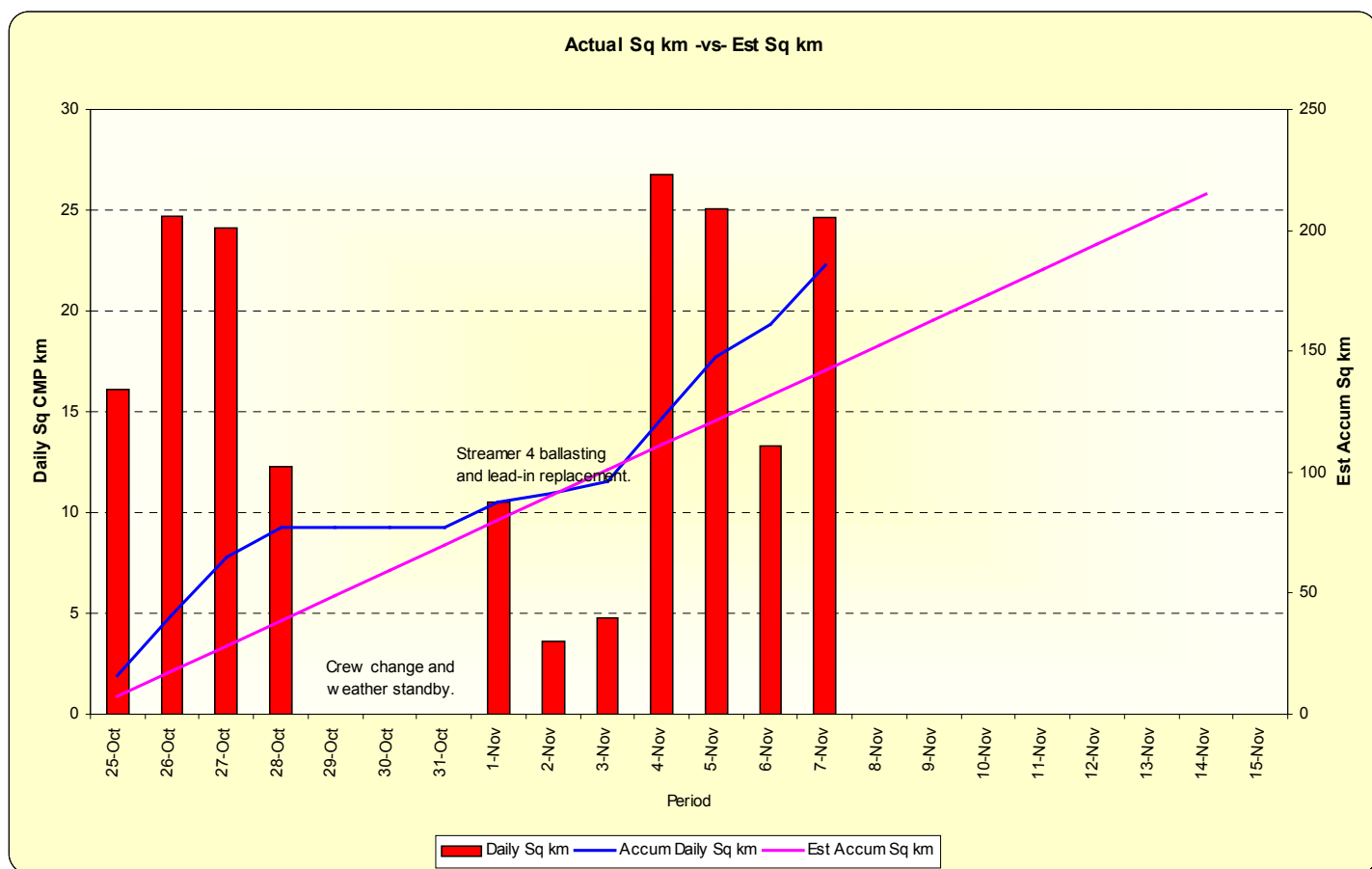


DAILY OPERATIONS REPORT # 22

ANTARES 3D MARINE SEISMIC SURVEY

Contractor:	PGS	Vessel:	Orient Explorer
Woodside Reps:	Ken Haig, Stephen Burt	Party Chief:	E. Jettestad
WEL project Manager:	Ralph Weiss	Date:	Friday 07th Nov 2003



ESTIMATED COMPLETION 10TH-11TH NOVEMBER

1. PRODUCTION SUMMARY

November 7th, 2003

Seq	Line Name	Hdg	Line Type	Line Status	FcSP	LcSP	Ch Sailed
028	WO3ANT-1196I2	305.0	Infill	Completed	2076	893	22.20000
029	WO3ANT-1060P1	125.0	Prime	Incomplete	1231	2944	32.13750
030	WO3ANT-1204P1	305.0	Prime	Completed	2544	893	30.97500
031	WO3ANT-1068P1	125.0	Prime	Completed	1001	2944	36.45000
032	WO3ANT-1212P1	305.0	Prime	End of Day	2525	2453	1.36875
Total 11/7/2003 :							123.13125

2. STATISTICAL ANALYSIS (DECIMAL HOURS)

<u>Line Type Analysis</u>				
	Period	(%)	Survey	(%)
Prime	100.93125	82	862.42500	93
Infill	22.20000	18	66.76875	7
Infill (% of Prime)	22	-	8	-
Total :	123.13125	100	929.19375	100

<u>Line Charge Analysis</u>				
<u>Sailed Kms</u>	Period	(%)	Survey	(%)
Prime	105.24375	83	870.09375	92
Infill	22.20000	17	68.51250	7
Infill (% of Prime)	21	-	8	-
N/C Reshoot	0.00000	0	2.83125	0
Total :	127.44375	100	941.43750	100

<u>Charged Sailed Kms</u>	Period	(%)	Survey	(%)
Prime	100.93125	82	862.42500	93
Infill	22.20000	18	66.76875	7
Infill (% of Prime)	22	-	8	-
Total :	123.13125	100	929.19375	100

<u>CMP Kms</u>	Period	(%)	Survey	(%)
Prime	807.45000	82	6,899.40000	93
Infill	177.60000	18	534.15000	7
Infill (% of Prime)	22	-	8	-
Total :	985.05000	100	7,433.55000	100

<u>Square Kms</u>	Period	(%)	Survey	(%)
Prime	20.18625	82	172.48500	93
Infill	4.44000	18	13.35375	7
Infill (% of Prime)	22	-	8	-
Total :	24.62625	100	185.83875	100

<u>Fullfold Sailed Kms</u>	Period	(%)	Survey	(%)
Prime	94.85625	82	811.80000	93
Infill	20.17500	18	62.71875	7
Infill (% of Prime)	21	-	8	-
Total :	115.03125	100	874.51875	100

<u>Fullfold CMP Kms</u>	Period	(%)	Survey	(%)
Prime	758.85000	82	6,494.40000	93
Infill	161.40000	18	501.75000	7
Infill (% of Prime)	21	-	8	-
Total :	920.25000	100	6,996.15000	100

<u>Fullfold Square Kms</u>	Period	(%)	Survey	(%)
Prime	18.97125	82	162.36000	93
Infill	4.03500	18	12.54375	7
Infill (% of Prime)	21	-	8	-
Total :	23.00625	100	174.90375	100

Time Activity Analysis

	Period	(%)	Survey	(%)
Recording	12.967	54	112.617	22
Line Change	5.733	24	52.000	10
Extended L/C	0.000	0	1.900	0
Weather	0.000	0	65.733	13
Instrument	0.567	2	3.817	1
Source	0.000	0	5.200	1
Streamer	0.000	0	47.867	9
Ship	0.000	0	0.500	0
Travel t/f Port	0.000	0	4.250	1
Port/Crew Change	0.000	0	71.917	14
Contractor	0.000	0	3.000	1
Mobilisation	0.000	0	136.000	26
Infill L/C	2.017	8	3.800	1
Infill	2.717	11	8.400	2
Total :	24.000	100	517.000	100

Time Cause/Reason Analysis

	Period	(%)	Survey	(%)
Production	18.700	78	164.617	32
Infill	4.733	20	12.200	2
Weather	0.000	0	65.733	13
Equip.Fail	0.567	2	57.383	11
MOB/DeMOB	0.000	0	140.250	27
Wside.Reg	0.000	0	35.950	7
Crew Change	0.000	0	35.967	7
PGS	0.000	0	3.000	1
Survey Shape	0.000	0	1.900	0
Total :	24.000	100	517.000	100

Time Charge Analysis

	Period	(%)	Survey	(%)
Prime	12.967	54	112.617	22
Operations	5.733	24	52.000	10
Standby	0.000	0	103.583	20
Contractor	0.567	2	96.350	19
Mob/Demob	0.000	0	140.250	27
Infill/Stby	4.733	20	12.200	2
Total :	24.000	100	517.000	100

3. TIME SUMMARY

November 7th, 2003

Start	End	Hours	Description / Comments	Charge
00:00	02:43	2.717	Infill (Infill) Progressive infill pass.	Infill/Stby
02:43	04:44	2.017	Infill (Infill L/C) Line change after recording infill	Infill/Stby
04:44	05:18	0.567	Equip.Fail (Instrument)	Contractor
05:18	09:24	4.100	Miss SP 1001-1230 due to tape deck and Syntrak problems at the SOL - continue down the line. Tape reel nos: 35719-35721 Seq 029 : Line WO3ANT-1060P1	Prime
09:24	11:18	1.900	Missed SP 1001-1230 due to tape deck and Syntrak recording problems. Production (Line Change)	Operations
11:18	15:14	3.933	Seq 030 : Line WO3ANT-1204P1	Prime
15:14	17:09	1.917	Production (Line Change)	Operations
17:09	21:54	4.750	Seq 031 : Line WO3ANT-1068P1	Prime
21:54	23:49	1.917	Production (Line Change)	Operations
23:49	24:00	0.183	Seq 032 : Line WO3ANT-1212P1	Prime
	Total :	24.000		

Chase/Supply Vessel Status:

Southern Salvor and Perfect Lady on site.

Comments/Problems:

Continue acquisition in fair weather and sea conditions. Cable balance and control has been acceptable throughout the day. Source performance, volume, pressure and timing has been maintained on all lines. Extraction errors on streamer 3 were clear but now we are seeing a similar random occurrence on streamer 4. This was checked via work-boat on Thursday afternoon, and 2 modules were replaced but the problem remains. Shall continue to monitor.

Other problems now appear to be tape deck related which have been the cause of additional lost data causing reshoots. Shots were lost on sequence 29 which will require another reshoot.

All visible square holes in the supplied coverage plots are due to instrument and tape problems and will be reshot on PGS account and time.

Fishing Activity

A few shark fishing vessels have been sighted but these have been outside of the survey area and have not been any problem during survey operations.

Semac-1

Still on location near Port Campbell.

Cetacean Report:

No sightings reported.

Weather Comments:

Swell continues up to 3.5m running inshore. Winds 5-12 knots.

Close of the day and local time updates.

Continuing on line 1212 fair weather conditions – large side swell

SEQ	COMMENTS
Seq 029 Dir 125°	W03ANT1060 P1 SP 2544 -893 Incomplete – Syntrak and Tape Errors at SOL Data Tape Nos 35719 - 35724 Weather: Winds 5-12 knots , Sea and Swell: 2-3 metres at times. Noise at SOL: 5-6µB, EOL: 5-6µB (6Hz lo-cut filter applied) Low level tugging on all streamers observed in large side swell Water Depth: SOL: 36.6m, EOL: 53.1m Feather at SOL: -1.8°, EOL : 1.8°, Max: 1.8 ° Streamer Depth: 8 metres - acceptable. Noisy Channel: 300, 123, 299, 312 Gun Volume SOL: 2500 , EOL: 2500. Extraction Errors Streamer 4: 1368, 1433, 1676, 1695, 2862 Timing errors above 1.5ms and Spread Errors: SP 1038, 1374,2076,2182,2346,2418 No Data Records: 1255, 1257, 1259, 1602, 1797, 2388, 2390, 2391 (to be checked and confirmed) Syntrak Log Corrupted Shots: 2486-2359, 1759, 1758,1636-1612, 1335 (to be checked and confirmed) Tape Errors: 1021 Tape unit 1, 1029 tape unit 2 No data from SP 1090-1230 Syntrak.Tape deck problems
030 Dir 305°	W03ANT1204 P1 SP 2544 -893 Complete Data Tape Nos 35725 - 35727 Weather: Winds 5 knots , Sea and Swell: 2-3 metres at times. Noise at SOL: 5-6µB, EOL: 5-6µB (6Hz lo-cut filter applied) Low level tugging on all streamers observed in large side swell Water Depth: SOL: 46m, EOL: 41m Feather at SOL: -3.8°, EOL : -0.2°, Max: -4.5 ° (Partially induced when steering for coverage) Streamer Depth: 8 metres - acceptable. Noisy Channel: 300, 123, 299, 312 Gun Volume SOL: 2500 , EOL: 2500. Extraction Errors: 2284, 2234,1807, No data records: 1440, 1439, Timing errors above 1.5ms and Spread Errors: SP 2232, 2226, 1958,1708,1436,1026 Array volume change/Gun swaps: 981, 975, 974 Syntrak Log Corrupted Shots: 2486-2359, 1759, 1758,1636-1612, 1335 (to be checked and confirmed)
031 Dir 125°	W03ANT1068 P1 SP 1001-2944 Complete Data Tape Nos 35728 - 35731 Weather: Winds 5-10 knots , Sea and Swell: 2-3.5 metres at times. Noise at SOL: 4-6µB, EOL: 4-6µB (6Hz lo-cut filter applied) Water Depth: SOL: 35.1m, EOL: 53.0m Feather at SOL: - 0.8°, EOL : 0.4°, Max: 1.3° Streamer Depth: 8 metres - acceptable. Gun Volume SOL: 2500 , EOL: 2500. Extraction Errors on streamer 4: 1282 Timing errors above 1.5ms and Spread Errors: SP 2064, 1380 Array Volume changes-Gun replacement SP 1433, 1434, 1513, 1515 No Data Records: 1038, 1603, 1988(to be checked and confirmed)
032 Dir 305°	W03ANT1212 P1 SP 2525 - 893 Incomplete Syntrak and Tape Deck Errors Data Tape Nos 35732 - 35736 Weather: Winds 5-10 knots , Sea and Swell: 2-3.5 metres at times. Noise at SOL: 4-6µB, EOL: 4-6µB (6Hz lo-cut filter applied) Water Depth: SOL: 35.1m, EOL: 53.0m Feather at SOL: 0.6°, EOL : 1.2°, Max: -1.2° Streamer Depth: 8 metres - acceptable. Gun Volume SOL: 2500 , EOL: 2500. Extraction Errors on streamer 4: 2508, 1975, 5073, Timing errors above 1.5ms and Spread Errors (2.1ms): SP 2314, 2070, 1670 No Data Records: 1929 – 1773 (to be checked and confirmed) Tape Deck and Syntrak lock-up Single no data records: 2192, 1928-1772, 1294, 1191, 1190, 1116 SP 1929 Tape unit 2 error – missing data blocks

HSE Daily Statistics - 07/11/2003

Comments:

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

HSE Items:

10:30 - 11:15

Audit/Inspection/Training/Safety . [HSE]

HSE Safety Training - Environmental Management

Description	Day	Month	Survey
Incidents			
Near Miss Incident (NMI)	0	1	1
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	0	4
Equipment Loss/Damage (ELD)	0	0	0
Non work related illness (NWR)	0	0	1
Events			
Stop Cards Issued ()	0	19	26
Small Boat Launches ()	0	6	8
Helicopter Landing/Takeoff (HL)	0	0	0
MOB Drill (MD)	0	0	0
Fire Drill (FD)	0	1	1
Emergency Boat /Towing Drill (EBD)	0	1	8
Safety Meeting (SM)	0	0	2
HSE Induction-Inspection (IT)	0	1	4
Safety Committee Meeting (SCM)	0	1	1
Audit/Inspection/Training/Safety . (HSE)	1	5	10
Toolbox Meeting/Debrief (TB)	0	8	19
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	245	766
No. Seismic Crew	22	154	472
No. Contractors	3	21	66
No. Lost Time Injuries	0	0	0
Exposure Hours *	720	5040	15648
Small Boat Hours (Decimal hours)	0.00	6.20	10.68
Small Boat Exposure Hours (Dec. hours)	0.00	24.80	42.73
Fuel Usage (Cubic Metres)	17.69	79.69	234.69

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

Navigation report submitted by Stephen Burt for Friday 07th November 2003

Swell conditions have affected the compass and acoustic data in particular during sequence 029 and problems did occur towards the end of the line. The line was successfully processed. Reflections were also evident on the previous line in particular from the gun ranges but were picked in processing.

The Number of satellites in view was low during Sequence 031 around 07:00 UTC and height aiding was required.

PC requested if lines could be shot in the opposite direction to that they were originally shot as there could be one or two inshore lines where this occurs. Permission has been granted to shoot in the opposite direction if needed but this option may not be required after checking the current shooting plan.

Bathy checks continue to be good as previously reported.

Progress:

Shot to Sequence Number 31 Processed to Sequence Number 030 QC'd to Sequence Number 028

NTBP Sequences:

001 and 027

Dead/Bad Units:

RGPS: - Operational

Acoustics – Operational

Compasses: Operational

Regards,
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