

Quest Subsea Production Umbilical Database

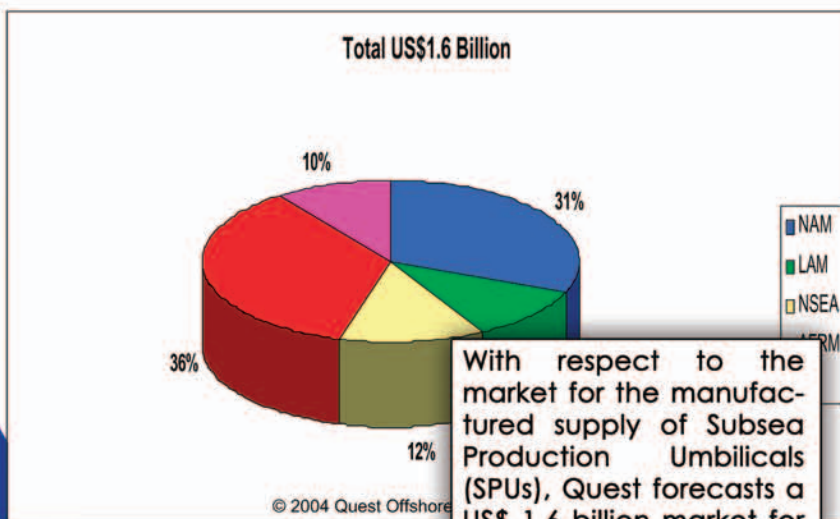


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Quest Offshore publishes a comprehensive Market Report on Global Subsea Production Umbilicals that is published twice annually and comprises complete details on this market segment. Format is PDF and Power Point deliverable via email. The current report is available from April 2004.

For more detailed information about the global subsea market, please contact us about how you can subscribe to Quest Offshore's quarterly flagship SUBSEA-DATA-BASE.

**Fig. 2 Global Subsea Production Umbilical Forecast
Manufactured Supply
2004-2006e (Awards in US\$ Dollars)**



With respect to the market for the manufactured supply of Subsea Production Umbilicals (SPUs), Quest forecasts a US\$ 1.6 billion market for SPU awards over the next three years 2004-2006e as illustrated in Fig. 2. West Africa and the Gulf of Mexico are predicted to comprise approximately 67% of the global market in US\$ Dollars for SPUs, while the North Sea, Asia Pacific and Brazil represent about 33% or one-third of the market opportunities.

Gas Prod Capacity	Date Modified	Project Note	Umbilical ID	Umbilical Bid Date	Umbilical Install Date	Umbilical Status	Length Miles
	12/17/2003	april/may 2003 AWARD,techup 5500 MM SURF CTRCT 500 DAYS	2982	8/1/2002		1/1/2005 Pending/Construction	43.50
	12/17/2003	CAMERON LOJ 0202: PROD/WYSCR/FLEX OR HYBRID RISERS	5042			3/1/2004 Pending/Construction	20.50
	12/17/2003	CAMERON LOJ 0202: PROD/WYSCR/FLEX OR HYBRID RISERS	5075			12/15/2003 Pending/Construction	6.93

Startup Year	Project Bid Date	EPC	Project Probability	Dev Cost	Offset Miles	Offset Km	Oil Reserves	Gas Reserves	Oil Prod Capacity
2006	11/1/2001	Yes	100	3,400,000	4.35	7.00			225000
2005	5/15/2002	Yes	100	3,000,000	6.21	10.00 1000			
2005	5/15/2002	Yes	100	3,000,000	8.21	10.00 1000			

Length Feet	Length Km	num tubulars	Umbilical Manufacturer	Mfg Contract Amt	Umbilical Type	Mfg Plant Province	Award Date
229,680.00	70.01		COFFEXIP DUCO	80,000,000	Steel	Angola	4/15
109,240.00	32.99		Kvaerner O. P.	18,500,000	Steel	N Sea, Norway	6/15
4,920.96	1.50		NEXANS		Steel	N Sea, Norway	1/15
295,680.00	90.12		Kvaerner O. P.		Steel	N Sea, Norway	8/31
60,720.00	18.51		Kvaerner O. P.		Steel	N Sea, Norway	3/15
213,312.00	65.02		COFFEXIP DUCO	50,000,000	Steel-Aluminum	N Sea, LK	4/15
179,520.00	54.72		COFFEXIP DUCO	25,000,000	Thermoplastic	N Sea, LK	12/31
17,740.80	5.41		COFFEXIP DUCO		Hybrid		6/15
6,547.20	2.00		OCEANERING Multiflex		Thermoplastic	GOM	5/15
32,736.00	9.98		Kvaerner O. P.		Steel	N Sea, Norway	6/15
5,016.00	1.53		8 JDR		Thermoplastic	N Sea, UK	6/15
66,472.00	19.99		COFFEXIP DUCO		Thermoplastic	N Sea, UK	5/15
626,320.00	191.51		COFFEXIP DUCO	42,000,000	Steel	N Sea, Norway	1/15
21,120.00	6.44		COFFEXIP DUCO		Thermoplastic	N Sea, LK	2/15
38,088.80	11.60		Kvaerner O. P.		Steel	N Sea, Norway	11/15
52,800.00	16.09		NEXANS		Steel	N Sea, Norway	10/15
20,328.00	6.20		OCEANERING Multiflex		Steel	N Sea, Norway	10/15
49,209.60	15.00		OCEANERING Multiflex		Steel	N Sea, UK	10/15
25,872.00	7.89		Kvaerner O. P.		Steel	N Sea, Norway	2/15/2003
39,600.00	12.07		COFFEXIP DUCO		Thermoplastic	N Sea, Norway	9/24/2002
13,464.00	4.10		COFFEXIP DUCO	4,000,000	Thermoplastic	N Sea, LK	1/1/2003
2,423.52	0.74		OCEANERING Multiflex		Thermoplastic	N Sea, LK	3/30/2003
26,400.00	8.05		COFFEXIP DUCO		Thermoplastic	N Sea, UK	1/1/2003
110,880.00	33.80		Kvaerner O. P.		Steel	N Sea, Norway	6/1/2002
59,088.00	17.70		Cabbett		Steel	GOM	1/1/2003
5,385.60	1.64		OCEANERING Multiflex		Thermoplastic	GOM	5/15/2003
86,084.00	26.23		OCEANERING Multiflex	2,000,000	Steel	GOM	8/15/2002
158,400.00	48.28		COFFEXIP DUCO		Thermoplastic	N Sea, LK	8/15/2002
36,960.00	11.27		NEXANS		Steel	N Sea, Norway	3/1/2003
24,710.40	7.53		Kvaerner O. P.		Steel	GOM	6/1/2002
52,800.00	16.09		COFFEXIP DUCO		Steel	GOM	6/1/2002
59,054.00	18.19		NEXANS		Steel	GOM	2/1/2003
15,840.00	4.83		OCEANERING Multiflex		Steel	N Sea, Norway	6/1/2002
44,880.00	13.66		COFFEXIP DUCO		Steel	GOM	6/1/2002
79,200.00	24.14		8 Kvaerner O. P.		Steel Super Duplex	GOM	3/1/2003
21,120.00	6.44		Kvaerner O. P.		Steel	GOM	6/1/2002
21,120.00	6.44		Kvaerner O. P.		Steel	GOM	6/1/2002
302,016.00	92.05		Kvaerner O. P.		Steel	GOM	6/1/2003
18,840.00	4.83		Kvaerner O. P.		Steel	GOM	3/30/2003
19,968.00	4.99		COFFEXIP DUCO		Steel	GOM	5/9
8,976.00	2.74		OCEANERING Multiflex		Thermoplastic	GOM	3/15/2003
31,785.60	9.69		NEXANS		Steel	N Sea, Norway	1/15/2003
75,504.00	23.01		OCEANERING Multiflex	5,000,000	Steel	N Sea, LK	2/28/2003
32,736.00	9.98		Kvaerner O. P.	3,500,000	Steel Super Duplex	GOM	11/1/2002
17,952.00	5.47		8 COFFEXIP DUCO		Steel	GOM	7/15/2002
42,240.00	12.87				Thermoplastic	GOM	8/1/2002
13,200.00	4.02		Cabbett		Thermoplastic	GOM	8/1/2002
18,480.00	5.63				Thermoplastic	GOM	10/1/2002
19,008.00	5.79		Cabbett		Steel	GOM	1/1/2003
32,736.00	9.98		Cabbett		Steel	GOM	6/1/2003
11,774.40	3.59		Cabbett		Steel	GOM	6/1/2003
95,040.00	28.97		Cabbett		Steel	GOM	4/1/2003
26,241.60	8.00		Cabbett		Steel	GOM	4/1/2003
79,200.00	24.14		Kvaerner O. P.		Steel	GOM	6/1/2003
43,371.20	13.34		8 Kvaerner O. P.		Steel Super Duplex	GOM	3/30/2003
39,600.00	12.07		Cabbett		Steel	GOM	1/1/2003
42,768.00	13.04		Cabbett		Steel	GOM	1/1/2003
5,702.40	1.74		OCEANERING Multiflex		Thermoplastic	Brazil	3/15/2003
75,504.00	23.01		OCEANERING Multiflex	4,000,000	Thermoplastic	Brazil	12/15/2002
52,800.00	16.09		OCEANERING Multiflex		Thermoplastic		10/1/2002