

## 2004 SURVEY OF OFFSHORE PIPELINE INSTALLATION & BURIAL CONTRACTORS & VES

OFFSHORE US GULF OF MEXICO - STATE & FEDERAL WATERS, BEACH TO ULTRA-DE J A N U A R Y 2 0 0 4

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Assistance from: David D E-mail Comments to: p	and Natalie Older of J P Kenny, Inc. Pavis of Offshore Magazine Posters@jpkhouston.com	Phone: 281	-675-1000; <b>Fax:</b> 281-646-9827 www.jpkenny.com
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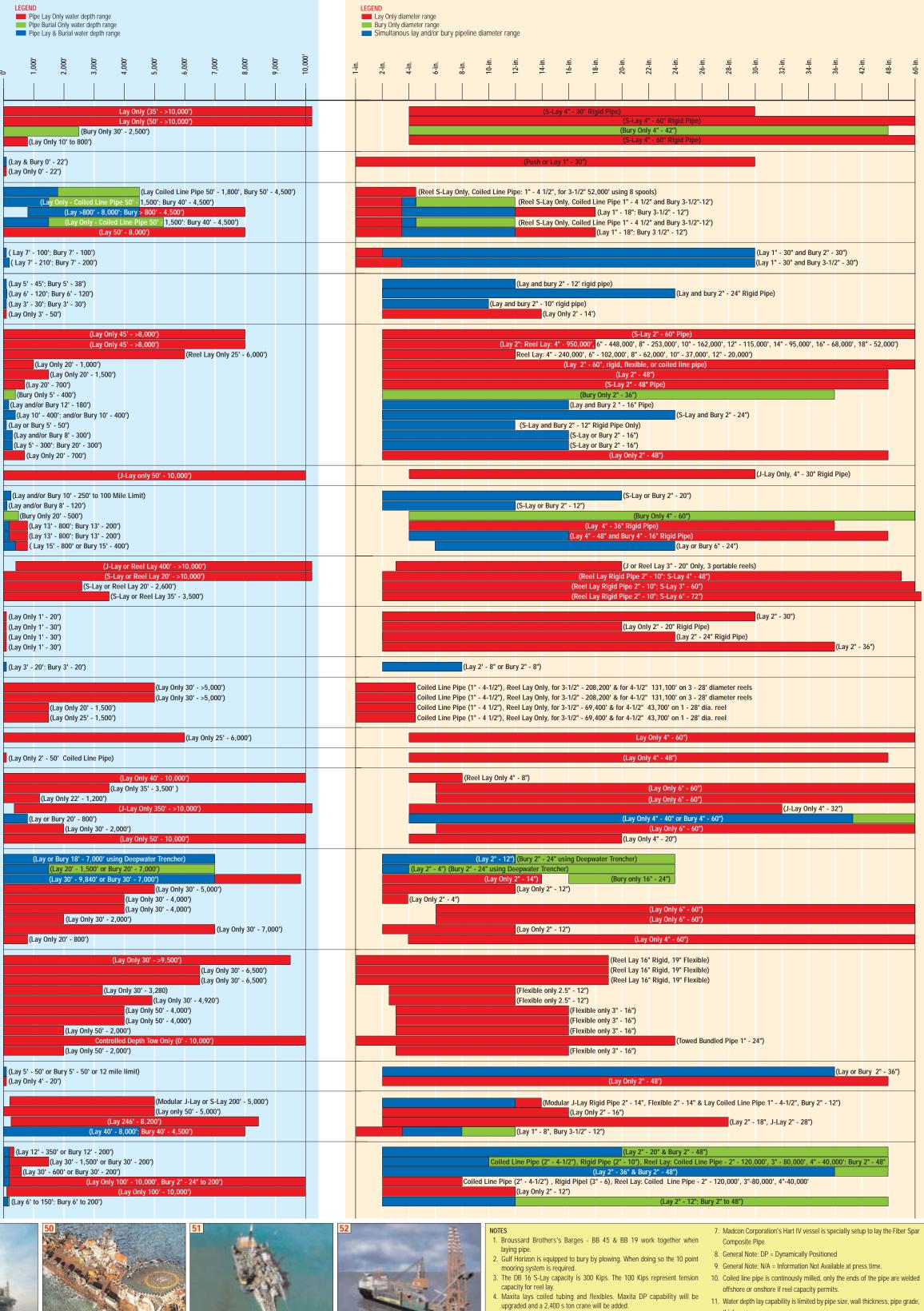
		CONTR	ACTOD
		VESSEL	BAS
SSELS		CTATUS I FORNID	
JJLLJ	띪	STATUS LEGEND  1 - Full time based in the GOM	
EEPWATER	PHOTO NUMBER	<ul> <li>2 - Part time based in the GOM</li> <li>3 - Based outside of US but</li> </ul>	
LEI WITTER	TON	bidding on GOM projects	
	PHO	4 - Will be mobilized to the GOM in future	
NNY			
		SEAS GROUP, S.A. Contact: Roy H.  LORELAY	_
	2	SOLITAIRE	Varies Varies
		TRENCHSETTER TOGMOR	Varies Varies
	BRO	OUSSARD BROTHERS Contact: Guy	Boudre
		BB 45 (Note 1) BB 19	Intrac Intrac
ite. 100 1094		DIVE INTERNATIONAL Contact: Jor	n Buck,
074		WITCH QUEEN	Galve: Sabin
281-646-9827	8	INTREPID  VIKING	Port A
		Q-4000	Galves
n		ET MORRISON CONTRACTORS Cont CM 11	act: Phi Houm
ifference"	12	CM 9	Houm
		MOND SERVICES Contact: Wallace	M. Car Morga
		DIAMOND 85	Morga
		DIAMOND 10 HOR 100	Morga Morga
10		DBAL INDUSTRIES, LTD. Contact: B	Byron Ba
1.4		HERCULES (Conventional Lay)  HERCULES (with Reel Lay Capability)	Carlys
	16	CHICKASAW	Carlys
Michigan .		IROQUOIS (ex-DLB 323)  CHEROKEE	Carlys
	19		Mexic
/-		TONKAWA  PIPELINER 5	Carlys New I
		SEA CONSTRUCTOR	New I
150		MAD II  6/P 35	New I
		G/P 37 SHAWNEE	Carlys
		REMA MARINE CONTRACTORS U.S.,	
		DCV BALDER RIZON OFFSHORE CONTRACTORS, IN	Fourc
	28	AMERICAN HORIZON	Port A
		CAJUN HORIZON  CANYON HORIZON	Port A
No.		GULF HORIZON (Note 2)	Port A
[ <b>\</b> .		LONE STAR HORIZON  PECOS HORIZON	Port A
		RAY McDERMOTT, INC. Contact: Geo	-
1		DB 50  DB 16 (Note 4)	Morga Morga
Contract of the second		■ DB 17 ■ DB 60	Morga
		G FISHER MARINE SERVICE INC. C	Morga ontact:
No.		BARGE II BARGE 22	Port L
		BARGE 23	Port L
		■ BARGE 63 DCON CORPORATION Contact: Bruc	Port L ce Trade
CP V		HART IV (Note 7)	Slidell
		EANEERING INTERNATIONAL, INC. ( OCEAN INTERVENTION I	Morga Morga
		OCEAN INTERVENTION II OCEAN PROJECT	Morga Morga
		OCEAN SERVICE	Morga
	OFF 44	SHORE CONTRACTORS (C.I.) LTD.  JASCON-5	Conta As Re
	QU	ALITY TUBING, INC. Contact: Barry I	Herring,
		INSTALLER - QUALITY TUBING PEM INC. Contact: J. Mario Fuzetti	
A STATE OF	46	MAXITA (Notes 4)	As Re
10000000000000000000000000000000000000	47	CASTORO SEI  CASTORO OTTO (Note 5)	As Re As Re
		S-7000	As Re
		CASTORO 10 SEMAC I	As Re As Re
		FDS (Note 6)	As Re
HER		DLT OFFSHORE INC.  DISCOVERY	Varies
120		LEGEND FALCON	Varies Varies
A South	56	KESTREL	New C
KINE S	57 58	HAWK POLARIS	Lake (
1	59	LB 200	Varies
	60	EAGLE	Varies

	CONT VESSEL	RACTOR BASE INFORMATION				VESSEL C	HARACTERISTICS			STATIO		LDING LINI ETHOD TI	E Ensioning	PIPE TYPE		LLATION MULTI	Capability Lines	LAY DIA.			STALLATIO S-LAY	N METHOD	S TOW INS		BURIAL IN	FO. DIA.	PIPE HA	ANDLING		WATER I	DEPTHS XIMUMS	
_S TER	STATUS LEGEND  1  - Full time based in the GOM 2  - Part time based in the GOM 3  - Based outside of US but bidding on GOM projects 4  - Will be mobilized to the GOM in future	LOGISTICS BASE	語 RACK LENGTH FOR 語 REELING PIPE	TYPE	HENGTH	WIDTH	HULL DEPTH VESSEL DRAFT (Tow/Working)	MAX. QUARTERS CAPACITY (Persons)	HELIPORT STATION KEEPING	G TOTAL STATIONS	WELDING STATIONS MANUAL (Conventional)		M TOTAL TENSIONING CAPACITY	RIGID PIPE COILED LINE PIPE	<u> </u>	EXT. or int. Bundled Pipe Pipe- In- Pipe	MULTI PIPELINES NO. OF MULTI PIPELINES	≅ MINIMUM DIAMETER ≅ MAX. DIAMETER	BEACH/TRANSITION ZONE		S-LAY (SIDE LAY)  PERMANENT REEL S-LAY		SURFACE TOW MID-DEPTH TOW	ON-BOTTOM TOW BURY PIPE	SIMULTANEOUS LAY & BURY  ≡ MIN. DIAMETER  FOR RIPIAI	NAX. DIAMETER FOR BURIAL	MINAL P	PIPE ON REEL OR CAROUSAL  TOWED PIPELINE LENGTH (Note:		퍼 PIPELAY	표 BURIAL	플 EXPERIENCE TO DATE
	ALLSEAS GROUP, S.A. Contact: Roy F  1 ■ LORELAY 2 ■ SOLITAIRE 3 ■ TRENCHSETTER 4 ■ TOGMOR	H. Sijthoff, Director; ALLSE Varies Varies Varies Varies		DP Pipelay Vessel DP Pipelay Vessel Bury Vessel	598.8' 964 427 366	ast, Suite 7 84.6' 131.2' 84.65'	50; Houston, Texas 51' 22' 79' 28' 33' 15'	77060, Phone 216 430 60	DP2 DP3 DP2 DP2	7 17	6	3	360	•	vww.allse	eas.com	• -	4" 30" 4" 60"		•				•	4"	42"	42' 42' 42'		35' > 50' > 30' 10'		2,500'	5,410' 6,300' 1,345'
j		y Boudreaux, President, or I Intracoastal City, LA	David Heber	Anchor Lay Barge rt, Vice President; BROUSS Lay Barge		90 IERS; 2581 40'	7 LA HWY 333, Abb	peville, LA. 70	510, Phone: (337) 893 Spuds	-5303 or (800	0) 299-53 3/5	303, Fax: (3	337) 893-7148 BS (Note 17)	8; E-mail: dph	nebert@w	orldnet.at	t.net; Web S		oussardbro	others.com				•	• 1"	30"	42'		0'	22'		22'
j		Intracoastal City, LA on Buck, Vice President - SI	hallow Wate	Crane Barge er Sales, or Paul Byington, (	140' General Man	40' nager - Pipe	10' 5' line / Reeled Produ	18 acts Divsion; (	Spuds  CAL DIVE INTERNATION	NAL; 400 N. S	Sam Hous	ston Pkwy. I	E., Suite 400;	Houston, Tex	kas 77060	); Phone: (	281) 618-04	00, Fax: (28	81) 618-050	02; E-mail	jon_buck	@caldive.co	n or paul_b	yington@	caldive.com	n; Websit	te: www.ca	aldive.com	n	22'		22'
	6 UNCLE JOHN 7 WITCH QUEEN 8 INTREPID	Galveston, Texas Sabine, Texas Port Arthur, Texas		DP MSV (Semi) DP DSV	250' 278' 384'	173' 47'	86.9' 18'/51 22' 14.5'	62 50	DP2 DP2		1 1	1 1	50 50 268				2 2	1" 6" 1" 6"							3" 3"	12" 12"				1,000 1,000 8,000	2	1,900' 2,700' 4,200'
21	9 VIKING 10 Q-4000	Galveston, Texas Galveston, Texas	600'	DP DSV DP DSV	240' 312'	52' 191'	20' 14.5' 50'	60 134	DP2 DP3		1 1	1	50 50			•	2 2	1" 6" 1" 6"							3" 3"	12" 12"			40' 50'	1,000		400' 400'
	11 CM 11	ntact: Phil Thibodeaux, Man Houma, LA	Ĭ	Lay/Bury Barge	Unit - Chet M	Morrison Co 46'	ntractors; Pipeline	Division Mana 40	Anchors & Sp	, ,	2 •	Fax: (985) 8	8 <mark>68-1970; E-n</mark> 40	nail: pthibod	eaux@che	etm.com;	Web Site: v	ww.chetmor	rrison.com	•				•	2"	48"	80		7'	100'		60'
	12 CM 9  DIAMOND SERVICES Contact: Wallact 13 LB 5	Houma, LA  ce M. Carline, President or  Morgan City, LA	Dexter Babii	Lay/Bury Barge n, Sales; DIAMOND SERVIO Lay/Bury Barge	180' CES, P.O. Boo 180'	54' <b>x 1286; M</b> o 45'	rgan City, LA 7038	44 31-1286; Phon 24	Anchors e: (985) 631-2187 or C Spuds/4-F	4 Cell for Mr. Ba	2 abin (985)	) 518-1350,	, Fax: (985) 6	31-2442; E-m	nail for De	exter Babir	3 n: dbain1@m 3	sn.com; Web 2" 12"	b Site: ww	vw.diamon	dservicecor	p.com			1"	48" 12"	84'		5'	250' 45'	38'	38'
1	14 DIAMOND 85 DIAMOND 10	Morgan City, LA Morgan City, LA		Derrick/Lay/Bury Barge Lay Spud Barge	210' 140'	70' 40'	14' 7.0' 8' 3'	45 0	8-Point Spuds	6 2	4 1	1	15 BS	•			3 3	2" 24" 2" 10"							1"	24" 10"	84 63'		6'	300'	120' 30'	94' 16'
100	HOR 100 GLOBAL INDUSTRIES, LTD. Contact:					52' 65; Phone:	14' (337) 583-5000, Fa	nx: (337) 583-	5100; E-mail: byronb	@globalind.c	com; Web	Site: www	globalind.co	m				2" 14"									001		3'	50'		2.5251
	15 HERCULES (Conventional Lay) 15 HERCULES (with Reel Lay Capability) 16 CHICKASAW	Carlyss, LA Carlyss, LA Carlyss, LA		DP Derrick/Lay Barge DP Derrick/Lay Barge DP Derrick/Lay Barge	444' 444' 275'	140' 140' 80'	25' 15'/16 25' 15'/16 20' 12'	205	DP2/8-Poil DP2/4-Poin	nt 9 nt 1 nt 2	1 1	2	1,200 1,200 180				2 2	2" 18" 2" 12"									42'		45' 45' 25'	>8,000'		2,525' 5,325'
	17 IROQUOIS (ex-DLB 323) 18 CHEROKEE	Carlyss, LA Carlyss, LA		Derrick/Lay Barge Derrick/Lay Barge	400' 350'	100' 100'	30' 16' 25' 17'	259 183	10-Point 8-Point	8	5 • 5	2 2	300 320	• • •		•	2 2	2" 60" 2" 48"									42' 42'		20' 20'	1,000'		700' 775'
	19 MOHAWK 20 TONKAWA	Mexico Carlyss, LA		Derrick/Lay/Bury Barge Derrick/Bury Barge	320' 250'	90' 72'	24' 11' 16' 11'	200 73	8-Point 8-Point	6	4	1	88			•	2	2" 48" 2" 36"						•	2"	36"	42'		20' 5'	700'		500' 250'
	21 PIPELINER 5 22 SEA CONSTRUCTOR 23 MAD II	New Iberia, LA New Iberia, LA New Iberia, LA		Lay/Bury Barge Lay/Bury Barge Lay/Bury Barge	180' 250' 135'	72' 40'	16' 7' 8' 5'	75 33	7-Point 4-Pt + Spu	4 ds 2	3 • 2	1	55 10				2	2" 24" 2" 22"							2" 2"	24"	42' 42' 42'		10' 5'	400' 50'	400' 50'	400' 50'
	24 G/P 35 25 G/P 37	New Iberia, LA Carlyss, LA		Lay/Bury Barge Lay/Bury Barge	164' 188'	50'	12' 6' 14' 8'	46 58	7-Point 8-Point	4	2 •	1	40 40	0 0 0		•	<ul><li>2</li><li>2</li><li>2</li></ul>	2" 16" 2" 16"						•	2" 2"	16" 16"	42' 42'		8' 5'	300'	300'	120' 200'
-	26 SHAWNEE HEEREMA MARINE CONTRACTORS U.S 27 DCV BALDER	Mexico  5., INC. Contact: John Ree Fourchan, LA		Derrick/Lay Barge ccial Manager or Bruce Gres DP Pipelay/Inst. Vessel	400' ham; HEERE 505'	100' MA MARIN 282'	28.5' 13'/16 CONTRACTORS U	272 I.S., INC.; 171	8-Point  54 Butte Creek; Housto	8 on, Texas 770	5 090, Phor	ne: (281) 88	108 80-1600, Fax:	(281) 893-83	95, E-ma	il :jreed@	hmc-heerem	2" 48" a.com or bgr 4" 32"	resham@h	ımc-heeren	na.com; W	eb Site: www	ı.heerema.c	om			157'		300'	700'		350'
203	HORIZON OFFSHORE CONTRACTORS, I 28 AMERICAN HORIZON			1 7		s Swartz, Sa 85'	les Manager; HOR	IZON OFFSHO	RE CONTRACTORS, IN 6-Point	C.; 2500 City	West Blvd	d, Suite 220	00; Houston, 36	TX 77042; Ph	one: (713)	) 361-260	0, Fax: (713)	<b>361-2691</b> ; I 2" 20"	E-mail: gr	euter@hor	izonoffshore	e.com or dsv	vartz@horizo	noffshore	e.com; Web	Site: ww 18"		offshore.co		250'		195'
100	29 CAJUN HORIZON 30 CANYON HORIZON	Port Arthur/Sabine Pass Port Arthur/Sabine Pass	1,960'	Lay/Bury Barge Bury Barge	140' 330'	40' 90'	10.5' 6' 25' 16'	32 100	6-Point 8-Point	3	1	1	10	•		•	2	2" 12"						•	2" 4"	12" 60"	42'		8' 20'	120'	500'	100' 315'
	31 GULF HORIZON (Note 2) 32 LONE STAR HORIZON 33 PECOS HORIZON	Port Arthur/Sabine Pass Port Arthur/Sabine Pass Port Arthur/Sabine Pass	1,960'	Lay/Bury Barge Lay/Bury Barge Lay/Bury Barge	350' 320' 256.5'	71' 90' 72'	22.5' 13' 19.6' 12'	179 170 86	8/10-Point 8-Point 8-Point	6 5	5 4 3	2 2	130 176 110				4	4" 36" 4" 39" 4" 24"		•					4" 4" 4"	36" 36"	42' 42' 42'		13' 13'	800' 800'	200'	730' 690' 425'
1	J. RAY McDERMOTT, INC. Contact: Get 34 DB 50		ı; J. RAY MC	, , ,		ton, TX 770 150.9'	79; Phone: (281) 87 41' 31'	70-5000; Fax: 234					775/100	OTT, INC.; 23	17 Hwy 6	62 South,	Amelia, LA 7	0340; Phone 3" 20"	e: (985) 63	31-8663; Fa	x: (985) 63	1-8527; E-m	ails: gogerno	n@mcde	rmott.com o	or rjmoor	e <mark>emcderr</mark>		400' >	10,000'	ncdermott.	
	35	Morgan City, LA Morgan City, LA		DP Derrick/Lay Barge Derrick/Lay Barge	400' 400' 610'	100' 106'	28.5' 14'/17 28' 14'/17	180 259	DP2/8-Point 12-Point	nt 8	5 •	1	300/100 150			•	3	3" 10"/48 3" 60"	8"								42" 42' 80'		20' > 20' 35'	2,600'	;	3,500'
		Morgan City, LA  Contact: Waymon Boyd, Vio  Port Lavaca, TX	ce Chairmar	Derrick/Lay Barge n or Wayne Boyd, President; Lay Spud Barge		ER MARINE 40'	SERVICE, INC.; P.0	0. Box 108; Po	12 1 01110		361) 552-6 4	6751; Fax: (	(361) 552-120	00; E-Mail: wl	boyd@kir	ngfisherma	arine.com or	waboyd@kir 2" 30"	J	arine.com				•			80		1'	20'		
	BARGE 22 38 BARGE 23	Port Lavaca, TX Port Lavaca, TX		Lay Spud Barge Lay Spud Barge	120' 120'	30' 34'	6' 3'	10 10	Spuds Spuds	6 7	4 • 5	)		•		•	• 2 • 4	2" 20" 2" 24"	•	•							63' 63'		1' 1'	30'		30'
100	BARGE 63  MADCON CORPORATION Contact: Bru 39 ■ HART IV (Note 7)	Port Lavaca, TX uce Trader; President; MADO Slidell, LA	CON CORPO	Lay Derrick DRATION, 131-A Industrial D Lay Derrick Barge	120'/360' r., Slidell, L 100'	. <b>A 70460; PI</b> .30'	none: (985) 690-99	10 193; Fax: (985	Spuds ) 690-9968; E-mail: bt Spuds-2		oncorp.co	om; Web Si	te: www.mad	dconcorp.com	1		• 4	2" 36"						•	2"	8"	63' 40'		3'	30' 20'	20'	30'
	OCEANEERING INTERNATIONAL, INC.  40 OCEAN INTERVENTION I	Contact: Charles Royce, Bu Morgan City, LA	usiness Deve	elopment Manager - Marine DP DSV Vessel	242'	54'	20'	50	ANEERING INTERNATION DP2		11911 FM	1 529; Hous	ton, TX 77041 120	1 Phone: (713	329-450	00, Fax: (7	13) 329-495	1" 4.5"		oceaneerii	ng.com or r	kille@ops.o	eaneering.	com				•	30'	>5,000'		3,000'
	41 OCEAN INTERVENTION II 42 OCEAN PROJECT	Morgan City, LA Morgan City, LA		DP DSV Vessel DP DSV Vessel	248' 185'	54' 45'	20' 17'	50 50 32	DP2 DP/4-Poin	nt			120					1" 4.5"		•				•					30' 20'	1,500'		1,100'
1	43 OCEAN SERVICE  OFFSHORE CONTRACTORS (C.I.) LTD.  44 JASCON-5	Morgan City, LA  Contact: Mr. Eduardo San As Reg'd by Project Needs	ucedo, Arqu	DP DSV Vessel uitectura No. 63, Copilco - U DP Lay Derrick Accom	200' Iniversidad, I 460	Mexico, D.1	F. C.P. 04360 Phone 29 14	e: <b>+52 55 (5)</b> 6 276/350	59-72-14 +52 55 (5) 6 DP 3/8-Poi	<b>59-65-42 Fax</b> nt 8	<b>6:</b> + <b>52 55 4</b> + <b>1</b>	<b>(5)</b> 659-64-	-57 E-mail: co	ontec@adetel.	.net.mx, i	nfo@offco		4" 60"	•	•							42'		25' 25'			1,700'
	QUALITY TUBING, INC. Contact: Barry 45 ■ INSTALLER - QUALITY TUBING	Herring, Pipeline Manager Varies	r, or Dale Kli	Cont. Liftboats/Spud or And	chor Barges		Varies	Varies	Varies		•	9			Pager: (88	88) 343-68	<b>19; Fax: (28</b> 1 1"			nerring@qu	alitytubing	com or dkli		bing.com	; Website: \	www.qua	, ,		50'			
100	SAIPEM INC. Contact: J. Mario Fuzett 46 MAXITA (Notes 4) 47 CASTORO SEI	As Req'd by Project Needs As Req'd by Project Needs	S	Heavy Lift MSV Semi Lay Barge	531.5' 498.7'	126.7' 213.3'	29.5' 22' 98.4' 47.6'	195 330	DP3 12 Point	zetti@sonsub 9	5	bili.mcguire	e <b>@sonsub.co</b> 792	•	•	•	•	4" 8" 6" 60"		•		•					84'			10,000' 3,500'		7,200' 2,625'
20012	48	As Req'd by Project Needs As Req'd by Project Needs	S	Derrick/Lay Barge Derrick/Lay Barge	629.9' 649.6'	114.8' 285.4'	49.2' 32.8 142.7' 88.6'	339 850	12 Point DP3/16-Poi	7 int 2	5 • 1	3	300 1,160	• • •	•	•		6" 60" 4" 32"		•		•					42' 168'			10,000'		1,200' 7,050'
-	50	As Req'd by Project Needs As Req'd by Project Needs As Req'd by Project Needs	S	Lay/Bury Barge Semi Lay Barge MP Lay & Crane Workship	370' 487.3' 536'	120' 180.1'	30' 14'8"/17 91.3' 23'/44':	'1" 168 3" 362	8 Point 12 Point	6 11 115	3 5	3	265 496 881/551				2	4" 40" 6" 60"		•				•	4"	60"	42' 84'			800' 2,000' 10.000'		500' 1,600' 7,200'
200	STOLT OFFSHORE INC. 53 DISCOVERY	Varies		Construction Ship	392'		act: Gordon Barkso	dale, Vice Pres	sident - Commercial, o	or Steve Racc	ca; STOLT		2E INC.; 900 To		y Lane; S	Suite 400;		as 77024; PI 2" 12"		3) 430-1100	, ,	3) 461-0039	E-mail: go	m-info@s	toltoffshore	.com; W	/eb Site: v		offshore.co	om		1,155'
	54 LEGEND 55 FALCON 56 KESTREL	Varies Varies New Orleans, LA		Construction Ship Pipelay/Construction Ship		62' 70'	18' 14' 41' 24'	54 105	DP2 DP2	6	1 3	1 2	30 300				2	2" 4" 2" 14"						•	16"	24"	42' 42'			9,840'		4,500' 3,750' 2,000'
	57 HAWK 58 POLARIS	Lake Charles, LA Varies		Pipelay/Construction Ship Construction Ship Pipelay/Construction Ship	323' 306' 450'	62' 128'	22' 15' 30' 16'	229 266	DP3 DP2 DP3	1 6	1 5	1 1	30 529				2	2" 4" 6" 60"		•							42' 42' 84'		30' 30'	4,000'	;	3,800' 4,300'
	59	Varies Varies		Lay Barge Construction Ship	550' 454'	192' 64'	109' 66' 22'	400 114	14-Point DP3	7	5 • 1	5	750 143	•	•	• •		6" 60" 2" 12"		•		• •					84' 42'		100' 30'	2,000' 7,000'		1,640' 5,500'
100	61 DBL 801  SUBSEA 7 (Note 18) Contact: Mike No. 62 SKANDI NAVICA		673, Cell: (7	Derrick Lay Barge 713) 524-7403, Fax: (713) 8 DP Pipelay Vessel	353' 3 <b>9-4610 or 0</b> 356'	103' Geoff Dale,	25' 12.5' Phone: (713) 839-4 29' 24.6'	233 685, Cell: (71 72	10-Point 3) 254-7319, Fax: (713 DP2		SUBSEA		200 ; <b>2101 CityW</b> e	est Blvd, Build	ding 1, Su	ite 200; H	ouston, Texa	4" 60" s <b>77042-302</b> 2" 19"	21; E-mail:	: mike.new	bury@subs	ea7.com or	geoff.dale@	subsea7.	com; Websi	ite: subse	42' ea7.com 42'		30'			500'
	63 FENNICA 64 NORDICA		2,900'	DP Pipelay Vessel DP Pipelay Vessel	380'	85' 85'	41' 27.5' 41' 27.5'	82 82	DP2 DP2	1	1 1	1	500 500				2 2	2" 19" 2" 19"									42' 42'		30'	6500' 6500'	4	4,920' 4,920'
	65 KOMMANDOR 3000 66 LOCHNAGAR	As Req'd by Customer	2,900'	DP Pipelay Vessel DP Pipelay Vessel	388' 349'	69' 75'	33' 16' 35' 18.3'	70 70	DP2 DP2			6	440 440			•	• 3 • 3	2.5" 12" 2.5" 12"		•									30'	4,920'		3,280' 4,920'
Z.35	67 SUBSEA VIKING 68 TOSIA PERSEUS 69 ROCKWATER 1	As Req'd by Customer	2,900'	DP Multi-Purpose Vessel DP Multi-Purpose Vessel DP Multi-Purpose Vessel	335 372' 323	72' 59	20 22'	100 97	DP3 DP3 DP2/4-Poi	nt								3" 16' 3" 16'											50' 50'	4000'		
1	70 CONTROLLED DEPTH TOW 71 SEISRANGER	On shore site As Req'd by Customer	2,900'	MSV DP Multi-Purpose Vessel			17		DP2		•	•		•	•	• •		1" 24" 3" 16'					• •	•				6	0 > 50'	>10,000' 2000'		
	SUNLAND CONSTRUCTION, INC.—MARIN 72 BH 300 73 WOODSON SPREAD I	Belle Chasse, LA		Cor Dennis Sisung; SUNLAN Lay/Bury Barge 3 Spud Barges (In Series)	185'	45'	9' 4'	15 Country Dri 32	ve; Delcambre, LA 705 6-Pt/Spud	s 5	3		7; Phone (Sisu	ing): (504) 398	8-1861; Fa	ax (Ledet):	(337) 685-2	2" 36"		) 398-1231	; E-mail: LF	Ledet@sunla	ndconstruct	ion.com o		sunlando 36"	42'	n.com; We	ebsite: ww 5' 4'	50'		40'
COLUMN	73 WOODSON SPREAD I  TECHNIP COFLEXIP Contact: Brennan 74 CSO CONSTRUCTOR	Theodore, AL when in GON	<mark>Songer, Sal</mark> M	DP MSV		58 F <mark>ower 1 - Su</mark> 67'	ite 150, 11700 Old 27' 27'	Katy Road, H	Spuds ouston, Texas 77079, U DP3	9 USA. Tel: (28 1	7 • 81) 870-1	111or (281) 2	)- <b>249-7500</b> ; <b>I</b>	Email: Brenna	an.Roy@u	s.coflexip	.com, Mike.	2" 48" Songer@us.c 2" 14"		om or Web	Site: www.	coflexip.com		•	• 2"	12"	84'		200'	20' 5,000'		20'
	75 CSO APACHE 76 CSO DEEP BLUE	Theodore, AL when in GON Theodore, AL	M 4,800' 4,800'	DP Reel Ship DP Reel Ship	403' 677'	77' 105'	28' 18' 58' 33'	100 120	DP3 DP3	1	1	• 2	440 1,697	• • •		• •	2 3	2" 16" 2" 28"				• •			•		160'		50' 246'	5,000' 10,000'	4 500:	
	77 CSO AKER DOVE  TORCH, INC. Contact: Willie Bergeror  78 MIDNIGHT BRAVE	Fourchan, LA  n; Chief Operating Officer; C  Dulac, LA	_		276' Itney Ave., So 275'	65' Suite 400, G 70'	26' 21' retna, LA 70056; LA 18' 12'/12	52 A. Phone: (504	DP2 1) 367-7030 or (800)-8 7-Point	78-6724, Fax	1 ::(504) 36	7-7075 or (	268 Commerical O 50	Office: 11757 I	Katy Free	way, Suite	2 1300; Houst	on, Texas 77 2" 20"	7079; Texa	s Office: (7	13) 781-79	90; Texas Fa	x: (713) 781	-7841, or	3-1/2 E-mail: w.b		@torchinc. 40'	.com; Web		8,000' v.torchinc.o 350'	com	310'
	79 MIDNIGHT EAGLE 80 MIDNIGHT RIDER (Note 13)	Dulac, LA Dulac, LA	600	DP-2 Lay/Bury Barge Lay/Bury Barge	190' 260'	76' 72'	11' 6'/6' 16' 12'/12	57 84	DP2 8-Point	4 5	2 3	1	30 50	• •	•	•	<ul><li>3</li><li>3</li></ul>	2" 10" 2" 36"						•	2"	48" 48"	40' 40'		30'	3,000'	200'	160' 340'
	81 MIDNIGHT WRANGLER (Note 14) 82 MIDNIGHT EXPRESS (Note 15) 93 MIDNIGHT PUNNER	New Orleans, LA New Orleans, LA		DP-2 MSV DP-2 Lay Vessel	341' 510'	64' 100'	28' 22' 32' 16.2'	84 116	DP2 DP2 7 Point/2 Sp	1 6	1 3	1	30 160		• •		4	2" 8" 2" 12"				• •	•	•	2"	24"	40' 40'		40' 100'	10,000'	2001	155'
	83 MIDNIGHT RUNNER	Dulac, LA	William William	DP-2 Lay Vessel	160'	54	9 4'	30	7-Point/2-Sp	uus 4		1 45	30				3	2" 12"			47				2"	48"	40		6'	150'		155'
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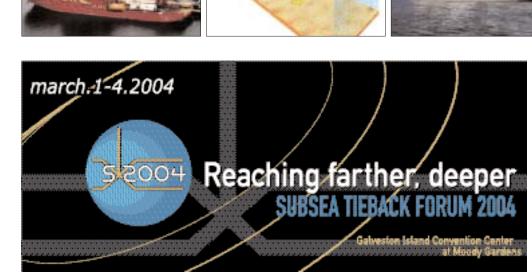
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				L						NE					ΑV							S BURY				OUSAL	TOWED PIPELINE LENGTH (Note 17)	프			
	RIGID PIPE		u		EXT. or INT. BUNDLED PIPE PIPE- IN- PIPE	NES	NO. OF MULTI PIPELINES	MINIMUM DIAMETER	딾	BEACH/TRANSITION ZONE	NOI	S-LAY (CENTER LAY)	-AY)	PERMANENT REEL S-LAY	REMOVABLE REEL S-LAY			>	MO	ON-BOTTOM TOW		SIMULTANEOUS LAY & BURY	æ	MAX. DIAMETER FOR BURIAL	MAX. NOMINAL PIPE JOINT LENGTH	PIPE ON REEL OR CAROUSAL	INE LEN	MINIMAL WATER DEPTH			EXPERIENCE TO DATE
	H H	CI EVIDI E DIDE	F F	, i	EXT. or INT. BUN PIPE- IN- PIPE	MULTI PIPELINES	J M	M DI	Max. Diameter	SANS	PULL/FLOTATION	EN	S-LAY (SIDE LAY)	ENT	BLE		_	SURFACE TOW	MID-DEPTH TOW	MO	Ъ	NEO	MIN. DIAMETER FOR BURIAL	-IME	MEN	REI	)PEI	WA			NCE
	RIGID PIPE		UMBILICAL	1		II P	OF N	M	<u> </u>	Ë	Æ	) \	y (S	MAN	OVA	>	REEL LAY	FACE	-DEP	30TI	<b>BURY PIPE</b>	JLTA	BUR	<u></u>	일빌	8	ED	MAL	PIPELAY	<b>I</b> ⊌	RE
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CONTRACTOR PIPELAY/BURY CAPABILITIES (BY WATER DEPTH)



CONTRACTOR PIPELAY/BURY CAPABILITIES (BY PIPE DIAMETER)





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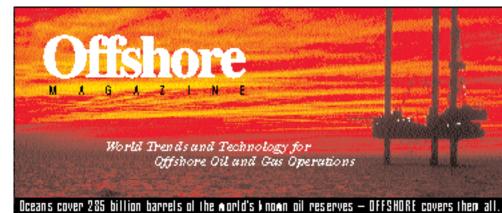
CHALLENGING PIPELINES.

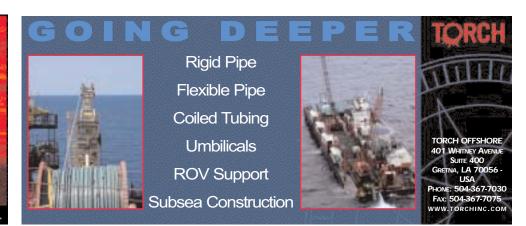
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12. Towed pipeline lengths depend upon onshore site availability.

15. The Midnight Express has capacity to fill the pipe reel while offshore. No

13. The Midnight Rider was formerly the BH 400.

17. General Note: BS = Braking System.

A. Field Development Ship (FDS) is owned by SaiBos, which is equally

14. Midnight Wrangler will be available 3rd Qtr, 2002. Contact Torch for exactly

tensioners are provided for flexible laying with a total capacity of 551

16. Subsea 7 is a new joint venture company formed from DSND Subsea and

availability date.

Castoro Otto is owned by Saibos which is equally owned by Saipem & thickness.

C. FDS utilizes traveling block (capacity 881 kips) for pipelaying. 3 spool base is required.

D. FDS has reel and carousal capacities of 2,200 kips and 3,525 kips

Halliburton in May, 2002.

interviews, and company brochures. Neither J P Kenny Inc., nor Offshore Magazine guarantees or assumes any responsibility or liability for any reliance on the information presented.

nformation Accuracy: Every attempt has been made to locate and contact all U.S. Offshore Pipeline Installation & Burial Contractors. No contractor was intentionally exluded from the survey. In some cases, a pipelay or burial vessel was not included because information was not provided. We make no guarantee that this list is all inclusive. We have also been careful to summarize the capability and experience of each yard as best as possible, by acting as a neutral party and integrator of information. We have collected the data from contractor-supplied information, personal interviews, phone

B. FDS has 1 work station in J-Lay tower and has 5 work stations outside

the tower for quadruple joint fabrication.