

REFERENCE LIST OF COMMERCIAL APPLICATION OF MTM/AQUA MTM FOR THE 2002 - 2015

Industrial Application Pipeline Inspection and for Pipeline Integrity

№	Contract/Project Description and Location	Client	Year	Stages of Technology development and improvement	Contract/Project Volume (km)
	<i>Note: the information of contract names and volumes is regarded as confidential and not permitted by a Client for Disclosure, we do not indicate here Contract/Project Volumes</i>				
1	Russia, oil products pipelines, D 320-530 mm	OAO "Transnefteproduct"	2002	First industrial approbation	1200
2	Russia, Komi, Ukhta, Field oil pipelines, D 119-420 mm	OAO AK "North Oil"	2002		46
3	Russia, Strezhevoy, Field oil pipelines, D254-320 mm	OAO "Tomskneft"	2002		170
4	Russia, Yakitiya, Mirniy, Main pipeline D 520 mm	OAO AK "Alrosa"	2002		243
5	Russia, Ufa, main gas pipeline "Magnitogorsk-Tchelyabinsk" D 720-1020	OOO "Bashtransgas"(OAO "Gasprom")	2002		68
6	Russia, Almeteyevsk , Zainsk, D 520 mm Field oil pipelines NGDU "Zainskneft"	OOO "Tatneft"	2002		93
7	Russia, Yakitiya, Yakutsk, Main gas pipeline, D 520 mm	OAO "Yakutgasprom"	2002		
	TOTAL 2002				1996
8	Russia, Lipetsk, gas pipeline- bend D 320 mm	Administration of Lipetskaya oblast	2003		39
9	Russia, Yakitiya, Mirniy, Gas pipelines water bed crossings D 520 mm	OAO "Alrosa-Gas"		Accumulation of information on revealing anomalies and on positioning system, testing and verification	30
10	Main pipelines of the Uzbekistan Republic D 720-1420 mm	AK "Uztransgas", OAO "Zarubezhneftegas"	2003		2970
11	Russia, Tomsk, Field gas pipelines D 119-320 mm	OAO "Nomsgasprom"	2003		256
	TOTAL 2003				3295

12	Republic of Moldova, main gas pipeline D 1020-1220 mm	OAO "Moldovatrangas"	2004	Development of software on calculating safe operating pressure and remnant safe operation term	285
13	Russia, Tatarstan, NGDU "Zainskneft", field oil pipelines D 114-219mm	OAO "Tatneft"	2004		231
14	Russia, Volgograd, NGDU "Zhirkovskneft", field oil pipelines D 114-219 mm	OAO "Lukoil"	2004		21
15	The Uzbekistan Republic, main gas pipelines and gas pipelines-bends D 720-1420 mm	OAO "Zarubezhneftegas" AK "Uztransgas"	2004		3109
16	Russia, Siberia, gas pipelines D 520 mm	OAO "Tomskgasprom"	2004		93
17	Russia, Irkutsk, water pipeline of Heat electro station D 920 mm	OAO "Irkutskenergo"	2004		24
18	Russia, Nyagan, water bed pipeline crossings D 275-32 mm	OOO "Kern"	2004		7.5
19	Republic of Belorussia, main oil pipelines, water bed crossings, D 720-1020 mm	Federal company "Druzhba"	2004		13
20	Syria, products pipelines, D 6"	Mahrukot oil & Gas Company Product pipelines			356
TOTAL 2004					4139,5
20	Argentina Underground pipelines of the refinery stations, gas pipelines, products pipelines D 6"-56"	Companies: REPSOL YPF, ROCH Medanito, TGN, TGS, Panamerican Enerdgy,	2005	Further stages of development and improvement of the Technology	78
21	Croatia Europe D520, high pressure oil pipeline	Company "Plinacro"	2005		30
22	Russia, Ekaterinburg	OAO "Ural gas pipelines nets"	2005		90
23	Great Britain, water pipeline, D 4"	"Northubrianwater ltd" (Argos)	2005		2
24	Russia, Condensate pipeline, field pipelines	OAO "Tomskgasprom"	2005		93
25	Ukrain, ammonia pipeline D 320 mm	"Ukrchimtransammiak"	2005		50
TOTAL 2005					343
26	Argentina Underground pipelines of the refinery, gas pipe-	Companies: I.G.P, IPF, ROCH, Medanito, TGN, Panamerican	2006	The first experience of works on complicated	100

	lines, products pipelines D 6"-56"	Energdy		objects – pipelines inside	
27	Russia, PIPELINES OF 26 th compressor stations D 1020-1420 mm	OAO "Gasprom", OOO "Ural-transgas"	2006	of gas compressor and pumping stations	40
28	Russia, gas pipelines-bends D 520-720 mm	OAO "Gasprom", OOO "Permtransgas"	2006		70
29	Russia, field pipelines D 219-275 mm	TNK-BP "TNK-Nyagan"	2006		80
30	Russia, field pipelines D 219-420	OAO "Lukoil"	2006		10
31	Russia, Novy Urengoy, field gas pipelines	OAO "Achimgas"	2006		36
32	Russia, field pipelines D 219-320 mm	(Joint company Russia-USA) "Khantymansiysk- neftegasgeologia"	2006		30
33	Mexico, oil pipeline D 21"	I.G.P – General contractor IPF: Company proprietor: Pemex	2006		3
				TOTAL 2006	369
34	Russia, oil field pipelines D 119-720 mm	OAO "Lukoil-West Siberia"	2007	Software development for the pipelines inside oil terminals and com- pressor stations. Inter- ference impact	176
35	Russia, main ethylene pipeline D 520 mm	OAO "Sayanskchimplast"	2007		117
36	Russia, oil field pipelines D 320-219 mm	OAO "TNK-BP"	2007		26
37	Russia, product pipelines, D 21"	OAO "Sibneftegas"	2007		76
38	Russia, gas pipelines of compressor stations, D 60"	OAO "Gasprom"	2007		5
39	Croatia, main gas pipelines, D 20"	PLINACRO	2007		32
40	Azerbaijan, main gas pipelines, D 20", 60"	Azerigas	2007		43 , 37
41	Malaysia, refinery pipelines, D 6 –20"	PETRONAS	2007		5
42	Russia, municipal heat pipelines	Ministry of municipal economy	2007		40
43	Argentina, field and main pipelines, pipelines of compressor stations, D 20", 21", 10-12", 12", 6-10"	OCCYDENTAL Petroleum, Panamerican Energy, Tecpetrol, Repsol YPF San Luis YPF EI Canadon TOTAL	2007		76

44	Columbia, field pipelines and pump station pipelines, D 6 –20”		2007		137
				TOTAL 2007	770
45	Argentina, Main pipeline, D12 inc	Tecpetrol	2008		512
46	Argentina, Main oil pipeline Main product pipeline Oil field pipeline, D 6 -10 inc	Repsol YPF San Luis YPF El Canadon TOTAL	2008		
47	Mexico	Pemex (Todama)	2008		37
48	Columbia, Pipelines of pumping stations, D 6 -20 inc	Techicontrol	2008		4
49	Russia, Main ethyl pipeline, D219 mm	OAo “Sayankhimplast”	2008		102
50	Russia, Water and heat pipelines	Municipal objects under supervision of the Moscow region Government	2008	---	40
51	Russia, Product pipeline, D21 inc	OAo “SiburTumenGas”	2008		76
52	Russia, Field pipelines, D319, 560, 720 mm	OAo “TNK-BP”	2008		163
53	Russia, Pipelines of heat nets	Ministry of Municipal Economy of Moscow region	2008		52
54	Russia, Product pipeline	OAo “Tomskgasprom”	2008		86
55	Administration of the Perm region UKS “Krasnokamsk”	Russia	2008		34
56	Russia, Gas pipeline - branch	OOO “ENTE”	2008		59

57	Azerbaijan, Main gas pipeline, Gas pipelines – branches, D20-60 inc	Azerigas	2008		443
58	Saudi Arabia, Water pipelines, D6-8 inc 60 inc	ARAMCO (REZAYAT PIPE- LINES COMPANY LTD.) Contact Vladimir Mokshanov Pipeline Services Manager *Tel +966 (0) 3 882 5700 ext. 4027 7Fax. +966 (0) 3 882 6716 / 882 7217 *Mobile + 966 (0) 50 681 90 75 Email: vladi- mir.mokshanov@rezayat.com.sa	2008		35
59	Malaysia, Pipelines of the refinery in Kerthe, D 6 -20 inc city	PETRONAS Contact: Contact: Mr. Ashri B Mustapha (Senior Manager, Custodian, Sur- face Technology, PETRONAS CARIGALI SDN BHD), mohdashri@petronas.com.my Ms.Siti Noor Fairuz Bt Sofian (OD/PCSB), fairuz_sofian@petronas.com.my	2008		14
60	USA, Main gas pipeline, Gas pipelines - branches	Transkor-USA	2008		13
TOTAL 2008					1670
61	Russia, Field pipelines, D150-420 mm	TNK-Nyagan,	2009		42
62	Russia, , Field pipelines, D520 mm	OOO “West Ural Certificate Cen- ter”	2009		24
63	Saudi Arabia, Water pipelines, D60 inc	SWCC (REZAYAT PIPELINES COM- PANY LTD.)	2009		12

64	China, Jiang Jin Despatch/Transmission Pipeline, D377mm	SNPC	2009		10
65	China, Hua Xin Line, Fu Ren Line, D219mm	Petrochina South West Oil and Gas Field Company	2009		50
66	Indonesia, Bangko GS – Pemat Ang Ibul Petani - Pematang CGS3 – CGS P 8750	Chevron Pacific (Transkor Asia) Contact Mr. Kang Kim Ang, Director kang.corrtrol@gmail.com	2009		19
67	Brazil, fire protection pipelines and product pipe- lines of tank park	Petrobras	2009		16
TOTAL 2009					173
68	Russia, Irkutsk region, Main ethylene pipelines, D219mm	OAO “SayansKhimPlast”	2010		234
69	Russia, Kursk region, Konyushevka, Gas pipeline		2010	Development of Aqua MTM Technology for offshore pipelines	6,3
70	Moldavia, Main gas pipeline	Moldovatransgas	2010		185
71	Russia, Field pipeline	Neftepromdiagnostika	2010		184
72	USA, Gas distribution networks	American Gas Association	2010		20
73	Saudi Arabia, Water pipelines	Rezayat Pipelines Company LTD, for SWCC, Al-Khobar, Contact Vladimir Mokshanov Pipeline Services Manager *Tel +966 (0) 3 882 5700 ext. 4027 7Fax. +966 (0) 3 882 6716 / 882	2010		65

		7217 *Mobile + 966 (0) 50 681 90 75 vladmir.mokshanov@rezayat.com .sa			
74	Saudi Arabia, Reinforced concrete pipelines	Rezayat Pipelines Company LTD, for SWCC, Al-Khobar	2010		17
75	UAE, Firefighting pipelines, product pipelines of tank park D6 -20 inc	ADCO	2010		16
76	China, Gas pipeline, D520mm	Lejin-Transkor for PetroChina department	2010		8
77	China, Oil pipeline	Lejin-Transkor for PetroChina department	2010		11
78	Transkor Asia, Airport fuel pipelines	Sudan, Contact Mr. Kang Kim Ang, Director email kang.corrtrrol@gmail.com,	2010		50
79	Malaysia, Field pipelines	PETRONAS SDN. BHD.	2010		11
	TOTAL 2010				807,3
80	Russia, Gas pipelines of compressor stations	Gazprom	2011	Initiation of Aqua MTM Technology for offshore pipelines	5
81	Russia, Gas pipelines of underground storage tanks, D630mm	Gazprom	2011		2
82	Russia, Newly built main gas pipelines, D1220mm	Gazprom	2011		100
83	Russia, Field gas pipeline, D530mm	Lukoil	2011		83
84	Russia Gas pipelines, D530mm	Gazprom	2011		4

85	Russia, Irkutsk region, ethyl pipeline	OAQ SayansKhimPlast	2011		234
86	Saudi Arabia, Water pipelines, Al-Khobar, Riyadh C	Rezayat Pipelines Company LTD, for SWCC,	2011		550
87	Saudi Arabia, Water pipelines, Buraida Reinforced concrete pipelines	Rezayat Pipelines Company LTD	2011		17
88	Indonesia, Field pipelines, D80mm	Chevron Pacific Indonesia	2011		8
89	UK, Gas pipelines, D114-16mm	National Grid, UK	2011		9
90	Malaysia, Offshore oil pipelines	PETRONAS SDN. BHD	2011		10, pilot project of AQUA MTM with high pressure gas pipeline inspection
91	USA, Gas pipelines	American Gas Association	2011		20
92	Malaysia, Offshore oil pipelines	PETRONAS SDN. BHD	2011		7
	TOTAL 2011				1049
93	EcoScanEngineering	Russia	2012		97
94	ENTE	Russia (Biryulevo)	2012		0,13
95	ENTE, Subaqueous crossings	Russia (Astrakhan)	2012		12,45
96	TiraspolTransGas, Main pipelines	Moldova and Pridnestrovye	2012		68,13
97	Oil field pipelines	CHEVRON PACIFIC Indonesia, Petronesia Sdn Bhd. Contact: Ms.Rika Pangaribuan, Finance Director	2012		88,68

		Phone: +62 21 7980424, Email <rika@petronesia.co.id> Or Mr. Benny Siagian PT Petronesia Benimel Director, email ben-ny@petronesia.co.id			
98	Shell Global Solution, 8 pipelines in one corridor, chemical plants	USA, TX	2012		3,1*8=24,8
99	NGA, Gas pipelines	USA, NY Mr. George Janega Project Manager NYSEARCH / NGA 20 Waterview Blvd., 4th Floor Parsippany, NJ 07054 gjanega@northeastgas.org Phone: 973-265-1900 Ext. 211 Fax: 973-263-0919 Mobile: 201-780-3778	2012		2,7
100	PETRONAS , MCOT (89 sect), Miri Crude Oil Terminal, MTM inspection of fire water pipelines crossing the roads.		2012		0,02*89
				TOTAL 2012	294,89
101	PETRONAS (SKO, PMO, SBO and SKO) AQUA MTM inspection of offshore pipelines		2013		98,830 SKO) +129.586 (PMO) + 8,662 (SBO) +11,951 (SKO)
102	CHEVRON INDONESIA, AQUA MTM inspection, High pressure crude oil pipeline. 3 parts including MTM, shallow water, offshore	Indonesia, Contact: Ms.Rika Pangaribuan, Finance Director Phone: +62 21 7980424, Email <rika@petronesia.co.id> Or	2013		17

		Mr. Benny Siagian PT Petronesia Benimel Director, email ben-ny@petronesia.co.id			
103	ADMA, UAE				5,73
	TOTAL 2013				261,759
104	PETRONAS, SABAH-SARAWAK GAS PIPELINE (SSGP) MTM inspection of underground pipelines	Malaysia, Contact: Mr. Ashri B Mustapha (Senior Manager, Surface Technology, PETRONAS CARIGALI SDN BHD), email <mohdashri@petronas.com.my> Or OILFIELD OFFSHORE SERVICES SDN BHD.-Local Agent, Muhamad Paizal Othman, General Manager, <mpo@oos.my>	2014		260
105	PETRONAS AQUA MTM inspection of off-shore pipelines	SKO, SBO, PMO fields			182,2 018,8 044,4
106	StatOil (Norvway) MTM inspection of underground Collsnes refinery pipelines	Contact: Mr. Faisal Reza [mailto:fare@statoil.com]	2014		0,240
107	Enbridge (US) MTM inspection of underground _____refinery pipelines	Contact: Juan Mejia Supervisor, Facilities Integrity ENBRIDGE PIPELINES INC. TEL: 780-420-8589 FAX: 780-420-5234 CELL: 587-337-7891 10201 Jasper Avenue, Edmonton, AB T5J 3N7 www.enbridge.com	2014		to be specified

108	GAZPROM Transgaz Moscow (Russia) MTM inspection of underground non-piggable pipelines	Contact: Mr. Sergey Sidorov [Sidorov@gtm.gazprom.ru]	2014		8,4
109	Shell Netherlands NAM MTM inspection of underground refinery pipelines	Contact: to be specified	2014		27
TOTAL 2014					541,009
110	SSGP (PETRONAS CARIGALI SDN.BHD., Malaysia)	Stage 1 & 2 Phase 2-4 XXX sections	2015		512
111	ADMA OPCO, UAE Water pipeline	4_WATER_ZK47-ZK290 4_WATER_ZK234_TO_TIE_IN 4_WATER_ZWSC_ZK110-ZK329			
112	ADMA OPCO, UAE Gas pipeline	6_GAS_ZWGIP_ZK276-PC110 6_GAS_ZWGIP_ZK276-ZK311 6_GAS_ZWGIP_ZK276-ZW100 12_GAS_US88-US216_USSC_SSTI 22_Flare_USSC_Flare_1 22_Flare_USSC_Flare_2 22_Flare_ZWSC_Flare_1 24_Flare_ZWGG2_Flare_3 24_Flare_ZWGG2_Flare_4 24_Flare_ZWSC_Flare_2 30_Flare_CSP-1_FT4 30_Flare_CSP-1_FT5 30_Flare_CSP-1_FT6 42_Flare_USSC_TA 30_FLARE_ZCCP-FLARES_A-C 30_FLARE_ZCCP-FLARES_B	2015		12,7
113	ADMA OPCO, UAE Oil pipeline	6_OIL_ZWSC_ZK114.57 ZK74.5- ZK76 12_OIL_US36-USCP_(E)	2015		3,4
114	MT Progetti, Italy Gas pipeline	14" Pofi-Arnara-Ceccano	2015		8,3

115	GAZPROM, Transgaz Yugorsk, Russia Gas pipeline	Igrim-Serov-N.Tagil	2015		3
116	Mosvodokanal, Russia Water pipeline	Ul. Snaiperskaya	2015		0,3
117	CTDUT facility, Brazil Water pipeline	Test bench buried pipe 8"	2015		0,05
117	PCSB-SKO, Malaysia Gas pipeline	SKOPL354 12" PC4DP-A to B11DR-A	2015		11,6
119	SPD N.V., Russia Oil pipeline	Cluster 25 - unit 12 Cluster 25 - unit 12/1 Cluster 2 - unit 1 Cluster 51 - unit 5 Cluster13 unit 36 κ Unit 25/2	2015		6,7
120	Sakhalin Energy, Gas pipelines	Gas pipeline ОБТК-HKC-2 48" Gas pipeline HKC-2 - CИП Gas pipeline ОБТК-СИП	2015		47,2
121	GAIL (India) Limited Gas pipeline	Chhainsa – Faridabad Pipe line KP12.600 - KP13.410 Kurikhera-Bamheta Pipeline	2015		8,5
122	GAZPROM Transgaz, Moscow, Russia Gas pipelines	MG Belousovo - Leningrad MG Stavropol - Moscow 1 line 1089-1119,7 MG Stavropol - Moscow 1 line 1053-1089 MG Stavropol - Moscow 2 line 1053-1119,7	2015		313
123	OOO Gazprom Kyrgyzstan Gas pipelines	Section MG 1002 MG "Bukhara gas area Tashkent-Bishkek-Алма-Ата ": 1. Intermediate gas pipeline BGR-TBA 1063-1113 m, 2. MG BGR-TBA 1063.0 . - Crane-20B. 1 st course	2015		1,3
124	Statoil Petroleum AS, Crude oil pipelines, high pressure	Europipe 2 (1800-34-UO-006) T37 tunnel, S37, 30" pipe T37 tunnel, S38, 28" pipe	2015		0,7

125	ALROSA-Gas Gas pipelines	From Ul. 50 years of October to DOTC KSM Gas pipeline from GRS to SVK 2 nd line Gas pipeline from GRS to SVK 1 st line From DOTC KSM to Kotelnaya industrial zone and BSI From crossing 530.325 at SVK to Ul. 50 years of October Bend to factory №3	2015		12,9
126	Enbridge Pipelines Inc, Canada & US Pipelines inside Crude oil terminals	Edmonton Terminal Hardisty Terminal Sarnia Terminal Stony Beach Terminal Cromer Terminal Westover Terminal	2015		13,9
TOTAL 2015					957,975

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