

FUENTE DE CRUDO DE RIO LOVAINA				
VERTICE	LADO	DIST.	ANGULO	ESTE
P1	P1 - P2	48.83	142°52'53"	443313.317
P2	P2 - P3	26.33	198°58'25"	443351.438
P3	P3 - P4	65.79	310°51'6"	443365.527
P4	P4 - P5	62.51	179°59'39"	443300.459
P5	P5 - P6	70.79	193°17'44"	443238.634
P6	P6 - P7	145.79	223°35'23"	443172.901
P7	P7 - P8	82.50	153°18'6"	443112.163
P8	P8 - P9	50.25	183°10'47"	443047.761
P9	P9 - P10	52.51	209°34'17"	443010.338
P10	P10 - P11	65.28	149°47'42"	442993.615
P11	P11 - P12	49.71	183°31'19"	442944.513
P12	P12 - P13	74.16	175°57'14"	442909.210
P13	P13 - P14	133.80	162°39'59"	442852.992
P14	P14 - P15	109.55	150°17'44"	442730.167
P15	P15 - P16	84.84	186°7'50"	442621.290
P16	P16 - P17	116.75	226°54'55"	442536.451
P17	P17 - P18	50.56	174°52'39"	442456.394
P18	P18 - P19	70.58	134°56'49"	442418.581
		78.14	153°25'7"	442348.131

P19	P19 - P20			
P20	P20 - P21	54.37	264°53'4"	442280.488
P21	P21 - P22	77.18	224°10'25"	442249.177
P22	P22 - P23	47.58	190°39'19"	442261.265
P23	P23 - P24	98.81	125°37'8"	442277.276
P24	P24 - P25	135.66	139°48'12"	442221.004
P25	P25 - P26	154.51	173°30'35"	442090.020
P26	P26 - P27	58.49	227°47'29"	441937.245
P27	P27 - P28	61.85	186°52'16"	441904.866
P28	P28 - P29	97.63	107°43'46"	441877.039
P29	P29 - P30	105.18	173°6'36"	441780.615
P30	P30 - P31	92.26	219°17'18"	441679.454
P31	P31 - P32	126.63	141°58'23"	441594.771
P32	P32 - P33	190.05	208°4'1"	441472.248
P33	P33 - P34	165.92	184°3'30"	441287.397
P34	P34 - P35	119.42	170°33'19"	441129.145
P35	P35 - P36	113.78	154°5'10"	441010.903
P36	P36 - P37	126.20	191°34'53"	440902.615

P37	P37 - P38	105.75	234°58'32"	440777.177
P38	P38 - P39	69.15	219°49'22"	440707.358
P39	P39 - P40	35.35	116°31'30"	440705.557
P40	P40 - P41	69.52	93°0'3"	440673.530
P41	P41 - P42	92.74	130°5'36"	440640.858
P42	P42 - P43	76.65	142°20'39"	440675.407
P43	P43 - P44	85.84	171°26'55"	440741.469
P44	P44 - P45	139.65	142°15'23"	440821.102
P45	P45 - P46	173.98	193°44'53"	440955.456
P46	P46 - P47	181.50	203°7'31"	441129.319
P47	P47 - P48	146.58	175°41'9"	441298.709
P48	P48 - P49	139.95	153°37'36"	441439.082
P49	P49 - P50	80.67	217°37'11"	441577.060
P50	P50 - P51	117.72	143°12'40"	441648.304
P51	P51 - P52	63.68	176°33'1"	441764.638
P52	P52 - P53	79.45	270°0'0"	441826.864
P53	P53 - P54	126.33	108°20'16"	441843.731
P54	P54 - P55	85.12	186°16'20"	441969.350
P55	P55 - P56	114.67	165°53'9"	442052.496
P56	P56 - P57	66.35	201°22'9"	442167.108
P57	P57 - P58	51.85	230°5'52"	442229.609
P58	P58 - P59	81.91	225°30'45"	442247.594
P59	P59 - P60	55.26	166°55'50"	442212.696

P59	P59 - P60	68.12	150°59'59"	442201.067
P60	P60 - P61	40.42	145°6'11"	442220.816
P61	P61 - P62	72.54	114°34'34"	442252.555
P62	P62 - P63	51.46	146°44'20"	442317.090
P63	P63 - P64	51.64	237°42'57"	442342.481
P64	P64 - P65	50.65	233°54'55"	442394.067
P65	P65 - P66	57.32	180°16'0"	442425.806
P66	P66 - P67	91.49	153°36'19"	442461.519
P67	P67 - P68	82.64	153°39'55"	442544.392
P68	P68 - P69	78.41	183°53'47"	442627.013
P69	P69 - P70	18.64	270°0'0"	442705.340
P70	P70 - P71	47.82	89°8'44"	442704.484
P71	P71 - P72	70.30	186°1'49"	442752.282
P72	P72 - P73	132.40	209°20'23"	442821.930
P73	P73 - P74	30.49	168°41'50"	442927.469
P74	P74 - P75	65.39	228°3'50"	442954.907
P75	P75 - P76	94.91	146°58'15"	442973.032
P76	P76 - P77	93.62	205°38'31"	443044.792
P77	P77 - P78	61.87	174°18'18"	443082.091
P78	P78 - P79	104.39	153°47'35"	443112.251
P79	P79 - P80	90.92	159°4'19"	443198.161

P80	P80 - P81	79.18	161°29'29"	443286.497
P81	P81 - P82	85.84	210°11'7"	443365.395
P82	P82 - P83	45.08	147°25'22"	443442.957
P83	P83 - P84	45.13	247°5'32"	443487.682
P84	P84 - P85	75.53	133°6'14"	443510.328
P85	P85 - P86	100.88	207°50'48"	443583.926
P86	P86 - P87	55.64	192°24'6"	443660.253
P87	P87 - P88	81.09	181°31'47"	443693.558
P88	P88 - P89	10.45	132°56'29"	443740.342
P89	P89 - P90	30.45	122°10'31"	443750.694
P90	P90 - P91	71.56	102°28'53"	443770.218
P91	P91 - P92	58.46	171°27'33"	443726.519
P92	P92 - P93	82.24	174°42'35"	443684.338
P93	P93 - P94	47.78	171°22'45"	443620.006
P94	P94 - P95	48.25	181°42'53"	443578.590
P95	P95 - P96	40.66	197°22'55"	443537.508
P96	P96 - P97	40.37	160°38'36"	443510.837
P97	P97 - P98			

P98	P98 - P99	78.13	153°47'13"	443475.750
P99	P99 - P100	14.03	185°3'41"	443397.756
P100	P100 - P101	45.22	248°41'19"	443383.882
P101	P101 - P102	61.98	136°57'57"	443373.855
P102	P102 - P103	32.84	242°51'10"	443322.565
P103	P103 - P104	37.39	237°12'27"	443326.571
P104	P104 - P105	32.52	164°8'21"	443360.234
P105	P105 - P106	80.93	165°44'33"	443384.534
P106	P106 - P107	51.70	323°55'44"	443429.903
P107	P107 - P108	42.98	176°15'43"	443431.686
P108	P108 - P109	74.15	129°20'46"	443435.965
P109	P109 - P110	69.46	196°46'54"	443497.707
P110	P110 - P111	55.21	123°39'32"	443541.973
P111	P111 - P112	62.04	197°53'11"	443596.889
P112	P112 - P113	46.27	154°13'41"	443657.580
P113	P113 - P114	104.97	122°51'8"	443702.512
P114	P114 - P115	50.61	161°21'55"	443736.753
P115	P115 - P116	38.44	229°7'42"	443737.110
P116	P116 - P117	40.82	282°19'15"	443766.351
P117	P117 - P118	83.76	210°23'10"	443785.608
P118	P118 - P119	90.03	161°10'53"	443782.335
P119	P119 - P120	161.34	158°2'13"	443808.025
P120	P120 - P121	67.89	167°1'60"	443908.555

P 120	P 120 - P 121	Distance	Bearing	Station
P121	P121 - P122	89.62	122°9'42"	443961.692
P122	P122 - P123	49.86	177°34'24"	444046.255
P123	P123 - P124	42.26	218°58'23"	444092.559
P124	P124 - P125	53.78	185°45'3"	444132.934
P125	P125 - P126	111.72	153°46'5"	444182.454
P126	P126 - P127	77.13	186°42'16"	444293.988
P127	P127 - P128	72.09	137°15'19"	444370.983
P128	P128 - P129	37.99	82°29'25"	444426.749
P129	P129 - P130	50.90	101°54'37"	444399.043
P130	P130 - P131	88.61	201°52'47"	444357.310
P131	P131 - P132	87.07	197°50'59"	444270.985
P132	P132 - P133	102.42	186°15'25"	444184.217
P133	P133 - P134	68.44	146°32'8"	444083.699
P134	P134 - P135	88.18	205°24'52"	444020.422
P135	P135 - P136	107.07	229°33'42"	443932.366
P136	P136 - P137	58.62	172°14'37"	443867.302
P137	P137 - P138	71.75	213°58'28"	443825.724
P138	P138 - P139	100.79	187°7'33"	443811.781

P138	P138 - P139			
P139	P139 - P140	39.89	180°0'0"	443804.611
P140	P140 - P141	32.83	116°13'24"	443801.773
P141	P141 - P142	55.32	130°8'51"	443771.364
P142	P142 - P143	37.81	154°16'19"	443722.387
P143	P143 - P144	51.39	134°13'50"	443699.864
P144	P144 - P145	64.21	211°30'1"	443708.087
P145	P145 - P146	50.82	232°12'47"	443683.727
P146	P146 - P147	38.85	222°16'43"	443634.750
P147	P147 - P148	49.09	140°36'10"	443600.072
P148	P148 - P149	76.23	240°2'43"	443552.168
P149	P149 - P150	39.05	187°59'10"	443500.602
P150	P150 - P151	40.36	225°17'59"	443478.437
P151	P151 - P152	53.82	152°39'3"	443485.944
P152	P152 - P153	36.32	135°26'57"	443470.543
P153	P153 - P154	47.51	119°25'12"	443438.725
P154	P154 - P155	98.04	158°0'57"	443398.328
P155	P155 - P156	57.13	187°14'32"	443340.348

P156	P156 - P1	50.09	122°17'40"	443301.023
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