

SUCCESSFUL INSPECTION IN HIGH THICKNESS PIPELINES WITH BACK TO BACK EXPANSION LOOPS

Total 20 Onshore pipelines of various diameters with very heavy wall thickness and back to back multiple expansion loops required GEOMETRY Inspection runs. Transpipe Geo X2* - High Resolution Geometry Inspection tool was able to carry out runs in all the pipelines successfully.

THE SITUATION

The Pipelines 6inch, 10inch, 14in & 20inch diameter were routed with back to back expansion loops with very heavy wall thickness which made Geometry run very challenging.

RESULT

Each Pipeline profile was meticulously stimulated in 3D to understand the bore restriction situation and to control Geometry tool speed during the run at bends. The results were discussed with Operations team which carried out the runs successfully.

LOCATION

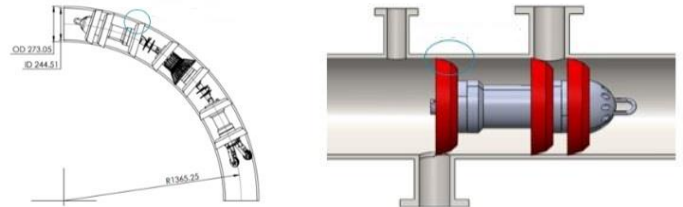
KUWAIT



EXPANSION LOOPS



GEOMETRY TOOL - 3D STIMULATION



10-inch Geo X2* - GEOMETRY INSPECTION TOOL



*Mark of TRANSPIPE INTEGRITY SOLUTIONS.

Pipe listing

7	7.08	Girth Weld	0.45	0.0	0.0	0	0.0	0	26.86	28.90076055	47.96830420	88.54
	8.73	Fitting	0.00	0.0	0.0	0	0.0	0	26.95	28.90076092	47.96828758	88.46
8	20.1	Girth Weld	13.02	0.0	0.0	0	0.0	0	27.5	28.90076357	47.96816726	87.95
	22.64	Fitting	0.00	0.0	0.0	0	0.0	0	27.59	28.90076403	47.96814675	87.87
	23.26	Fitting	0.00	0.0	0.0	0	0.0	0	27.61	28.90076417	47.96814040	87.84
	23.88	Fitting	0.00	0.0	0.0	0	0.0	0	27.63	28.90076430	47.96813411	87.81
9	26.23	Girth Weld	6.13	0.0	0.0	0	0.0	0	27.79	28.90076502	47.96810176	87.68
10	37.58	Girth Weld	11.35	0.0	0.0	0	0.0	0	28.36	28.90076775	47.96797782	87.15
11	50.76	Girth Weld	13.18	0.0	0.0	0	0.0	0	28.99	28.90068971	47.96794048	87.84
	51.81	Bend	0.00	2480.66	0.0	0	89.97	0	28.99	28.90068728	47.96794041	87.84
12	54.31	Girth Weld	3.55	0.0	0.0	0	0.0	0	29.1	28.90066198	47.96793969	87.79
13	66.45	Girth Weld	12.14	0.0	0.0	0	0.0	0	29.7	28.90054842	47.96793645	87.56
14	67.80	Girth Weld	1.35	0.0	0.0	0	0.0	0	29.78	28.90053617	47.96793610	87.53
15	80.50	Girth Weld	12.70	0.0	0.0	0	0.0	0	30.39	28.90043395	47.96793319	87.33
	81.01	Bend	0.00	951.63	0.0	0	22.47	0	30.39	28.90043189	47.96793313	87.32
16	81.96	Girth Weld	1.46	0.0	0.0	0	0.0	0	30.44	28.90042145	47.96793284	87.30
17	82.24	Girth Weld	0.28	0.0	0.0	0	0.0	0	30.44	28.90041891	47.96793276	87.30
	82.88	Bend	0.00	876.79	0.0	0	22.56	0	30.48	28.90041653	47.96793270	87.29
18	83.71	Girth Weld	1.47	0.0	0.0	0	0.0	0	30.49	28.90040583	47.96793239	87.27
19	89.2	Girth Weld	5.46	0.0	0.0	0	0.0	0	30.61	28.90036150	47.96793113	87.18
20	101.6	Girth Weld	12.38	0.0	0.0	0	0.0	0	31.01	28.90024682	47.96792786	86.95
21	114.4	Girth Weld	12.82	0.0	0.0	0	0.0	0	31.42	28.90012845	47.96792449	86.72
	120.22	Bend	0.00	6436.89	0.0	0	30.01	0	31.53	28.90009853	47.96792693	87.66
22	127.26	Girth Weld	12.89	0.0	0.0	0	0.0	0	31.82	28.90005329	47.96801102	87.60
	133.56	Bend	0.00	6458.27	0.0	0	30.02	0	31.83	28.90004185	47.96803229	87.59