



United States Department of the Interior  
BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT  
PACIFIC OCS REGION  
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Apr 2, 2020

Memorandum

To: Subject File: 5D(3) Pipeline Inspections, Beta Unit,  
Segment #2610300, Elly to Shore 16"

From: Dan Knowlson, Petroleum Engineer,  
Office of Strategic Operations

Subject: Summary Update—2019 Internal Inspections of Platform Elly to Shore Oil 16"  
Pipeline

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**2019 Inspection Review**

In October 2019, ROSEN Inspection Service conducted an internal inspection of the Beta Offshore (Beta) Platform Elly to Shore 16" crude oil pipeline using a In-Line High Resolution Metal Loss Detection and Sizing (RoCorr **UTWM**) tool for the first 1000' of pipeline and a MFL/Cal for the remainder. Beta submitted the inspection results to the Bureau of Safety and Environmental Enforcement by letter dated February 10, 2020.

The 2019 inspection detected 8 metal wall loss anomalies (3 internal; 5 external), 7 within the first 1000'. The two greatest are 54% and 32% (both reported as repaired), and 5 are in the less than 20% range. There are 3 deformation anomalies, all reported as repaired under sleeve. There were 3 laminations reported.

**Conclusion**

This internal inspection report is acceptable and no remedial action is recommended at this time.

**Current and Past Internal Inspection Results**

Year	Tool	# Wall Loss Anomalies	50-59% Wall Loss	40-49% Wall Loss	30-39% Wall Loss	20-29% Wall Loss	<20% Wall Loss	Comments
2019	UTWM	7	1	0	1	1	5	The 54% and 32% anomalies are reported as repaired.
2017	MFL	9	0	0	0	1	8	A total of 9 metal loss anomalies (greater than or equal to a minimum predicted wall loss of 10%) were detected using Baker Hughes MFL/Caliper tool. The tool recorded a distance of 17.86 miles.

Year	Tool	# Wall Loss Anomalies	50-59% Wall Loss	40-49% Wall Loss	30-39% Wall Loss	20-29% Wall Loss	<20% Wall Loss	Comments
2015	MFL	13	0	0	0	2	11	Vendor- Baker Hughes
2013	MFL	17	0	0	3	4	10	Deepest anomaly report at 31%; Light debris identified in the line and did not affect metal loss anomalies; vendor- Baker Hughes
2011	MFL	22	0	1	2	6	13	21 close metal objects; Manufacturing indication; tool - 192 primary, 128 secondary and 32 caliper sensors; vendor - Baker Hughes
2009	MFL	3*	0	0	0	3	N/A	*After 2008 repair; did not report wall loss <20%; 24 close metal objects; 3 sleeves; tool - 192 primary, 128 secondary and 32 caliper sensors; vendor - Baker Hughes
2007	MFL	6*	0	0	2	4	N/A	*Did not report wall loss <20%; 5 manufacturing and 1 girth weld anomalies; two tool runs; tool - 192 primary, 128 secondary and 32 caliper sensors; vendor - Baker Hughes
2007	UT	707	1	0	2	300	402	Deepest 50% wall loss; 4 dents (3 dents report in prior caliper inspections, new dent was detected in 2006 TOW caliper run but was less than the 1% reporting threshold; 272 laminations; 10 - 18% echo loss between 12,500-42,500 feet, see 2007 review for more details ; All internal wall loss anomalies (698) are within 2 feet of weld, may be installation process (line-up clamps are 2 feet long); tool - 128 sensors; first wall loss inspection; vendor - GE PII Pipeline Solutions.