

# Overland Pipeline Cost associated with 217 mile pipeline located in Mexico

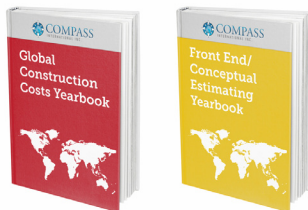
2015 Cost Basis

Pipeline buried between 5' & 10'

4 # Compressors / Pumping Stations (2 @ 3,500 HP, 2 @ 4,500 HP)

US \$ / Mexican Peso 6 / Nov 2014 13.65

CONSTRUCTION CATEGORY	\$ COST	% OF CC
Surveys / Initial clearing / Marshalling area	3,442,503	0.51%
ROW	13,010,625	1.92%
Pipe fitting / valve materials	21,768,753	3.22%
Pipe materials 24", 30" & 36" dia	232,368,758	34.37%
Pipeline construction, excavation, stone, backfill, pipe laying, wrapping, pipe cathodic protection, thrust blocks & system testing	201,684,250	29.83%
Construction Equipment	52,134,607	7.71%
River & road crossings (7 #)	3,189,375	0.47%
Pipeline Contractors general conditions / Construction equipment / Temp camps	20,452,566	3.03%
Buildings / Control stations / Skids / Permanent Warehouses	6,581,250	0.97%
Pumping / Compressor Equipment	69,356,252	10.26%
Tank Farms / Storage Tanks 500,000 b/d	31,387,508	4.64%
Manifolds - wellhead facilities	7,340,625	1.09%
SCADA / Communication Systems	4,455,055	0.66%
Operating equipment, pig launches, permanent cranes, trucks	2,531,253	0.37%
Loading jetty / rail spur and rail tie - in	6,302,813	0.93%
<b>S/T CONSTRUCTION COSTS (CC)</b>	<b>676,006,193</b>	<b>100.00%</b>
Initial studies / Permitting / Detailed Design / Consultants 3.05%	20,618,189	
PM / Procurement / CM / 3rd Party Inspection Services 1.25%	8,450,077	
<b>TOTAL PIPELINE COST (TPC)</b>	<b>705,074,459</b>	
<b>217 MILES / COST PER MILE</b>	<b>3,249,191</b>	
24" dia - miles	27.7	
30" dia - miles	62.4	
36" dia - miles	126.9	
Total distance - miles	217	
Pipe & fittings weight - Tons	45,000 to 50,000	
<b>TYPICAL COST RANGE FOR SIMILAR PIPELINE</b>		
High value	\$3,899,029	
Low value	\$2,599,353	
<b>EXCLUDES:</b>		
Initial fill		
Local taxes / import duties		
Owner staff - consultant costs		
Spare parts		
Vendor assistance is included in pumping / compressor equipment cost		



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