



## HydroLock Case Histories

### Case History - Compacted Shale

**Date:** July 13, 2013

**Location:** Northwest Territories, Canada



An energy company in Canada was faced with an unusual problem. They had built access roads to their Northwest Territory shale oil fields and portions of the roads were catching on fire and off-gassing dangerous hydrogen sulfide and sulfur dioxide gases. Specifically, they had used shale as a deep roadbed where the roads abutted wooden bridges. The compacted, volatile shale was spontaneously combusting and there was concern the wooden bridges were in jeopardy.

Hoping to avoid excavation, the team tried spraying HydroLock on the roadbed. HydroLock's ability to penetrate deep below the surface and encapsulate the hydrogen sulfide and sulfur dioxide was key to preventing continued fires. They carefully monitored the road bed and documented the results.

They recorded their readings of hydrogen sulfide, sulfur dioxide and oxygen after a 1/2% treatment of HydroLock Encapsulator Agent and water. After about 48 hours, the readings showed the HydroLock had completely encapsulated the hydrogen sulfide and sulfur dioxide.

Date	Time	H <sub>2</sub> S	SO <sub>2</sub>	O <sub>2</sub>	Comments
July 13, 2013	1130	51	189.3	51	
	1500	42	166.5	42	Readings prior to application
	1730	21	163.2	21	Readings after application
July 14, 2013	1135	6	49.2	20.6	Readings 30cm from source
	1200	0	23.5	20.7	
	1230	0	10.2	20.6	Readings 2m from source
	1430	0	21.4	20.6	
	1650	0	46.7	20.6	Readings 30cm from source
July 15, 2013	915	0	11.7	19.7	
	1100	0	4.8	20.9	
	1200	0	0	20.9	
	1500	0	0	20.9	



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