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Annulus Communications Eliminated using Pressure-Activated Sealant

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Annulus Communications Eliminated Using Pressure-Activated Sealant

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Abstract

Sustained casing pressure has been experienced in a number of underground storage wells. Sustained casing pressure can be a significant safety hazard and, on a number of occasions, has resulted in uncontrolled releases from such wells. Sustained casing pressure results from the migration of fluids in the annulus. The most common path for migration of fluids is through channels in the annular cement. To safely and economically eliminate sustained casing pressure on a crude oil storage well, on behalf of the operator, PB Energy, Inc. contracted to utilize an injectable pressure-activated sealant technology to seal channels in the annular cement of the well and eliminate the casing pressure. The mechanical integrity of the wells was restored and the well was put back into operation.

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