

Date: 10/9/98
Sender: Pat O'Dell
Subject: South Sprint #1 Well Workover
Paul,

You might want to be a little clearer on what's expected during workover operations as far as keeping contaminants out of the environment. You can add/subtract from the following:

"Enron shall take precautions to prevent oil, brine, chemicals, and other materials from reaching the ground during well recompletion operations. Precautions will include use of plastic liners (or other suitable secondary containment) beneath the workover rig, pipe racks, fuel and lube oil containers, and other equipment as necessary. All workover and wellbore fluids and solids shall be collected in metal tanks and disposed outside Padre Island National Seashore. Provisions shall be made for handling rig wash and wash from cementing equipment so as not to contaminate soils."

My only other concern regarding the work is that Enron plans to leave squeezed perforations above the production packer. These perforations have the potential for leaking gas and exposing the production casing to pressure. With gas, the pressure at the surface could equal the formation pressure from where the gas leaked. They do plan to perform positive pressure tests on the squeezed perfs. To determine if the squeezes will hold under future pressure conditions, they would also have to perform a negative pressure test (lower pressure in the well below the formation pressure). From an engineering point, I would probably forgo the negative pressure testing and look at a completion with a second packer set above the squeezed perfs to isolate formations from the tubing/casing annulus.

That's my 2 cents worth.

Pat

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