

From: [Diana Burn - DNR](#)
To: ["Toby_Hoffman@oxy.com"](mailto:Toby_Hoffman@oxy.com)
Cc: ["Kiki_Lockett@oxy.com"](mailto:Kiki_Lockett@oxy.com)
Subject: RE: Amendment to Surface Casing Depth & Int. Cmt Volumes_Oxy_Sheep Mountain 1-12-B 055-06316
Date: Friday, August 08, 2014 8:16:00 PM

Please proceed as proposed.

Thanks,
Diana

From: Toby_Hoffman@oxy.com [mailto:Toby_Hoffman@oxy.com]
Sent: Friday, August 08, 2014 7:02 PM
To: diana.burn@state.co.us
Cc: Kiki_Lockett@oxy.com
Subject: Amendment to Surface Casing Depth & Int. Cmt Volumes_Oxy_Sheep Mountain 1-12-B

Diana,

As per our conversation, the 13 3/8" 54.5# J55 BTC surface casing on the Sheep Mountain Unit 1-12-B (Document # 400614260), will be set shallower than what was permitted with the COGCC. The original plan was to set the surface casing at 1400 ft, which is into the Pierre Shale, but this formation was encountered much shallower than anticipated at approximately 860 ft. Our plan is to set the casing at our current depth of 974 ft.

We are confirmed to be in the Pierre Shale as per samples collected by a mud logger on location, plus the formation is being reactive with the fresh water mud resulting in tight hole from 974 ft to 860 ft.

For the intermediate cement job on the 9 5/8" casing, the original permit called for top of cement to be at the surface casing shoe of 1400 ft. Our plan is for the top of cement to still be at the surface casing shoe, which will now be at 974 ft. This adds 70 sacks of cement to the volume resulting in a total of 525 sacks of cement.

I have copied our regulatory analyst, Kiki Lockett, on this email.

Regards,

Toby Hoffman

Drilling Engineer



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