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DEPARTMENT OF NATURAL RESOURCES

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FACSIMILE TRANSMISSION

CONSERVATION COMMISSION

DATE:	Sept. 26, 2003
TO:	Vic Morrow
COMPANY:	American Energy
FAX:	505-564-3524
FROM:	Debbie Baldwin
PAGES:	
RE:	Glen Walker Water Well – Driller's log

MESSAGE: Vic: Here is a copy of the driller's log for the water well that I need to have plugged. As I mentioned this water well is completed in the Fruitland Formation and has almost no water in it, but makes quite a lot of methane. Bacterial activity in the well also produces H₂S gas. I need to have the well cemented top to bottom and seal off the coals that are producing the methane gas.

The log shows that there are coal seams at 30-31 feet below ground surface (fbgs) and at 50-55 fbgs. There may be other coals that were not noticed by the driller. Southwest Geophysical will be logging the hole on 10/3/03 at about 9:00 am, so we'll have a better idea of where all the coal seams are.

The plain 4 ½ - inch PVC casing extends down to 60 fbgs, so these coals are behind blank casing not behind slotted pipe. Mick Peterson (SW Geophysical) & I were talking about whether perforating the PVC to make sure the entire annular space can be cemented would be a good idea. It sounds like perforating PVC is always difficult and when it is hanging in an open hole like this it would probably shatter and probably make cementing more difficult.

I'm trying to get in touch with Leo Beeman, who drilled the well, to see whether he can remember how big and how many slots there would be in the slotted portion of the casing. Are there any other questions you would like me to ask him?

I believe you said that you thought you probably wouldn't have trouble getting cement through the slots, but do you think the cement would go up the annulus and cover the coals? If not do you have any other suggestions about how to go about plugging this well.

Mick did mention that maybe you could cemented in 2 phases. Cement up to the bottom of the plain casing (60 - 240 fbgs), then he would perforate just the upper portion plain PVC casing (20 – 60) fbgs and then you would cement that part of the hole. I don't want to make this too complicated, but I do want to do what ever it takes to get the coals sealed off.

I'll see you next week at the site. If you have any suggestions then, please call me at (303) 894-2100 ex 111.

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