

CONVERSATION RECORD

TIME
4:30 pm

DATE
May 16, 1985

TYPE VISIT CONFERENCE TELEPHONE
 INCOMING OUTGOING

ROUTING	
NAME/SYMBOL	INT
XXXXXXXXXX	

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU Bill Meyer	ORGANIZATION (Office, dept., bureau, etc.) USGS - Tacoma, Wash.	TELEPHONE NO:
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SUBJECT
Comments on BWIP Hydrology Baseline and Invitation to DOE/NRC workshop.

SUMMARY

The purpose of the call was to inform Meyer of the upcoming (May 22-23) DOE/NRC BWIP Hydrology Workshop and to get input from him regarding the current meeting agenda. On such short notice he was unable to attend due to previous commitments. However, he had the following comments regarding baseline acquisition and the general hydrologic system at Hanford:

- Groundwater flow directions in the various hydrostratigraphic units are still unknown due to considerable uncertainty in measured hydraulic gradients.
- Unusual head perturbations have been observed (during 1984) in wells DB-12 and the DC-16 cluster.
- In evaluating potentiometric surfaces, Meyer prefers tape measurements of hydraulic heads rather than acquisition of pressure data via transducers. His main concern regarding the latter relates to observed drift over time in the transducer data. He seemed unaware of our concerns about the effects of fluid density variations in piezometers, effects that are minimized by the use of transducers.
- Hydrogeologic effects of the Umtanum Ridge Anticline and related structures are presently unknown (boundary evaluation problem).
- Groundwater levels in the Grande Ronde are apparently still recovering from previously induced drawdowns caused by extractions during well drilling. However, Meyer noted that the most recent head data he had seen for the DC-19,20,22 well clusters was from April, 1984.
- Meyer was asked how long a period he felt was necessary to achieve a sound hydrologic baseline. His response was "approximately 18 months" (as compared to DOE's allotted 12 months), based on the general recovery times of pumping tests in the region.

WM Record File 101.2 WM Project 10
Docket No. _____

ACTION REQUIRED **8506110180 850517**
None **PDR WASTE** **PDR**
WM-10

PDR
LPDR

Distribution: _____

NAME OF PERSON DOCUMENTING CONVERSATION
Neil Coleman

SIGNATURE *Neil Coleman* DATE GORN
(Return to WM, 623-SS) May 17, 1985

ACTION TAKEN