

CONVERSATION RECORD

TIME
4:30 pm

DATE
May 16, 1985

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☐ OUTGOING

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:

SUBJECT

Comments on BWIP Hydrology Baseline and Invitation to DOE/NRC

workshop.

SUMMARY

ROUTING

NAME/SYMBOL

INT

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

WM Project 10

101.2

Docket No.

ACTION REQUIRED

8506110180 850517

PDR WASTE

WM-10

PDR

PDR ☒

LPDR ☒

None

Distribution:

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE

Neil Coleman

(Return to WM, 623-SS)

May 17, 1985

ACTION TAKEN

1398