

PROJECT FACT SHEET

CONTRACT TITLE: Development of a Method for Treatment and Underground Disposal of NORM

ID NUMBER: DE-FC21-95MT30081 B & R CODE: AB0555000 DOE PROGRAM MANAGER: NAME: William H. Hochheiser PHONE: (202) 586-5614 DOE PROJECT MANAGER: NAME: John K. Ford LOCATION: NPTO PHONE: (918) 699-2061	CONTRACTOR: BPF, Inc. ADDR: 205 East Center Street Duncanville, TX 75116 PRINCIPAL INVESTIGATOR: NAME: Thomas O. Bush PHONE: (972) 709-3890 FAX: (972) 709-3899 INTERNET ADDRESS: bpftx@aol.com
PROJECT SITE CITY: Duncanville STATE: TX CITY: Orla STATE: TX CITY: Hobbs STATE: NM	CONTRACT PERFORMANCE PERIOD: 09/26/1995 to 12/31/1998 PROGRAM: Environmental-Gas RESEARCH AREA: Environmental

FUNDING (\$1000'S)	DOE	CONTRACTOR	TOTAL
PRIOR FISCAL YRS	3,927	0	3,927
FISCAL YR 1998	334	0	334
FUTURE FUNDS	0	0	0
TOTAL EST'D FUNDS	4,261	0	4,261

OBJECTIVE: Develop and demonstrate a method for treatment and underground disposal of naturally occurring radioactive materials (NORM) resulting from natural gas production.

PROJECT DESCRIPTION:

Work to be performed: The objective of this work is to develop and demonstrate a method for treatment and underground disposal of naturally occurring radioactive materials (NORM) resulting from natural gas production. The Statement of Cooperative Agreement Objectives is divided into two phases. In Phase 1, the participant shall develop a method for treatment and underground disposal of NORM waste at bench-scale, and secure permits and licenses for pilot-scale testing. In Phase 2, the participant shall demonstrate the NORM waste treatment and disposal method in a pilot-scale facility. The processing capacity of the pilot-scale facility shall be at least 100 (10-25 barrels of NORM which has been deliquified) barrels of NORM waste per day. The time duration of the pilot-scale testing shall be at least 1 year.

PROJECT DESCRIPTION (Continued)**Background:****PROJECT STATUS:**

Current Work: Pilot-scale field testing began 1/98.

Scheduled Milestones:

Complete Pilot-scale Field Testing

04/98

Accomplishments: Chemical usage and process times have each been reduced by almost an order of magnitude during the bench-scale testing. Economic projections are still consistent with \$200/bbl pricing for typical sites. The process has been shown to be effective on materials from each of the three project sites. Activity levels are reduced from typical values of 200 pCi/g to less than 5 pCi/g INCLUDING background for Ra-226. Process equipment tests during bench-scale has been very successful. Semi-continuous processing equipment will be used for pilot-scale. Pilot-scale equipment is completed and in the field. Technology transfer has been underway throughout the project through the presentation of papers at oil and gas societies and working groups. This work is proceeding in parallel with the NEPA process so as to maintain project schedules. The EIV has been submitted for review as part of the NEPA process. The draft EA for pilot-scale testing has been completed.