

GL07338_4

INI	ROFFICE CORRESPONDENCE
date	September 26, 1979
to	RRFO Manager
from	Test Planning and Coordination
subject	ADDENDUM TO FET-7-79 - RRGE-1 PRODUCTION TEST TO RRGI-6 AND RRGI-7 INJECTION TEST - FET-13-79: PULSE TESTING CHECKOUT AT RRGI-6
	Approved by: Reservoir Eng. Date 1979
	Drilling Eng.// Date
	Design Eng. 2. 2013:001 . Date 9/28/79
	Environmental Eng Date
	RRFO Eng. R. D. Meininger Date 9/28/79
	Safety Eng Date
	Chemistry Eng Date
	Test Planning & Coord Jahren Date 9-28-79
	Quality Review Only Date
	Authorized for Release
	G. M. Millar Date
	REV. RELEASE DATE

Change Procedure

Changes to this procedure shall be made utilizing Form EG&G 1844, Document Revision Request. Changes shall be approved, block 7, by the Geothermal Testing Shift Supervisor using technical or other input if required. Test planning and coordination approval is required on all changes and will determine other approvals needed.

Copies of DRR's shall be distributed as follows:

Original attached to Execution Copy of this procedure.

*Copy to Geothermal Technical Development CDCS at EGG Building - (Nancy McLain).

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1.0 PURPOSE OF TEST

This is an addendum to FET-7-79. The purpose is to determine maximum pump/injection rates due to existing pump characteristics.

2.0 RESPONSIBILITIES

- 2.1 Raft River Operations will have overall responsibility for conducting the test gathering, operational data, retrieving and transmitting data, installing hardware/instrumentation, and overall project safety. Manager, RRFO or his assigned designate, will have responsibility for signoffs on this procedure.
- 2.2 Engineering will have responsibility for design and material procurement for permanent lines and instrumentation.
- 2.3 Reservoir Engineering will have responsibility for data analysis and reporting for hydrologic and thermal data.
- 2.4 Test Planning & Coordination (T&C) will have responsibility for test plans, scheduling, construction contracts, and test coordination.
- 3.0 REFERENCES: FET-7-79, RRGE-1 production to RRGI-6 and RRGI-7 injection.

4.0 <u>SAFETY</u>

- 4.1 All personnel operating experiments at Raft River will be under the cognizance of the Raft River Field Operations Manager and subject to written site operating rules.
- 4.2 Any experiment or experimental procedure deemed unsafe will be shut down by the Raft River Field Operations Manager, the Raft River Experiment Coordinator or the Safety Division representative.
- 4.3 Raft River Field Operations is responsible for all site safety. Any unsafe condition developing through the operation of an experiment shall be reported immediately to the Manager of Raft River Operations.
- 4.4 Safety Manual uses required:
 - 4.4.1 Hazardous Material Safety No. 6020.
 - 4.4.2 Material Handling Safety No. 6030.
 - 4.4.3 Electrical Safety No. 6040.
 - 4.4.4 High/Pressure/Temperature System Safety No. 6060.
 - 4.4.5 General Protective Clothing and Equipment No. 6070.
 - 4.4.6 Fire Protection Systems No. 7030.
- 4.5 Reference: Geothermal Well Re-Entry, SHA-22-79 by C. R. Shaber, dated 8-29-79, is to be adhered to.

5.0 MATERIAL & EQUIPMENT

- 5.1 1200 GPM crifice for FE-6-23 at RRGI-6 G. Berglund will supply size of orifice.
- 5.2 Flow recorder compatible with item 5.1.

6.0 PREREQUISITES

- 6.1 All prerequisites for RRGE-1 to RRGI-6 pulse test, FET-7-79 have been met.
- 6.2 Orifice and flow recorders installed and working properly at FE-6-23.
- 6.3 Perform or check valve lineup per Table 1A, FET-7-79.
- 6.4 Ensure all specified data for the RRGE-1 to RRGI-6 pulse test is taken for the 7.0 Section.

EXCEPTION: Take wellhead pressure at RRGI-6 every minute of Sections 7.2 and 7.3.

7.0	PROC	<u>EDURE</u>
	7.1	Start pumps at RRGE-1 and RRGI-6 per engineering direction.
	7.2	Inject at 1000 GPM for 30 minutes.
	7.3	After 30 minutes, increment flow to 1100 GPM and inject for 30 minutes. Continue 100 GPM increments at 30 minute each until pump cutout on high line pressure or 1500 GPM, whichever is first, (or other problem). Record all actions.
and the second s	7.4	If a pump is shutoff, or cuts out from high pressure, contact Reservoir Engineer and Test and Coordination immediately for further direction.
	7.5	RECOVERY: Shut in RRGE-1 and RRGI-6 and recover for the total injection time for Sections 7.2 and 7.3 plus one hour or as directed by Reservoir Engineer.

8.0 <u>COMMENTS</u>: Record all actions and comments regarding this test section. Also record actions as directed by Reservoir Engineer/Test & Coordination. DATE____TIME___ TEST STEP____