

GL07338_5

INTEROFFICE CORRESPONDENCE

ate	September 28, 1979	
0	RRFO Manager '	
rom	Test Planning and Coordination	on <mark>.</mark>
ubject	ADDENDUM TO FET-7-79 - RRGE- INJECTION TEST - FET-14-79: RRGI-7	PRODUCTION TEST TO RRGI-6 and RRGI-7 PULSE TESTING CHECKOUT AT RRGI-6 AND
	Approved by:	
	Reservoir Eng.	Date
	Drilling Eng.	Date
	Design Eng.	Date
	Environmental Eng.	Date
	RRFO Eng	Date
	Safety Eng	Date
	Chemistry Eng.	Date
	Test Planning & Coord	Date
	Quality Review Only	Date
		Authorized for Release
	•	G. M. Millar Date
	REV. RELEASE DATE	

REV.	RELEASE DATE
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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 SAFETY

- 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.
- 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 Flow orifice for FE-7-10. Size as directed by engineering.
- 5.2 Flow recorder compatible with item 5.1.

6.0 PREREQUISITES

- 6.1 All prerequisites for RRGE+1 to RRGI-7 pulse test, FET-7-79.
- 6.2 Orifice and flow recorders installed and working properly at FE-7-10.
- 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-7 pulse test is taken for the 7.0 Section.

EXCEPTION: Take wellhead pressure at RRGI-7 every minute of Section 7.2 and 7.3.

7.0	PROCI	<u>EDURE</u>
	7.1	Start pumps at RRGE-1 and RRGI-7 per engineering direction.
	7.2	Inject at 1000 GPM for 30 minutes.
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	7.4	If a pump is shutoff, or cuts out from high pressure, contact Reservoir Engineer and Test and Coordination immediately for

- 7.5 RECOVERY: Shut in RRGE-1 and RRGI-7 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 RRGE-1 PRODUCTION TO RRGI-6 and RRGI-7 INJECTION
- 8.1 Perform or check valve lineup in Table 1A, FET-7-79.
- 8.2 Start pumps at RRGE-1, RRGI-6, and RRGI-7 as directed by engineering.
- ____ 8.3 Initial flowrates:

RRGE-1: 1000 GPM RRGI-6: 500 GPM RRGI-7: 500 GPM

further direction.

Flow for 30 minutes, and then increment flow at RRGE-1 to 100 GPM for 30 minutes, splitting flow evenly between RRGI-6 and RRGI-7.

Continue 100 GPM increments for 30 minutes each until a pump cutout occurs, or the 1500 GPM flowrate is run for 30 minutes. Record all comments.

8.4 Shutoff pumps, shut in RRGE-1, RRGI-6 and RRGI-7 and recover for the total time from Step 8.3, plus one hour, or as directed by Reservoir Engineer. Record all comments.