



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
 GEOLOGICAL SURVEY PROGRAM  
**OIL AND GAS MECHANICAL INTEGRITY TEST REPORT**

**WELL OWNER INFORMATION**

NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL	OPERATOR LICENSE NUMBER
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**WELL INFORMATION**

LEASE NAME	API NUMBER	WELL NUMBER
TEST DATE	MAXIMUM APPROVED WELL INJECTION PRESSURE	

**TEST INFORMATION (SEE BACK OF FORM FOR REGULATIONS REGARDING MECHANICAL INTEGRITY TESTING)**

TYPE OF TEST (CHOOSE ONE)  
 Pressure     Radioactive Tracer Survey     Temperature Survey     Other \_\_\_\_\_

WELL CONSTRUCTION TYPE AND CORRESPONDING TEST PROCEDURE (SEE BACK OF FORM FOR TEST PROCEDURES)  
 Without tubing and packer Procedure 1A     With tubing and packer Procedure 1B     With tubing and no packer Procedure 1C     With tubing and no packer Procedure 1D

TEST RESULTS

Fluid used for test (water, nitrogen, CO2, compressed air, etc.) \_\_\_\_\_

Depth to top of perforation \_\_\_\_\_ Packer set depth \_\_\_\_\_

Fluid depression  Yes  No

Calculate the required fluid depression pressure using the equation below. The minimum pressure required for this well type and construction is listed on the back of this form.

(depth to top perforation \_\_\_\_\_ feet) – (depth to fluid level \_\_\_\_\_ feet) X (0.433) psi/ft = \_\_\_\_\_ psi

	Run #1	Run #2	Run #3	Run #4
Start Time				
End Time				
Length of Test				
Initial Pressure (PSI)				
Ending Pressure (PSI)				
Pressure Change				

COMMENTS

**CERTIFICATION**

I, the undersigned, certify that:

- The information submitted on this form is true and correct.
- This test was conducted in accordance with the Missouri Code of State Regulations Oil and Gas Council Rule 10 CSR 50-2.055.

PRINT NAME	TITLE	COMPANY
PRIMARY PHONE NUMBER WITH AREA CODE	EMAIL ADDRESS	
SIGNATURE		DATE

**FOR OFFICE USE ONLY**

TEST RESULTS <input type="checkbox"/> Pass <input type="checkbox"/> Fail	COMMENTS	DATE
WITNESSED <input type="checkbox"/> Yes <input type="checkbox"/> No		
APPROVED BY		DATE

**Missouri Code of State Regulations Oil and Gas Council Rule 10 CSR 50-2.055(12)(A)**

**Demonstration of mechanical integrity shall utilize at least one (1) of the following procedures:**

1. Pressure test. The annulus above the packer, or the injection casing in wells not equipped with a packer, shall be pressure tested. The date for this test shall be mutually agreed upon by the operator's representative and a representative of the state geologist, with a minimum of five (5) business days' notice prior to the test. Test results shall be verified by the operator's representative. The test shall be conducted in the following manner:
  - A. For newly completed or newly converted wells, the casing may be tested before perforating. A fluid pressure of one hundred ten percent (110%) of the approved pressure shall be applied, but shall be no less than three hundred (300) psig. A well demonstrates mechanical integrity if, when pressurized, it does not lose more than ten percent (10%) of the tested pressure over a period of thirty (30) minutes;
  - B. Wells constructed with tubing and a packer shall be pressure tested with the packer in place. A fluid pressure of one hundred ten percent (110%) of the approved pressure shall be applied, but shall be no less than three hundred (300) psig. A well demonstrates mechanical integrity if, when pressurized, it does not lose more than ten percent (10%) of the tested pressure over a period of thirty (30) minutes;
  - C. For wells constructed with tubing and no packer, a retrievable plug or packer shall be set immediately above the uppermost perforation or openhole zone. A fluid pressure of one hundred ten percent (110%) of the approved pressure shall be applied, but shall be no less than three hundred (300) psig. A well demonstrates mechanical integrity if, when pressurized, it does not lose more than ten percent (10%) of the tested pressure over a period of thirty (30) minutes; and
  - D. For wells constructed with tubing and no packer, a method of pressure testing known as fluid depression may be conducted with prior approval and under guidelines established by the state geologist. The fluid in the well shall be depressed with gas pressure to a point in the wellbore immediately above the perforations or openhole interval. The minimum calculated pressure required to depress the fluid in the wellbore shall be no less than fifty (50) psig. A well demonstrates mechanical integrity if, when pressurized, it does not lose more than ten percent (10%) of the tested pressure over a period of thirty (30) minutes;
2. Alternative tests. Alternative test methods approved by the state geologist including, but not limited to, temperature surveys, tracer surveys, or noise logs, may be used to demonstrate mechanical integrity if conditions are appropriate. The date for this test shall be mutually agreed upon by the operator's representative and a representative of the state geologist, with notice provided a minimum of five (5) business days prior to the test. Test results shall be verified by the operator's representative and shall be interpreted as specified in state geologist-approved procedures.