

FORM

21

Rev  
08/14

# State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

402427044

Date Received:

## MECHANICAL INTEGRITY TEST

1. Duration of the pressure test must be a minimum of 15 minutes.
2. An original pressure chart must accompany this report if this test was not witnessed by an OGCC representative. Injection well tests must be witnessed by an OGCC representative.
3. For production wells, test pressures must be at a minimum of 300 psig.
4. New injection wells must be tested to maximum requested injection pressure.
5. For injection wells, test pressures must be at least 300 psig or average injection pressure, whichever is greater.
6. A minimum 300 psi differential pressure must be maintained between the tubing and tubing/casing annulus pressure.
7. Do not use this form if submitting under provisions of Rule 326.a(1)B. or C.
8. Written OGCC notification must be provided 10 days prior to the test via Form 42, Field Operations Notice
9. Packers or bridge plugs, etc., must be set within 100 feet of the perforated interval to be considered a valid test.

Complete the Attachment

Checklist

OP OGCC

OGCC Operator Number: <u>10690</u>	Contact Name <u>Sam Bradley</u>	Pressure Chart		
Name of Operator: <u>IMPETRO RESOURCES LLC</u>	Phone: <u>(970) 593-8626</u>	Cement Bond Log		
Address: <u>2820 LOGAN DRIVE</u>		Tracer Survey		
City: <u>LOVELAND</u> State: <u>CO</u> Zip: <u>80538</u> Email: <u>sbradley.impetro@gmail.com</u>		Temperature Survey		
API Number : 05- <u>121-05190</u>	OGCC Facility ID Number: <u>233166</u>	Inspection Number		
Well/Facility Name: <u>SCOTT</u>	Well/Facility Number: <u>1-WD</u>			
Location QtrQtr: <u>NENW</u> Section: <u>7</u> Township: <u>4S</u> Range: <u>53W</u> Meridian: <u>6</u>				

SHUT-IN PRODUCTION WELL  INJECTION WELL Last MIT Date: 6/27/2019 12:00:00 AM

**Test Type:**

Test to Maintain SI/TA status  5-Year UIC  Reset Packer

Verification of Repairs  Annual UIC TEST

Describe Repairs or Other Well Activities: Annual MIT. See comments section for detail.

Wellbore Data at Time of Test				Casing Test Use when perforations or open hole is isolated by bridge plug or cement plug; use if cased-hole only with plug back total depth.  Bridge Plug or Cement Plug Depth <u>4130</u>
Injection Producing Zone(s)	Perforated Interval	Open Hole Interval		
JSND	4636-4684			
Tubing Casing/Annulus Test				
Tubing Size:	Tubing Depth:	Top Packer Depth:	Multiple Packers?	
			<input type="checkbox"/>	

### Test Data (Use -1 for a vacuum)

Test Date	Well Status During Test	Casing Pressure Before Test	Initial Tubing Pressure	Final Tubing Pressure
06-16-2020	SHUT-IN	-1		
Casing Pressure Start Test	Casing Pressure - 5 Min.	Casing Pressure - 10 Min.	Casing Pressure Final Test	Pressure Loss or Gain
325	325	325	325	0

Test Witnessed by State Representative?  OGCC Field Representative Sherman, Susan

OPERATOR COMMENTS:

Originally noticed for 06/17/2020. Called Ms. Sherman and decided to perform the test on 06/16/2020. Note: Well takes water on a vacuume... there is not an injection pump on location.

Events on 06/16/2020: Emailed to Ms. Burn and Mr. Koehler

Susan and I had a discussion with Diana just now about the subject well. Attached is some information and summary of the conversation.

1. Wellbore diagram for context and well history
2. Approved form 21 from 2018 and Canary ticket for that MIT. This is the form I used as a template when I filled out the information for the test in 2019. Looking at the details this MIT was incorrectly reported as the 21 lists it as a annular test from 4,430' however the test was actually a casing test from 4,110' as shown on the Canary ticket.
3. Approved form 21 from 2019, original form 21 submitted in 2019 and Cortec ticket from that MIT. This test was again incorrectly reported (similar to 2018). After review by the staff and additional comments by me it says the plug was set at 4,430' (in the approved 21). The field ticket says gauge ring to 4,130' and plug set at 4,105'. I must have gotten crossed up when making the comments and listed the end of tubing depth instead of the plug depth in that comment.

We discussed that we found this out today in the field with Susan after Cortec could not get deeper than 4,130 with the gauge ring today. Diana said to set as deep as possible and perform the test and submit the 21 with a comment about these findings. Additional discussions about how to move forward will be discussed after the form 21 of todays test is submitted.

2020/06/20 Update:

Passed MIT at 325 psi from 4,105'. Could not get deeper than 4,130' with gauge ring. Well takes fluid on a vacuum. Well files from when the liner was run and cemented show the casing tested good below 4,400'. Area of casing not tested by this test is 4,105' to 4,430'. Formation tops in this area is T/D-Sand @ 4,585', T/Bentonite @ 4,492', T/Greenhorn @ 4,276', T/Carlile @ 4,187', T/Fort Hays @ 4,131', T/Niobrara @ 3,648. If there was a casing issue between 4,105' and top perf at 4,636' the water would be exposed to the above formations which are known hydrocarbon formations. There is no danger to aquifers or other correlative wrights (no offset production in these formations and Impetro owns the rights to them) and requests approval of this MIT for continued injection. TOC in the liner is surface and TOC in 5-1/2 casing is 4,421' with a squeeze behind 5-1/2 of 325 sx in holes between 1,492' and 1,507'.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Sam Bradley  
 Title: Managing Member Email: sbradley.impetro@gmail.com Date: \_\_\_\_\_

Based on the information provided herein, this Notice (Form 21) complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: \_\_\_\_\_ Date: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:**

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
402427045	OTHER
402427046	OTHER
402427047	OTHER
402427048	OTHER
402427049	OTHER
402427050	OTHER
402427052	FORM 21 ORIGINAL

Total Attach: 7 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
		Stamp Upon Approval

Total: 0 comment(s)