

WR37

MECHANICAL INTEGRITY TEST


Test Method: Pressured up to 4500 psi and held for ²⁰30 minutes. Pressure remained constant at 4500 psi for the duration of the test.

The undersigned certifies that the test was performed on March 8, 2018, 20 and demonstrated mechanical integrity of the well. The test was witnessed by Gayne Knitowski representing the Office of Oil and Gas.

HG Energy, LLC.
Well Operator

3/21/18
Date

THIS WELL IS AUTHORIZED FOR INJECTION.

Signed  UIC PROGRAM DIRECTOR
Date 3/26/18

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[NOTE: That the mechanical integrity of this well must be demonstrated again within ninety (90) days of five years from this date in order for injection to continue. Please notify the state inspector 24 hours in advance of the test].


Well Operator
By: Matthew J. McGuire
Its ESHR Director

MIT test Greer A1 Injection well

Date: 3/8/18

time	pressure	
9:58	4500 psi	test start
10:02	4500 psi	
10:08	4500 psi	
10:13	4500 psi	
10:20	4500 psi	
10:24	4500 psi	
10:28	4500 psi	test stop

This was a good test 20 minute duration, no loss in pressure.
test was witnessed by Gayne Knitowski WV DEP Inspector
see chart record, with calibration certificate

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60

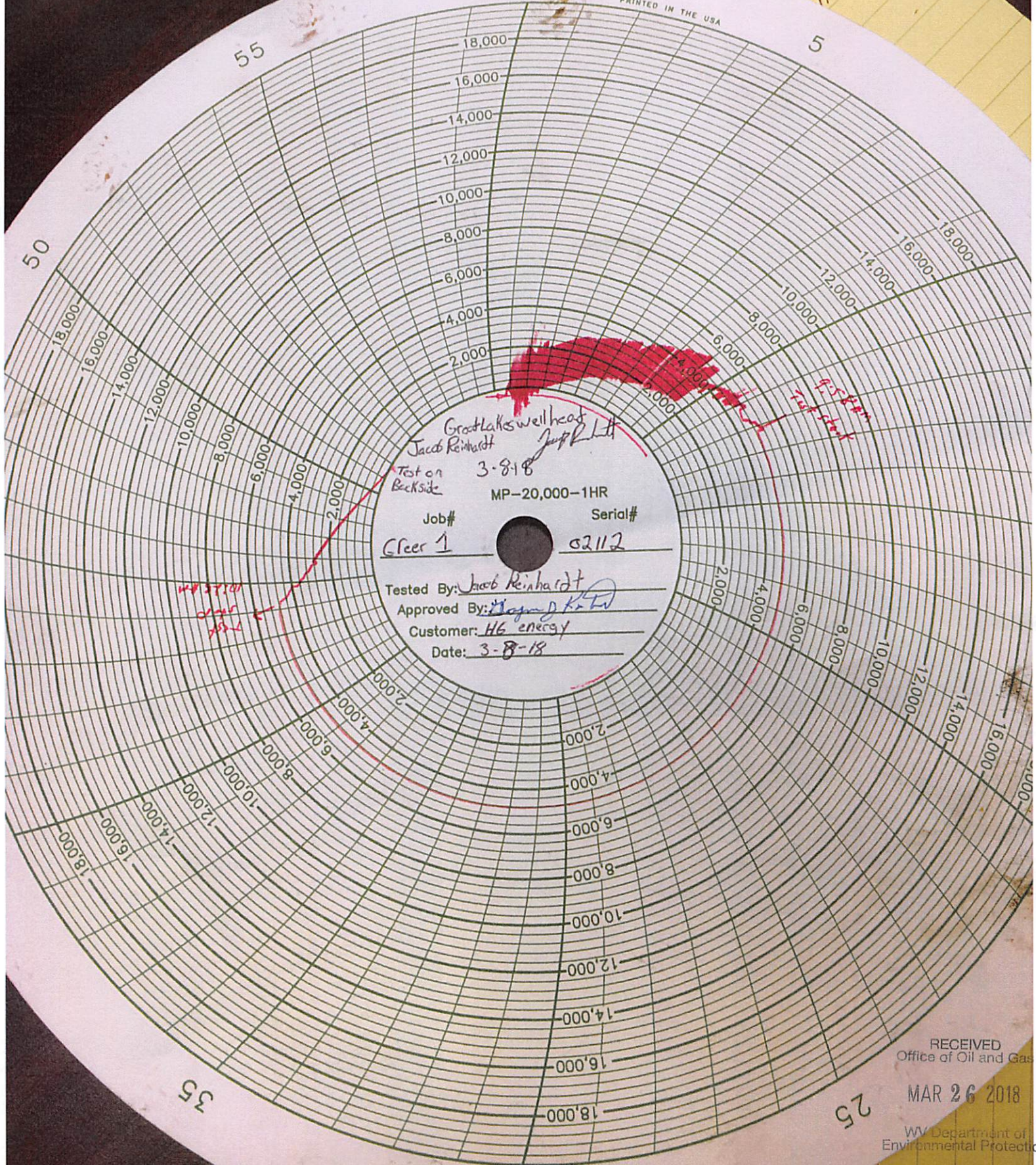
PRINTED IN THE USA

Primer

55

5

50



Grad Lakes wellhead
 Jacob Reinhardt
 Test on Backside
 3-8-18
 MP-20,000-1HR
 Job#
 Clear 1
 Serial#
 02112
 Tested By: Jacob Reinhardt
 Approved By: *[Signature]*
 Customer: H6 energy
 Date: 3-8-18

4# 57,100
2005
150-2

f.5 ft from
track start

35

25

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1047 Robinson Highway McDonald PA. 15057

Phone (281) 387-1687

Phone (724) 828-0023

Calibration Certificate

Description: CHART RECORDER

Serial Number: 02112

Range: 20,000 P.S.I.

Capacity: 20,000 P.S.I.

Accuracy: 1%

Room Temp: 72*

Humidity: 13%

Pressure (PSI) Arriving On Calibration Table		
Applied Pressure	Indicated Pressure	Difference
1000.00	1010.00	10.00
2000.00	2010.00	10.00
3000.00	3010.00	10.00
4000.00	4010.00	10.00
5000.00	5010.00	10.00
6000.00	6010.00	10.00
7000.00	7010.00	10.00
8000.00	8020.00	20.00
9000.00	9020.00	20.00
10000.00	10020.00	20.00
12000.00	12025.00	25.00
14000.00	14025.00	25.00
15000.00	15030.00	30.00
16000.00	16030.00	30.00
17000.00	17030.00	30.00
18000.00	18030.00	30.00
19000.00	19030.00	30.00
20000.00	20030.00	30.00

Pressure (PSI) Departing Calibration Table		
Applied Pressure	Indicated Pressure	Difference
1000.00	1000.00	0
2000.00	2000.00	0
3000.00	3000.00	0
4000.00	4000.00	0
5000.00	5000.00	0
6000.00	6000.00	0
7000.00	7000.00	0
8000.00	8000.00	0
9000.00	9000.00	0
10000.00	10000.00	0
12000.00	12000.00	0
14000.00	14000.00	0
16000.00	16000.00	0
16000.00	16000.00	0
17000.00	17000.00	0
18000.00	18000.00	0
19000.00	19000.00	0
20000.00	20000.00	0

INSTRUMENT CALIBRATED IN THE VERTICAL POSITION

Method of Calibration

The Described item was calibrated using Pressure Gauge S/N # 211H13620011 with certificate no.478275 which is Traceable back to the National Institute of Technology.

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Note: _____
PBC01373

Calibration Date: 1/26/2018

Technician: Pat Smith

Calibration Due Date: 4/26/2018

Pat Smith
Signature