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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

June 5, 2017

Viking Energy Corporation  
Attn: Eric Pinkerton  
PO Box 13366  
Sissonville, WV 25360

Re: Mechanical Integrity Test Approval and Authorization for Injection

Dear Viking Energy Corporation:

The mechanical integrity test performed May 31, 2017 on well API 47-039-02210 has been approved. Authorization is granted to resume injection. The maximum permitted injection pressure for this well is set at 1925 psig. If you have any questions then please feel free to contact Justin Nottingham via email at [Justin.E.Nottingham@wv.gov](mailto:Justin.E.Nottingham@wv.gov) or by phone at (304) 926-0499 ext. 1650.

Respectfully,

Melanie Hankins  
Environmental Resources Specialist  
WVDEP Office of Oil & Gas

WR-37  
REV. 5/01

Date: 5/31/17  
Operator's Well Number WALLACE #1  
State 47- County 039 Permit 2210  
API Well No.:

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENT-OFFICE OF OIL AND GAS  
PRE-OPERATION CERTIFICATE  
FOR LIQUID INJECTION OR WASTE DISPOSAL WELL

WELL OPERATOR Viking Energy Corp. DESIGNATED AGENT Eric Pinkerton  
Address 8113 Sissonville Dr. Address 8113 Sissonville Dr.  
Sissonville, WV 25320 Sissonville, WV 25320

GEOLOGICAL TARGET FORMATION Newburg Depth 5557 feet(top) to 5574 feet(bottom)  
Virgin reservoir pressure in target formation 2125 psig  
Source of information on virgin reservoir pressure: Field estimate, and well record  
Perforation intervals Open Hole @ 5514' Open-hole intervals 5514'-5584'

MAXIMUM PERMITTED INJECTION OPERATIONS  
Well head injection pressure: ~~2018~~ 1925 psig SN Bottom hole pressure: ~~4678~~ 4411 psig SN  
Volume per hour: 150

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED  
Liquids to be injected for oil recovery: N/A  
Wastes to be disposed of: CLASS II FLUIDS (BRINE)  
Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.) Biocides, Corrosion inhibitors

SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL Cathodic protection, well head grounded. Corrosion additive mixed in with fresh water in annulus.

ADDITIONAL DRILLING AS PART OF THE CONVERSION (Complete form WR-35)

DETAILS ON NEW CASING AND TUBING PROGRAM AS PART OF THE CONVERSION (To be completed below unless the new casing and tubing program is described on a form WR-35, submitted in connection with the permit to which this form WR-37 relates.)

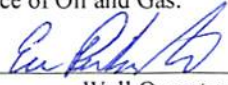
CASING OR TUBING TYPE	SIZE	GRADE	WEIGHT PER FT.	NEW	USED	FOOTAGE USED IN DRILLING	FOOTAGE LEFT IN WELL	CEMENT USED	PACKERS (KIND, SIZE, DEPTH SET)
CONDUCTOR	20'	UNK	106.5	x		15	15	CTS	
FRESH WATER	13 3/8"	H-40	48	x		241	241	CTS	
COAL									
INTERMEDIATE	8 5/8"	J-55	24	x		1738	1738	CTS	
PRODUCTION	5 1/2"	N-80	17	x		5514	5514	TOC	
TUBING	2 7/8"	J-55	6.5	x		5472	5472	CODED 10' PUP JOINT	BAKER-LOCK SET
LINERS									5472'

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MAY 31 2017  
Office of Oil and Gas  
WV Dept. of Environmental Protection

**MECHANICAL INTEGRITY TEST**

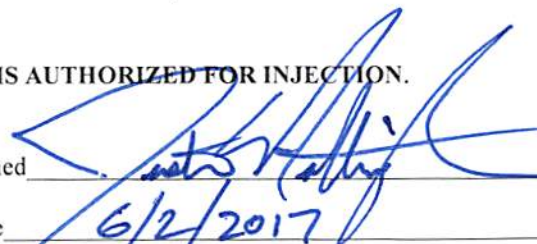
Test Method: FILLED ANNULUS UP WITH FRESH WATER BETWEEN 5 1/2" CASING AND 2 7/8" TUBING. CORROSION INHIBITOR WAS ADDED TO WATER.  
STARTED TO PRESSURE UP BACKSIDE FROM 0 TO 3050 PSI. TOOK ABOUT 15 MIN TO TO REQUIRED PRESSURE.  
TEST PRESSURE WAS 3050 PSI WHEN TEST BEGAN. HELD AT 3050 PSI TO END OF TEST.  
TESTED BACKSIDE WITH HYDROSTATIC WATER PUMP AND HELD FOR 20 MIN.  
RECORDED TEST WITH 1 DAY CHART USING BARTON FLOW METER.

The undersigned certifies that the test was performed on May 31st, 2017 and demonstrated mechanical integrity of the well. The test was witnessed by TERR URBAN representing the Office of Oil and Gas.

  
 Well Operator

May 31, 2017  
 Date

**THIS WELL IS AUTHORIZED FOR INJECTION.**

Signed  UIC PROGRAM DIRECTOR  
 Date 6/2/2017

[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].

Eric Pinkerton   
 Well Operator  
 By: ERIC PINKERTON  
 Its OWNER

**Received**  
 MAY 31 2017  
 Office of Oil and Gas  
 Well Protection

5 6 AM

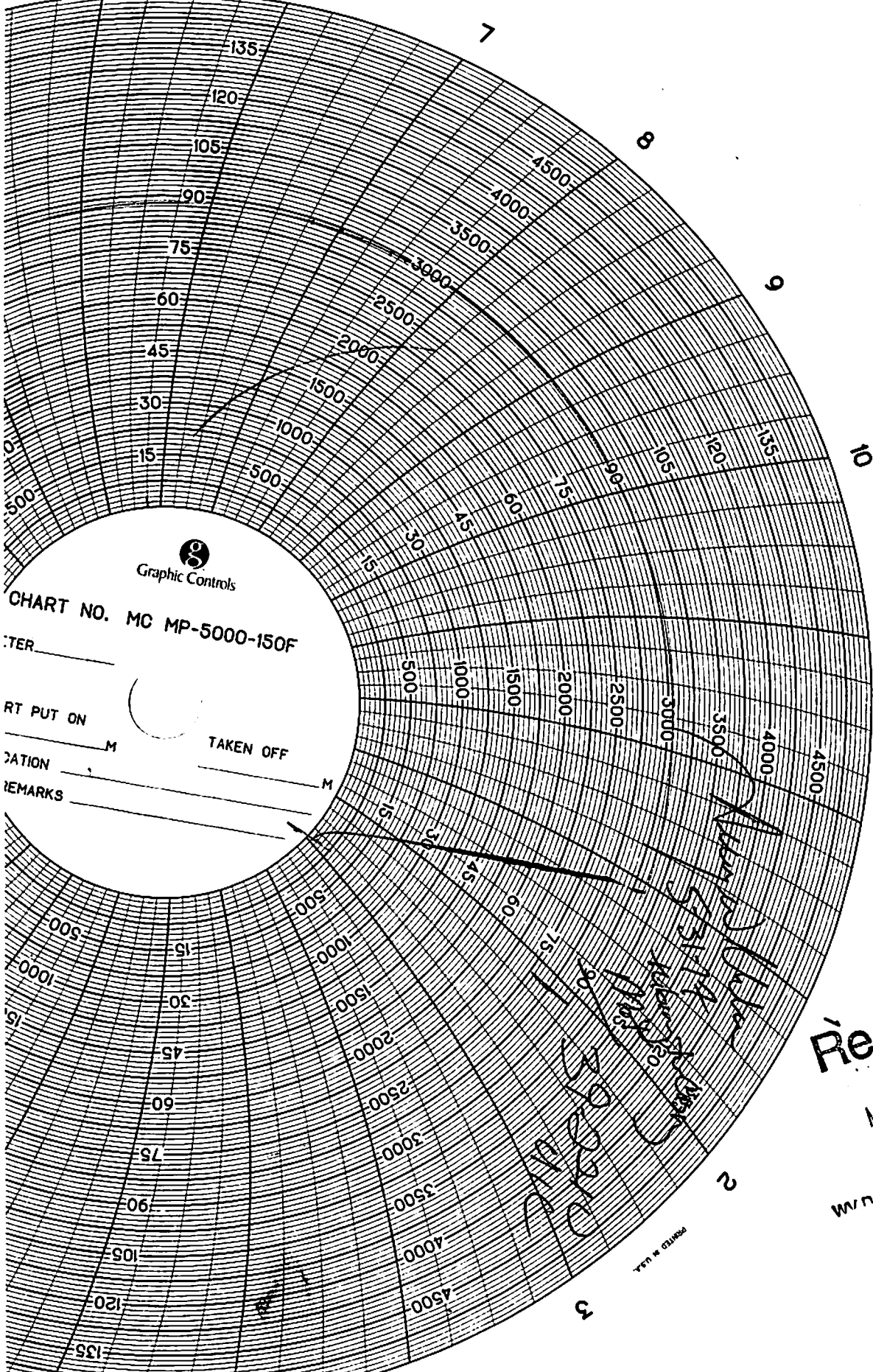


CHART NO. MC MP-5000-150F

OPERATOR \_\_\_\_\_  
 START PUT ON \_\_\_\_\_ M  
 STOP TAKEN OFF \_\_\_\_\_ M  
 DATE \_\_\_\_\_  
 REMARKS \_\_\_\_\_

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