January 23, 2013

January 30, 2014 Updated with Thickness and additional requested information.

Mail To: Bill To:

Doug Evans <= Same (P.O. Number: 1024)

New Pig New Pig Energy

5 Pork Ave. 19 Colonnade Way Ste 117 #148

Tipton, PA 16684 State College, PA 16803

email: dougev@newpig.com email:bethp@newpig.com

Dear Mr. Evans:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs.

TRI is pleased to submit this final report for laboratory testing.

TRI Job Reference Number: E2375-26-04

Material(s) Tested: 1 New Pig 100 mil Well Pad Liner Nonwoven Geotextile Composite

Test(s) Requested: Permittivity (ASTM D 4491, 6 inch Falling Head)

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

Mansukh Patel

Matel

Sr. Laboratory Coordinator Geosynthetic Services Division

www.GeosyntheticTesting.com

cc: Sam R. Allen, Vice President and Division Manager

GEOTEXTILE TEST RESULTS TRI Client: New Pig

Material: New Pig 100 mil Well Pad Liner Nonwoven Geotextile Composite

Sample Identification: 11/01/12 8/10/8 #205001

TRI Log #: E2375-26-04

Composite Test Date: 02/01/13

DADAMETER	TEOT DEDI	EST REPLICATE NUMBER									STD.
PARAMETER	TEST REPL	2	3 4	5	6		8	9	40	MEAN	DEV.
Falling Head Permittivity (ASTM D Sample has been sealed at e	, ,	– Head	; 2 in openin	ıg)	·	nt had		•	10 Three da	ys before testing)	
Water Temp. (C): Correction Factor:	1.00										
Test Speciemn No. >:		1					2				
Nominal Thickness (mils) Volume Collected (liters)	-	100.0 NO FLOW				Ν	100 IO FLO\				
Time (hrs)		72.0				72.0					
Specimen Permittivity @20°C (sec-1) Specimen Flow rate (GPM/ft2) Specimen Permeability (cm/s)		No Flow up to 72 Hours No Flow up to 72 Hours				No Flow up to 72 Hours No Flow up to 72 Hours					
		3			4						
Nominal Thickness (mils) Thickness (mm)		100				100					
Volume Collected (liters)		NO FLOW				NO FLOW					
Time (hrs)		72.0				72.0					
Specimen Permittivity @20°C (sec-1) Specimen Flow rate (GPM/ft2) Specimen Permeability (cm/s)		No Flow up to 72 Hours No Flow up to 72 Hours					•	72 Hours 72 Hours			
			TEMPERAT CORRECT VALUE	ΓED			Flow	rmittivi rate (Gl eability	PM/ft2)	No Flow No Flow up to 72	2 Hrs

Nominal Thickness provided by client.

The testing is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material. TRI observes and maintains client confidentiality. TRI limits reproduction of this report, except in full, without prior approval of TRI.