

Date: 9-28-16  
 Operator's Well Number Smith #1  
 State West Virginia County Putnam Permit 47-039-02803  
 API Well No.: 47-039-02803

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

WELL OPERATOR Synergy Oil and Gas Inc DESIGNATED AGENT Sammar Atase  
 Address 4406 Kanawha Ave Address Same  
Charleston WV 25304

GEOLOGICAL TARGET FORMATION Big Injun Depth 1808 feet(top) to 1820 feet(bottom)  
 Virgin reservoir pressure in target formation 1000 psig  
 Source of information on virgin reservoir pressure: Estimate from Curves - virgin pressure  
 Perforation intervals 1792-1806 Open-hole intervals \_\_\_\_\_

MAXIMUM PERMITTED INJECTION OPERATIONS  
 Well head injection pressure: 350 psig Bottom hole pressure: 1200 psig  
 Volume per hour: 5 Bbl/hr

DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED  
 Liquids to be injected for oil recovery: \_\_\_\_\_  
 Wastes to be disposed of: Formation water  
 Additives (Slurry mediums, inhibitors, solvents, oxidizers, deoxidizers, etc.) \_\_\_\_\_

SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL \_\_\_\_\_

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								
FRESH WATER	<u>8 5/8"</u>					<u>204'</u>	<u>to surface</u>	
COAL								
INTERMEDIATE								
PRODUCTION TUBING	<u>4 1/2"</u>					<u>1964'</u>	<u>to 1600'</u>	
LINERS	<u>2 3/8"</u>					<u>1775'</u>		<u>1775'</u>
						<u>Halliburton packer</u>	<u>4.5 x 2 3/8"</u>	<u>1775'</u>

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 WV Dept. of Environmental Protection

MECHANICAL INTEGRITY TEST

Test Method: Pressure Test to 1000 PSI using the injection pump at the well.  
Pressure well to 1000 PSI. Hold Pressure for 20 minutes.  
No pressure Drop within the twenty minutes  
Test was witnessed by Inspector Terry Urban

The undersigned certifies that the test was performed on 9-28-16, 2016 and demonstrated mechanical integrity of the well. The test was witnessed by Terry Urban representing the Office of Oil and Gas.

Synergy Oil and Gas Inc  
Well Operator

9-28-2016  
Date

THIS WELL IS AUTHORIZED FOR INJECTION.

Signed [Signature] UIC PROGRAM DIRECTOR  
 Date 10/7/16

[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].

Synergy Oil and Gas Inc  
Well Operator  
 By: [Signature]  
 Its owner

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 WV Dept. of Environmental Protection

